# **APPENDIX R**

**RESPONSES TO DRAFT EIS COMMENTS** 

## **NEXUS Gas Transmission Project**

### **Comments on the Draft EIS and Responses**

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IND509	Paul A. Bosela and Paul A. Bosela, Jr.	
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IND638	Jim & Elinor Judson	
IND639	Paul Gierosky	
IND640*	Julia Otero Ramos	
IND642	Carl Brunello	
IND643	Paul Wohlfarth	
IND644	Chelsey Hill	
IND645	Evelyn Greenwald	
IND646	Henry Heilmann	
IND647	Cynthia Burdette	
IND648	Dale Palmer	
IND649	Paul Wohlfarth	
IND650	Paul Wohlfarth	

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IND655	James & Elinor Judson	
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IND657	Matthew Moran	
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IND659	Danielle L. Moran	
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IND661	Jean Jackson	
IND662	Karen Stallings	
IND663	Ben and Angela Burns	
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IND665	James Fisher II	
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### PUBLIC MEETINGS

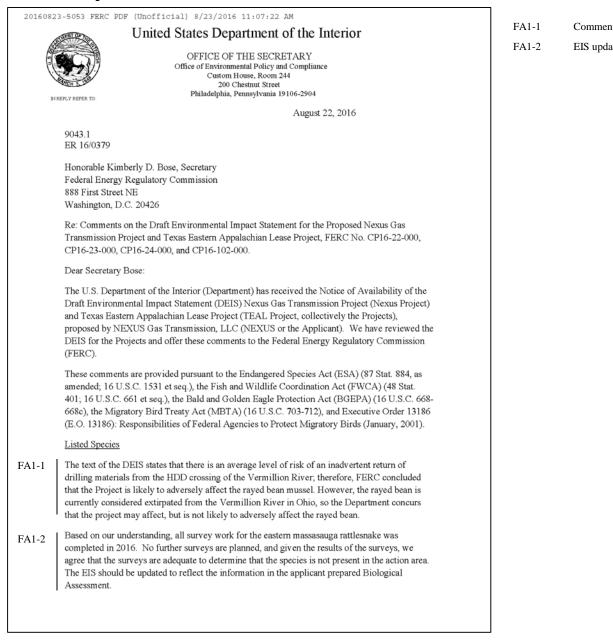
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\* An asterisk identifies a gap in the numbering sequence due to duplicate or form letter submittals.

We note that the clarity of some letter images is low due to the necessity of reducing the files for our responses in this appendix. Appendix R and each of the individual comment letters are available for viewing in their native formats on the FERC eLibrary website (<u>www.ferc.gov</u>) to resolve any issues with image constraints due to printing.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Individual comment letters are available for viewing on the FERC Internet website (<u>http://www.ferc.gov</u>). Using the "eLibrary" link, select "General Search" from the eLibrary menu, enter an appropriate date range and "Docket No." excluding the last three digits (i.e., CP16-22, CP16-23, CP16-24, or CP16-102), and follow the instructions. For assistance, call 1-866-208-3676, or e-mail FERCOnlineSupport@ferc.gov.

### FA1 – U.S. Department of the Interior



-1	Comment noted.

EIS updated to reflect BA and FWS comments.

### FA1 – U.S. Department of the Interior (cont'd)

the Michigan portion of the Projects".

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#### Migratory Birds

FA1-3	Section 4.6.6 of the DEIS addresses the existing environment in the area of the Projects with
	regard to migratory birds. In section 4.6.6.1, the DEIS states "On March 30, 2011, the FWS and
	the Commission entered into a Memorandum of Understanding that focuses on avoiding or
	minimizing adverse impacts on migratory birds and protected bat species and strengthening
	migratory bird conservation through enhanced collaboration between the two agencies." While
	the Memorandum of Understanding (MOU) between the U.S. Fish and Wildlife Service
	(Service) and FERC does address avoidance and minimization of impacts, it is not to the
	exclusion of other methods of mitigation, which include restoring the impacted environment,
	reducing impacts over time, and compensating for impacts by replacing or providing substitute
	resources. Also, the MOU does not address listed bat species. We recommend the previous
	statement be revised to "On March 30, 2011, the FWS and the Commission entered into a
	Memorandum of Understanding that focuses on avoiding, or mitigating adverse
	impacts on migratory birds and protected bat species and strengthening migratory bird
	conservation through enhanced collaboration between the two agencies."
FA1-4	Section 4.6.6.2 of the DEIS addresses impacts and proposed mitigation for the Projects. The
	Applicant has consulted with the Service to develop a Migratory Bird Conservation Plan
	(MBCP) that evaluates expected impacts of the Projects to migratory birds and measures to
	mitigate those impacts. While there has been consultation with the Applicant on their MBCP,
	we suggest the statement "FWS region 3 and field office staff approved of the methodology used
	to develop the MBCP for the Michigan portion of the Projects" be modified as "FWS region 3

The Service has reviewed draft versions of the MCBP for the Projects and submitted comments FA1-5 to NEXUS. On July 20, 2016, the Service received the final Migratory Bird Conservation Plan from NEXUS for review. Overall, the Service is very impressed with the final MBCP. The plan uses a tiered approach, following the Service recommendation to clear vegetation in migratory bird habitat between September 1 and March 31 to the extent practicable, and developing a contingency plan if clearing cannot be completed within that window. (We also note that the Service has issued additional clearing recommendations for habitat used by listed species, including listed bats.) By limiting the timing of construction in migratory bird habitat (to the extent practicable) to avoid the core of the bird nesting season, we believe that the Projects have minimized the potential for take of migratory birds, eggs, and nests. We believe that identifying habitats and determining clearing windows based on the birds of conservation concern (BCCs) and state-listed species expected to breed in those habitats is a sound and reasonable method of planning construction while also providing for the conservation of migratory birds. The Department also notes that the Applicant has signed an MOU with the Service, committing NEXUS to mitigate for unavoidable impacts to migratory bird habitat. Given the MBCP's inclusion of compensatory mitigation for loss of migratory bird habitat, the Department concurs that the Projects have avoided, minimized, and mitigated the impacts on migratory birds and their habitats to the greatest extent practicable. NEXUS is continuing to consult with the Service to determine the final compensatory mitigation for the Projects.

and field office staff concurred with approved of the methodology used to develop the MBCP for

FA1-3	EIS updated with recommended language.
FA1-4	EIS updated with recommended language.

FA1-5 Comment noted.

### FA1 – U.S. Department of the Interior (cont'd)

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- FA1-6 It is observed that, in Ohio, the species-specific nesting dates in the MBCP (Appendix A) closely reflect the "safe dates" for the Ohio Breeding Bird atlas. It is also noted that these dates refer to the survey period where the assumption that local birds are part of the breeding population (rather than migrants) is likely to be valid. These dates deliberately truncate the beginning and end of the breeding season, and clearing windows based on these dates may not protect every bird nest for the species. For this project, we believe that using safe dates to determine clearing windows is reasonable, and will minimize the potential for take of bird nests, even if the potential for take is not zero. Whether safe dates are appropriate guides for setting clearing windows may differ across projects.
- FA1-7 Section 4.6.6.2 includes the following recommendation from FERC staff. "Prior to construction of the NGT Project, NEXUS should file with the Secretary its final MBCPs developed in consultation with the FWS incorporating any additional avoidance or mitigation measures incorporated into the plans." For increased consistency with recent Environmental Impacts Statements for FERC-regulated projects, including the proposed Rover Pipeline, Panhandle Backhaul, and Trunkline Backhaul Projects (FERC No. CP15-93-000, CP15-94-000, CP15-95-000) and the proposed Leach Xpress Project and Rayne Xpress Expansion Project (FERC No. CP15-514-000, CP15-539-000), we suggest modifying this recommendation as follows: "Prior to construction of the NGT Project, NEXUS should file with the Secretary its final MBCPs developed in consultation with the FWS incorporating any additional avoidance, minimization, and er mitigation measures: incorporated into the plans." The Service will notify FERC promptly when mitigation has been fulfilled and this recommendation has been fully met.

3

We appreciate the opportunity to provide these comments.

Sincerely,

Lindy Nelson Regional Environmental Officer

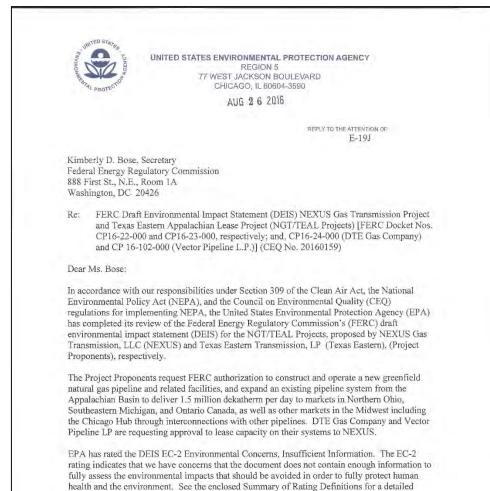
cc: Jeff Gosse, FWS

FA1-6 Comment noted.

FA1-7 NEXUS has filed the final MBCP with the Secretary. As such, the condition language has been removed from the final EIS.

### FA2 – U.S. Environmental Protection Agency

explanation of EPA's ratings.



EPA concerns are primarily due to insufficient information documenting avoidance, minimization and mitigation of impacts: 1) to wetlands and streams, 2) to upland forest, interior (core) forest and associated species, 3) to contaminated sites, 4) from noise, 5) regarding emergency response plans, 6) from greenhouse gases and methane leakage. The DEIS does not include: 1) wetland/stream mitigation plans, 2) upland interior (core) forest mitigation plans, 3)

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### FA2 – U.S. Environmental Protection Agency (cont'd)

a Migratory Bird Conservation Plan, nor 4) NEXUS' and Texas Eastern's emergency response plans. Enclosed are our detailed comments, which include recommendations for additional information to include in the Final EIS.

2

When FERC submits the Final EIS to EPA headquarters, also send EPA Region 5 one (1) paper copy and three (3) sets of CDs of the Final EIS.

If you or your staff have any questions or concerns, I can be reached at 312-886-2910, or contact Virginia Laszewski of my staff at laszewski.virginia@epa.gov or 312-886-7501.

Sincerely,

Kenneth A. Westlake, Chief NEPA Implementation Section Office of Enforcement and Compliance Assurance

Enclosures: Summary of Rating Definitions EPA Detailed Comments

cc (email): Federal Energy Regulatory Commission, Joanne Wachholder, Environmental Project Manager, joanne.wachholder@ferc.gov Michigan Department of Environmental Quality, Colleen O'Keefe, Water Resources Division, Lansing, MI, OKEEFEC@michigan.gov

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### FA2 – U.S. Environmental Protection Agency (cont'd)

U. S. EPA Comments on the Draft Environmental Impact Statement NEXUS Gas Transmission Project and Texas Eastern Appalachian Lease Project (NGT/TEAL Projects) [FERC Docket Nos. CP16-22-000 and CP16-23-000, respectively; and CP16-24-000 (DTE Gas Company) and CP 16-102-000 (Vector Pipeline L.P.)] (CEQ No. 20160159)

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The following comments follow the numbered topic order as presented in the Draft Environmental Impact Statement (DEIS).

### EXECUTIVE SUMMARY

**PROPOSED ACTION** (pages ES-1 and ES-2): "The NGT and TEAL Projects include about 260.6 miles of pipeline composed of the following facilities:

• NEXUS' mainline, which consists of about 255.7 miles of new 36-inch-diameter mainline pipeline in Ohio and Michigan;

NEXUS' interconnecting pipeline, which consists of about 0.9 mile of new 36-inch diameter interconnecting pipeline in Ohio;

• Texas Eastern's pipeline loop, which comprises about 4.4 miles of new 36-inchdiameter loop pipeline in Ohio; and

• Texas Eastern's connecting pipeline, which comprises about 0.3 mile of new 30-inch diameter interconnecting pipeline in Ohio.

The Projects' aboveground facilities include:

• NEXUS' 4 new compressor stations, 6 new metering and regulating (M&R) stations, and 17 new mainline values;

• Texas Eastern's new compressor station, modifications of an existing compressor station, two new pig launchers/receivers, and temporary pig launcher/receiver; and

• additional new facilities and modifications, such as pig launchers/receivers, communication towers, and regulators, installed at other aboveground facility sites.

The Projects would provide for the transportation of 1.5 million dekatherms per day of natural gas from the Appalachian Basin to consuming markets in Northern Ohio and Southeastern Michigan as well as the Dawn Hub in Ontario, Canada. Supply also would be able to reach the Chicago Hub in northern Illinois and other Midwestern markets through interconnections with other pipelines."

### 1.1 PROJECT PURPOSE AND NEED

The DEIS (page 1-3) states "While this EIS will briefly discuss NEXUS' and Texas Eastern's

FA2-1 The purpose and need of each project identified in the EIS is based on material filed in support of the applications for a Certificate of Public Convenience and Necessity (Certificate) for the Projects. As identified in section 1.1 of the EIS, the capacities of each project are based on binding precedent agreements between the applicants and their customers. Therefore, the purpose and need has been appropriately defined for each project for NEPA purposes, and any alternatives evaluated should be capable of meeting those contractual capacities.

FA2-1

FA2 – U.S. Environmental Protection Agency (cont'd)

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FA2-1 (cont'd)	stated purposes, it will not determine whether the need for the Projects exists, as this will be determined separately by the Commission."
	<b>Recommendation:</b> EPA recommends this section of Final EIS better identify when the Commission makes a need determination for the Proposed Projects in relation to FERC's release of the Final EIS.
FA2-2	<ul> <li>1.2 PURPOSE AND SCOPE OF THE EIS</li> <li>1.2. U.S. Environmental Protection Agency Purpose and Role</li> <li>DEIS (page 1-6) states, in part "The EPA has authority to review and veto the decisions on Section 404 permits." This section of the DEIS does not explain what a "404 permit" is nor identify the federal agency responsible for issuing "404 permits."</li> </ul>
	<b>Recommendation:</b> EPA recommends the Final EIS section 1.2.2 identify that the U.S. Army Corps of Engineers (Corps) as the federal agency responsible for issuing Clean Water Act (CWA) Section 404 permits for discharges of dredge and/or fill materials in Waters of the U.S. in Ohio, and Michigan Department of Environmental Quality (MDEQ) issues CWA Section 404 permits in Michigan. EPA has authority to review and veto the Corps' CWA Section 404 permits and object to MDEQ's decisions on CWA Section 404 permits.
FA2-3	1.5 PERMITS, APPROVALS, AND REGULATORY REQUIREMENTS Table 1.5-1 Major Environmental Permits, Licenses, Approvals, and Consultations for the NGT and TEAL Projects (DEIS, pages 1-14 and 1-15): According to the information in the DEIS the proposed locations for the NGT/TEAL Projects are Michigan and Ohio. Michigan and Ohio are within EPA Region 5, not Region 3 as currently shown on Table 1.5-1.
	<b>Recommendation:</b> EPA recommends Table 1.5-1 be corrected to show that EPA Region 5 (not EPA Region 3) has " <i>Oversight of federal and state delegated permits</i> " for the proposed NGT/TEAL Projects located in Ohio and Michigan.
	2.0 DESCRIPTION OF PROPOSED ACTION
FA2-4	<ul> <li>2.1.1 NGT Project</li> <li>Figure 2.1.1-1 NEXUS Gas Transmission Project – Overview Map (DEIS, page 2-2): This figure does not identify nor depict the existing pipeline and pipeline facility that NGT would connect to in order to deliver NGT natural gas to Ontario, Canada.</li> </ul>
	<b>Recommendation:</b> We recommend Figure 2.1.1-1 (NEXUS Gas Transmission Project - Overview Map) identify/depict the existing pipeline, pipeline route and its associated facility in Michigan that would receive and deliver NGT natural gas to the Dawn Hub in Ontario, Canada. Update the figure's color coded legend accordingly.
	2.1.2 TEAL Project 2.1.2.1 Pipeline Facilitics

- FA2-2 Section 1.2.2 has been updated to clarify Section 404 permitting responsibilities for Michigan and Ohio.
- FA2-3 Table 1.5-1 has been updated to reflect the correct EPA regional office.
- FA2-4 See figure 3.2.1-1 for a depiction of existing pipeline systems in the vicinity of the Projects.

FA2 – U.S. Environmental Protection Agency (cont'd)

FA2-5	Figures 2.1.1-2 Texas Eastern Appalachian Lease Project – Overview Map (DEIS page 2-3): This figure does not show how proposed locations for the TEAL pipeline/facilities relate to Texas Eastern's existing pipeline/facilities, nor other companies' pipelines/facilities, including the proposed NGT Project.	
	<b>Recommendation:</b> EPA recommends Figure 2.1.1-2 (TEAL Overview Map) clearly show the locations of the proposed TEAL project in relation to the proposed NGT Project (pipeline/s and facilities), Texas Eastern's existing pipeline/s and facilities, and other companies' existing pipelines/facilities. Include the additional information in the figure's color coded legend.	
FA2-6	DEIS (page 2-14) states "To reduce construction impacts, NEXUS and Texas Eastern would implement their respective Erosion and Sediment Control Plans (E&SCP). These plans are based on our Upland Erosion Control, Revegetation, and Maintenance Plan (FERC Plan or Plan) and Wetland and Waterbody Construction and Mitigation Procedures (FERC Procedures or Procedures). <sup>5"</sup>	
	EPA appreciates the direct weblink provided in footnote 5 to the FERC's Upland Erosion Control, Revegetation, and Maintenance Plan and Wetland and Waterbody Construction and Mitigation Procedures. However, NEXUS and Texas Eastern's E&SCPs are not included in appendices of the DEIS nor direct weblinks provided.	
FA2-7	In addition, DEIS (page 2-15) <i>Table 2.3-2 – Construction, Restoration, and Mitigation Plans</i> <i>Associated with the NGT and TEAL Projects</i> identifies additional existing and pending Plans, many of which are not included in the DEIS Appendices nor direct weblinks provided.	
	<b>Recommendation:</b> EPA recommends the Final EIS Appendices also include the following NEXUS and Texas Eastern plans/documents regarding their respective projects:	
	<ul> <li>E&amp;SCPs</li> <li>Draft Spill Prevention Control and Countermeasure Plans (SPCC Plans)</li> <li>Fugitive Dust Control Plan</li> <li>Winter Construction Plan</li> <li>Invasive Plant Species Management Plan (IPSMP)</li> <li>Unanticipated Discovery Plan</li> <li>Issue Resolution Plan</li> <li>Final Migratory Bird Conservation Plan</li> </ul>	
	<ul> <li>Signed/dated Memorandum of Understanding (MOU) between the U.S. Fish and Wildlife Service (FWS) and NEXUS regarding forest mitigation</li> <li>Wetland and Stream Mitigation Plan</li> </ul>	
	2.2 LAND REQUIREMENTS	
FA2-8	Table 2.2-1 – Summary of Land Requirements Associated with the Projects (DEIS, page 2-9) discloses that construction and operation of the proposed Projects would impact 5,223.7 acres and 1,741.9 acres of land, respectively.	

- FA2-5 See figure 3.2.1-1 for a depiction of existing pipeline systems in the vicinity of the Projects.
- FA2-6 Erosion and sediment control procedures are described in NEXUS' *E&SCPs*, which can be accessed on the FERC eLibrary using the accession numbers provided in the EIS.
- FA2-7 NEXUS' environmental plans can be accessed on the FERC eLibrary using the accession numbers provided in the EIS.
- FA2-8 Section 5.1.5 has been updated.

FA2 – U.S. Environmental Protection Agency (cont'd)

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FA2-8 (cont'd)	DEIS (pages 5-5 and 5-6) state "Construction of the Projects would affect 371.5 acres of forested upland, 43.3 acres of forested wetland, 571.8 acres of open upland, 43.8 acres of emergent wetland, and 19.5 acres of scrub-shrub wetland. The remaining 4,202.7 acres are agricultural land, developed land, or open water. Operation of the Projects would affect 148.0 acres of forested upland, 26.7 acres of forested wetland, 154.5 acres of open upland, 21.0 acres of emergent wetland, and 10.0 acres of scrub-shrub wetland. The remaining 1,347.4 acres are agricultural land, developed land, or open water."	
	2.5 ENVIRONMENTAL INSPECTION, COMPLIANCE MONITORING, AND POST- APPROVAL VARIANCES	
FA2-9	<b>2.5.4 Compliance Monitoring</b> The DEIS (page 2-31) states "NEXUS filed information with the Commission on June 12, 2015 indicating it would like to implement a third-party compliance monitoring program on the NGT Project. The overall objective of a third-party compliance monitoring program is threefold: to assess environmental compliance during construction in order to achieve a higher level of environmental compliance throughout a project; to assist FERC staff in screening and processing variance requests during construction; and to create and maintain a database of daily reports documenting compliance and instances of noncompliance."	
	<b>Recommendation</b> : EPA recommends the Final EIS include NEXUS' written commitment to implementing a third-party compliance monitoring program.	
FA2-10	However the DEIS (page 2-32) also states "Texas Eastern is not proposing to implement a third- party compliance monitoring program; therefore, Texas Eastern would not gain the benefits of expedited processing of variance requests during construction."	
	<b>Recommendation:</b> EPA recommends Texas Eastern reconsider and commit to using FERC's third-party compliance monitoring program for TEAL. EPA recommends the FEIS document whether or not Texas Eastern has made this commitment.	
	3.0 NGT AND TEAL PROJECT ALTERNATIVES	
FA2-11	3.2 SYSTEM ALTERNATIVES Figure 3.2.1-1 Existing Pipeline Systems – NGT and TEAL Projects (DEIS, page 3-6): Figure 3.2.1-1 does not show the route of the existing pipeline in Michigan that would receive NGT gas and deliver it to the Dawn Hub in Ontario, Canada.	
	<b>Recommendation:</b> We recommend the Final EIS Figure 3.2.1-1 – Existing Pipeline Systems identify/depict the existing pipeline and the facility that would receive NGT gas in Michigan, and show the pipeline's existing route in Michigan to the proposed receiving facility in Ontario, Canada. Modify the figure's color coded legend accordingly.	

- FA2-9 NEXUS will be participating in the third-party compliance monitoring program and has committed to doing so in writing. Therefore, this will be required as part of NEXUS' committed measures if the Project is approved. There is no need to recommend a condition in this regard.
- FA2-10 Texas Eastern has elected not to participate in the voluntary third-party compliance monitoring program. Because the Project will still be subject to extensive construction inspection monitoring and because FERC staff will be conducting monthly inspections during construction, we find no need to recommend a condition in this regard.
- FA2-11 Figure 3.1.1-1 has been updated to include the existing DTE and Vector systems.

**R-**9

FA2 – U.S. Environmental Protection Agency (cont'd)

A2-12	<ul> <li>3.5.1 NGT Compressor Station Alternatives</li> <li>3.5.1.1 Hanoverton Compressor Station (CS1, Columbiana County) (DEIS, pages 3-83 to 3-85): EPA concurs with FERC staff recommendation that additional information is needed concerning the Proposed Site Alternative and the Alternative Site A, as follows: "an analysis indicating:</li> </ul>
	<ul> <li>whether the proposed Hanoverton Compressor Station site at MP 1.4 could be developed without permanently filling or altering the waterbody on the site, and if not, the types of permanent waterbody impacts that would be required; and</li> </ul>
	• whether Alternative Site A to the Hanoverton Compressor Station, as depicted on figure 3.5.1-1 of the draft EIS, could be purchased and developed without forest clearing, and what impacts would be associated with realigning the proposed pipeline to the site or building suction/discharge lines from the site to the proposed pipeline."
	<b>Recommendation:</b> EPA recommends the Final EIS include the above mentioned information/analysis.
	4.0 ENVIRONMENTAL ANALYSIS
	4.1.3 Geologic Hazards 4.1.3.4 Karst NGT Project
FA2-13	DEIS (page 4-13) states "NEXUS conducted an electromagnetic (EM) geophysical survey to identify areas of shallow bedrock between MP 124.0 and MP 202.0, including within the Bellevue-Castalia Karst Plain. These EM data are currently being analyzed to identify possible karst features along the alignment that might warrant further field investigation and engineering design."
	<b>Recommendation:</b> EPA recommends Final EIS disclose the results of the EM geophysical survey. If applicable, amend Table 4.1.3-2 – Karst Features within 1,500 feet of the NGT Project.
FA2-14	<b>4.2 Soils</b> There is no discussion here of the Projects' potential to contact contaminated soils during construction.
	<b>Recommendations:</b> Include a "Contaminated Soils" subsection in Section 4.2 – Soils. Provide a discussion here as well as <i>Section 4.3. Groundwater</i> and <i>Section 4.9.0</i> <i>Contaminated Sites</i> of the Final EIS regarding the potential for impacting contaminated soils if Resource Conservation and Recovery Act (RCRA) corrective action, Leaking Underground Storage Tanks (LUSTs), and/or Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (Superfund) sites are within the Projects" construction areas. Identify the databases that were used to make the determinations. Identify the procedures to notify the state/s and EPA if contaminated areas are found.

- FA2-12 EPA comments have been incorporated into conditions listed in section 3.5.1.1.
- FA2-13 FERC has recommended that NEXUS provide the results of electromagnetic geophysical surveys prior to construction.
- FA2-14 Please refer to the discussion of contaminated soils in section 4.9.

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FA2 – U.S. Environmental Protection Agency (cont'd)

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	4.3 WATER RESOURCES
A2-15	<b>4.3.1 Groundwater Resources</b> Wellhead and Aquifer Protection Areas (DEIS, pages 4-33 to 4-35). DEIS (page 4-33): "The NGT Project mainline would cross 15 WHPAs at 25 locations in Ohio. Four (4) of the WHPAs crossed are for non-community wells, and the remaining 12 are for community wells. None of the proposed compressor stations would be within a designated WHPA. The NGT Project would cross one WHPA in Monroe and Washtenaw Counties in Michigan (MDEQ, 2016). The TEAL Project would not traverse any WHPAs."
	<b>Recommendation:</b> We recommend the Final EIS confirm all water suppliers in the WHPAs potentially impacted by the Project have been consulted and discuss the outcome of the consultations, including any water supplier requested mitigation measures.
A2-16	<b>4.3.2 Surface Water Resources</b> <b>Surface Water Supplies and Surface Water Protection Areas</b> NGT Project (DEIS page 4-43) states "Public surface water intakes located within 3 miles downstream of the NGT Project mainline are summarized in table 4.3.2-2. Four surface water intakes in Ohio and one in Michigan would be located within 3 miles downstream of the NGT Project crossings."
	<b>Recommendation:</b> EPA recommends the Final EIS confirm all Municipalities with water intakes within 3 miles downstream of the NGT Project have been consulted and discus the outcome of the consultation, include any requested mitigation measures.
	Federal Emergency Management Agency Flood Zones (page 4-47)
FA2-17	<b>Recommendations:</b> We recommend the Final EIS identify and discuss: 1) how many acres will be within each of the Flood Hazard Zones, 2) if there are any impacts to surrounding areas prone to flooding, and 3) if construction will occur during times of the year that have higher risks of flooding. Also, address if the project will create new and/or additional flooding in areas affected by an increase in impervious surface due to project access roads and aboveground facilities.
FA2-18	<b>4.3.2.2 Impacts and Mitigation</b> <b>Construction</b> (DEIS pages 4-48 to 4-52) Regarding NEXUS' plans to horizontal directional drill (HDD), the DEIS (page 4-52) states "NEXUS was not able to adequately characterize risk at four of the proposed HDD sites, including the Nimisila Reservoir (MP 41.1), Tuscarawas River (MP 48.1), West Branch of the Black River (MP 92.4), and the U.S. Highway 12/RACER site (MP 254.3)."
	EPA concurs with FERC staff's recommendation presented here in the DEIS.
	Recommendation: EPA recommends that the Final EIS discuss the results of NEXUS'

- FA2-15 We have recommended that the applicant file this information prior to construction and will include as recommendation number 21 in the Final EIS.
- FA2-16 There are five (5) surface water intakes within 3 miles of the proposed project. Three of the five crossings (River Raisin in Michigan and the West Branch Black River and Swanton Reservoir in Ohio) will be crossed by either HDD or bore which avoids direct contact with the water source. The remaining two (Swanton Reservoir and West Branch Black River in Ohio) are both three miles from the crossing as the crow flies but greater than 3 river miles downstream. Accordingly, we conclude that the surface water intakes would not be impacted and that consultation with Municipalities would not be necessary.
- FA2-17 As described in greater detail in section 4.3.2.3 of the EIS, floodplains that would be crossed by the pipeline could be temporarily affected by trenching and spoil piles. The removal of vegetation within a floodplain would be temporary and itself would not result in increased flooding on adjacent properties. NEXUS would implement several mitigation measures within floodplains to minimize the potential effects from flood events, including installing and maintaining erosion and sediment control structures; restoring floodplain contours and waterbody banks to their preconstruction condition, and conducting post-construction monitoring to ensure successful revegetation.

FA2-18 The final EIS has been revised based on the results of geotechnical surveys.

FA2 – U.S. Environmental Protection Agency (cont'd)

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A2-18 cont'd)	(MP 48.1), West Branch of the Black River (MP 92.4), and the U.S. Highway 12/RACER site (MP 254.3).
FA2-19	DEIS (page 4-50) also states "NEXUS characterized three HDD sites as high risk of experiencing difficulty during construction, including the Sandusky River (MP 145.9), Maumee River (MP 181.6), and Huron River (MP 250.9). Each of these rivers is designated as sensitive for fish, recreation, and/or historic values."
	<b>Recommendation:</b> Based on FERC staff's recommendation here in the DEIS, EPA recommends the Final EIS identify and discuss whether NEXUS has submitted to FERC adequate justification for preferring the use of the HDD crossing method for the Sandusky River (MP 145.9), Maumee River (MP 181.6), and Huron River (MP 250.9), as opposed to an alternative crossing method, such as winter wet trench construction or direct pipe installation.
FA2-20	Regarding Additional Temporary Work Space (ATWS), the DEIS (page 4-52) states "The FERC Procedures require that ATWS be setback at least 50 feet from the edge of waterbodies To date, Texas Eastern has not fully justified its request to locate ATWS within 50 feet from a total of seven workspaces."
	<b>Recommendation:</b> Based on FERC staff's recommendation here in the DEIS, EPA recommends the Final EIS identify whether Texas Eastern has submitted adequate justification to FERC for ATWS-13, 14, 18, 19, 35, 36, and 37 or has decided to move those workspaces to a distance of 50 feet or greater from wetlands and waterbodies.
FA2-21	<b>4.3.2.3 Water Withdrawal</b> The DEIS (page 4-53) states "Table 4.3.2-5 presents approximate MPs, estimated withdrawals, and water sources for the proposed hydrostatic test waters for pipeline segments, aboveground facilities, and HDD segments for the Projects. In total, the Projects would require approximately 67.5 million gallons of water for hydrostatic testing of the pipeline facilities, 0.8 million gallons for testing the aboveground facilities, and 1.8 million gallons for HDD crossings."
	Table 4.3.2-5 Potential Sources of HDD and Hydrostatic Test Water for NGT and TEAL         Projects (DEIS pages 4-54 and 4-55).
	<b>Recommendations:</b> We recommend Table 4.3.2-5 include additional categories to identify: 1) the proposed intake areas, 2) daily water flow amounts for each water intake, 3) where water will be recycled from one segment to another, and 4) the amount of water that will be recycled in each segment. Also identify the potential municipal source, where applicable.
	4.4 WETLANDS
FA2-22	DEIS (page 4-56) states "Wetlands impacted by the NGT and TEAL Projects are federally and state-regulated. On the federal level, USACE regulates wetlands under Section 404 of the CWA and Section 10 of the Rivers and Harbor Act (RHA), and the EPA shares responsibility to

- FA2-19 EPA comments have been incorporated into conditions listed in section 4.3.2.2.
- FA2-20 Section 4.14.8.9 has been updated to better clarify that emissions from upstream production and downstream end-use combustion of natural gas are not considered a reasonably foreseeable indirect impact of the Project, finding that natural gas production drives the need for natural gas transmission projects (not the other way around). Upstream and downstream emissions from production or end-use burning are not sufficiently casually connected to be considered indirect impacts. However, section 4.14.8.9 of the EIS has been updated to more clearly reflect the cumulative impacts from those production facilities that are within the geographic scope of the Project. Further this section does disclose end-use combustion GHG emission estimates based on reasonably available EPA methodology.

The EIS also erred in comparing GHG emissions form the Project with national GHG emissions. Section 4.14.8.9 of the EIS has been updated to compare estimated Project GHG emissions with state emissions. This comparison provides a frame of reference for emissions, and is not an indicator of significance.

- FA2-21 The OEPA and the MDEQ are responsible for issuing water allocation permits and overseeing the conservation and development. NEXUS and Texas Eastern would be required to adhere to any avoidance and minimization measures included in the permits issued by these agencies. The EIS is meant to be a summary document and the same level of detail provided in permit applications is typically not also included in the EIS.
- FA2-22 Section 4.4 has been updated to clarify Section 404 permitting responsibilities for Michigan and Ohio.

FA2 – U.S. Environmental Protection Agency (cont'd)

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FA2-22 cont'd)	administer and enforce the Section 404 program. Wetland activities under Section 401 of the CWA are delegated to the appropriate state agencies: the OEPA in Ohio and MDEQ in Michigan."
	<b>Recommendation:</b> The above statement regarding CWA Section 404 permitting authorities in OH and MI is incomplete/inaccurate. See EPA's earlier recommendation under 1.2.2 (page 5) and amend the Final EIS accordingly.
FA2-23	<b>4.4.1 Existing Wetland Resources</b> (pages 4-56 and 4-57) The DEIS (pages 4-56 and 4-57) states "The applicants conducted wetland surveys during the 2014 and 2015 growing seasons, as landowner permissions allowed Wetlands were delineated per the methods set forth in the USACE 1987 Wetland Delineation Manual (Environmental Laboratory, 1987), applicable Regional Supplements: Regional Supplement to the Corps of Engineers Wetland Delineation Manual: North Central and Northeast Region (Version 2.0)(USACE, 2012),"
	The DEIS [page 4-59, Ohio Rapid Assessment Methodology (ORAM)] states "Wetlands in Ohio are categorized by using the ORAM as a quantitative tool to determine the quality of wetlands, and also outline the functionality of those wetlands. The quality and functionality of wetlands enact differing levels of protection and are utilized as part of the review process for compensatory mitigation where impacts to wetlands are unavoidable. There are three wetland categories (i.e., Category 1, Category 2, and Category 3) where quality directly correlates to minimal, good, and superior quality wetlands, respectively (Mack, 2001)."
	<b>Recommendations:</b> EPA recommends the Final EIS provide an update on the status of wetland field delineations for the Projects. Disclose the percentage of the Projects' area where wetlands have not yet been field delineated. Add two additional columns to the wetlands tables in Appendix I to identify each wetlands':
	1) field delineation status, and
	2) ORAM category (Category 1, 2, or 3).
	Provide a brief summary of the above information in this section of the Final EIS.
FA2-24	<b>4.4.3.1 Project-specific Impacts and Mitigation</b> The DEIS (page 4-62) states "As presented in table 4.4.3-1, a total of 191.6 acres of wetlands would be impacted by construction of the NGT and TEAL Projects, including 171.4 acres in Ohio and 20.1 acres in Michigan Construction of the NGT Project would impact 72.4 acres of PFO wetlands." The majority of wetland impacts are associated with the NGT Project.
	NGT Project

- FA2-23 Appendix I has been updated to include delineation status and ORAM category.
- FA2-24 NEXUS' environmental plans can be accessed on the FERC eLibrary using the accession numbers provided in the EIS.

### FA2 – U.S. Environmental Protection Agency (cont'd)

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FA2-24 (cont'd)	program, or a combination of the two. However, this mitigation plan has not been finalized, "
	<b>Recommendation:</b> EPA recommends the Final EIS include NEXUS' draft wetland and stream mitigation plan (the final plan if available) for the NGT Project.
FA2-25	<u>TEAL Project</u> The DEIS (page 4-65) states "Texas Eastern would create a project-specific Wetland Mitigation Plan in consultation with USACE and OEPA. Mitigation would include the purchase of wetland mitigation credits from established wetland mitigation banks, the use of an in-lieu fee program, or a combination of the two. However, this mitigation plan has not been finalized, "
	<b>Recommendation:</b> EPA recommends the Final EIS include Texas Eastern's draft wetland and stream mitigation plan (the final plan if available) for the TEAL Project.
	4.5 VEGETATION
FA2-26	<ul> <li>4.5. 2 Impacts and Mitigation</li> <li>4.5.4 Noxious Weeds and Pathogens</li> <li>DEIS (page 4-75 and 4-76) disclose that both NEXUS and Texas Eastern have developed Invasive Species Management Plans (ISMPs) to minimize and control the spread of the noxious and invasive species."</li> </ul>
	<b>Recommendation:</b> The ISMPs are not included in the DEIS. We recommend the Final EIS include NEXUS' and Texas Eastern's ISMPs in an Appendix.
FA2-27	<b>4.5.6 Pollinator Habitat</b> DEIS (page 4-8). FERC staff make the following recommendation: "Prior to construction of the NGT Project, NEXUS should provide a plan describing the feasibility of incorporating plant seeds that support pollinators into the seed mixes used for restoration of construction workspaces. This plan should also describe NEXUS' consultations with the relevant federal and/or state regulatory agencies."
	<b>Recommendation:</b> EPA recommends the Final EIS document NEXUS consultation with the relevant federal and state regulatory agencies and include NEXUS' plan (draft if final is not available) to incorporate plant seeds that support pollinators into the seed mixes used for restoration of construction workspace.
	4.6 WILDLIFE
FA2-28	Upland Forest, Wetlands, Habitat, Migratory Birds DEIS (pages 4-88) discloses that construction of the NGT Project would result in the loss of approximately 332.2 acres of upland forest and 43.1 acres of forested wetlands. Construction of the TEAL Project would result in the loss of approximately 29.7 acres of upland forest and 0.1

- FA2-25 NEXUS' environmental plans can be accessed on the FERC eLibrary using the accession numbers provided in the EIS.
- FA2-26 NEXUS' environmental plans can be accessed on the FERC eLibrary using the accession numbers provided in the EIS.
- FA2-27 The applicant has been asked by FERC to provide this information prior to construction. Accordingly, it will only be included in the Final EIS in the event that it is received prior to issuance.
- FA2-28 The final *MBCP* has been added to the FEIS in appendix E-6. The MOU between NEXUS and FWS will be posted to the docket once executed.

FA2 – U.S. Environmental Protection Agency (cont'd)

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FA2-28 cont'd)	DEIS (pages 4-88) states "To address FWS concerns about migratory birds, the applicants have prepared a draft Migratory Bird Conservation Plan (MBCP)"
	The DEIS (page 4-89) identifies that the applicants have committed to "Actively working on a Memorandum of Understanding (MOU) whereby NEXUS agrees to mitigate for loss of forested habitat, including avoidance and minimization of impacts, and providing mitigation funding for loss of forested migratory bird habitat the final MBCPs for Michigan and Ohio are not yet complete"
	<b>Recommendation:</b> EPA recommends NEXUS continues to work with FWS and the Final EIS include the following documents:
	• Final MBCP developed in consultation with and approved by the FWS, and
	<ul> <li>Signed/dated MOU between the applicants and FWS documenting agreement to mitigate for loss of forested habitat, including avoidance and minimization of impacts, and providing mitigation funding for loss of forested migratory bird habitat.</li> </ul>
	4.8 SPECIAL STATUS SPECIES
FA2-29	<b>4.8.1 Federally Listed Species and Endangered Species</b> Eleven federally listed threatened, endangered or proposed for listing species are potentially present in the vicinity of the Rover Project (DEIS page 4-94). FERC will prepare a final Biological Assessment (BA) to submit to FWS (DEIS page 4-95) and FWS will issue a Biological Opinion (BO).
	<b>Recommendation:</b> We recommends the Final EIS provide an update since the DEIS on the status of FERC's BA and FWS' BO. If feasible, include the BA and BO in the Final EIS.
	4.8.2 State-listed Species
FA2-30	Nineteen of the Ninety-one species that are state-listed as threatened, endangered, or of special concern potentially present in the Projects area may be impacted by the Projects (DEIS page 4-104).
	<b>Recommendation:</b> EPA recommends the Final EIS provide an update since the DEIS regarding any state agencies' species-specific required/requested mitigation and discuss how NEXUS and Texas Eastern will implement the mitigation measures.
	4.9 LAND USE, RECREATION, SPECIAL INTEREST, AND VISUAL RESOURCES
FA2-31	<b>4.9.9 Contaminated Sites</b> (pages 4-164 and 4-165) The DEIS (page 4-164) states "One of the sites, the former Willow Run Powertrain Plant, would be crossed between MPs 253.3 and 254.1 using the HDD method In March 2011, Revitalizing Auto Communities Environmental Response (RACER) Trust acquired the property

- FA2-29 FERC's BA and the FWS's BO are in progress. The FERC's BA is included as appendix E-7.
- FA2-30 Section 4.8.2 of the EIS has been updated to include any additional information provided regarding state agencies' requested or required mitigation.
- FA2-31 We are recommending in the final EIS that, prior to construction, NEXUS should file with the Secretary for review and approval of the Director of OEP an updated *SPCC Plan* and *E&SCP* that acknowledge the potential to encounter pre-existing contamination during construction, specifically at the Willow Run/RACER property, as well as other locations. We also are recommending that the updated *SPCC Plan* and *E&SCP* should detail site-specific measures NEXUS would implement to avoid exacerbating existing contamination, if encountered.

R-15

FA2 – U.S. Environmental Protection Agency (cont'd)

FA2-31 (cont'd)	responsible for maintaining and rehabilitating the property. The site is being administered under the EPA's Resource Conservation Recovery Act and overseen by the MDEQ.
	There have been numerous environmental assessments of the Willow Run site during the past 30 years and a number of concerns have been identified (University of Michigan, 2013):
	• Oil accumulation underneath portions of the main plant building;
	• Presence of light non-aqueous phase liquid containing low levels of polychlorinated biphenyls (PCB) and some metals in soil around the site;
	• Chlorinated volatile organic compounds (VOC) were found on-site, particularly in areas where parts cleaning units once operated; however, recent surveys suggest that the levels of these compounds are low and are not detected in perimeter monitoring wells; and
	<ul> <li>Historic soil and groundwater suggest the presence of benzene, aluminum, mercury, and others pollutants.</li> </ul>
	Based on NEXUS' preliminary evaluation of readily available analytical data, and conversations with RACER representatives, NEXUS would now avoid the site by installing the pipeline using the HDD method. Extra workspace areas associated with HDD entry and exit points would be located outside the known parameters of the RACER site."
	<b>Recommendation:</b> EPA recommends the Final EIS disclose whether or not MDEQ concurs with using HDD to avoid contamination of soil, surface water and groundwater resources from contaminates at the Willow Run site. Include an MDEQ approved HDD plan, if applicable, in the Final EIS.
FA2-32	The DEIS (page 4-164) goes on to state: "In addition to the RACER site, NEXUS identified 11 other sites where file reviews were recommended to assess the potential for existing contamination on soil and groundwater resources that could impact the NGT Project. Because information regarding the extent and degree of contamination is pending" EPA concurs with FERC staff's DEIS recommendations.
	<b>Recommendation:</b> EPA recommends the Final EIS present the results of the file reviews for the 11 other sites and include site specific plans, as applicable, to properly manage any contaminated soil or groundwater in compliance with applicable regulations.
	4.11 CULTURAL RESOURCES
FA2-33	<b>Recommendation:</b> We recommend the Final EIS include an update on FERC's compliance with Section 106 of the National Historic Preservation Act (NHPA) for the NGT and TEAL Projects. Include relevant correspondence from State Historic Preservation Officers (SHPOs) and the Advisory Council on Historic Preservation (ACHP).

- FA2-32 EPA comments have been incorporated into conditions listed in section 4.9.9.
- FA2-33 The final EIS has been updated to include correspondence with SHPO and ACHP regarding the Section 106 process.

FA2 – U.S. Environmental Protection Agency (cont'd)

**R-17** 

	. 14
	4.12 AIR QUALITY AND NOISE
FA2-34	<ul> <li>4.12.1 Air Quality</li> <li>4.12.1.3 Air Quality Impacts and Mitigation (pages 4-211 to 4-220)</li> <li>Greenhouse Gas Emissions, Methane Leakage, Climate Change</li> <li>Recommendation: (See EPA's recommendations regarding greenhouse gas emissions, methane leakage and climate change later under 4.14 Cumulative Impacts, 4.14.8.9 Air Quality and Noise.)</li> </ul>
FA2-35	<ul> <li>4.12.2 Noise</li> <li>4.11.2.1 Construction Noise Impacts and Mitigation (pages 4-222 – 4-227)</li> <li>HDD Operations</li> <li>The DEIS (page 4-226) states "As indicated (in bold) in table 4.12.2-2, 17 of the HDD entry or exit sites could exceed the FERC's 55 dBA Ldn noise guideline at the nearest NSA. NEXUS estimates that the work associated with HDD installations would range from 14 to 89 days."</li> </ul>
	These increased noise levels may, in part, affect sleep patterns and consequently, adult job performance and children's ability to learn in school.
	<b>Recommendations:</b> EPA recommends the Final EIS discuss potential noise mitigation measures for NSA households during HDD operations, including the conditions that might warrant those mitigation measures. Noise mitigation discussion should include the feasibility of temporary relocation.
FA2-36	<ul> <li>4.12.2.2 Operational Noise Impacts and Mitigation (pages 4-227 – 4-231)</li> <li>Compressor Stations</li> <li>Table 4.12.2-5 Estimated Noise Levels for NGT Project Compressor Stations (page 4-229)</li> <li>The Table appears to show that 4 of the NSAs already experience calculated ambient L<sub>dn</sub> noise</li> <li>levels above 55 dBA and 6 NSAs would be above 55 dBA if the Wadsworth, Clyde and</li> <li>Waterville Compressor Stations went into operation.</li> <li>Recommendation: EPA recommends the Final EIS provide an update on the noise</li> </ul>
	mitigation measures that NEXUS and TEAL propose to undertake for operation of the Projects.
	4.13 RELIABILITY AND SAFETY
FA2-37	DEIS (page 4-236) states "We [FERC] received numerous comments regarding the safety of homes, schools, hospitals, etc., that would be within the potential impact radius for the NGT Project pipeline, which would be 1,100 feet. For the NGT Project compressor stations, the potential impact radius would be 943 feet. The potential impact radius is designed to identify locations where additional safety measures are required to ensure and promote pipeline safety in populated areas. NEXUS would develop a Public Awareness Program as outlined in 49

#### FA2-34 Comment noted.

- FA2-35 The EIS already includes the information EPA requests in the text following table 4.12.2-2, which identifies numerous mitigation measures to actively reduce noise levels at the HDD sites. Because each HDD is estimated to last between 2 weeks and 3 months, we find that temporary relocation (which would not aid to actually reduce noise levels from the HDD) is an unreasonable burden to impose on individuals. Table 4.12.2-3 demonstrates the HDD noise levels with mitigation measures implemented. The noise associated with NEXUS' proposed HDDs would be below 55 dBA. Therefore, HDD noise impacts would not be significant and additional noise mitigation beyond what is presented in the EIS is not warranted.
- FA2-36 The EIS clearly identifies our criterion for the evaluation of noise impacts is 55 dBA Ldn from the proposed Project facilities. This criterion is not used to evaluate the significance of background noise levels, not subject to the Commission's jurisdiction. As shown in table 4.12.2-5 of the EIS, the "Sound Level During Operation" for each compressor station would be below our 55 dBA Ldn criterion. This table also demonstrates that for all NSAs where existing noise levels are above 55 dBA Ldn, the compressor station would contribute a less than 1 dBA increase in noise, and therefore be imperceptible. The combined noise levels that are above 55 dBA Ldn in table 4.12.2-5 are because of existing noise levels, and not due to the compressor station operations. We have also recommended post construction noise surveys to ensure the compressor stations do not exceed our 55 dBA Ldn criterion. No additional mitigation is warranted.
- FA2-37 The Public Awareness Program is a regulatory requirement under PHMSA's jurisdiction (49 CFR 192.616). Our NEPA review bears no weight on the adequacy or approval of this program for compliance with PHMSA regulation. The EIS adequately summarizes the required elements of the program, and Algonquin's commitment to comply with the regulations. The regulation cited by EPA, and development of this program is a requirement under PHMSA's operating regulations. Therefore, this program is often not developed until a facility is placed into service, and PHMSA is ultimately responsible for ensuring compliance with its regulations and the adequacy of this program. We do not have or maintain any copies in draft or final form this program. Commenters wishing to review this program should contact the DOT.

**Federal Agencies/Elected Officials** 

### FA2 – U.S. Environmental Protection Agency (cont'd)

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A2-37 ont'd)	CFR 192.616, which would provide outreach measures to the affected public, emergency responders, and public officials."
	<b>Recommendation:</b> EPA recommends the Final EIS include a copy of NEXUS' Public Awareness Program for the NGT Project.
A2-38	DEIS (page 4-229) states "In accordance with 49 CFR 192.615, NEXUS would develop, maintain, and implement a written emergency response plan to minimize the hazards from a pipeline emergency."
	<b>Recommendation:</b> EPA recommends a Final EIS appendix include both NEXUS' and Texas Eastern's Emergency Response Plans for the NGT and TEAL Projects.
	4.14 CUMULATIVE IMPACTS
	4.14.5 Non-jurisdictional Project-related Facilities 4.14.5.1 DTE Gas Company Modifications (pages 4-254 – 4-255) 4.14.5.2 Vector U.S. Modifications (page 4-255)
FA2-39	DEIS (page 4-254) states "To support the NGT and TEAL Projects, DTE Gas would make modifications to three existing facilities: Willow Gate, Willow Run, and Milford Compressor Stations. In addition, Vector U.S. would make modifications to the existing Milford Meter Station in Oakland County, Michigan to support the NGT and TEAL Projects. While FERC has no jurisdiction over these planned modifications, we disclose the potential cumulative impacts below."
	<b>Recommendation:</b> EPA recommends the FEIS disclose existing and estimated noise levels at the nearest NSAs associated with the Willow Gate, Willow Run and Milford Compressor Stations, and the Milford Meter Station. Identify the noise mitigation measures DTE and Vector could implement, if projected noise levels at NSA's warrant noise mitigation.
FA2-40	4.14.8.9 Air Quality and Noise <u>Greenhouse Gas Emissions</u> The Draft EIS included a helpful discussion of the greenhouse gas (GHG) emissions associated with construction of the project, and annual emissions from the operation of the compressor stations, but did not include estimates of the GHG emissions associated with the production, leakage, and combustion of the natural gas brought into production as an indirect effect of this project. Because of the global nature of climate change, regardless of where the ultimate end use of the natural gas occurs, these additional greenhouse gas emissions attributable to the project would affect the U.S. Because of the causal relationship between this project and the emissions, it is appropriate and consistent with NEPA and CEQ regulations to consider and disclose the emissions levels in NEPA analyses. EPA recommends that for the climate change section of this EIS, that FERC follow the approach outlined by the CEQ's August 1, 2016 Final Guidance on the Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in NEPA reviews. For example, on the topic of direct and indirect GHG emissions, the CEQ guidance

- FA2-38 The *Emergency Response Plan* is a regulatory requirement under PHMSA's jurisdiction (49 CFR 192.615). Our NEPA review bears no weight on the adequacy or approval of this plan for compliance with PHMSA regulation. The EIS adequately summarizes the required elements of the plan, and Algonquin's commitment to comply with the regulations. The regulation cited by EPA, and development of this plan is a requirement under PHMSA's operating regulations. Therefore, this plan is often not developed until a facility is placed into service, and PHMSA is ultimately responsible for ensuring compliance with its regulations and the adequacy of this plan. We do not have or maintain any copies in draft or final form this plan. Commenters wishing to review this plan should contact the DOT.
- FA2-39 The modifications at the Willow Gate Station do not involve new significant sources of noise, as such there would be no cumulative impacts on noise from this modification. As is identified in the EIS, the Milford Compressor Station is located about 20 miles from the nearest NGT Project facility. Based on this distance and noise attenuation, it is outside of the geographic scope for noise and would not result in any cumulative noise impacts. Section 4.14.8.9 of the EIS has been updated to more clearly reflect the cumulative noise impacts from the Willow Run Compressor Station and M&R Station. We note that the Commission has no authority to require or recommend specific noise mitigation measures for DTE's expansion of the Willow Run Compressor Station. Moreover, projected cumulative noise levels would be below 55 dBA Ldn, and therefore, would not be significant. If noise is found to be excessive, DTE and Vector could implement similar measures taken by NEXUS and Texas Eastern at similar facilities. However, requirements to implement such measures would depend on state or local regulations.
- FA2-40 Sections 1.4, 4.14.3.2, and 4.14.8.9 of the EIS explain that emissions from production of natural gas are not considered a reasonably foreseeable indirect impact of the Project, finding that natural gas production drives the need for natural gas transmission projects (not the other way around), and there already exist numerous production facilities that have developed a network of pipelines for natural gas to flow to various users or interstate pipelines. Upstream and downstream emissions from production or end-use burning are not sufficiently casually connected to be considered indirect impacts. However, section 4.14.8.9 of the EIS has been updated to more clearly reflect the cumulative impacts from those production facilities that are within the geographic scope of the Project.

The EIS also erred in comparing GHG emissions form the Project with national GHG emissions. Section 4.14.8.9 of the EIS has been updated to compare estimated Project GHG emissions with state emissions. This comparison provides a frame of reference for emissions, and is not an indicator of significance.

FA2 – U.S. Environmental Protection Agency (cont'd)

	16	
FA2-40 (cont'd)	states: "If the direct and indirect GHG emissions can be quantified based on available information, including reasonable projections and assumptions, agencies should consider and disclose the reasonably foreseeable direct and indirect emissions when analyzing the direct and indirect effects of the proposed action."	
	In the DEIS, FERC includes comparisons of project-level greenhouse gas emissions to nationwide emissions levels. FERC should not evaluate GHG emissions by comparing them to U.S. emissions. According to CEQ, such comparisons are "not an appropriate method for characterizing the potential impacts associated with a proposed action and its alternatives and mitigations because this approach does not reveal anything beyond the nature of the climate change itself: the fact that diverse individual sources of emissions each make a relatively small addition to global atmospheric GHG concentrations that collectively have a large impact." <sup>1</sup>	
	<b>Recommendations:</b> We recommend that the Final EIS include estimates of emissions from production and combustion of the natural gas brought into production. We also recommend that FERC remove comparisons of the proposed project's estimated emissions to aggregate emissions.	
FA2-41	<u>Methane Leakage</u> The DEIS does not describe efforts to reduce methane leakage from the proposed action. EPA has compiled useful information on technologies and practices that can help reduce methane emissions from natural gas systems, including specific information regarding emission reduction options for natural gas transmission operations. This information can be found at: (http://www.epa.gov/gasstar/methaneemissions/onshore_transmission_storage.htm)	
	<b>Recommendation:</b> We recommend that the Final EIS describe potential best management practices (BMPs) to reduce leakage of methane associated with operation of the pipeline and compressor stations.	
FA2-42	Climate Change (pages 4-268 to 4-271) DEIS (pages 4-269 and 4-270) discloses that the U.S. Global Change Research Report (USGCRP, May 2014) states "annual precipitation has increased by about 20 percent over the past century, particularly from increased high-intensity rainfall events, and this trend is projected to continue" for the Midwest region of the U.S.	, · · ·
	<b>Recommendation:</b> EPA recommends the Final EIS discuss the Projects Proponents' and FERC's consideration of the Projects' susceptibility to impacts associated with climate change and identify mitigation measures. For example, discuss the risk of the Projects' pipelines being exposed due to increases in flooding, scouring, and/or upland erosion due to expected heavy precipitation events associated with climate change.	
	<sup>1</sup> CEQ Final Guidance on the Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in NEPA Reviews, pg.11.	

# FA2-41 Section 4.12.1.3 - Operation Emissions of the EIS has been updated to address mitigation measures for methane leaks.

FA2-42 Section 4.14.8.9 of the EIS has been updated to address climate change impacts on the project and mitigation measures.

### FA2 – U.S. Environmental Protection Agency (cont'd)

	17
FA2-43	<b>4.14.9 Conclusion</b> DEIS (page 4-272) states "For the NGT and TEAL Projects, the majority of cumulative impacts would be temporary and minor when considered in combination with past, present, and reasonably foreseeable activities; however, some long-term cumulative impacts would occur on wetland and upland forested vegetation and associated wildlife habitats"
	<b>Recommendation:</b> To help insure that NEXUS and Texas Eastern demonstrate that impacts to wetlands and upland forest and associated wildlife habitats, including migratory bird habitats have been avoided and minimized to the maximum extent practicable, and adequate compensation mitigation is identified and implemented, EPA recommends the Final EIS include the following plans/documents for the NGT and TEAL Projects:
	- Signed/dated Memorandum of Understanding (MOU) between the U.S. Fish and Wildlife Service (FWS) and NEXUS regarding forest mitigation,
	- Final Migratory Bird Conservation Plan,
	- Invasive Plant Species Management Plan (IPSMP), and
	- Wetland and Stream Mitigation Plan
	5.0 CONCLUSIONS AND RECOMMENDATIONS
FA2-44	The DEIS (page 5-1) states "The conclusions and recommendations presented in this section are those of the FERC environmental staff. Our conclusions and recommendations were developed with input from the EPA and FWS as cooperating agencies."
	<b>Recommendation:</b> This section in the Final EIS will need to be updated after consideration of additional input provided by the cooperating/resources agencies and others since FERC's release of the DEIS for public and agency review and comment.
	APPENDICES
FA2-45	Appendix A - Draft EIS Distribution List – Federal Government Agencies (DEIS page A-1)
	<b>Recommendations:</b> We recommend the following corrections/changes for the EPA listings in Appendix A for the FEIS Distribution List – Federal Government Agencies), as follows:
	• replace "Cliff Rader" with "Karin Leff" for Director, NEPA Compliance Division:

### FA2-43 Comment noted.

- FA2-44 Conclusions and recommendations have been updated based on agencies and public review of the draft EIS.
- FA2-45 Distribution List (appendix A) has been updated accordingly.

## FA2 – U.S. Environmental Protection Agency (cont'd)

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FA2-45 (cont'd)	• add "NEPA Implementation Section" after "Kenneth Westlake, Chief."
А	ppendix B – NGT and TEAL Route Maps
FA2-46	<b>Recommendation:</b> EPA recommends that the Final EIS Appendix B route maps also distinctly identify the locations of the following:
	- delineated wetlands w/identifying numbers, and NWI wetlands,
	- co-locations,
	- ATWS,
	- contractor yards and staging areas, and
	- proposed new, improved, and private access roads.
	The above recommended information can be found in tables in the sub-appendices of Appendices C, H and I.
4	ppendix C – Project Description Tables (Sub-appendices C-1 through C-5),
A	ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):
A	ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
А	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>
A	<ul> <li>ppendix H – Water Resources Tables (Sub-appendices H-1 through H-6), and ppendix I – Wetlands Tables (Sub-appendices I-1 and I-2):</li> <li>Recommendation: EPA recommends all Final EIS tables in Appendices C, H, and I include an additional column that identifies the specific Appendix B route map and map</li> </ul>

FA2-46	Comment noted.
FA2-47	Comment noted.

FA2 – U.S. Environmental Protection Agency (cont'd)

#### \*SUMMARY OF RATING DEFINITIONS AND FOLLOW UP ACTION\*

#### Environmental Impact of the Action

#### LO-Lack of Objections

The EPA review has not identified any potential environmental impacts requiring substantive changes to the proposal. The review may have disclosed opportunities for application of mitigation measures that could be accomplished with no more than minor changes to the proposal.

#### EC-Environmental Concerns

The EPA review has identified environmental impacts that should be avoided in order to fully protect the environment. Corrective measures may require changes to the preferred alternative or application of initigation measures that can reduce the environmental impacts. EPA would like to work with the lead agency to reduce these impacts.

#### EO-Ervironmental Objections

The EPA review has identified significant environmental impacts that must be avoided in order to provide adequate protection for the environment. Corrective measures may require substantial changes to the proferred alternative or consideration of some other project alternative (including the no action alternative or a new alternative). EPA intends to work with the lead agency to reduce these impacts.

#### EU-Ervironmentally Unsatisfactory

The EPA review has identified adverse covironmental impacts that arc of sufficient magnitude that they are unsatisfactory from the standpoint of public health or welfare or environmental quairy. EPA intends to work with the lead agency to reduce these impacts. If the potential unsatisfactory impacts are not corrected at the final EIS stare, this proposal will be recommended for referral to the CEQ.

#### Adequacy of the Impact Statement

#### Category 1-Adequate

The EPA believes the draft EIS adequately sets forth the environmental impact(s) of the preferred alterative and those of the alternatives reasonably aveilable to the project or action. No further analysis or data collecting is necessary, but the reviewer may suggest the addition of clarifying language or information.

#### Category 2-instificient Information

The draft EIS does not contain sufficient information for the EPA to fully assess the environmental impacts that should be avoided in order to fully protect the covironment, or the EPA reviewer has identified new reasonably available alternatives that are within the spectrum of alternatives analyzed in the draft EIS, which could reduce the environmental impacts of the action. The identified additional information, date, analyses, or discussion should be included in the final [33.

#### Category 3-Inadequate

EPA does not believe that the draft EIS adequately assesses potentially significant environmental impacts of the action, or the EPA reviewer has identified new, reasonably available alternatives that are outside of the spectrum of alternatives analyzed in the draft EIS, which should be analyzed in order to reduce the potentially significant environmental impacts. EPA believes that the identified additional information, data analyses, or discussions are of such a magnitude that they should have full public review at a draft stage. EPA does not believe that the draft EIS is adequate for the purposes of the NEPA and/or Section 309 review, and thus should be formally revised and made available for public comment in a supplemental or revised draft EIS. On the basis of the potential significant impacts involved, this proposal could be a candidate for referral to the CEQ.

From EPA Manual 1640 Policy and Procedures for the Review of the Pederal Actions Impacting the Environment

## FA3 – Representative Tim Walberg

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	M WALBERG District, Michigan			COMMITTEE ÓN OVERSIGHT AND GOVERNMENT REFORM
	MAIL VIA WEBSITE: alberg.house.gov	Congress of the U	Inited States	COMMITTEE ON EDUCATION AND THE WORKFORCE Crumman, Subcommittee on Workforcer Profections
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		August 29, 2	2016 <b>2016 SEP -</b>	1 P 5 05
			FEDERAL REGULATORY	ENERGY Commission
	Ms. Kimberly Bose, S Federal Energy Regula 888 First Street, NE Washington, DC 2042	atory Commission		· .
	Subject: Docket No. C	P16-22-000 (NEXUS Gas Transm	hission Pipeline Projec	t)
	Dear Secretary Bose:			
		comments for the record concernir ssion pipeline project being pursue		
FA3-1	economy and create go to enable these efforts	businesses rely on clean and affor bod-paying jobs. It is important that and the NEXUS Gas Transmission et our state's growing energy dem	at we have the necessa n pipeline project will	ry infrastructure in place
FA3-2	and affordable energy project, of which Mich	n remains a key manufacturing and supply is crucial to the region's fu igan-based DTE Energy is a partn tion the region to compete and gro	ture economic competer, will interconnect in	titiveness. The NEXUS
	support for the NEXU	federal representative of Michigan S project, which is expected to low conomic benefits to the state and c	ver electricity costs for	r my constituents and
		Sincerely, Vin Ua Tim Walber Member of		
	2436 RAYBURN Ho WASHINGT (202)	NGTOM.D.C.: Duas Offica DV, D.C. 20615 225-6278 21 225-6281	110 161 Јаскі (51 Fax: (	XACKSDN: STREET, SUITE 2 SON, MI 42201 7) 780–9075 517) 780–9081
		PRINTED ON RECYCLE	DPAPER	

Comment noted.

Comment noted.

## FA4 – U.S. Fish & Wildlife Service

	U.S. H Ecc 4625 Co	8 DEPARTMENT OF THE INTERIO Fish and Wildlife Service ological Services Office 5 Morse Road, Suite 104 Jumbus, Ohio 43230 -8993 / Fax (614) 416-8994	R PISIA VICE		
		October 21, 2016			
	Alisa M. Lykens, Chief Federal Energy Regulatory Commission Gas Branch 2 Division of Gas – Environment and Eng Washington, D.C. 20426	n	TAILS# 03E15000-2015-F-0009		
	Dear Chief Lykens,				
	This letter acknowledges the U.S. Fish a 20, 2016 letter and Biological Assessme Endangered Species Act. The consultat Transmission, LLC's NEXUS Gas Trar Indiana bat ( <i>Myotis sodalis</i> ) and rayed b bat ( <i>Myotis septentrionalis</i> ). You are re bat and northern long-eared bat and con the rayed bean.	ent (BA) requesting section 7 consultation concerns the possible effects of N1 smission Project on the federally listed bean ( <i>Villosa fabalis</i> ), and threatened requesting initiation of formal consultat	tion under the EXUS Gas d endangered northern long-eared ion for the Indiana		
FA4-1 FA4-2	The Service has reviewed the project description and concurs with your determination that the project, as proposed, is not likely to adversely affect the rayed bean. This concurrence is based on the applicant's commitment to implementing horizontal directional drilling (HDD) under any streams where extant and historical rayed bean populations occur, including the River Raisin and Huron River in Michigan and Swan Creek and the Vermillion River in Ohio. This concludes consultation on this action for the rayed bean, as required by section 7(a)(2) of the ESA. If new information reveals effects of the action that were not previously considered, consultation with the Service should be reinitiated to assess whether the determination is still valid.				
	All information required of you to initia long-eared bat was included in your BA reference. We have assigned TAILS# 0 to that number in future correspondence	A or is otherwise accessible for our con 03E15000-2015-F-0009 to this consult	sideration and		
	Section 7 allows the Service up to 90 cc agency and an additional 45 days to pre an extension). Therefore, we expect to March 3, 2017.	pare our biological opinion (unless we	mutually agree to		

- FA4-1 The updated information provided will be incorporated into the EIS as appropriate.
- FA4-2 Comment noted.

## FA4 – U.S. Fish & Wildlife Service (cont'd)

As a reminder, the Endangered Species Act requires that after initiation of formal consultation, the Federal action agency may not make any irreversible or irretrievable commitment of resources that limits future options. This practice insures agency actions to not preclude the formulation or implementation of reasonable and prudent alternatives that avoid jeopardizing the continued existence of endangered or threatened species.

If you have any questions or concerns about this consultation or the consultation process in general, please feel free to contact Angela Boyer, of my staff, at (614) 416-8993, ext. 22.

Sincerely,

an 7 ve

Dan Everson Field Supervisor

## NATIVE AMERICAN TRIBES

NAT1 - Nottawaseppi Huron Band of Potawatomi

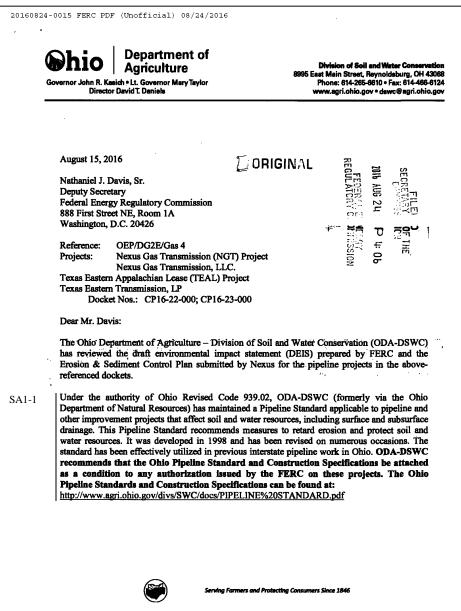
Douglas R Taylor, Fulton, MI. Refer to: CP16-22-000, CP16-23-000, CP16-24-000, CP16-102-000. Date 12 September, 2016. NAT1-1 Thank you very much for contacting the Nottawaseppi Huron Band of the Potawatomi (NHBP) Cultural and Historic Preservation Office in reference to your upcoming project. Based on a review of the information you provided to NHBP of this project, we indicate no potential impacts at this time. In the event of an inadvertent discovery of Native American (Potawatomi) human remains within your project area. Please contact Mr. William Johnson at 989-775-4730, Michigan Anishinabek Cultural Preservation and Repatriation Alliance (MACPRA) in Mount Pleasant, Michigan to assist in removing Native American remains. Once again thank you very much for contacting us in this matter. Very Respectfully Douglas R. Taylor

Contractor MACPRA Representative Nottawaseppi Huron Band of the Potawatomi 2221 1 ½ Mile Rd., Fulton, Michigan 49052 Doug.Taylor@nhbpi.com Cell: 269-275-4260

R-26

NAT1-1 Comment noted.

### SA1 – Ohio Department of Agriculture



SA1-1 NEXUS will implement their *E&SCP*, which is based on FERC's *Upland Erosion Control, Revegetation, and Maintenance Plan (Plan)* and *Wetland and Waterbody Construction and Mitigation Procedures (Procedures).* FERC's *Plan* and *Procedures* are a set of construction and mitigation measures that were developed in collaboration with other federal and state agencies and the natural gas pipeline industry to minimize the potential environmental impacts of the construction of pipeline projects in general.

State Agencies/Elected Officials Comments

### **SA1 – Ohio Department of Agriculture (cont'd)**

20160824-0015 FERC PDF (Unofficial) 08/24/2016

Governor John R. Kasich • Lt. Governor Mary Taylor Director DevidT. Daniels

Division of Soil and Water Conservation 8996 East Main Street, Reynoldsburg, OH 43068 Phone: 614-265-6810 • Fax: 614-468-6124 www.agri.ohio.gov • dawc@agri.ohio.gov

Nathaniel J. Davis, Sr. August 9, 2016 Page 2

Thank you for the opportunity to provide these comments. If you have questions or if we may be of further assistance in this matter, please contact Justin Reinhart at 614-265-6691 or Justin.Reinhart@agri.ohio.gov.

Sincerely,

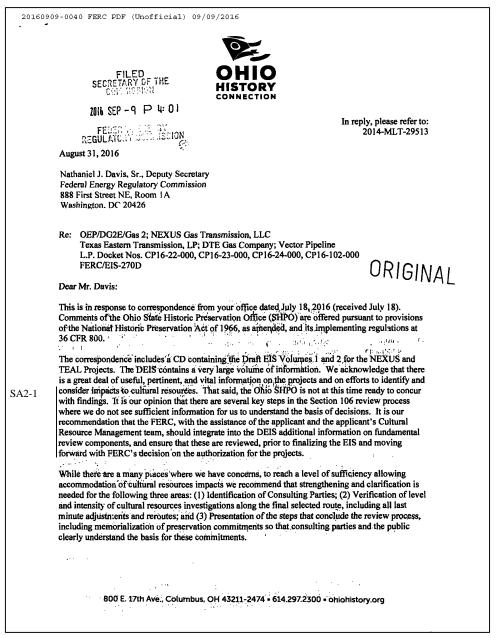
David T. Daniels Director

Cc: Timothy G. Schirmer, Senior Staff Counsel Kirk Hines, ODA-DSWC Chief Justin Reinhart, ODA-DSWC Conservation Engineer



Serving Farmers and Protecting Consumers Since 1846

### SA2 – Ohio State Historic Preservation Office



SA2-1 Updated information has been incorporated into section 4.11 of the final EIS. We understand that NEXUS has not completed cultural resources surveys and/or NRHP evaluations, and consultation with the SHPOs for both Projects is not yet complete. The recommendation in Section 4.11.4 would ensure compliance with Section 106 of the NHPA is completed.

State Agencies/Elected Officials Comments

SA2 – Ohio State Historic Preservation Office (cont'd)

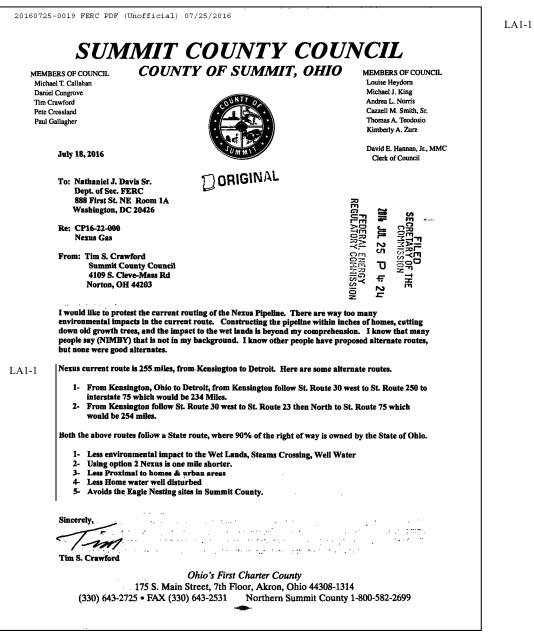
2016090	9-0040 FERC PDF (Unofficial) 09/09/2016	
	Nathaniel J. Davis, Sr. August 31, 2016 Page 2	
SA2-2	Identification of consulting parties. We understand from state and local news coverage that FERC has held several public meetings have regarding the proposed Nexus pipeline. We have not been provided with meeting minutes or documentation that illustrate public concerns or comments that might be meaningful to SHPO staff while performing review of the undertaking. Will public meeting comments be available to our office? Has Section 106 been a direct topic at the public meetings?	
8A2-3	Verification of final route. Our office has received archaeology and history architecture survey reports for NEXUS. We requested information on thirteen architectural properties, but have yet to receive additional information to continue the review. Our office has received archaeology and history architecture survey reports TEAL, which we are currently reviewing and waiting for a revised architectural report. Upon receipt of the revised report, we will continue the review and provide comments. We strongly recommend that FERC work closely with the applicant to verify the extent of the final route that has been the subject of an intensive survey for cultural resources and to make the findings of this verification available to the SHPO and consulting parties for their review.	
	With the combination of waiting to receive additional information about the effects to historic resources and the noted proposed route alternates in the DEIS, how will our office be given the opportunity to review and provide comment on the final undertaking prior to certification by FERC?	
SA2-4	Concluding the review process. Please describe the review steps that FERC will follow to fully consider our comments and recommendations prior to reaching a decision on certification. Following our completed review and recommendations, how will the avoidance plans, minimization plans, and mitigation measures be executed? Given the proximity of the projects to significant cultural resources the SHPO anticipates the likelihood of concluding the Section 106 review with a formal agreement. Does FERC anticipate that there will be an MOA executed to conclude the Section 106 review and if so has FERC initiated steps to guide the preparation of an agreement?	
	Any questions concerning this matter should be addressed to David Snyder or Mary Ogle at (614) 298-2000, between the hours of 8 am to 5 pm. Thank you for your cooperation.	
	Regards, Mary SU	
	Mary Ogle, Project Keviews Manager State Historic Preservation Office Serial: 1064450	
	xc: Tracy L. Millis, Senior Archaeologist TRC Environmental Corp. 50101 Governors Drive, Suite 250 Chapel Hill, NC 27517	

#### OHIO HISTORY CONNECTION

800 E. 17th Ave., Columbus, OH 43211-2474 • 614.297.2300 • ohiohistory.org

- SA2-2 The transcripts from Public Meetings held in Swanton, Uniontown, Wadsworth, Elyria, and Fremont, Ohio between August 10 and August 18, 2016 can be found on FERC's eLibrary (http://elibrary.ferc.gov) under docket numbers CP16-22 and CP16-23.
- SA2-3 NEXUS provided the requested information on thirteen architectural properties to the Ohio SHPO on September 23, 2016. We understand that NEXUS has not completed cultural resources surveys and/or NRHP evaluations, and consultation with the SHPOs for both Projects is not yet complete. The recommendation in section 4.11.4 would ensure the SHPOs receive all required information, reports, studies, and any required treatment/mitigation plans and that compliance with Section 106 of the NHPA is completed.
- SA2-4 Following receipt of SHPO comments, the applicant would be required to address the comments, and produce any required avoidance/minimization plans. Since we anticipate that NEXUS would avoid or minimize impacts, we also anticipate that there would be no adverse effects on historic properties, in which case, a memorandum of agreement (MOA) would not be required. Since this has, as yet, not been determined, we have not initiated preparation of an MOA.

LA1 – Tim S. Crawford, Summit County Council



We did not evaluate the route alternatives suggested in this comment because doing so would route the pipeline through the center of several large urban and suburban communities, including Canton, Wooster, Ashland, Norwalk, Fremont, Findlay, Bowling Green, and/or Toledo, Ohio; and Monroe, Romulus, Dundee, and/or Milan, Michigan. Not only would routing the pipeline through these communities result in greater impacts on home and urban areas, the pipeline would also be required to cross the same streams and wetlands as the highways, lending them unlikely to reduce environmental impacts on those resources.

### LA2 – Daniel Hodge, East Union Township Trustee

Daniel, Apple Creek, OH. East Union Township Trustees PO Box 222 Apple Creek, OH 44606 Wayne County

August 13, 2016

RE: NEXUS Pipeline Case Docket Number: CP16-22-000

#### Dear FERC,

This is a letter expressing reasons why we are opposed to the City of Green alternate route of the NEXUS pipeline.

As a seventh generation farmer and Township Trustee, though I am not personally affected by the LA2-1 proposed re-route of the NEXUS pipeline, I know many landowners who are. Industry-based areas want inexpensive natural gas delivered to them. Two of these areas are located north of the City of Green. Those communities that want the gas delivered to them should accept the responsibility and should accept this pipeline in their area since they will reap the benefit. Southern Wayne County does not benefit and therefore should not have to bear the burden.

LA2-2 Secondly, to divert the gas line would result in an additional five miles out of the path of delivery. This is five more miles of environmental issues. Please be aware of our occasional steep slopes due to rolling topography. Also, our woodlands are managed to harvest trees for our many woodshops and furniture shops. These are very popular with out-of-county customers who love handmade Amish products.

LA2-4 A third important factor is the very short notice we have to respond and to get involved in the evaluation process as the August 29th deadline is coming quick. I understand that 1200-plus pages of the entire EIS draft concerns only those impacted in original route through the City of Green, and not the re-route through southern Wayne County. It appears more than a year of thought and input has gone into that EIS. How can you accomplish the same due diligence and courtesy to the residents of Wayne County by the August 29th deadline?

LA2-5 Fourth, we already have Rover and Utopia going through our farming community. The possibility of another line will be even more disruptive to our livelihood. The farmers, many of them being organic and many Amish, depend on their land to produce crops to feed their livestock and vegetables for local markets. Another pipeline may make it more difficult to continue their livelihood economically. We make our living off the land, not in offices and factories. This is especially true of the Amish community because of their connection to their land and the cultural way of life.

LA2-6 Additionally, we Township Trustees provide fire and EMS services to the area. We have a volunteer fire department- not a paid staff. This means if multiple safety situations should occur, our first responders have to leave their jobs, if able, and the second shift worker would have to awake from sleep. This could leave us understaffed to deal with another potential situation. Our fire department may not be equipped and staffed like a paid city fire department is.

These are just a few thoughts that I hope you will consider when deciding where the pipeline would cause the least upheaval of people's livelihoods. Those communities that reap the benefit of receiving this natural gas needed for their economic enrichment should bear the burden of the pipeline.

Sincerely,

Daniel Hodge, East Union Township Trustee

- LA2-1 Comment noted.
- LA2-2 Comment noted.
- LA2-3 Comment noted. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.
- LA2-4 Comment noted.
- LA2-5 Comment noted.
- LA2-6 Regardless of the route selected, sections 4.10.5 and 4.13 address local emergency response, including DOT requirements to develop emergency response plans in coordination with state and local officials. These emergency procedures would provide for adequate means of communication, notification, and coordination with appropriate fire, police, and other public officials, as well as for the availability of personnel, equipment, tools, and materials needed to respond to an emergency.

### LA3 – Al Bollas, Mayor of New Franklin, OH

Al Bollas, New Franklin, OH.

In 2014, Spectra Energy & DTE Energy proposed to construct the Nexus Pipeline, a 36" high pressure natural gas pipeline from Kensington, Ohio to the Dawn Hub in Ontario, Canada. On its way to Canada, the proposed route for this pipeline travels through Summit County, including the City of New Franklin, Ohio's newest city.

of New Franklin and Green. This proposed route of the gas line will hurt New Franklin for many years to come, especially high populated residential areas.

LA3-2 Furthermore, I am worried about the natural resources and beauty of our lakes and streams.

The Portage Lakes Watershed in New Franklin is where a considerable amount of economic stability and growth comes from. My house is just one of the thousands of homes and businesses on the Portage Lakes. Why in the world would the pipeline company route a pipe through such a beautiful community like this and neighboring Green City to the east. This posses a dangerous threat for future generations. Use a less populated route south of Summit County.

LA3-3 I understand that FERC has indicated that they have not decided between the Nexus proposed route or a route that would bypass Summit County. What makes the decision so

LA3-3 difficult? The City of Green's bypass plan certainly would make more sense and would not affect as many residents and the future of our commercial base.

Although I would like to attend the FERC public comment meetings on August 17, 2016 at Wadsworth High School or on August 18, 2016 at Green High School, I will be out of town.

Thank you for your time and for permitting me to comment on this important subject.

Mayor Al Bollas City of New Franklin, Ohio

#### LA3-1 Comment noted.

LA3-2 The pipelines and aboveground facilities associated with the NGT Project must be designed, constructed, operated, and maintained in accordance with PHMSA safety standards, including more stringent requirements in increasingly populated areas. Therefore, the pipeline is considered safe, regardless of population density (see section 4.13 of the EIS).

LA3-3 Comment noted. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.



	RESOLUTION NO. 2016-17					
	A resolution opposing the Nexus Gas Transmission (NGT) Pipeline Company in the creation of a new pipeline					
20160823-5178	WHEREAS the NEXUS Gas Transmission (NGT) project, a partnership of DTE Energy and Spectra Energy is being designed to transport growing supplies of natural gas from the Marcellus and Utica shale fields to receiving points in Ohio म्ब्राली आस्मितिधिक दिसंतु(ब) 8/23/2016 ३:53:31 म्ब्र					
	WHEREAS the proposed path will consist of a newly constructed, large diameter greenfield pipeline that will extend approximately 250 miles from receiving points in northeastern Ohio to a connection point in southeastern Michigan with an existing pipeline infrastructure; and					
	WHEREAS of the 250 miles of new pipeline construction, approximately 50 miles of this will be in Michigan, coming through Lenawee and Monroe Counties, then entering Washtenaw County and traveling through Augusta and Ypsilanti Townships; and					
LA4-1	WHEREAS the path will utilize both existing and expansion capacity on the DTE Gas transportation system and the Vector Pipeline System to access Michigan markets; and					
	WHEREAS in November 2013, the Federal Energy Regulatory Commission (FERC) approved the abandonment/sale of Energy Transfer's natural gas trunkline based on the claim that there already existed excess pipeline capacity in the Midwest, including Michigan; and					
LA4-2	WHEREAS in many parts of Michigan; Washtenaw County, Ypsilanti Township and Augusta Township included, recovery in home and property values are just starting to increase from the previous market crash. With four (4) existing pipeline corridors of various commodities already running through Washtenaw County, additional pipelines would only contribute to property values once again declining in the areas impacted; and					
LA4-3	WHEREAS the proposed pipeline path will be within approximately 1,000 feet of Brick Elementary School, as well as Model Elementary and Early Childhood Center,					
LA4-4 NOW THEREFORE BE IT RESOLVED that the Charter Township of Ypsilanti Board of Trustees hereby opposes construction of the Nexus Gas Transmission project based on the lack of necessity for Michigan and Washtenaw County due to excess pipeline capacity versus demand as cited in the Federal Energy Regulatory Commission Order Approving Abandonment, Docket No. CP12-491- 000 issued on November 7, 2013; and						
	<b>BE IT FURTHER RESOLVED</b> that the Clerk's Office will file a copy of this resolution as a comment before the Federal Energy Regulatory Commission.					
	I, Karen Lovejoy Roe, Clerk of the Charter Township of Ypsilanti, County of Washtenaw, State of Michigan hereby certify the above resolution is a true and exact copy of Resolution No. 2016-17 approved by the Charter Township of Ypsilanti, Board of Trustees assembled at a Regular Meeting held on August 16, 2016. Karen Lovejoy Roe, Clerk Charter Township of Ypsilanti					

- LA4-1 Section 1.1 addresses the Purpose and Need of the Project, including a discussion on pipeline system capacity and demand.
- LA4-2 See section 4.10.8 for a discussion of potential impacts to insurance premiums.
- LA4-3 The proposed pipeline's proximity to schools is considered under pipeline safety (section 4.13 of the EIS), as part of the class location designation of the area surrounding the pipeline. See also response to comment LA3-2.
- LA4-4 Section 1.1 addresses the Purpose and Need of the Project, including a discussion on pipeline system capacity and demand.

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Huron Valley Group

To the Ypsilanti Township Board of Trustees Regarding the Proposed Nexus Pipeline From Nancy Shiffler, Chair of the Huron Valley Group of the Sierra Club

August 16, 2016

I am writing to you regarding the resolution on your August 16, 2016, agenda opposing the proposed Nexus natural gas pipeline. The Sierra Club Huron Valley Group represents 2300 Sierra Club members in Washtenaw, Monroe, and Lenawee Counties, through which the Nexus pipeline would pass. The resolution before you would state the Board's opposition to the application for the Nexus pipeline before the Federal Energy Regulatory Commission (FERC). The Sierra Club opposes this pipeline application for a number of reasons related to safety, the environment, and economics. For your consideration, I wish to draw your attention to related applications to two other regulatory bodies which bear on safety and consumer protection.

Along with its application to FERC, the Nexus pipeline has pending petitions to two other regulatory bodies:

 Spectra Energy Partners (which partners with DTE in the Nexus application) submitted a petition to the Pipeline Hazardous Materials Safety Agency (PHMSA -- Docket Number -2016-0009). The petition seeks a waiver of the requirement to odorize gas in pipeline sections passing through densely populated areas when more than 50% of the downstream segments are also densely populated -- in this case, the final 7 miles of the proposed pipeline, with a possibility of extending it to the final 20 miles. Odorization is a safety measure which allows immediate detection of and response to a leak by those actually in proximity to the leak. The company's concern is the cost of blending odorized gas with non-odorized sources at the pipeline terminus. The pipeline segments in question run approximately from Martz Road, past South and North Hydro Parks, alongside of the densely populated areas southwest of Willow Run, and on past the

JOD MUU TIM 20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM Milan 1/1 48160 3 March 2016 Ypsilanti Township Beard 7200 S. Huvon River Drive Ypsilanti J1 (1819)7 To the Ypsilanti Township Board; We are writing to request that you develop, propose and stand. We are writing to request that you develop, propose and stand. Firmly behind, a resolution against the proposed Nexus pipeline. This large line would run very close to schools and residences. It is large line would run very close to schools and residences. It is traveling over a long distance to carry gas which will be exported. The demand for Natural gas has fallen. There is no sound reason to place people at risk and to seriously disrupt the environment due to the installation of an unnecessary and potentially extremely dangerous pipeline. dangerous pipeline. Thank you in advance for your consideration.

### LA4 – Karen Lovejoy Roe, Charter Township of Ypsilanti Board of Trustees

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM 8/17/2016 Zimbra

### Zimbra

klovejoyroe@ytown.org

### township resident Myles/lochmoor

From : Karen Lovejoy Roe <klovejoyroe@ytown.org> Tue, Aug 16, 2016 02:36 PM

Subject : township resident Myles/lochmoor

To: Karen Lovejoy Roe <klovejoyroe@ytown.org>

----- Forwarded Message -----From: "indianhpyns1" <indianhpyns1@yahoo.com> To: "Brenda Stumbo" <bstumbo@ytown.org> Cc: "Karen Lovejoy Roe" <klovejoyroe@ytown.org>, "Larry Doe" <ldoe@ytown.org>, "Jean Hall-Currie" <jcurrie@ytown.org>, "seldrid" <seldrid@ytown.org>, "YT-Mike Martin" <mmartin@ytown.org>, "Scott Martin" <smartin@ytown.org> Sent: Tuesday, March 1, 2016 3:58:27 PM Subject: Ypsi twp Stand against nexus pipeline

Dear officials I hope the voices of Ypsilanti Township can join other determined voices to reject the Nexus pipeline. Gas prices are low & the public though getting a break on their pocketbook is aware that oil resources are finite & open to a transition to clean energy. We have wiggle room now to make a break from a fuel source that is dirty and unsustainable & the last thing we need is another pipeline. Thank you, & attached is the recent letter I sent to ferc urging their rejection of this pipeline. P deisha Myles 7159 lochmoor ypsi twp

>>

>> I'm a signature gatherer to ban fracking & I don't want fracked gas from the OH Utica shale (1.3 million acres) to come to or through Michigan. For the sake of the planet let's leave it in the ground. Being a tribal member of the Chippewas I'm appalled at the degradation of the land, air and water for the past 200 years. Native people travelled across continents, heat their wigwams and lived for 10,000 years without destroying their children's inheritance. They were and are sophisticated peoples not acting on impulses for the instant gratification of massive

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profits for shareholders at the expense of lands we live on and we all should be so prudent. Reject this pipeline by Spectra having numerous environmental and safety violations carrying gas produced by Chesapeake Energy who's paying out a \$25 million settlement for racketeering and bid rigging (michigan.gov/ag). Thank you p deisha Myles ypsilanti township resident >> >> Sent from my iPhone >> >> >> Sent from my iPhone Sent from my iPhone - -Karen Lovejoy Roe Clerk Charter Township of Ypsilanti 7200 S. Huron River Dr. Ypsilanti, MI 48197 734.484.4700 klovejoyroe@ytown.org For Ypsilanti Township News go to www.ytown.org

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Enter – Karen Elovejoy Koe, Charter Township of Tpshanti Doard v

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### Zimbra

klovejoyroe@ytown.org

Nexus Kantola/outerlane dr.

From : Karen Lovejoy Roe <klovejoyroe@ytown.org> Tue, Aug 16, 2016 02:27 PM

Subject : Nexus Kantola/outerlane dr.

To:maggie kantola <maggie.kantola@gmail.com>

Cc : Karen Lovejoy Roe <klovejoyroe@ytown.org>

Hello Ms. Kantola,

Your comments will be shared with all the township board members. I will also include your comments in the public record. I now have maps showing all the pipelines in the township and both Outerlane Drives. either the one off Grove Rd. area or on the north side off Michigan Ave, both areas currently have Natural Gas pipelines in the immediate vicinity of both Outerlane Drives. If you would like to see those maps they will be available at the meeting this evening and also we are trying to put it on our whigher and I have them in we officie if you want to stop by and

webiste and I have them in my office if you want to stop by and see the maps. You can also call Joe Lawson at 734.485.3942 or email at jlawson@ytown.org to get more specific information regarding the current pipeline locations and also the future proposed pipeline locations for both the Wolverine and Nexus pipelines.

Thank you for your interest. Karen Lovejoy Roe, Your Clerk

Karen Lovejoy Roe Clerk Charter Township of Ypsilanti 7200 S. Huron River Dr. Ypsilanti, MI 48197 734.484.4700 klovejoyroe@ytown.org For Ypsilanti Township News go to <u>www.ytown.org</u>

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### LA4 – Karen Lovejoy Roe, Charter Township of Ypsilanti Board of Trustees

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM 8/17/2016 Zimbra klovejoyroe@ytown.org Zimbra nexus comments augusta /mallonen Tue, Aug 16, 2016 03:18 PM From : Karen Lovejoy Roe <klovejoyroe@ytown.org> Subject : nexus comments augusta /mallonen To: Karen Lovejoy Roe <klovejoyroe@ytown.org> ----- Forwarded Message -----From: "Lisa Garrett" <lgarrett@ytown.org> To: "Karen Lovejoy Roe" <klovejoyroe@ytown.org> Sent: Tuesday, August 16, 2016 1:32:55 PM Subject: Fwd: No Nexus Pipeline. fyi Lisa Garrett Deputy Clerk Charter Township of Ypsilanti (734) 484-4700 From: "Dale-Lin Mallonen" <dalelinmallonen@gmail.com> To: lgarrett@ytown.org Sent: Tuesday, August 16, 2016 1:26:12 PM Subject: No Nexus Pipeline. I took a tour of the TransCanada Pipeline through Ypsilanti Township. I was shocked. Augusta Charter Township has been used like you have been. Most of our Pipeline routes are still rural or 1/2 https://pluto.twp.ypsilanti.mi.us/zimbra/h/printmessage?id=234546&tz=America/New\_York

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in wetlands where they plan to plant more. They are treating our end of the county as if the lives of the property owners & residents are an acceptable risk as well as the future restriction of growth. I brought up the TransCanada because it had an accident over 50 years ago. All the pipelines affect our environment forever, as do all the other community engineering projects. The Nexus pipeline completes a noose around Lincoln schools where we send our children & work & participate in community activities. The residents of Ypsilanti township have as much or more risk as we do. You have more children in the middle of the noose than we do. You have built your new subdivisions and apartments over old pipelines. It runs by our wildlife areas & your recreation areas. I am challenging Ypsilanti to take an even stronger stand than ACT. We passed a timely resolution. You still have a chance to stand up like we did. You Should, you have more at risk. I am sending this to you now & will to others because, unfortunately I may not be able to attend tonight. Sincerelv, Dale-Lin Mallonen 7685 Judd Rd living in the pipeline shadow. - -Karen Lovejoy Roe Clerk Charter Township of Ypsilanti 7200 S. Huron River Dr. Ypsilanti, MI 48197 734,484,4700 klovejoyroe@ytown.org For Ypsilanti Township News go to www.ytown.org

https://pluto.twp.ypsilanti.mi.us/zimbra/n/printmessage?id=234546&tz=America/New\_York

## LA4 – Karen Lovejoy Roe, Charter Township of Ypsilanti Board of Trustees

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3;53:31 PM klovejoyroe@ytown.org Zimbra comments nexus..kardos Tue, Aug 16, 2016 03:16 PM From : Karen Lovejoy Roe <klovejoyroe@ytown.org> Subject : comments nexus..kardos To: Karen Lovejoy Roe <klovejoyroe@ytown.org> ----- Forwarded Message -----From: "Lisa Garrett" <lgarrett@ytown.org> To: "Karen Lovejoy Roe" <klovejoyroe@ytown.org> Sent: Tuesday, August 16, 2016 1:32:06 PM Subject: Fwd: NEXUS resolution fyi Lisa Garrett Deputy Clerk Charter Township of Ypsilanti (734) 484-4700 From: "Ronald Kardos" <rmichael5766@sbcglobal.net> To: lgarrett@ytown.org Sent: Monday, August 15, 2016 1:05:30 PM Subject: NEXUS resolution As a non-resident of Ypsilanti Township I encourage you to please create a resolution against the NEXUS pipeline. My family and I know, all to well, the dangers of living near a https://pluto.twp.ypsilanti.mi.us/zimbra/h/printmessage?id=234543&tz=America/New\_York 1/2

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM 8/17/2016

major natural gas pipeline operating at high pressure. We have the Vector pipeline crossing our property and within 100 feet of our front door. The reasons to avoid having a high pressure pipeline are too numerous to mention so we must do everything we can to find alternative energy sources and quit pandering to the multi billion corporations that will stop at nothing to ultimately destroy the environment. Please create a resolution against the NEXUS pipeline. Ron Kardos Waiter to patron... "Would you like your salmon poached, smoked, pan fried OR GENETICALLY MODIFIED"? - -Karen Lovejoy Roe Clerk Charter Township of Ypsilanti 7200 S. Huron River Dr. Ypsilanti, MI 48197 734.484.4700 klovejoyroe@ytown.org For Ypsilanti Township News go to www.ytown.org

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https://pluto.twp.ypsilanti.mi.us/zimbra/n/printmessage?id=234543&tz=America/New\_York

### LA4 – Karen Lovejoy Roe, Charter Township of Ypsilanti Board of Trustees

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM 8/17/2016 Zimbra klovejoyroe@ytown.org Zimbra nexus whitbeck augusta Tue, Aug 16, 2016 03:13 PM From : Karen Lovejoy Roe <klovejoyroe@ytown.org> Subject : nexus whitbeck augusta To: Karen Lovejoy Roe <klovejoyroe@ytown.org> ----- Forwarded Message -----From: "Lisa Garrett" <lgarrett@ytown.org> To: "Karen Lovejoy Roe" <klovejoyroe@ytown.org> Sent: Tuesday, August 16, 2016 1:46:04 PM Subject: Fwd: Nexus Resolution / OPPOSE NEXUS fyi Lisa Garrett Deputy Clerk Charter Township of Ypsilanti (734) 484-4700 From: "Mark Whitbeck" <mwwhitbeck@gmail.com> To: lgarrett@ytown.org Sent: Tuesday, August 16, 2016 9:35:58 AM Subject: Nexus Resolution / OPPOSE NEXUS Dear Clerk Garrett, As a concerned resident of Augusta Township, I am asking you and the township board to pass the Nexus Resolution and submit it to https://pluto.twp.ypsilanti.mi.us/zimbra/h/printmessage?id=234535&tz=America/New\_York 1/2

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My family and I are OPPOSED to any more pipelines going through our respective townships when there are demonstrably no immediate or future needs for the product. This pipeline also puts our families, friends, and lands in danger without adequate safety measures or liability. There is NO BENEFIT to all who may be affected.

Thank you for your consideration.

Concerned resident, Mark Whitbeck Augusta Township --Karen Lovejoy Roe Clerk Charter Township of Ypsilanti 7200 S. Huron River Dr. Ypsilanti, MI 48197 734.484.4700 klovejoyroe@ytown.org For Ypsilanti Township News go to <u>www.ytown.org</u>

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM 8/10/2016 Zimbra Zimbra klovejoyroe@ytown.org Nexus Pipeline From : Web Message from YTown.org <webmaster@ytown.org> Wed, Aug 10, 2016 04:28 PM Subject : Nexus Pipeline To:klovejoyroe@ytown.org You have a new submission. Subject: Nexus Pipeline Message: I am writing to you to urge you to please consider voting against the Nexus Pipeline. While I feel for, and respect the union workers that might be involved, the Nexus Pipeline is not NOT GOOD for our community. My brother and I have dealt with several Nexus representatives regarding securing an easement across our land, and they have been unscrupulous. They have lied to us repeatedly, been disrespectful, and sneaky. Can we really risk something that is potentially this dangerous, to a company that is severely lacking in integrity? If they are this blatantly corrupt in their preliminary negotiations with the community, when they need us to cooperate, what will happen if they get approval, and they don't have to care about anyone or anything anymore? Our land is across the road from three of the Lincoln Elementary School buildings, within the INCINERATION ZONE. This is very bad planning a shows a serious lack of concern for our community. Please, Please, Please vote against the Nexus Pipeline. Thank you for your consideration. Rebecca Michaluk Name: Rebecca Michaluk Phone Number: 734-320-4279 Email: michaluk4@yahoo.com IP Address: 172.68.58.231

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You have a new submission.							
Subject: Pass and send resoluton to FERC							
Message: Please pass and send the resolutions to FERC regarding the Nexus Pipeline. We are landowners in Augusta Township that will be directly affected by the Nexus Pipeline. My family members and I are mult community, our land, our schools and beg you to vote against the pipeline for the health and safety of all residents and all studen							
Name: Ronald and Jona Ramey							
Phone Number:							
Email: rramey820s@yahoo.com							
<b>IP Address:</b> 162.158.75.108							

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Forwarded Message From: "webmaster" <webmaster@ytown.org> To: "Karen Lovejoy Roe" <klovejoyroe@ytown.org> Sent: Monday, August 1, 2016 10:37:41 PM Subject: Nexus pipeline</klovejoyroe@ytown.org></webmaster@ytown.org>						
You have a new submission.						
Subject: Nexus pipeline						
Message: Ypsilanti Township Board of Trustees, I ask you to – 1. Pass the resolution, you wrote, opposing the Nexus Gas Transmission (NGT) pro 2. Submit this Resolution to the Federal Energy Regulatory Commission (FERC). Fi I feel this project is very dangerous to the community and will decrease home va anyone from buying a home here if this is the kind of place that just sits idly schools without voicing opposition.	le it under Dc lues significa					
When your decision is made regarding these requests I ask that you inform me of Thank you, Janelle Palmer 1956 Outer Lane Dr Ypsilanti, MI 48198	your decision.					
Name: Janelle Palmer						
Phone Number: 313-806-0695						
Email: j.a.p.two@gmail.com						
IP Address: 162.158.60.59						
https://pluto.twp.ypsilanti.ml.us/#50	1/1					

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM 1215 Jay Qvenue Ypsilan ti', Michigan Quegust 11, 2016 Clerk Lovejoy Roe Charter Township of ypsilanti 7200 S. Huron Dreve ypsilanti, michigan 48197 Attention: Lovejoy Roe Dam asking Ypsilanti Township to pass nexus Resolution and submit it to FERC. We do not need this gas line in our community. Sincerelys gevesta Smieth

Local Agencies/Elected Officials Comments

20160823-5178 FERC PDF (Unofficial) 8/23/2016 3:53:31 PM

Subject: Opposition to Nexus Pipeline

To: Ypsilanti Township Board

I would like to state my opposition to the Nexus Pipeline and urge you to adopt the "No Pipeline Resolution".

The natural gas originates in shale fields in Pennsylvania and Ohio. It is obtained via fracking which I strongly oppose for environmental reasons. Huge amounts of water are consumed and ruined with highly toxic poisons, and everything is conducted in secrecy even from the regulators. When there is a toxic leak, a homeowner is unable to identify the source of the poisons because of the secrecy. I recently learned that fracking was originally in violation of the Clean Water Act, but was "enabled" during those secret meetings between Dick Cheney and the energy barons at the beginning of G.W. Bush's first term. Of course we are all now treated with false television ads claiming that there have been no adverse consequences of fracking. Many large and competent environmental organizations have collected lots of data to the contrary, the least of which is the increase of earthquakes. IMO, the energy companies are out of control with examples like the Gulf BP fiasco and the natural gas blowout in California last fall, and so many others including more just last week.

Natural Gas is currently abundant in the United States, and this extraction in Pennsylvania is for international export rather than part of a US energy policy or energy needs. This does not benefit the people of the US but only the profits of the mega corporations. Citizens along the pipeline route should not be forced to contribute to these profits via eminent domain taking of their land. The natural gas should now be left in the ground for future generations.

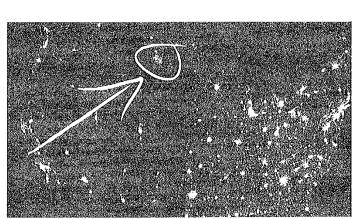
When I attended the Nexus Open House two years ago, I was clearly told that 100% of the gas was going to Nexus in Ontario. I was told that the DTE contracts were very clear about supplying 100%. I encouraged my Nexus host to contact local Planning Commissions regarding issues on their route, such as its location with Lincoln Schools and the ruining of the future commercial properties at Willis and Whittaker. Didn't happen. I guess they just don't care.

Recently I read that Nexus wanted the extra supply of Natural Gas in order to compete with other Natural Gas providers from western Canada. Lovely. Two or more mega Canadian companies warring against each other at the expense of US citizens. I also read that Nexus might distribute some of its excess gas to Upper New York State at an increased dollar rate. Pumping it around in a circle costs money of course!

A few weeks ago I read that Nexus was now demanding of DTE a reduced cost for the future natural gas. More evidence that there is a glut and prices are going down. And in a different news report, DTE is now seeking reassurance from the regulators that DTE's customers will be required to pick up the price tab for the pipeline which is not expected to be profitable for 20 years.

http://www.freep.com/story/news/local/michigan/2016/06/13/critics-dte-pipeline-plan-badratepayers/85608948/

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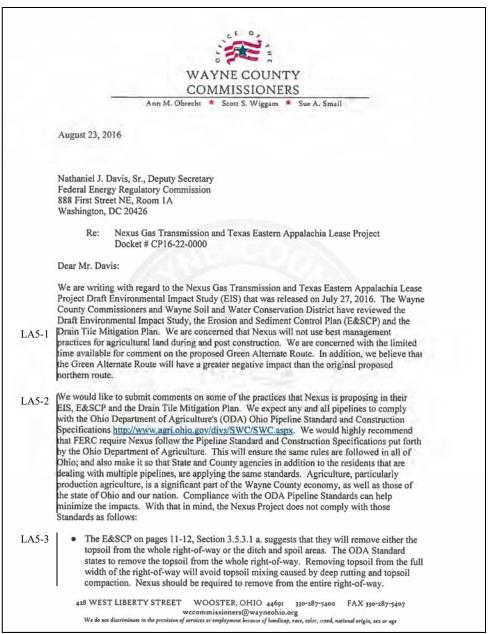
innetine by GRA

I would prefer that DTF concentrate more upon its core business of providing and delivering energy to its southeast Michigan customers. Over the 38 years that I have lived here, the reliability of DTE home electricity has fallen dramatically with the number and length of power failures. More and more homeowners, including me, have had to go to whole house generators because of the poor reliability. Fven DTE's thrust for Smart Meters (which i supported) failed (for me) as my Smart Meter had a cerebral hemorrhage after 6 months (becoming a dumb meter) and DTE is unwilling or unable to fix it.

So in closing, I urge the Ypsilanti Township Board to adopt the Resolution opposing the Nexus pipeline. There are too many issues and costs with zero benefits for SE Michigan residents. I realize that the Resolution will have little consequence other than yet another local government indicating that they were not sold on the merits.

William Tobler, Augusta Township, July 18, 2016

### LA5 – Wayne County Commissioners



LA5-1 To ensure compliance with best management practices and as discussed in section 2.5.2, NEXUS and Texas Eastern have each proposed to employ environmental inspectors on their Projects to ensure that construction complies with the procedures and mitigation measures identified in their respective applications, the FERC Certificates, other environmental permits and approvals, and environmental requirements in landowner easement agreements, including construction and restoration procedures in agricultural land. Additionally, as discussed in section 2.5.4, NEXUS filed information with the Commission on June 12, 2015 indicating it would like to implement a FERC third-party compliance monitoring program on the NGT Project. FERC third-party monitors would conduct periodic field inspections during construction and restoration.

Additionally, prior to construction, NEXUS shall file with the Secretary an Agricultural Impact Mitigation Plan (AIMP) detailing construction and restoration measures to be implemented on the NGT Project to address agricultural issues unique to Ohio and Michigan. For construction and restoration measures in Ohio, NEXUS shall consult with the Ohio Department of Agriculture (ODA) on construction procedures to be used in agricultural land in Ohio and shall file with the Secretary any measures that result from coordination with the ODA. Prior to construction, NEXUS shall also file with the Secretary a 5-year post-construction monitoring program to evaluate crop productivity in areas impacted by the construction of the Project. NEXUS shall include in the program a commitment to file with the Secretary quarterly reports for a period of 5 years following construction documenting any croprelated problems and describing any corrective action taken to remedy those problems. The program shall stipulate that if any landowner agrees that revegetation and crop productivity are successful prior to the 5-year requirement, NEXUS shall provide documentation in its quarterly reports indicating which landowners have agreed that monitoring is no longer necessary.

LA5-2 NEXUS will implement their *Erosion and Sediment Control Plan (E&SCP)*, which is based on FERC's *Upland Erosion Control, Revegetation, and Maintenance Plan (Plan)* and *Wetland and Waterbody Construction and Mitigation Procedures (Procedures)*. FERC's *Plan* and *Procedures* are a set of construction and mitigation measures that were developed in collaboration with other federal and state agencies and the natural gas pipeline industry to minimize the potential environmental impacts of the construction of pipeline projects in general.

> For construction and restoration measures in Ohio, NEXUS shall consult with the Ohio Department of Agriculture (ODA) on construction procedures to be used in agricultural land in Ohio, including the Pipeline Standards and Construction Specifications, and shall file with the Secretary any measures that result from coordination with the ODA. Any comments received from ODA shall also be filed with the Secretary.

LA5-3 The FERC Plan indicates that either full work area or from the trench plug subsoil applicable to cultivated or rotated croplands and managed pastures,

### LA5 – Wayne County Commissioners

Nathaniel J. Davis, Sr., Deputy Secretary Federal Energy Regulatory Commission Page 2 August 23, 2016

- In the Draft EIS on page 4-30, it states that they plan to maintain a minimum of three foot LA5-4 of cover. The ODA Standard states there should be a minimum depth of five feet in agricultural land. Nexus should be required to maintain a minimum depth of five feet in agricultural land. A minimum depth of five foot of cover will provide additional separation and safety should existing subsurface tiles need to be repaired or should new tiles be installed.
- LA5-5 The E&SCP on page 12, Section 3.5.3.1 b. states that the topsoil will be segregated to a depth of 12". The ODA Standard states that the topsoil will be stripped to the entire depth of the topsoil, not to exceed 16" in the right-of-ways and staging areas. Nexus should be required to comply with this Standard.
- The E&SCP on page 12, Section 3.5.3.1 e. states to maintain separation of topsoil and LA5-6 subsoil throughout all construction activities. The ODA Standard states that the substratum which is located below the subsoil will be placed in a third windrow separate from the topsoil and subsoil. Nexus should be required to place substratum in a third windrow, separate from the topsoil and subsoil.
- The E&SCP on page 27, Section 4.1.1 states that they would determine the extent of LA5-7 |• damaged tile lines by probing. ODA recommends using a closed-circuit TV camera to determine the condition of the tile the entire width of the right-of-way. Nexus should be required to comply with this recommendation.
- The Drain Tile and Mitigation Plan on page E-3-9, Section 5.3 states that as-built data LA5-8 will be collected of the restored and replaced drain tile. The ODA Standard states the pipeline shall document the location and known elevations of all subsurface drains that are found and/or repaired and provide a photo description of the repair to the landowner. The description should include a map, drawing or electronic database with the GPS latitude and longitude of the drain lines encountered and repaired. We recommend that Nexus provide the documentation as recommended by ODA. This information should also be provided to the Wayne Soil and Water Conservation District office.
- There is no mention of how conservation practices crossed by the pipeline will be LA5-9 restored. The ODA Standard states that all conservation practices (such as spring developments and pipelines, terraces, grassed waterways, water and sediment control basins, critical area seedings, etc.) damaged by the pipeline's construction will be restored to their pre-construction condition and approved by the landowner or the local Soil and Water Conservation District. We recommend that Nexus be required to restore all conservation practices crossed or damaged by the pipeline to pre-construction condition and approved by the landowner or Wayne Soil and Water Conservation District.
- The Draft EIS, including the Drain Tile Mitigation Plan, does not include specifications LA5-10 or details for repairing drain tiles that must be rerouted due to the proposed gas line being installed at the same elevation as the drain tile. Details regarding what should be done in these situations should be included in the Drain Tile Mitigation Plan. Drain tiles that are damaged or rerouted should be restored to pre-construction condition.
- Section 3.3.3 of the Draft EIS indicates that impacts to agricultural land are considered LA5-11 • temporary to short-term, defined as immediate to three-year recovery in Section 4.9.1. However, Section 4.8.4.1 of the Final EIS for the proposed ET Rover pipeline indicated,

LA5-3

- residential areas, hayfields and other areas at the landowner's request. (cont'd) NEXUS addresses topsoil segregation similarly in section 3.5.3.1 of its E&SCP, indicating that ditch plus spoil side or full right-of-way topsoil segregation as illustrated in figure CW-2 will be used. The criteria for the choice of topsoil stripping is not specified. The Ohio Specifications recommend full right-of-way topsoil stripping to maintain soil quality and minimize impacts due to rutting and compaction when the soil is trafficked when wet in Section 3D (p. 5). At NEXUS' discretion, full right-of-way topsoil stripping as discussed and illustrated in its E&SCP could apply to prime agricultural cropland that is yearly tilled and in row crops and small grains. The choice between topsoil stripping in actively managed hayland or pasture would depend on the specific situation and the sensitivity of the soils to rutting/compaction when wet.
- LA5-4 Although DOT regulations typically require a minimum depth of cover over the pipeline of 30 inches, sections 2.3.1.3 and 4.13. 1 of the EIS explain NEXUS has committed to a minimum depth of cover of 36 inches, and additional depth of cover can be negotiated at a landowner's request with NEXUS.
- LA5-5 See section 4.2.2 for a discussion of topsoil stripping depths. It has been FERC's experience that, in general, stripping the full width of topsoil up to 12 inches, storing the topsoil in a reserved windrow maintained separate from the trench subsoil, and returning the topsoil to the surface of the subsoil during the backfill process results in minimal impacts to soil productivity. If landowners have specific information or concerns regarding the need for special soil handling procedures on their property, including the need for additional topsoil segregation to a depth of 16 inches, the applicant would consider the request and make special soil handling techniques a condition of their easement agreement.
- LA5-6 It has been FERC's experience that, in general, stripping the full width of topsoil up to 12 inches, storing the topsoil in a reserved windrow maintained separate from the trench subsoil, and returning the topsoil to the surface of the subsoil during the backfill process results in minimal impacts to soil productivity. While there may be special circumstances where segregation of additional soil layers will minimize mixing of subsoil layers with different soil plant growth characteristics, applying three or more lift soil handling techniques to all soils trenched for the pipeline would not justify the increased disturbance to the construction right-of-way needed to separately strip and store individual soil layers. If landowners have specific information or concerns regarding the need for special soil handling procedures on their property, the applicant would consider the request and make special soil handling techniques a condition of their easement agreement. The Applicant should evaluate construction right-of-way width requirements in this specific situation, and request a variance from the FERC to increase the construction right-of-way width as necessary.

Additionally, prior to construction, NEXUS shall file with the Secretary an Agricultural Impact Mitigation Plan (AIMP) detailing construction and

### LA5 – Wayne County Commissioners

Nathaniel J. Davis, Sr., Deputy Secretary Federal Energy Regulatory Commission Page 3 August 23, 2016

LA5-11 among other things, that agricultural landowners should be compensated for three full years of lost productivity on their land and that the post-construction monitoring program to evaluate crop productivity of land impacted by construction should last five years. The NEXUS EIS should include the same language as Section 4.8.4.1 of Rover's Final EIS. Nexus should be required to provide the same compensation and monitoring that the E T Rover project provides.

- LA5-12 In addition to compliance with the ODA standards, we would also like to express our concern that although there were many references to the Erosion and Sediment Control Plan in the Environmental Impact Statement, the Erosion and Sediment Control Plan was not included in the document's appendix for review. We would like a copy of the Erosion and Sediment Control Plan including in the EIS.
- LA5-13 Section 3.0, page 3-1 of the Draft EIS indicates that the Green Alternate Route, a longer route with more greenfield construction, suggests a greater amount of intensity of impacts when comparing alternatives. It continues on page 3-2 that the total mileage of steep slopes and sidehill construction requires substantially more workspace and suggests greater impacts. Per Table 3.3.3-1, the Green Route Alternative is 5.5 miles longer, has 16.2 more miles of greenfield, has 4.6 more miles of steep slopes and has 5.4 more miles of sidehill construction than the proposed route. Therefore, we feel that the Green Route Alternate is not reasonably or environmentally preferable to the shorter, northern proposed route.
- LA5-14 Section 3.0, page 3-3 of the Draft EIS indicates that the 6 definitive receipt and delivery points must be served by the alternatives. If the Green Alternate Route is approved, we are concerned that a lateral or laterals will have to be installed across Wayne County, at yet undetermined locations, to serve these delivery points. These laterals, which must be taken into consideration, have the potential to impact most of the sixteen townships in Wayne County and cause undue damage to thousands of acres of farmland. Agriculture, particularly production agriculture, is an important part of the Wayne County's economy. The Green Alternate Route will disrupt many acres of land, in particular farmland, and will negatively impact this sector of the Wayne County economy.

The laterals and delivery points in the northern proposed route will promote economic development to existing commercial and industrial areas. A tap is located near the City of Rittman. The proposed reroute by the City of Green would serve as a significant setback to the Rittman development efforts of a large brownfield within the city as the Green Alternate Route no longer comes within close proximity of the city limits.

LA5-15 We are concerned with the limited time available for comment on the proposed Green Alternate Route. Our residents along the Green Route Alternate Route have only had a little over a month to understand the impacts of the alternate route and provide comment on it, while the residents along the northern route have had two years. Lack of time to respond has limited the ability of our county's residents to discuss and to react to a new pipeline proposal. The northern route has had time for a complete review. LA5-6 (cont'd)

- 5-6 restoration measures to be implemented on the NGT Project to address agricultural issues unique to Ohio and Michigan. Specifically, the AIMP should address plans for segregating topsoil in areas where the depth of topsoil is greater than 12 inches; triple stripping topsoil, subsoil, and substratum; and ensuring that excess spoil removed from the right-of-way during backfilling consists of substratum, and then, if needed, subsoil. For construction and restoration measures in Ohio, NEXUS shall consult with the Ohio Department of Agriculture (ODA) on construction procedures to be used in agricultural land in Ohio and shall file with the Secretary any measures that result from coordination with the ODA. Any comments received from ODA shall also be filed with the Secretary.
- LA5-7 NEXUS's *Drain Tile Mitigation Plan (DTMP)* includes a provision for examining drains across the entire project right-of-way using but not necessarily using closed circuit TV camera. This requirement does not rise to the level of being necessary given that the passing and spoil side portions of the trench would be much less likely to sustain damage in comparison to the trenching width. NEXUS should be able to discover the extent of any drain tiles damaged when it performs repairs, and thus we do not recommend adopting this ODA provision.
- LA5-8 NEXUS's *Drain Tile Mitigation Plan (DTMP)* includes a provision to use GPS technology capable of 3-D survey grade accuracy, or other similarly accurate technology, to document drain tile location, alignment, and grade. Elevational information would thus be included on the property drawings, and we do not recommend adoption of this ODA provision.
- LA5-9 FERC has recommended that NEXUS file with the Secretary, for review and written approval of the Director of OEP, its revised *E&SCPs* to commit to ensuring lands crossed that are under conservation practices, such as CRP lands, would be restored to pre-construction conditions, or in accordance with the landowner's request. See section 4.9.5.3 of the EIS.
- LA5-10 Impacts on drain tile systems are addressed in section 4.9.5.4 and in NEXUS' Drain Tile Mitigation Plan (appendix E-3).
- LA5-11 Comment noted. Impacts on drain tile systems are addressed in Section 4.9.5.4 and in NEXUS' *Drain Tile Mitigation Plan* (Appendix E-3). Section 4.9.2 states that crops within the construction work areas would be taken out of production for one growing season while construction occurs and landowners would be compensated for the lost crops.
- LA5-12 NEXUS' environmental plans can be accessed on the FERC eLibrary using the accession numbers provided in the EIS.
- LA5-13 Comment noted. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

### LA5 – Wayne County Commissioners

LA5-16	scrutiny that may occur that Wayne County is he threatened or endangere those species can be fou The Wayne County Con resources in planning ar Ohio's Natural Heritage endangered by the Féder rare by the Ohio Biologi Alternate Route include	<ul> <li>ory Commission</li> <li>mrs that the Nexus Green Alternate Route has not had the necessary over the course of two years versus six weeks, we would like you to note ome to many species of plants and animals that are considered rare, d by the Federal Government and the State of Ohio. A good many of nd near the proposed Nexus re-route.</li> <li>mprehensive Plan, <u>Tomorrow Together</u>, identifies several natural eas involved in the proposed re-route or Alternate Nexus. According to Inventory of species, these resources are considered threatened or ratal Government, species endangered in Ohio, and those considered to be ical Survey. Those species identified within approximately 1 mile of the Special Plants: Coral-Root (Corallorhiza mac); Matted Spikerush (Eleocharis intermedia)</li> <li>Special Plants: Leggett's Pinweed (Lechea pulchella); Butternut (Juglans cinera)</li> <li>Special Animals: Four-Toed Salamander (Hemidactylium scutatum)</li> <li>Special Animals: Bald Eagle (Haliaeetus leucocephalus); Sandhill Crane (Grus Canadensis); Sedge Wren (Cistothorus platensis); Virginia Rail (Rallus limicola)</li> <li>In addition, Funk Bottoms, a large undeveloped area of which the State of Ohio owns about 830 acres, is within approximately 1 mile of the proposed route. It is a large floodplain area with wetland plants and wildlife. The creeks and permanent marshes on the area support mainly roughfish with small numbers of panfish. Mallard, wood duck, muskrat, raccoon, and cottontail rabbit are the principal game and furbearer species. Deer, pheasant, woodchuck, fox squirrel, Canada goose and other furbearers are common. A great variety of nesting and migrant birds occur on the area. Of particular interest is the spring migration of waterfowl (23 species, including Tundra swans) and shorebirds (28 species). Several species of raptors can be found during migrations and overwintering. Bald eagles have been observed on the wildlife area. Nesting of the state endangered Sandhill Crane (Grus Canadensis) on the purchase uni</li></ul>	LA5-14 (cont'd) LA5-15 LA5-16	Comments noted. Presently, there are no planned lateral pipelines associated with the Projects. In the EIS, we required all alternatives to serve NEXUS' 6 definitive receipt and delivery points. The City of Green Route Alternative would allow these points to be served without additional lateral pipelines. We did not, however, require that the alternatives serve potential future delivery points at NEXUS' 13 tec-tap locations. If service to these locations becomes required, between one and four laterals would be required on the City of Green Route Alternative. See section 1.1.1 and 3.3.3 for additional discussion regarding this issue. However, as previously stated, based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects. Comment noted. See section 4.6 for potential impacts to wildlife and section 4.8 for potential impacts to special status species.
	Wooster Township:	first recorded Ohio nesting of this species in more than 60 years. Sandhill nests have been confirmed here several times since. Sandhill cranes are a wetland dependent species. Special Trees: Washington Hawthorn, White Basswood; Blackhaw, Carolina Silverbell, Pin Cherry, Rock Elm; Umbrella Magnolia		

### LA5 – Wayne County Commissioners

Nathaniel J. Davis, Sr., Deputy Secretary Federal Energy Regulatory Commission Page 5 August 23, 2016 A significant archaeological site is also within one mile of the proposed Green Alternate Route. LA5-17 Pee Wee Hollow, a Boy Scout camp, in Congress Township is the location of three mounds dating from 2580 BC through 660 AD. Pee Wee Hollow has been documented by College of Wooster professors Nick Kardulias and Greg Wiles as being used from the Late Archaic through Late Woodland periods for ceremonial or communal activities. Additional information about these mounds is available at this site: http://www.wooster.edu/news/releases/2014/february/peeweehollow-mounds/index.php LA5-18 It is our opinion that the original proposed northern route, not the Green Alternate Route, is a more reasonable and more environmentally preferable route. We hope you will take all of these comments into consideration. Thank you for your consideration of these concerns. Sincerely, BOARD OF WAYNE COUNTY COMMISSIONERS Ann M. Obrecht, President Sue A. Sma /bac (cms/ferc re nexus sineline # 23 2016

### LA5-17 Comment noted.

LA5-18 Comment noted. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

### LA6 – Paul Jeffers, Montville Township Trustees

Paul Jeffers, Medina, OH. Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, NE, Room 1A Washington, DC 20426

Ms. Bose:

On behalf of Montville Township Trustees, Medina County, Ohio, the following comments are in regards to the NEXUS Pipeline relocation through a portion of Montville Township. As we have stated within a Resolution signed January 13, 2015, the Trustees are not opposed to necessity of gas transportation and the opportunities it may afford to provide gas to the upper U.S Midwest and Ontario, Canada.

The revised transportation line appears to have shifted to the north of the originally proposed LA6-1 line thus placing it further within our township. The area in which this 36"-42" line is proposed travels through or near seven densely populated subdivisions; Hunters Glen, Autumn Ridge, Cobblestone, Arbor Lakes, Whitetail Crossing, Fox Meadows, and Highland Meadows. The subdivisions have approximately 813 single family residences and are surrounded by several other single family lots.

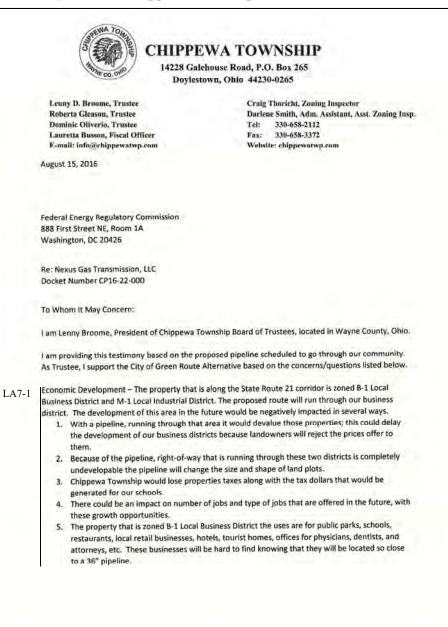
Montville Township has witnessed a tremendous population growth as part of the early 2000 housing boom; 2000 Census – population was 5,410 whereas the 2010 Census – population was 11,185. Due to the proximity to major metropolitan areas such as Cleveland and Akron, Montville Township offers a great appeal in which families can dwell and has awarded us as being the most populated township within Medina County.

In conclusion, we ask that our comments are taken into consideration and that the path of the proposed pipeline be redirected further south to avoid the heavy impact that it will cause in our higher density portion of the township.

#### Respectfully yours,

Jeff Brandon, Montville Township Trustee, Chair Ron Bischof, Montville Township Trustee, Vice Chair Sally Albrecht, Montville Township Trustee LA6-1 See the response to comment LA3-2. Alternatively, the important consideration in routing natural gas transmission pipelines in residential areas is the impact on land use. These impacts are discussed throughout section 4.9 of the EIS.

LA7 - Lenny Broome, Chippewa Township Board of Trustees



LA7-1 Section 4.9.4.2 describes the impacts on planned and ongoing residential, commercial, and industrial developments.

LA7 – Lenny Broome, Chippewa Township Board of Trustees

Federal Energy Regulatory Commission

page 2

August 15, 2016

That pipeline infrastructure will hinder or even harm economic growth in this area. The City of Green routing of the Nexus Pipeline will allow these properties to be developed as intended and will permit economic growth for our community.

Sincerely,

Ley e proon

Lenny D. Broome, President Chippewa Township Trustee

LA8 – Dominic Oliverio, Chippewa Township Board of Trustees



## **CHIPPEWA TOWNSHIP**

14228 Galehouse Road, P.O. Box 265 Doylestown, Ohio 44230-0265

Craig Thoricht, Zoning Inspector

Tel: 330-658-2112

Fax: 330-658-3372

Website: chippewatwp.com

Darlene Smith, Adm. Assistant, Asst. Zoning Insp.

Lenny D. Broome, Trustee Roberta Gleason, Trustee Dominic Oliverio, Trustee Lauretta Busson, Fiscal Officer E-mail: info@chippewatwp.com

August 15, 2016

Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Nexus Gas Transmission, LLC Docket Number CP16-22-000

#### To Whom It May Concern:

I am Dominic Oliverio, I am a Chippewa Township Trustee, located in Wayne County, Ohio.

I am providing this testimony based on the proposed pipeline scheduled to go through our community. As Chippewa Township Trustee, I support the City of Green Route Alternative based on the concerns/questions detailed below.

- LA8-1 How will this pipeline affect our residents' water wells and septic systems? The construction of this pipeline is close proximity to our residents' homes could have an effect on the private water wells. Contaminates could travel unnoticed until detected in a drinking water well.
- LA8-2 Will our residents, business, schools, church's, and our community as a whole receive discounted rates? What is going to be the break for our consumers who are being directly affected by the pipeline coming through our community? Will you provide reasonable rates for our community to run operations i.e. farming operations, household items etc. What type of incentive will you provide our community with that is better than the rest of the general public since we would be directly affected?
- LA8-3 The City of Green Alternative route would cross 11.8 less acres of wetlands, 1 less WHPA, no state parks/forest lands, 4 fewer county/metro parks, and 35 less homes within 150 feet. Safety to our community in the aspects of residential dwellings, commercial, and proposed future industrial development. Likewise, of our community's safety concern, the proposed route would be directly affecting our Township's M-1 – Light Industrial District in the aspect of future growth potential.

- LA8-1 Sections 4.3.1.2 and 4.9.4 describes impacts and mitigation for wells, septic systems, and other residential utilities.
- LA8-2 Socioeconomics are discussed in Section 4.10. Economics and tax revenues are discussed in section 4.10.9.
- LA8-3 See section 3.3.3 for an updated discussion of the City of Green Route Alternative. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

Local Agencies/Elected Officials Comments

LA8 – Dominic Oliverio, Chippewa Township Board of Trustees

Federal Energy Regulatory Commission

page 2

August 15, 2016

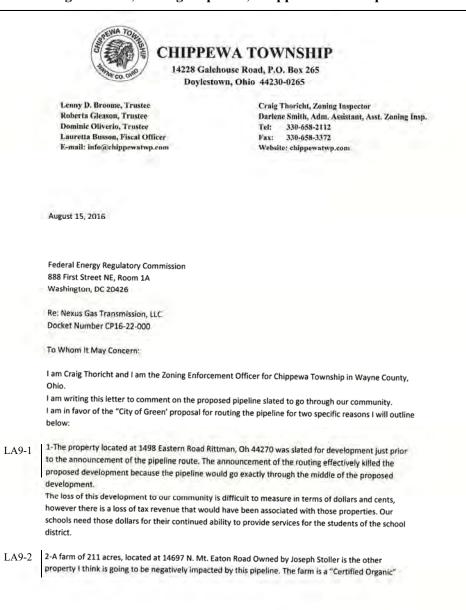
Project developers are lacking communication. The only involvement/communication our community has been receiving has been individuals that are outsourced by NGT and are third party contractors. The credibility is lacking in these third party contractors and our community expects more for the unfavorable impact the project will have on our community as a whole, in all the diverse aspects that our community would be affected.

I feel NGT should express and show how they are going to work with our residents, local government, community groups, and businesses to address community concerns. An action plan would need to be set in place on assisting our community as a whole. Actions will need to be shown illuminating the involvement Nexus would have and provide in our community for the lifespan of our relationship.

Sincerely,

Dominic Oliverio, Trustee Chippewa Township

#### LOCAL AGENCIES/ELECTED OFFICIALS LA9 – Craig Thoricht, Zoning Inspector, Chippewa Township Board of Trustees



- LA9-1 Section 4.9.4.2 describes the impacts on planned and ongoing residential, commercial, and industrial developments.
- LA9-2 Section 4.9.5.1 states that NEXUS would coordinate with certified organic farm operators to identify construction and operations practices that are consistent with organic farm certification practices.

LA9 - Craig Thoricht, Zoning Inspector, Chippewa Township Board of Trustees

Federal Energy Regulatory Commission

August 15, 2016

dairy farm. The work and effort the Stollers put in to achieving that certification is, at the least in LA9-2

jeopardy, and in all honesty, will probably be lost and revoked. cont'd

In and of itself, this is a loss to the Stoller family, but also a loss to our community. "Certified Organic" milk and dairy products command a premium in today's market. The Stollers spend as much of their money locally as they can. The pipeline routed through that farm will cause a loss to the Stollers and our community.

page 2

The "City of Green" routing of the Nexus Pipeline will allow these two properties to be developed as their owners intend and will allow our community to grow.

Sincerely, **Craig Thoricht** 

Chippewa Township Zoning Inspector

**R-64** 

LA10 – Joyce Forrer, Fire Chief, Chippewa Township Board of Trustees

**CHIPPEWA TOWNSHIP** 14228 Galehouse Road, P.O. Box 265 Doylestown, Ohio 44230-0265 Lenny D. Broome, Trustee Craig Thoricht, Zoning Inspector Roberta Gleason, Trustee Darlene Smith, Adm. Assistant, Asst. Zoning Insp. Dominic Oliverio, Trustee Tel: 330-658-2112 Lauretta Busson, Fiscal Officer Fax: 330-658-3372 E-mail: info@chippewatwp.com Website: chippewatwp.com August 15, 2016 Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426 Re: Nexus Gas Transmission, LLC Docket Number CP16-22-000 To Whom It May Concern: I am Joyce Forrer, I am the Fire Chief for Chippewa Township Fire Department, located in Wayne County, Ohio. I am providing this testimony based on the proposed pipeline scheduled to go through our community. As Fire Chief, I support the City of Green Route Alternative based on the concerns/questions listed below. Public safety - as Chippewa Township Fire Department being a combination of full-time, part-time and LA10-1 volunteer, we do not have the capacity of responding to a catastrophic event caused by the pipeline, nor the equipment. Our concern at Chippewa Township Fire Department is needing more to protect our residents, businesses, schools and community. Particularly if a problem with the high-pressure gas line were to arise. In the case of an emergency due to the pipeline, who would you provide to assist our community first responders? What amount of gas would we be dealing with? How long will the response time take from the resources you provide us with? What type of equipment would you provide for Chippewa Township Fire Department and the additional responders? Would there be emergency shut-off valves at both ends of our township? What type of training/training facilities would you provide Chippewa Township Fire Department with? Would this training take place on a monthly, quarterly or annual basis? With the proposed pipeline being co-located with existing utility right-of-ways including; overhead electric lines, other pipelines, railroads overlapping with one another, what are you going to have in place to protect our residents, farms, watersheds, schools, farmlands, and infrastructure? In addition, what type of cost would be provided for future emergency responder training, concerns with man power (lack of), and equipment to be able to respond to pipeline emergencies. As Chippewa

LA10-1 See the response to comment LA2-6.

#### LA10 – Joyce Forrer, Fire Chief, Chippewa Township Board of Trustees

	Federal Energy Regulatory commission	page 2	August 15, 2016				
	Township Fire Chief, I need to be prepared, that includes identifying hazardous and pre-planning for pipeline incidents.						
	If an unlikely event or incident were to occur, local emergency officials will be responsible for managing and protecting our residents (i.e. traffic control, handling injuries, fire, etc.). Our local Police Department has two patrolman on staff and one Wayne County Deputy in the Township. Resources will be extremely thin. We do rely on mutual aid from our surrounding communities, but they, like us, have limited personnel and equipment.						
	During construction, we do not have any type of off road vehicle in the instance of a contractual employee being injured. Our response time would be delayed, therefore delaying medical treatment.						
A10-2	Air quality and noise – dust and emissions from construction equipment would impact air quality. How quickly would you move through an area to keep construction emissions localized, intermittent and temporary?						
	We would need an emergency plan created for Chippewa Township Fire Department, a draft needs to be submitted for us to add specifics to our community. This needs to be both during, and after pipeline construction.						
	Sincerely, Auto Dormer Joyce Forrer, Fire Chief Chippewa Township						

LA10-2 Section 4.12.1.3 of the EIS states that the entire project would take 2 years to construct; however, construction at any given location would generally last form 6 to 10 weeks. This section of the EIS also addresses emission from construction, including dust and the development of a *Fugitive Dust Control Plan*.

#### LOCAL AGENCIES/ELECTED OFFICIALS LA11 – Matt Carver, Road Superintendent, Chippewa Township Board of Trustees



#### CHIPPEWA TOWNSHIP

14228 Galehouse Road, P.O. Box 265 Doylestown, Ohio 44230-0265

Craig Thoricht, Zoning Inspector

Tel: 330-658-2112

Fax: 330-658-3372

Website: chippewatwp.com

Darlene Smith, Adm. Assistant, Asst. Zoning Insp.

Lenny D. Broome, Trustee Roberta Gleason, Trustee Dominic Oliverio, Trustee Lauretta Busson, Fiscal Officer F-mall: info@chippewatwp.com

August 15, 2016

Federal Energy Regulatory Commission 888 First Street NE, Room 1A Washington, DC 20426

Re: Nexus Gas Transmission, LLC Docket Number CP16-22-000

To Whom It May Concern:

I am Matt Carver, I am the Road Superintendent for Chippewa Township, located in Wayne County, Ohio.

I am providing this testimony based on the proposed pipeline scheduled to go through our community. As Chippewa Township Road Superintendent, I support the City of Green Route Alternative based on the concerns/questions listed below.

- LA11-1 We work hard on maintaining and providing safe driving condition roads for our residents in our small community. With the proposed pipeline project, the equipment, vehicles, and work that will be taking place is going to create a significant impact to our aging roads and drainage systems. The safety of our residents is a major concern, our narrow, winding rural roads are not meant to handle this volume of traffic.
- LA11-2 With co-existing utility structures already placed in our community, the additional erosion sediment that will compound in our draining systems will back up our systems. With open cuts to our roads opposed to boring, this will cause substantial costs to the tax payers and continual maintenance for our Road
- LA11-3 Department. With Chippewa Township being a small community, and our road crew containing limited personnel, what type of equipment would you provide Chippewa Township with in order to complete jobs safely, successfully, in a timely manner? With our Department lacking man power, who would assist Chippewa Township Road Department in tasks that arise due to the desired pipeline project?

The proposed pipeline project concerns the safety of not only my Road Department personnel, but the entire community of Chippewa Township. What type of safety training will the Road Department receive if an instance were to take place? Will this training take place on a monthly, quarterly, or annual basis?

- LA11-1 Impacts to transportation systems are discussed in section 4.10.7. Drainage systems are discussed in section 4.2.2 and the drain tile mitigation plan.
- LA11-2 See section 4.3.2.2 for discussion on mitigation procedures during construction to minimize or avoid erosion and sedimentation of surface waters. Impacts and mitigation pertaining to flooding and flash floods are addressed in section 4.1.5.7.

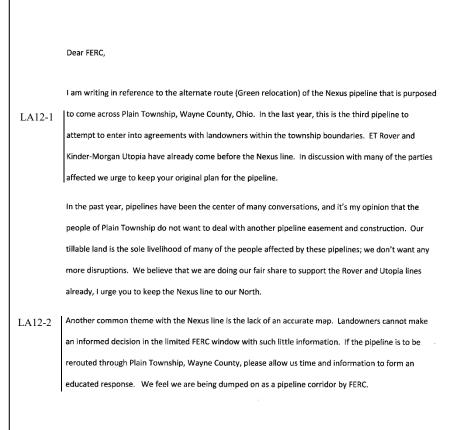
LA11-3 Section 4.10.7 addresses inspection and restoration of road conditions in the Project study area. NEXUS and Texas Eastern would be responsible for restoring roads in accordance with permit conditions and as requested by landowners or agencies. NEXUS and Texas Eastern would periodically inspect roads near crossings and make repair as necessary to damages caused by construction activities.

LA11 - Matt Carver, Road Superintendent, Chippewa Township Board of Trustees

	Federal Energ	gy Regulatory Co	ommission	page 2	Aug	ust 15, 2016		
LA11-4 LA11-5	Chippewa Township has concerns regarding Wildlife Endangered Species including, but not limited to, the Reptile Snake – Eastern Massasauga and the Indiana Bat that our located in our community. Construction to our community could affect the original habitat that are located in our community. Shallow ground water could affect hydrology of small or large wetlands and could dewater them completely.							
	Construction standards need continual evaluation, and updated on a regular basis. Damage and immediate repair considerations need to be set in place up to Chippewa Township standards. There needs to be a draft that Chippewa Township approves, with the opportunity to change or enhance as time goes on. Permanent and temporary modifications and improvements will be made throughout the pipeline existence and our Township.							
	Repair and remediation after construction to original or better standards. Planning phases for repair and remediation of construction need to be set in place. All construction specs need to be reviewed, and approved by Chippewa Township. Long term monitoring and remediation contractual standards due to pipeline construction and maintenance will need to be put in place.							
	Sincerely, Matt Carver, Road Superin Chippewa Too	tendent	le c	hp Tup				

- LA11-4 See section 4.6 for potential impacts to wildlife and section 4.8 for potential impacts to special status species.
- LA11-5 Wetland impacts and mitigation are discussed in section 4.4.2

LA12 – Dave McMillen, Plain Township Trustee, Wayne County



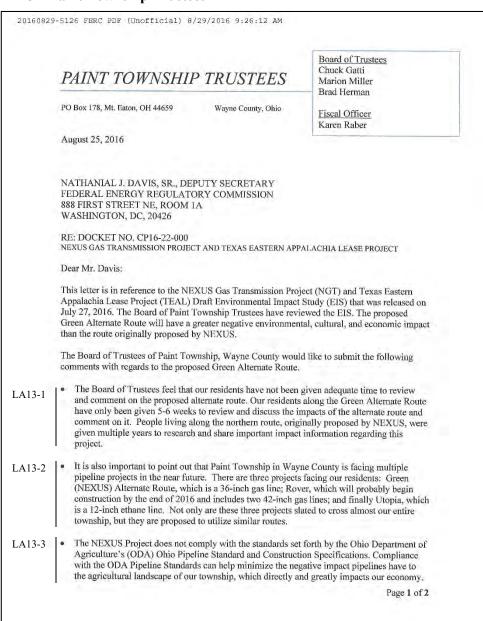
Thank you for your consideration,

Dave McMillen

Plain Township Trustee / Wayne County

- LA12-1 Comment noted. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.
- LA12-2 Comment noted.

#### LOCAL AGENCIES/ELECTED OFFICIALS LA13 – Paint Township Trustees



#### LA13-1 Comment noted.

LA13-2 Comment noted. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

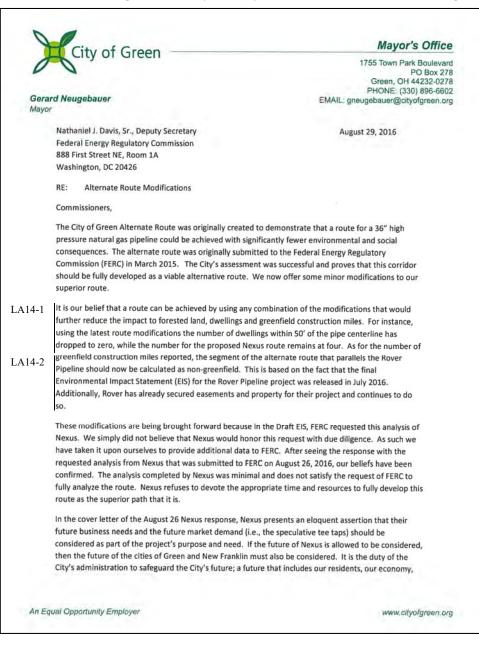
LA13-3 See the response to comment LA5-2.

#### LOCAL AGENCIES/ELECTED OFFICIALS LA13 – Paint Township Trustees

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LA13-4 LA13-3 This is significant because Paint Township residents are heavily reliant on agriculture for their livelihoods. cont'd Additionally, the overwhelming majority of these Paint Township residents are members of LA13-4 the Plain community (Amish/Mennonite). In fact, Paint Township is home to the largest Plain settlement in Wayne County, as well as one of the largest in Ohio. The potential loss of and direct impact on the agricultural land will put significant strain on the way of life these residents have enjoyed for generations. The financial impact as a result of the disruption to agriculture practices is incalculable for many of Paint Township residents due to their dependence on agriculture as a means of income and sustenance living. In closing, the key word for this situation is limited. Paint Township of Wayne County residents have been given a limited timeframe to respond to the proposed Green Alternate Route. The amount of land along the three proposed pipeline routes is also *limited*, considering all three routes follow a similar path. Residents, of the predominately Plain community, have limited financial options, which will lead to a significant impact to their way of life. After reviewing the NEXUS Gas Transmission Project (NGT) and Texas Eastern Appalachia Lease Project (TEAL) Draft Environmental Impact Study (EIS), we the trustees of Paint Township in Wayne county see significant flaws in the Green Alternate Route. The proposed Green Alternate Route will have a greater negative environmental, cultural, and economic impact than the route originally proposed by NEXUS. Sincerely, THE BOARD OF PAINT TOWNSHIP TRUSTEES, WAYNE COUNTY, OHIO Karen Raber ice President Fiscal Officer Paint Township / Wayne County PO Box 178 Mt. Eaton, OH 44659 **Frustee** Page 2 of 2

Comment noted.



- LA14-1 See section 3.3.3 for an updated discussion of the City of Green Route Alternative.
- LA14-2 Comment noted.

LA14 - Gerard Neugebauer, Mayor, Wayne Wiethe, Director of Planning, City of Green

the long term use of our commercial, industrial, residential, and park land, and the future of our wetlands and precious natural resources, including the Singer Lake Preserve and it's delicate ecosystem. This is why this project means so much to our community and the reason we've devoted the significant

LA14-3 resources that we have towards re-routing this pipeline. This project would bring harm to our residents, our economy, our future land uses and our natural resources. The Singer Lake Preserve alone could be irreversibly damaged if the shallow ground water table is disturbed.

> This project is not yet ready for a final EIS. Nexus has not faithfully evaluated the alternate route and as such the NEPA process has not been followed in order to select a preferred route. There has been a substantial amount of new information presented to FERC since the release of the Draft EIS. With new information presented, and most recently additional route modifications, the public must be given sufficient time to evaluate and provide further comments. We also need some assurance that the public

LA14-4 sufficient time to evaluate and provide further comments. We also need some assurance that the p is being heard. We now must respectfully request that before a Final EIS is released, a second draft should be released with another public comment period.

My staff and I are available to discuss the enclosed modifications at any time. We are also available to discuss any aspect of this project as it relates to the City of Green. Please do not hesitate to contact us.

Sincerely,

Mayor

cc:

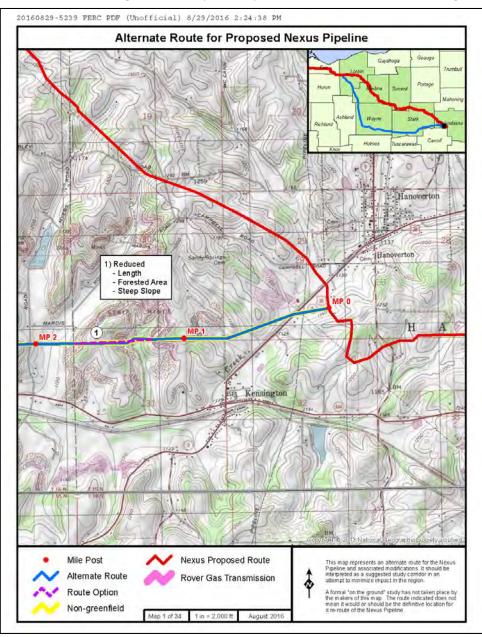
Gerard Neugebauer, P.E.

Warneh Wett Wayne Wiethe, AICP

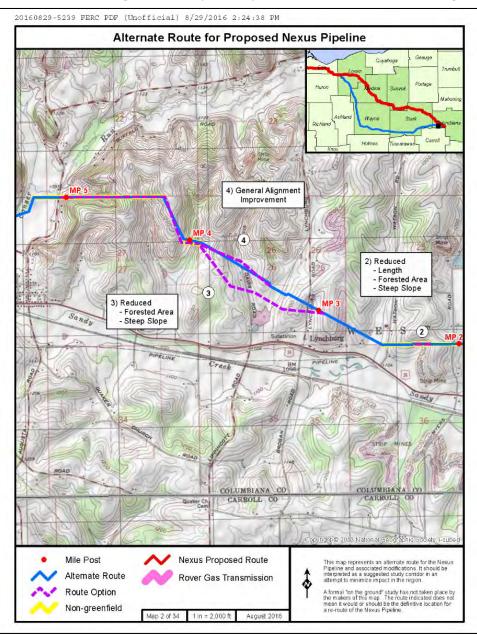
Director of Planning

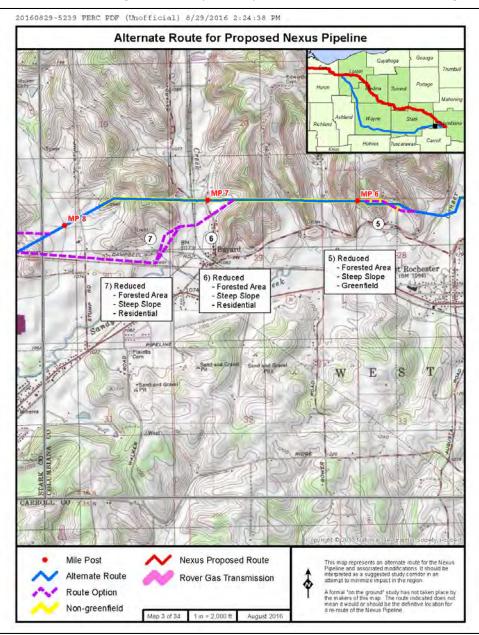
Sherrod Brown, U.S. Senator Rob Portman, U.S. Senator Jim Renacci, Congressman John Kasich, Governor Mary Taylor, It. Governor Frank La Rose, Ohio State Senator Anthony DeVitis, Ohio State Representative Ilene Shapiro, Summit County Executive John Sheridan, Director of State Gov Affairs Spectra Energy Brian Hicks, Hicks Partners David Slater, Executive Vice President-Gas Storage & Pipeline

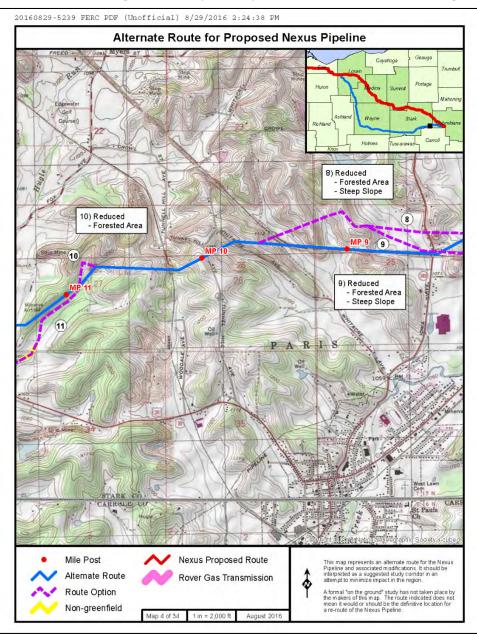
- LA14-3 See sections 4.5.1 and 4.9.7.4 for discussions of Singer Lake Preserve.
- LA14-4 There is no public comment period associated with issuance of a final EIS per NEPA. However, FERC's process allows for comments at all times during pending proceedings as well as opportunity to intervene. We find no need to extend another comment period with issuance of the finial EIS.

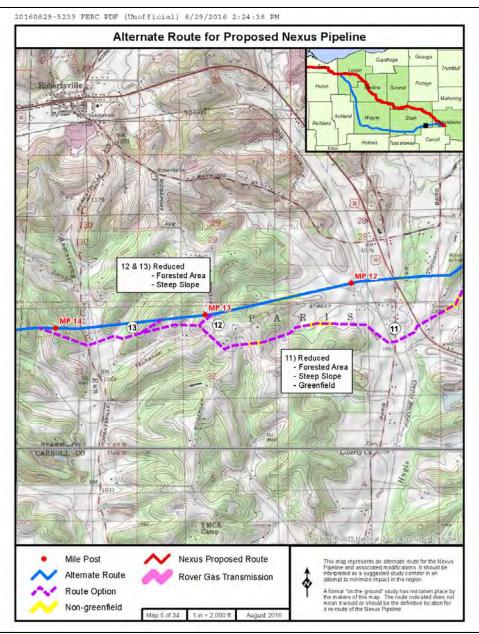


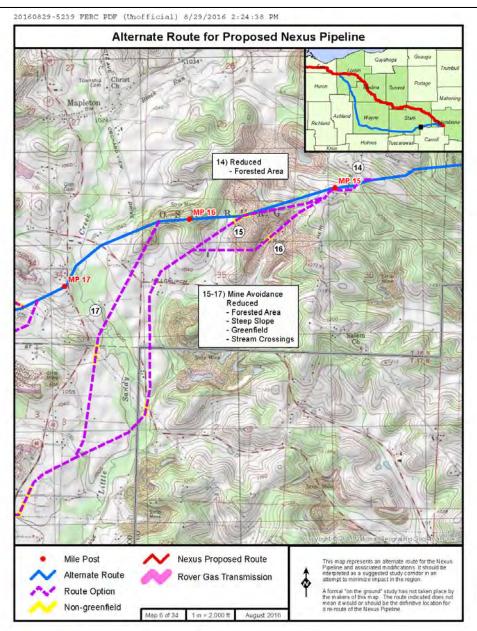
Local Agencies/Elected Officials Comments



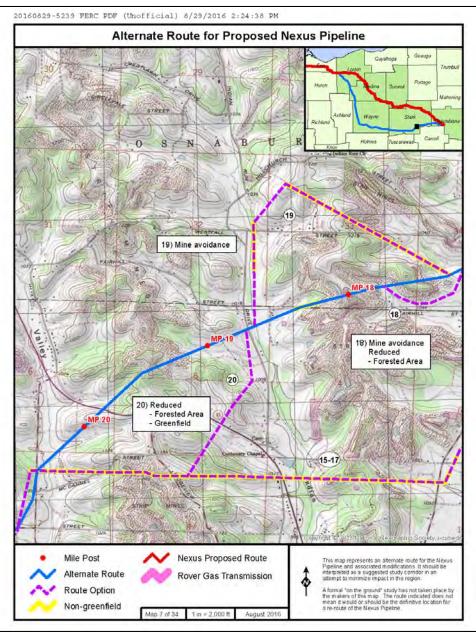




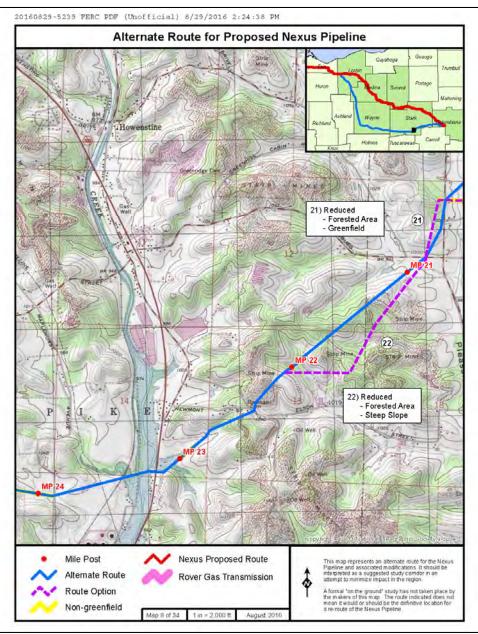


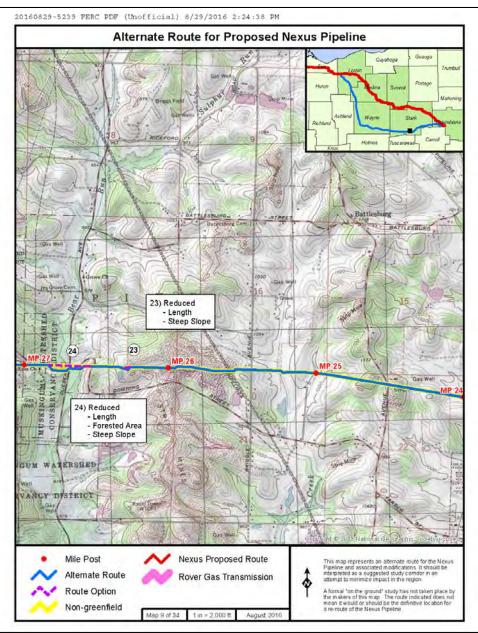


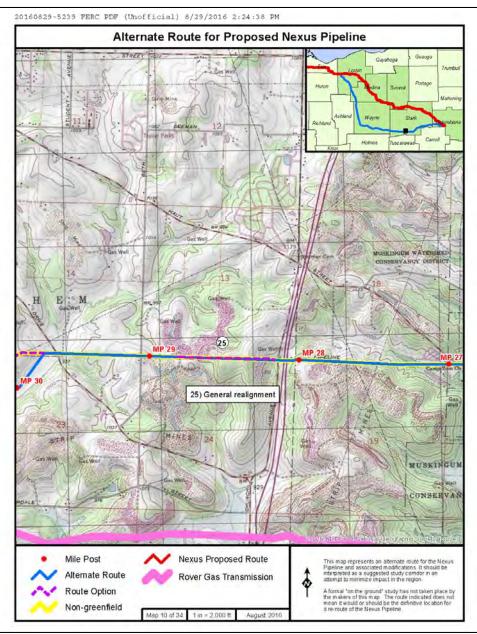
LA14 – Gerard Neugebauer, Mayor, Wayne Wiethe, Director of Planning, City of Green

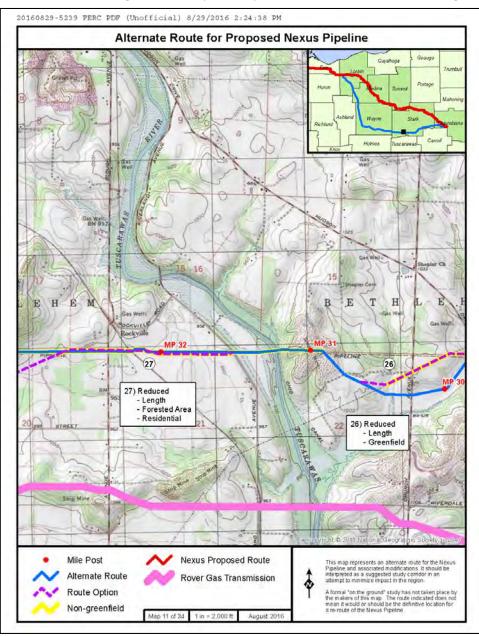


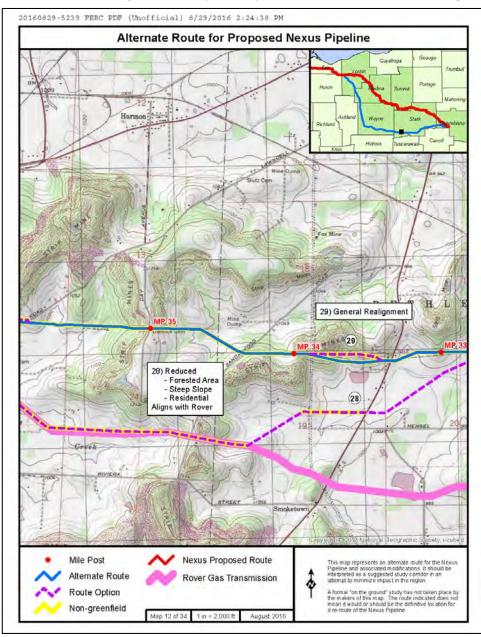
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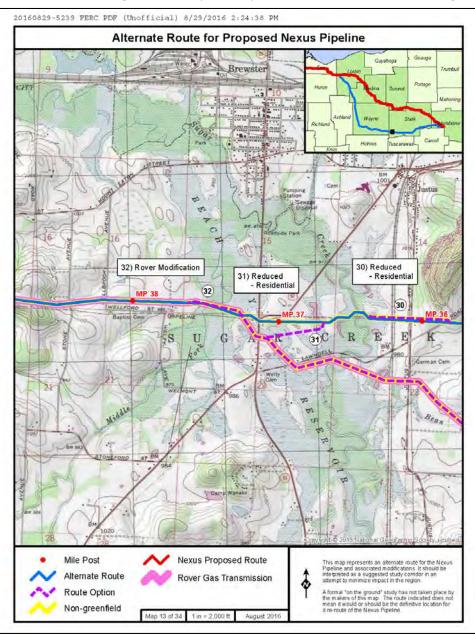




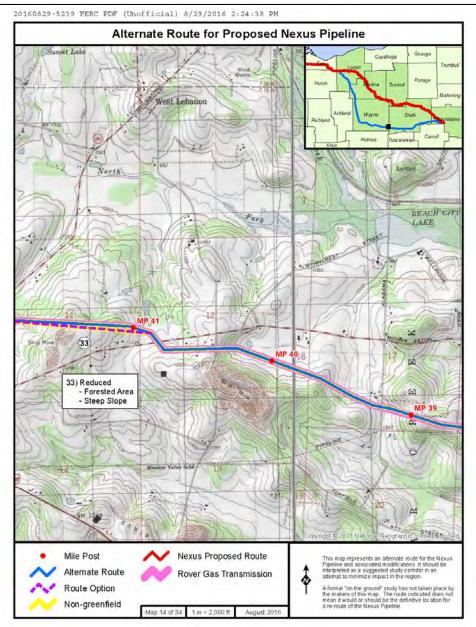




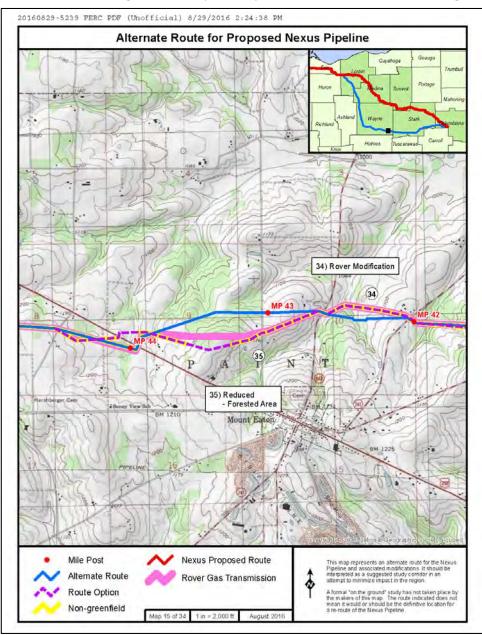




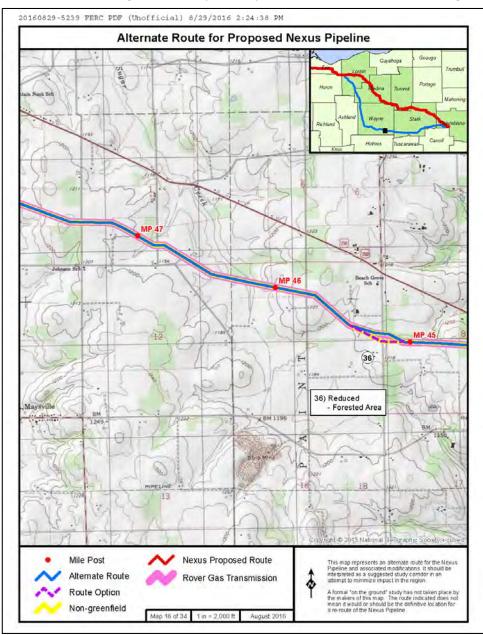
LA14 – Gerard Neugebauer, Mayor, Wayne Wiethe, Director of Planning, City of Green

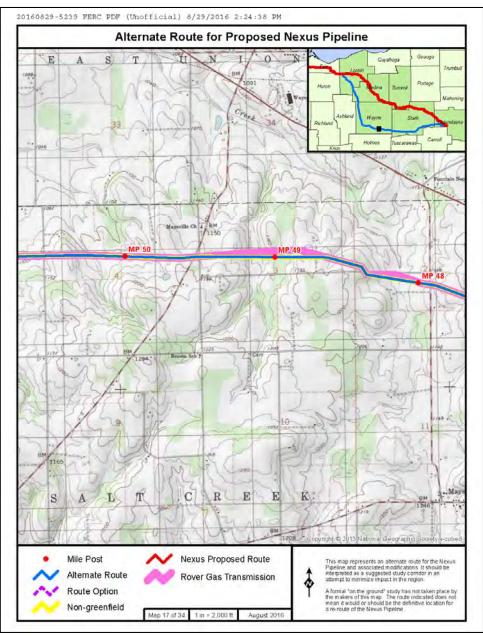


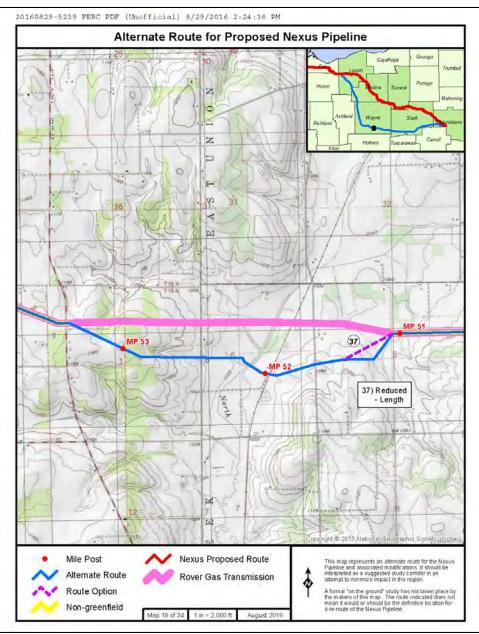
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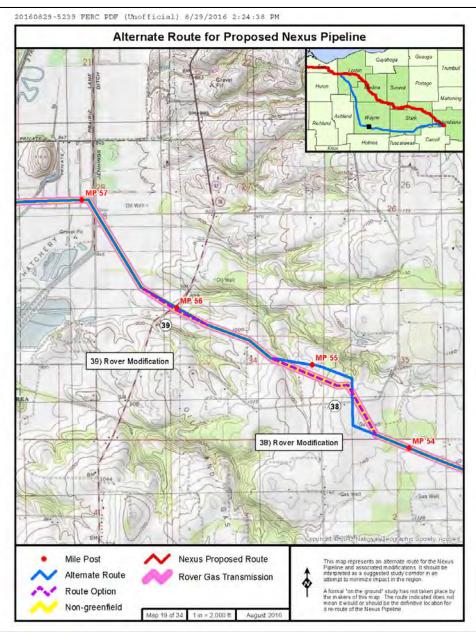


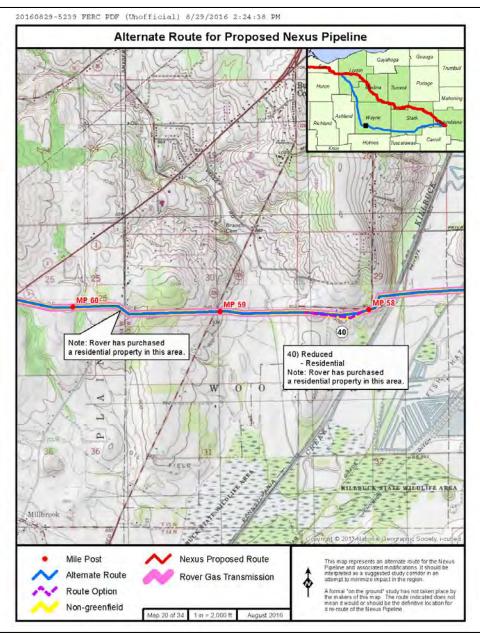
Local Agencies/Elected Officials Comments



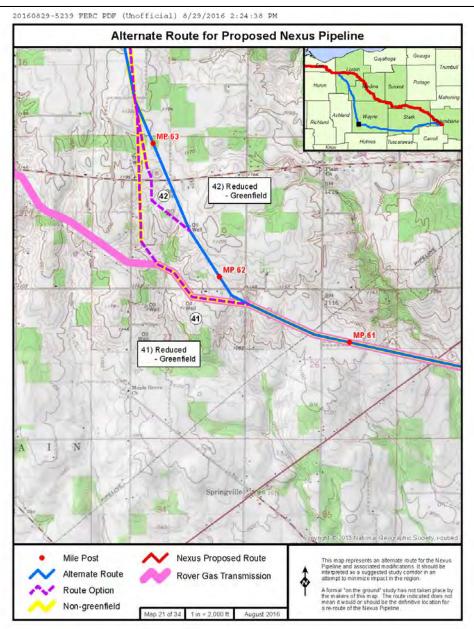




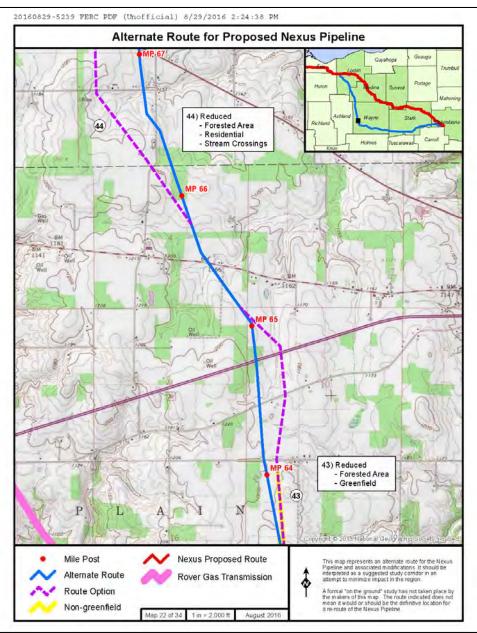


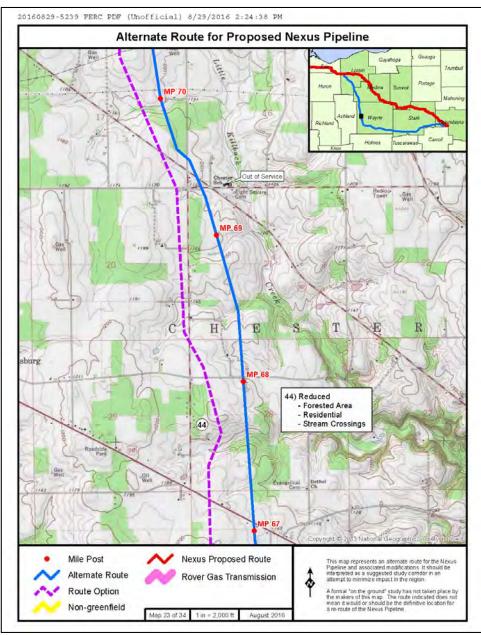


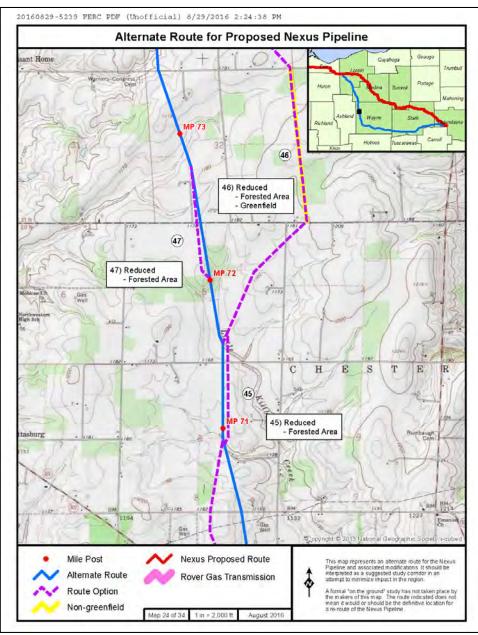
LA14 – Gerard Neugebauer, Mayor, Wayne Wiethe, Director of Planning, City of Green



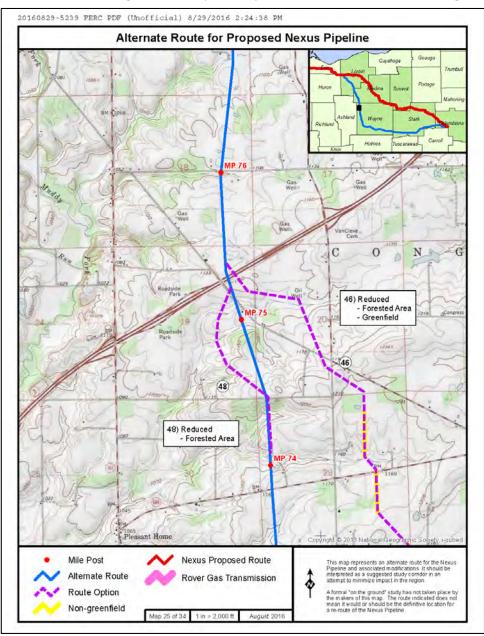
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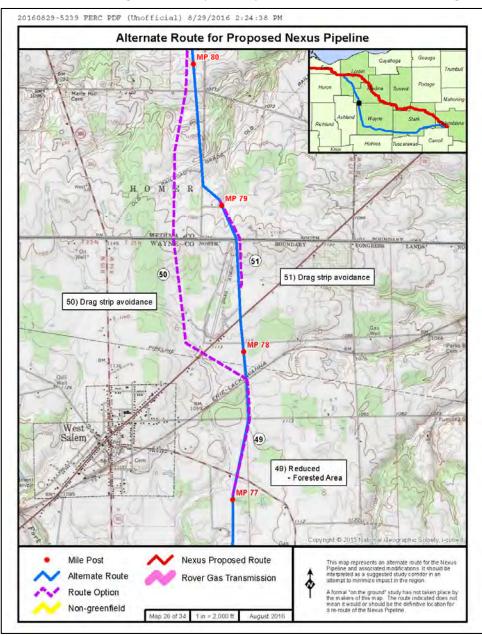






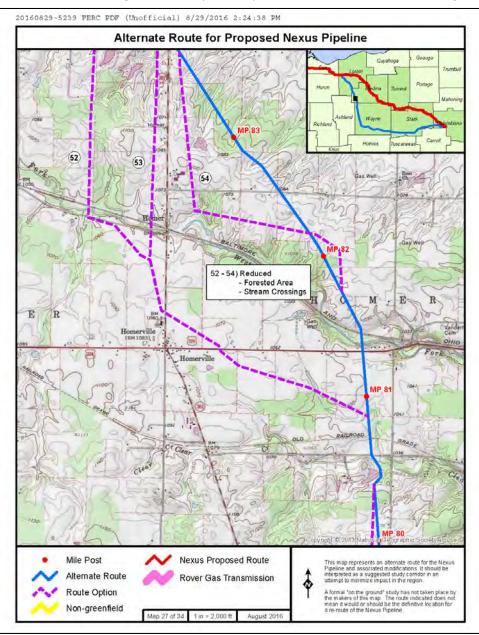
Local Agencies/Elected Officials Comments



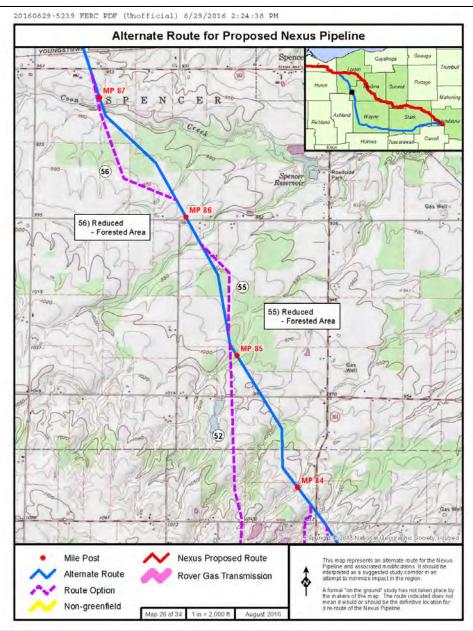


Local Agencies/Elected Officials Comments

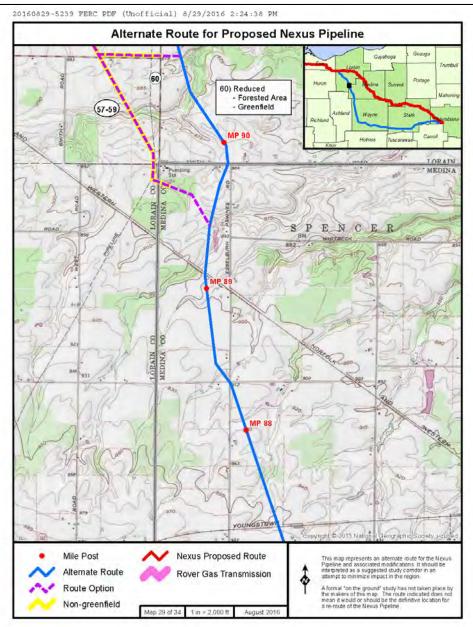
LA14 – Gerard Neugebauer, Mayor, Wayne Wiethe, Director of Planning, City of Green



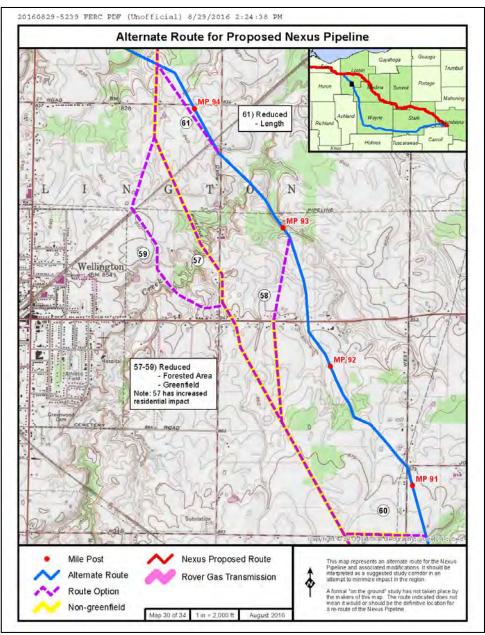
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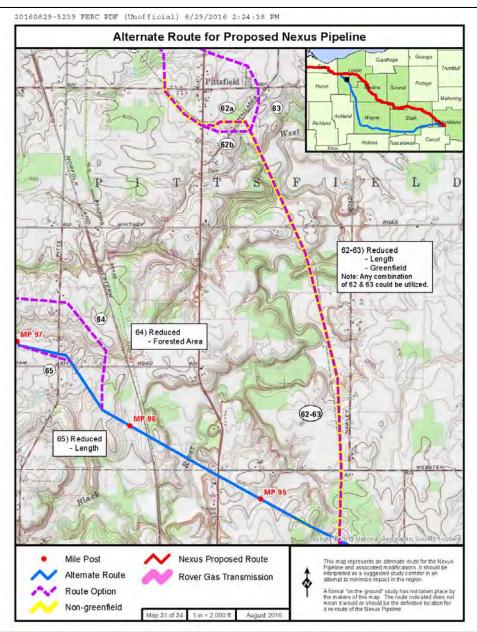


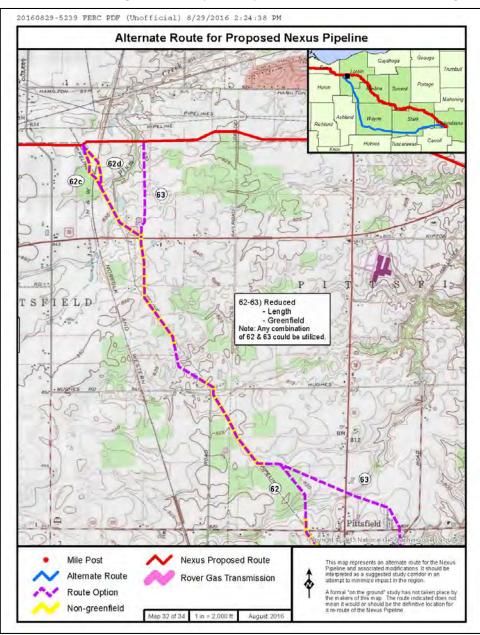
LA14 – Gerard Neugebauer, Mayor, Wayne Wiethe, Director of Planning, City of Green

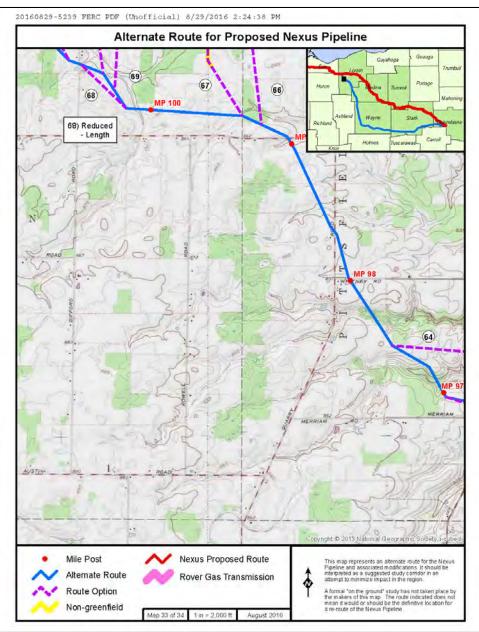


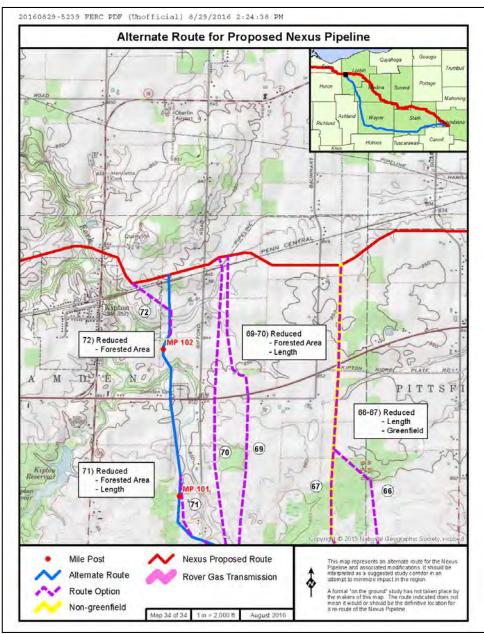
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#### BEFORE THE UNITED STATES FEDERAL ENERGY REGULATORY COMMISSION

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NEXUS Gas Transmission, LLC Texas Eastern Transmission, LP DTE Gas Company Vector Pipeline LLP Docket No. CP16-22-000 Docket No. CP16-23-000 Docket No. CP16-24-000 Docket No. CP98-135-000

#### COMMENTS OF THE CITY OF OBERLIN, OHIO ON THE DRAFT ENVIRONMENTAL IMPACT STATEMENT (DEIS) FOR NEXUS PROJECT

#### OVERVIEW

On July 8, 2016, the Federal Energy Regulatory Commission (Commission) released for public comment the draft environmental impact statement (DEIS) for the NEXUS Gas Transmission Project, Docket No. CP16-22 and three other related segments, which concludes that the proposed infrastructure project will have less than significant environmental impacts so long as the Applicants' proposed mitigation measures along with staff's recommendations are incorporated as conditions of the certificate.

LA15-1 The City of Oberlin, Ohio disagrees with the DEIS's finding of no significant impact and continues to oppose the NEXUS project. As an initial matter, the DEIS is legally insufficient under the National Environmental Policy Act (NEPA) and the Council on Environmental Quality (CEQ) regulations because it uncritically accepts the Applicants' asserted purpose for the project instead of evaluating whether there is a need for the project, as required by NEPA. The DEIS's assumption that a project need exists biased the DEIS's analysis of project

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LA15-1	alternatives, for example, leading to rejection of the no-action alternative
cont'd	which is the only logical alternative in the absence of project need. In addition,
	the Applicant bears a greater obligation to avoid adverse impacts to landowners
	under the Certificate Policy Statement <sup>1</sup> when project need is not compelling-
	and thus, had the DEIS found minimal project need, it would have no choice but
	to adopt the City of Green alternative (which avoids populated areas and impacts
	to landowners) as the overwhelmingly superior option – rather than merely
	"comparable." (DEIS at 3-27).

LA15-2In the event that the Commission approves the project, adopting the City<br/>of Green's alternative would also address the substantial safety risks that the<br/>NEXUS pipeline poses for the City and its residents. Although the DEIS adopted<br/>the Reserve Avenue Route Variation (DEIS at 3-75), which moves the pipeline<br/>slightly north and co-locates it with an existing utility, this alternative remains<br/>highly problematic from a safety perspective, as discussed in greater detail in<br/>these comments. Moreover, even though the NEXUS pipeline is governed byLA15-3federal safety guidelines, the DEIS must nevertheless evaluate the project's<br/>departure from local regulations – specifically Section 521.13(b)(3) of the Oberlin

<sup>1</sup> Certification of New Interstate Natural Gas Pipeline Facilities, Statement of Policy, 88 FERC ¶61,227 (Sept. 15, 1999); Order Clarifying Statement of Policy, 90 FERC ¶61,128 (Feb. 9, 2000); Order Further Clarifying Statement of Policy, 92 FERC ¶61,094 (July 28, 2000).

2

- LA15-2 Section 4.13 addresses safety impacts associated with the proposed Project.
- LA15-3 The proposed pipeline is not a production or distribution facility, and would likely not be considered a "delivery infrastructure". However, should the township view the Project as delivery infrastructure, we note that FERC encourages cooperation between NEXUS and Texas Eastern and state and local authorities; however, state and local agencies, through the application of state and local laws, may not prohibit or unreasonably delay the construction or operation of facilities approved by FERC. Although a local ordinance may not be followed, the impact on safety of pipeline infrastructure is evaluated in section 4.13 of the EIS, considering the federal standards. Incident data demonstrates that pipelines continue to be a safe and reliable means of transporting natural gas and the Project would not result in significant impacts on safety.

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LA15-3 cont'd	Codified Ordinances which prohibit siting of Production and Delivery Infrastructure such as that proposed by NEXUS within City limits.
	minastructure such as that proposed by NEXOS within City mints.
LA15-4	Finally, the new DEIS does not rigorously assess the impact of the project
	on climate change as required by the newly released CEQ guidance, <sup>2</sup> and instead,
	This approach, however, no longer passes muster, as the CEQ guidelines instruct
	federal agencies to quantify greenhouse gas emissions (GHG) associated with all

pending projects -- unless the agency can make a showing that there are no scientific tools available to conduct an accurate assessment.<sup>3</sup> As such, the DEIS analysis of GHG emissions falls short under the new CEQ guidance, and at a minimum, the final EIS must either include a compliant analysis of GHG emissions or make a showing, supported by substantial evidence, that the tools for doing so are unavailable.

COMMENTS

I. OVERVIEW

<sup>2</sup> Council on Environmental Quality, "Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act Reviews," 81 FR 51866 (Aug. 5, 2016) ("CEQ Final Guidance"), *available in full* at https://www.whitehouse.gov/sites/whitehouse.gov/files/documents/nepa\_fina l ghg\_guidance.pdf and https://ceq.doe.gov.

3

LA15-4 The CEQ's recently issued final guidance on addressing GHG emissions and climate change was issued after the draft EIS for these Projects was issued. As such, the final document could not address the final CEQ guidance. The final EIS includes the quantified GHG emissions associated with construction and operation of the Project facilities, including leaks and venting of natural gas, and mitigation measures to reduce methane emissions (see section 4.12.1 of the EIS). The EIS also addresses climate change impacts in section 4.14.8.9 of the EIS. See also the response to comment FA2-40.

<sup>&</sup>lt;sup>3</sup> However, the CEQ has compiled a wide variety of such tools for agencies' use. See <u>https://ceq.doe.gov/current\_developments/ghg-accountingtools.html</u> (making a "non-exhaustive compilation of greenhouse gas (GHG) accounting tools, methodologies, and reports available.")

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After NEXUS filed its application on November 22, 2015, the City filed a motion to intervene in opposition to the project, and has submitted two rounds of comments raising additional objections.<sup>4</sup> The City's filings criticized the project as (a) unnecessary, because the project is not fully subscribed; and (b) unsafe, given its proximity to a residential neighborhood along Reserve Avenue and other public facilities, and questioned whether adequate protection was available to protect water supply wells within the vicinity of the project. Recognizing that the Commission might approve the project over the City's objections, as a fallback position, the City supported the City of Green's route variation as a preferred alternative, in the event that the project was approved.<sup>5</sup>

<sup>5</sup> In its June 7, 2016 comments (at 4-5), the City challenged NEXUS' requested 14 percent return on equity (ROE) as excessive and inconsistent with the Commission precedent. *See* Comments, June 7, 2016 at 4-5. The City does not repeat these comments here because review of the project's financial structure is outside the scope of environmental review under NEPA. However, the Commission must address the City's objections to the proposed ROE as part of any final decision on the proposed project. In short, the City does not waive this argument simply because it is not addressed here.

4

<sup>&</sup>lt;sup>4</sup> City of Oberlin Motion to Intervene (December 28, 2015), FERC Access No. 20151228-5242 (commenting on lack of project need given undersubscription and development of other pipelines in Ohio and emphasizing safety concerns resulting from project proximity to Reserve Avenue, a residential development and seeking adoption of City of Green alternative route); *accord*, City of Oberlin Comments (May 20, 2016), FERC Access No. 20160523 and June 7, 2016, FERC Access No. 2016607.

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Although the DEIS tepidly proposes some changes to the project (most notably, requiring some additional consideration of the City of Green route alternative and a route modification away from Reserve Avenue that NEXUS opposes), overall, the DEIS does not satisfactorily resolve the City's objections to the project based on lack of need and safety. Nor does the DEIS evaluate GHG emissions, as required by the new CEQ guidance. These objections are discussed in additional detail below.

### II. LACK OF PROJECT NEED AND IMPACT ON CONSIDERATION OF ALTERNATIVES

LA15-1 A. Overview of Significance of Establishing Project Need

Under both NEPA and the NGA, an Applicant must establish that there is both a public need for the project and that it is in the present and future public necessity and convenience. The Applicant bears the burden of proof in demonstrating that it satisfies the requirements of Section 7. *See Michigan Consolidated Gas Co. v. Federal Power Comm'n.*, 283 F.2d 204, 214 (D.C. Cir. 1960). With respect to NEPA, project purpose and need are relevant because "the goals of an action delimit the universe of the action's reasonable alternatives," and enable agencies to exclude from consideration those alternatives that will

not achieve the purpose of the project.<sup>6</sup> Courts will not abide an agency's failure

<sup>&</sup>lt;sup>6</sup> See generally, Theodore Roosevelt Conservation P'ship v. Salazar, 661 F.3d 66, 73 (D.C. Cir. 2011) (finding that BLM did not impermissibly narrow project goals to artificially limit consideration of alternatives); also Fuel Safe v. 5

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LA15-1 cont'd

5-1 to consider an alternative that is consistent with the project's purpose. See 'd Western Watersheds Project v. Abbey, 719 F.3d 1035, 1050 (9th Cir. 2013)(remanding BLM's EIS for failure to consider reduced or no-grazing scenario as viable alternatives consistent with project purpose).

Although agencies have considerable discretion in defining a project's purpose, courts will reverse an agency decision based on an EIS that defines project purpose so narrowly as to foreclose consideration of viable project alternatives. Such was the case in *Simmons v. U.S. Army Corps of Engineers*, 120 F.3d 664 (C.A.7 1997). There, the United States Army Corps of Engineers (Corps) prepared an EIS that evaluated the impacts of a new dam and reservoir to supply the City of Marion, Illinois with water. The Corps defined the project purpose as "creation of a single source to supply the City of Marion and Lake Egypt water districts with water. *Simmons*, 120 F.3d at 669. As a result of its definition of project purpose, the Corps did not explore other alternatives such as interconnecting the City's water-treatment plant with an existing water pipeline nearby - since that approach would not create a new supply source consistent with the project's purpose. The Seventh Circuit found that Corps' project purpose unreasonably restrictive, Concluded the court:

If NEPA mandates anything, it mandates this: a federal agency cannot ram through a project before first weighing the pros and cons of the alternatives. In this case, the officials of the Army Corps

*FERC*, 389 F.3d 1313 (10th Cir. 2004)(accepting need for pipeline to provide electricity on Vancouver Island and finding purpose was not unduly narrow).

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LA15-1 cont'd of Engineers executed an end-run around NEPA's core requirement. By focusing on the single-source idea, the Corps never looked at an entire category of reasonable alternatives and thereby ruined its environmental impact statement.

*Id.* at 670. *See also 1000 Friends of Wisconsin v. U.S. Department of Transportation*, Case No. 11–0545, (ED Wis. May 22, 2015) (finding that revised data showed that project purpose was changed, and was no longer needed and therefore, the agency should have considered more benign alternative).

Simply stated, the project purpose and need statement frames the range of alternatives that must be considered and provides the basis for what alternatives can be discarded. If there is no clear purpose and need, or if the project's purpose is too narrowly defined - as in *Simmons* - then any subsequent alternative analysis is foundationally flawed.

Proof of need is equally significant under the NGA which authorizes the Commission to grant certificates only if projects are "required by the present and future public necessity and convenience." 15 U.S.C. §717f(e). The Commission assigns the applicant the burden of proof to establish that a certificate is in the public necessity and convenience under Section 7 of the Natural Gas Act. *See Sunray Mid-Continent Oil v. FPC*, 364 U.S. 137, 158 (1960) (finding that Commission was reasonable to require applicant to prove need for a limited certificate).

To assess whether a project meets the statutory "public necessity and convenience" standard, the Commission, pursuant to its *Certificate Policy* 

<sup>7</sup> 

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LA15-1 cont'd

Statement,<sup>7</sup> balances a project's benefits, such as need against burdens imposed on customers and property owners.<sup>8</sup> Finally, a showing of "public need" (as opposed to "private need") is constitutionally imperative since the Section 7f(h) of the NGA empowers certificate holders to exercise the power of eminent domain. Absent public need, Section 7f(h) would violate the Fifth Amendment's prohibition on takings of property for private gain.

Finally, accurately assessing project need establishes a context for environmental review – a key factor in determining the significance of a project's impacts.<sup>9</sup> Evaluating a project under the *Certificate Policy Statement*, the Commission balances public need for the project with harm to the environment<sup>10</sup>, landowners and captive ratepayers. The Commission adopts a

<sup>9</sup> See CEQ Regulations, 40 C.F.R. \$1508.26 (defining significant impacts to be determined with respect to context and intensity.

<sup>10</sup> Unlike NEPA, which is primarily procedural in nature, this is a substantive requirement under the NGA and not simply a perfunctory, procedural requirement. This means the Commission has to go beyond taking a hard look at the environmental harms and substantively ensure there has been a balancing of public need and the harms. Considering there has been no demonstration of need, the Commission has not and cannot complete this balancing.

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<sup>&</sup>lt;sup>7</sup> Certification of New Interstate Natural Gas Pipelines, 88 FERC §61,227 (1999), clarified, 90 FERC §61,227 (1999), further clarified, 92 FERC 61,094 (2000) (Certificate Policy Statement).

<sup>&</sup>lt;sup>8</sup> Certificate Policy Statement at 25 ("The amount of evidence necessary to establish the need for a proposed project will depend on the potential adverse effects of the proposed project on the relevant interests.").

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LA15-1 cont'd "sliding scale" assessment – meaning that it may tolerate more significant environmental and landowner impacts associated with a project that meets a crucial need, whereas, these same impacts might not be considered acceptable for a project of only marginal necessity.<sup>11</sup> In other words, the need for the project establishes the lens through which environmental impacts are evaluated; absent an assessment of need in the DEIS, the context for measuring the significance of environmental impacts is lost.

B. Instead of Evaluating Project Need, the DEIS Accepts the Applicant's Stated Purpose At Face Value.

The DEIS adopts the Applicant's project purpose. The DEIS recites that "the purpose of the project would be to transport 1.5 decatherms/day (Dt/day) of Appalachian Basin shale gas, including Utica and Marcellus shale gas, to markets in northern Ohio, southeastern Michigan and Dawn, Ontario. NEXUS states that the need for the project originates from an increased demand for natural gas in the region for electric generation, industrial use coupled with a decrease in imports." DEIS, Section 1.1.1.

9

<sup>&</sup>lt;sup>11</sup> Turtle Bayou Gas Storage Co., LLC, 135 FERC ¶61233, 62301, P.34 (June 16, 2011) ("The generalized showing made by Turtle Bayou does not outweigh the impact on the landowner ... needed to develop the proposed project... Therefore, we cannot find that Turtle Bayou's proposed project is required by the public convenience and necessity, and we deny its request for certificate authority to construct and operate its project."); *Pac. Connector Gas Pipeline, Lp Jordan Cove Energy Project, L.P.*, 139 FERC ¶ 61040, 61174 (Apr. 16, 2012) (vacating Certificate on the grounds that the need for the proposed facility no longer outweighed the impacts)

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LA15-1 cont'd

That the Applicants aspire to build a pipeline with a L5 dt/day capacity does not make it so. As the DEIS describes, despite several open seasons, only 835,000 dt/day in capacity is under firm contract – just a little more than fifty percent. Moreover, all of the project shippers are confidential, making it impossible to analyze or verify whether contracts have actually been executed<sup>12</sup> or whether the gas is destined for a local utility to serve end users, for sale in open markets or overseas. The anonymity of the shippers is troubling for a second reason: the Commission's Certificate Policy Statement holds that affiliate contracts are less probative of public need than those negotiated at arms' length.<sup>13</sup> Yet without the names of project shippers, the public cannot figure out whether they are affiliates of, or have other vested interests in the project. The Commission should reject the project on this basis alone.

The DEIS states that the Commission will ultimately assess whether there is a need for the project, and that the purpose of the DEIS is merely to evaluate the Applicant's proposal as presented. DEIS at Section 1.1.1. But the DEIS is internally inconsistent on this point because it then goes on to selectively evaluate certain pieces of the proposed project, finding some mission-critical to the project

 $^{13}\,$  Certificate Policy Statement, 88 FERC  $\P$  61227, 61748 (discussing affiliate agreements).

 $<sup>^{12}</sup>$  Under the Certilicate Policy Statement, contracts for the project's full capacity are strong evidence of project need; however, at a minimum, the Commission expects that contracts, if used as proof of need, will be filed with the Commission. Policy Statement, 88 FERC ¶ 61227, 61748 (Sept. 15, 1999).

<sup>10</sup> 

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LA15-1
cont'd

has 6 "definitive receipt and delivery points" that are essential to the Project objective, while the 13 tee-tap sites are not essential (DEIS at 1-4) – even though NEXUS had originally argued that the tee-tap locations were crucial to enable NEXUS to deliver gas to power plants and other potential customers. Yet, if the DEIS was able to conclude that the tee-taps are not necessary to the project objective of delivering 1.5 million dt/day of gas, why couldn't it likewise conclude that a 255mile, 36 inch pipeline is also non-essential to the project purpose, when a smaller pipeline or some other alternative could suffice to serve the capacity actually under contract?

objectives while deeming others non-essential. Thus, the DEIS concluded that the project

Because of the lack of need for the NEXUS project, the project must satisfy a much higher bar for avoiding environmental damage. Yet, the DEIS never takes this into account. Instead, the DEIS gives short shrift to consideration of safety impacts to the City, or the City's ability to develop property if encumbered by a pipeline. Given that the project at best satisfies a marginal need, the potential damage to the safety and welfare of City residents simply cannot be justified.

## C. The Erroneous Assessment of Need Skews The DEIS' Alternatives Analysis.

Even assuming for the sake of argument that the DEIS must only consider the project's purpose rather than need, the DEIS still falls short. By defining the project purpose as providing for 1.5 dt/day of gas, the DEIS adopts an overly restrictive view of the purpose as in *Simmons, supra*. Just as in *Simmons*, the

<sup>11</sup> 

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LA15-1<br/>cont'dSeventh Circuit found that the purpose of the Corps' action was to supply water<br/>to the City of Marion rather than to create a single-source reservoir, here, the<br/>project objective is more appropriately defined as providing for delivery of shale<br/>gas from Marcellus and Utica to contract customers, and *not* as the DEIS suggests,<br/>providing for delivery of 1.5 dt/day of gas. The DEIS' refusal to recognize the<br/>purpose of the project as delivery gas to contract customers and not delivery of<br/>1.5 million dt/day generally need skewed its analysis of project alternatives. For<br/>example, the DEIS rejected six potential system alternatives out of hand finding<br/>that:

The main constraint limiting the viability of these systems is that none of these existing pipelines have capacity available for transporting the required volumes of natural gas needed by the projects and subsequently would also require expansion of facilities. [DEIS at 3-4 to 3-5]

The problem with the DEIS' conclusion, however, is that it assumes that the other systems must have 1.5 million dt/day of available capacity rather than the 835,000 dt/day that the project will actually supply to contract customers.

The DEIS' failure to determine whether there is a need for a 1.5 million dt/day capacity pipeline also informed its rather tepid conclusion that the City of Green alternative route is "comparable" to the Applicant's preferred alternative. Had the DEIS acknowledged that the project is substantially overbuilt, the City of Green alternative would have emerged as an overwhelmingly superior alternative because it would avoid impacts to populated areas and individual properties that could not

<sup>12</sup> 

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LA15-1 otherwise be justified in light of the lack of contractual commitments for the project, which are evidence that it is not needed.

#### LA15-2 III. THE DEIS DOES NOT ADEQUATELY ADDRESS SAFETY CONCERNS OR INCOMPATIBILITY OF THE PROJECT WITH LOCAL SITING RULES TO PROTECT SAFETY

#### A. The DEIS does not address safety concerns.

The City's Motion to Intervene and June 7, 2016 comments extensively document the safety concerns raised by the project's proximity to Reserve Avenue and other public facilities. The DEIS does not address any of the City's concerns about safety – either increased risks to residents or potential cost burdens on the City if its Fire Department or law enforcement are called upon as a first responders.

Nevertheless, the DEIS recommends a route modification known as the Reserve Avenue Route Variation which diverges from the mainline at MP 94.6 and rejoins at MP 96, thereby avoiding the residential development. (DEIS at 3-75). The new route was not motivated by safety concerns (as the DEIS takes the position that the pipeline will be safe regardless of population density) but instead to accommodate a landowner concerned about the pipeline's impact on property valuation. Although the new route is slightly farther from the homes along Reserve Avenue, it still does little to abate the danger.

Regardless of whether the pipeline is located along the north boundary of the Reserve Avenue subdivision or whether it were to be located in accordance

13

LA15-1 Although the EIS briefly discusses NEXUS' and Texas Eastern's stated purposes, it does not determine whether the need for the Projects exists. The need for the Project will be determined separately by the Commission when it makes its decision on the Projects (sometime after the Final EIS is issued). Additional discussion about the need for the Projects is in section 1.1 of the EIS and is also available in the Commission's Statement of Policy on the Certification of New Interstate Natural Gas Pipeline Facilities, which can be found on the FERC website at http://www.ferc.gov/legal/maj-ordreg/PL99-3-000.pdf. Clarifying statements can be found by replacing "000" in the URL with "001" and "002."

LA15-2 Section 4.13 addresses safety impacts associated with the proposed Project.

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LA15-2	with FERC's accommodation of the property owner's request, the threat to safety,
cont'd	health and well-being of the City's inhabitants remains unabated. In either case,
	there remains within the High Consequence Area and Potential Impact Circle:
	multiple residential dwellings; a fire station; a recreation complex containing
	several ballfields; the Splash Zone, a public exercise and swimming facility
	operated by the Lorain County Metroparks; a dog park; the Welcome Nursing
	Home; and a rehabilitative residential group home. All of these structures would
	be significantly affected, if not destroyed outright, in the event of a pipeline
	breach or explosion. Although the actual siting of the pipeline within City limits
	is confined to a relatively small area, (still subject to the City's prohibition of the
	citing of Production and Delivery Infrastructures), the real and palpable threat to
	the City, it residents, public facilities and first responders are of great concern to
	the City.
LA15-3	B. The DEIS does not take into account the effect of the project's

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# B. The DEIS does not take into account the effect of the project's incompatibility with local regulations on the intensity of the safety impacts.

Even though the pipeline is subject to federal safety guidelines rather than state or local laws, the DEIS must still analyze the effect of ignoring local regulations on the overall intensity of project impacts. The CEQ regulations state that in reviewing the intensity of project impacts, an agency must examine "whether the action threatens a violation of Federal, State, or local law or

14

LA15-3 See section 1.5 for a discussion of local zoning. FERC encourages cooperation between NEXUS and Texas Eastern and state and local authorities; however, state and local agencies, through the application of state and local laws, may not prohibit or unreasonably delay the construction or operation of facilities approved by FERC.

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LA15-3 requirements imposed for the protection of the environment." 42 C.F.R. cont'd \$1508.26(10).14

The City Code – specifically Section 521.13(b)(3) of the Oberlin Codified Ordinances (Attached as Exh. 1) –– prohibits siting of delivery structure such as that proposed by NEXUS within City limits. The ordinance is intended to protect the health and safety of residents by keeping potentially dangerous or environmentally harmful utility infrastructure outside of the City and as far away as possible from residents. The DEIS does not evaluate the impact of decimating that protective barrier as a result of siting the pipeline in City limits, in contravention of its ordinance. Depriving citizens of this protection afforded by their locality leaves them defenseless against the pipeline's risk, thereby heightening the intensity of the adverse impacts and making them significant within the meaning of the CEQ regulations.<sup>15</sup> At a minimum, the final EIS must take into account the intensified adverse effects of siting a pipeline where it is otherwise prohibited. Alternatively, the final EIS could avoid addressing these issues by adopting the City of Green alternative route.

15

<sup>&</sup>lt;sup>14</sup> In determining whether a project will have "significant" impacts, the CEQ regulations instruct agencies to consider both the context and intensity of the impacts. 42 C.F.R. §1508.26(a).

<sup>&</sup>lt;sup>15</sup> National Parks & Conservation Ass'n v. Babbitt, 241 F. 3d 722 (9th Cir. 2001)(finding EIS required for Park Service's authorization of tourist boats in Glacier Bay given intensity of impacts in context of unique and fragile environs).

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#### LA15-4 VI. THE DEIS MUST BE UPDATED TO CONFORM TO THE NEWLY-RELEASED CEQ REGULATIONS ON CLIMATE CHANGE.

#### A. Background on CEQ Guidance.

On August 2, 2016, CEQ finalized its guidance on how federal agencies should take GHG emissions and climate change impacts into account when conducting their NEPA review.<sup>16</sup> Going forward, agencies must now quantify and analyze the direct and indirect climate change impacts from a given project using GHG emissions as a proxy for climate change impacts. The Guidance directs agencies to look at the life-cycle GHG emissions of a project, including upstream activities, like natural gas extraction and downstream activities such as the foreseeable results of the project such as burning gas after transport. Finally, the Guidance requires agencies to quantify GHG emissions unless they can demonstrate that no tools exist for doing so. The quantification requirement prevents agencies from casually dismissing climate change impacts as overly speculative.

The DEIS preceded issuance of the final guidance and therefore, the Commission did not follow the CEQ guidance in its analysis. Although the guidance is not retroactive to projects with a final EIS in place, agencies are encouraged to apply the Guidance on projects moving forward if the additional

<sup>16</sup> Per the Federal Register Notice of Availability, the CEQ Final Guidance became effective August 5, 2016. 81 FR 51866 (Aug. 5, 2016).

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LA15-4 Comment noted.

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LA15-4 time and resources would be proportionate to the value of the information cont'd included – as is the case here.<sup>17</sup>

#### B. Commission's treatment of climate change impacts

The DEIS summarily disregards the project's climate change impacts, finding that the emissions from the NEXUS and TEAL developments are so small that they have little impact on climate change, and that a lifecycle analysis would be speculative. DEIS at ES-15. Per the CEQ Final Guidance, this is not an appropriate approach. <sup>18</sup> However, the DEIS' analysis is incomplete in any event, as it does not take into account either emissions directly related to non-jurisdictional upstream actions such as extraction from Marcellus Shale.<sup>19</sup>

<sup>18</sup> CEQ Final Guidance, at 11 (a statement that emissions from a proposed Federal action represent only a small fraction of global emissions is essentially a statement about the nature of the climate change challenge, and is not an appropriate basis for deciding whether or to what extent to consider climate change impacts under NEPA.")

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<sup>&</sup>lt;sup>17</sup> CEQ Final Guidance, at 34 (agencies should apply the Guidance "to projects in the EIS or EA preparation stage if this would inform the consideration of differences between alternatives or address comments raised through the public comment process with sufficient scientific basis that suggest the environmental analysis would be incomplete without application of the guidance, and the additional time and resources needed would be proportionate to the value of the information included.")

<sup>&</sup>lt;sup>19</sup> CEQ Final Guidance, at 16 n.42 ("[W]here the proposed action involves fossil fuel extraction, direct emissions typically include GHGs emitted during the process of exploring for or extracting the fossil fuel. The indirect effects of such an action that are reasonably foreseeable" include the combustion of that fuel).

<sup>17</sup> 

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LA15-4 cont'd The City's Motion to Intervene made the case that the Commission must consider the effects of induced production at Marcellus Shale given the project's purpose of transporting Marcellus gas to Canada. Motion at 14. The DEIS concedes as much because it acknowledges the cumulative impacts of resulting from Marcellus shale development, particularly on forest fragmentation and air quality. *See* Cumulative Impacts Discussion, DEIS Section 4.14. However, the DEIS cannot, on one hand, identify Marcellus Shale impacts as "cumulative" (meaning that they are directly related to the project) on the one hand, while failing to quantify the likely-considerable and non-speculative GHG emissions associated with extraction on the other, as required by the new CEQ guidelines.<sup>20</sup>

Even though the GHG emissions associated with the pipelines alone may be negligible, the emissions levels become far more significant when adding in directly related cumulative actions such as Marcellus Extraction<sup>21</sup> -- that the DEIS itself evaluated (albeit in cursory fashion) as part of its analysis of impacts on forest and groundwater. Because the DEIS does not attempt to quantify

<sup>&</sup>lt;sup>20</sup> CEQ Final Guidance at 16 ("If the direct and indirect GHG emissions can be quantified based on available information, including reasonable projections and assumptions, agencies should consider and disclose the reasonably foreseeable direct and indirect emissions when analyzing the direct and indirect effects of the proposed action.").

<sup>&</sup>lt;sup>21</sup> See, e.g. Office of Fossil Energy, Nat'l Energy Tech. Lab., U.S. Dep't of Energy, *Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States*, Pub. No. DOE/NETL-2014/1649 (2014), available at http://energy.gov/sites/prod/files/2014/05/f16/Life%20Cycle%20GHG%20Pers pective%20Report.pdf.

<sup>18</sup> 

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LA15-4 emissions associated with Marcellus extraction and disregards the effect of GHG cont'd emissions as speculative without any explanation, the DEIS is arbitrary, capricious and inconsistent with the new GHG guidance.

#### CONCLUSION

The City continues to vigorously oppose the NEXUS pipeline. As shown in these comments, the Applicant, which bears the burden of proof, has utterly failed to demonstrate a need for this woefully undersubscribed project that will permanently encumber the City's property with infrastructure guaranteed to be abandoned in short order. At a minimum, should the Commission opt to approve this ill-advised project, notwithstanding the enormous safety consequences and potential impacts on climate change (which required further analysis), it must adopt the City of Green alternative route which would avoid the City and other highly populated areas, thus somewhat minimizing some of the project's most significant impacts.

Respectfully submitted.

Caroup Elefal

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Exhibit 1

## City of Oberlin Ordinance

Local Agencies/Elected Officials Comments

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#### 521.13 OPERATIONS AND BYPRODUCTS OF OIL AND GAS EXTRACTION.

(a) Definitions.

(1) "Chemical Trespass" shall mean the involuntary deposition of toxic or potentially toxic substances within a human body, natural community or ecosystem.

(2) "Corporation" for purposes of this section, shall include any corporation, limited partnership, limited liability partnership, business trust, other business entity, or limited liability company organized under the laws of any state of the United States or under the laws of any country.

(3) "Disposal" shall include, but not be limited to, the depositing, storage, treatment, recycling, injection, or by any other means, the distribution or depositing of brine, produced water, frack water, tailings or any other waste or by-product of corporate gas or oil extraction upon, into, or onto the land, waterways, air or any area within the jurisdiction of the City of Oberlin.

(4) "Ecosystem" shall include, but not be limited to, wetlands, streams, rivers, aquifers, and other water systems, as well as naturally occurring habitats that sustain humans, wildlife, flora and fauna, and soil-dwelling or aquatic organisms.

(5) "Extraction" shall mean the digging or drilling of a well for the purposes of exploring for, developing, or producing gas or oil or other hydrocarbons.

(6) "Extraction, Production and Delivery Infrastructures" shall mean, but not be limited to, pipelines, processing facilities, waste storage structures, compressors, or storage and transportation facilities used to support the corporate extraction, production or distribution of gas or oil. The term shall not apply to the construction, maintenance or repair of infrastructures used for delivery to residential or business retail end-users of gas or oil.

(7) "Gas" shall mean any gaseous substance, either combustible or noncombustible, which is produced in a natural state from the earth and which maintains a gaseous or rarified state at standard temperature or pressure conditions, and/or gaseous components or vapors occurring in, or derived from, petroleum or so-called "natural" gas.

(8) "Natural Communities" shall mean wildlife, flora, fauna, soil-dwelling and aquatic organisms, as well as humans and human communities that have established sustainable interdependencies within a proliferating and diverse matrix of organisms, within an ecosystem.

(9) "Oil" shall mean any petroleum or fossil fuel substance in a liquid, slurry or viscous state found naturally within subterranean geological formations.

(10) "Procurement of fresh water," for purposes of this law, shall include the drawing of fresh water from anywhere within the City of Oberlin or its jurisdiction for the purpose of exploring for, or extraction of, gas and oil.

(11) "Toxic Substances and Potentially Toxic Substances," for purposes of this section, shall include chemicals or chemical compounds, sludge and waste, radioactive ores, mine tailings, millings, waste liquors and radioactive progeny, particulate matter and/or gasses, that have been found to cause adverse effects to animals, humans, or ecosystems, including those chemicals, chemical compounds, sources of radiation, and all other substances deemed to be mutagenic, neurotoxic, carcinogenic, teratogenic, reproductive or developmental toxicants, or any other toxic chemical or hazardous substance identified by the City of Oberlin Council by resolution subject to this section. The phrase shall specifically include, but shall not be limited to, frack water and materials used in, and resulting from, the extraction of gas or oil.

(b) Prohibitions.

(1) It shall be unlawful for any corporation, or any director, officer, owner, or manager of a corporation to use a corporation, to engage in the extraction of gas or oil within the City of Oberlin, with the exception of gas and oil wells installed and operating at the time of enactment of this section, provided that the extraction of gas or oil from those existing wells does not involve any practice or process not

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previously used for the extraction of gas or oil from those wells at the time of the enactment of this section, and provided that those wells are capped securely when production ceases.

(2) It shall be unlawful for any corporation, or any director, officer, owner, or manager of a corporation to use a corporation, to deposit, store or transport waste water, produced water, frack water, brine or other materials, chemicals or by-products used in the exploration for, or extraction of, gas or oil, within, upon or through the land, air or waters of the City of Oberlin.

(3) It shall be unlawful for any corporation, or any director, officer, owner, or manager of a corporation to use a corporation, to engage in the siting of extraction, production and delivery infrastructures within the City of Oberlin.

(4) Corporations, and persons using corporations, to engage in gas or oil extraction in a neighboring municipality, county or state shall be strictly liable for all harms caused to natural water sources, ecosystems, human and natural communities within the City of Oberlin and for the violation of the rights herein secured.

(5) No permit, license, privilege or charter issued by any State or Federal agency, Commission or Board to any person or any corporation operating under a State charter, or any director, officer, owner, or manager of a corporation operating under a State charter, which would violate the prohibitions of this section or deprive any natural person, natural community, or ecosystem within the City of Oberlin of any rights, privileges, or immunities secured by this section, the Ohio Constitution, the United States Constitution, or other laws, shall be deemed valid within the City of Oberlin.

(c) Enforcement.

(1) Any person or corporation that violates any prohibition of this section shall be guilty of a criminal offense and, upon conviction thereof, shall be sentenced to pay the maximum fine allowable under State law for that violation, and shall be imprisoned to the extent allowed by law. A separate offense shall arise for each day or portion thereof in which a violation occurs and for each section of this section found to be violated.

(2) The City of Oberlin may also enforce this section through an action in equity. In such an action, the City of Oberlin shall be entitled to recover, without limitation, all costs of litigation, including, but not limited to, expert and attorney's fees.

(3) Any natural person who is a resident of the City of Oberlin shall have the authority to enforce this section through an action in equity. In such an action, the resident shall be entitled to recover all costs of litigation, including, without limitation, expert and attorney's fees.

(4) Any natural person who brings an action to secure or protect the rights of natural communities or ecosystems within the City of Oberlin shall bring that action in the name of the natural community or ecosystem in a court of competent jurisdiction. Damages shall be measured by the cost of restoring the natural community or ecosystem to its pre-damaged state, and shall be paid to the City of Oberlin or other applicable governmental entity, to be used exclusively for the full and complete restoration of the natural community or ecosystem. Any natural person or group of natural persons shall have standing to bring an action on behalf of affected natural communities or ecosystems, regardless of the lack of a property relationship between those persons and the affected communities or ecosystems.

(5) Corporations in violation of the prohibitions enacted by this section, or seeking to engage in activities prohibited by this section, shall not have the rights of "persons" afforded by the United States and Ohio Constitutions, nor shall those corporations be afforded rights under the 1st or 5th Amendments to the United States Constitution or corresponding sections of the Ohio Constitution, nor shall those corporations be afforded rights under the United States Constitution or corresponding sections of the Ohio Constitution, nor shall those Constitution or corresponding sections of the Ohio Constitution.

(6) Corporations in violation of the prohibitions enacted by this section, or seeking to engage in activities prohibited by this section, shall not possess the authority or power to enforce State or Federal preemptive law against the people of the City of Oberlin, or to challenge or overturn municipal ordinances

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adopted by the City of Oberlin, when that enforcement or challenge interferes with the rights asserted by this section or interferes with the authority of the Municipality to protect the health, safety, and welfare of the people or environment of the City of Oberlin.

(d) Amendment. Any attempts to use other units and levels of government to preempt, amend, alter, or overturn this section, or parts of this section, shall require the City Council to hold public meetings that explore the adoption of other measures that expand local control and the ability of the people of the City to protect their fundamental and inalienable right to self-government.

(e) Severability. The provisions of this Law are severable. If any court of competent jurisdiction decides that any section, clause, sentence, part, or provision of this section is illegal, invalid, or unconstitutional, such decision shall not affect, impair, or invalidate any of the remaining sections, clauses, sentences, parts, or provisions of the section. The People of Oberlin hereby declare that in the event of such a decision, and the determination that the court's ruling is legitimate, it would have enacted this Law even without the section, clause, sentence, part, or provision that the court decides is illegal, invalid, or unconstitutional. (Approved by voters 11-5-13.)

#### LOCAL AGENCIES/ELECTED OFFICIALS LA16 – Roberta Gleason, Vice President, Chippewa Township Board of Trustees

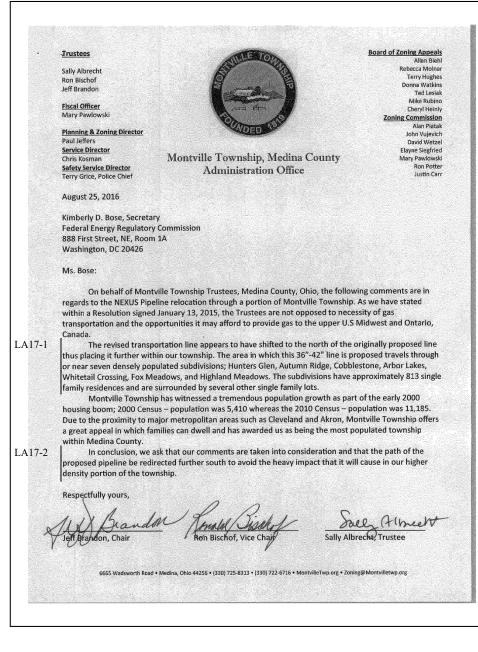


LA16-1 See the response to comment LA3-2.

#### LA17 – Montville Township Trustees

	RAL ENERGY REGULATORY COMMISS		
	XUS GAS TRANSMISSION PROJECT AN		
	EASTERN APPALACHIAN LEASE PRO		
DRAFT ENV	IRONMENTAL IMPACT STATEMENT CO	OMMENTS	
Comments can be: (1) left with a	FERC representative; (2) mailed to the addresses belo	w; or (3) electronic	ally filed.1
	For Official Mail Filing, Send To:		
	Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, NE, Room 1A Washington, DC 20426	2016 Regul	SE
As applicable, please indicate	e the project(s) you are commenting on:	SEP	SH_
	sion Project: Docket No. CP16-22	<mark>ہ</mark> ا	
Texas Eastern Appalaci	hian Lease Project: Docket No. CP16-23	σ	je na se
All of the above	ORIGINAL	555 <b>F</b>	THE
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LA17 – Montville Township Trustees (cont'd)



LA17-1 Pipeline safety in the proximity to residential development is a primary concern raised by many stakeholders. DOT safety standards are intended to ensure adequate protection regardless of proximity to development. The pipelines and aboveground facilities associated with the NGT and TEAL Projects must be designed, constructed, operated, and maintained in accordance with these safety standards. See section 4.13 for a discussion of pipeline reliability and safety.

LA17-2 Comment noted.

LA17 – Montville Township Trustees (cont'd)

The Montville Township Board of Trustees, Medina County, Ohio met in regular session on January 13, 2015 with the following members present: Trustee Albrecht, Trustee Brandon, Trustee Bischof and Fiscal Officer Mary Pawlowski.

Trustee Brandon moved to adopt the following resolution which was seconded by Trustee Albrecht.

#### Resolution #011315.01

WHEREAS, DTE Energy Company and Spectra Energy Corporation, the lead developers of the NEXUS Gas Transmission Pipeline Project, have informed the Montville Township Board of Trustees of a proposed interstate natural gas pipeline expansion project and that this pipeline is being constructed to increase energy supplies to the upper U.S. Midwest and Ontario, Canada, and

WHEREAS, a general study corridor through Montville Township is under consideration for the proposed NEXUS Gas Transmission Project; and

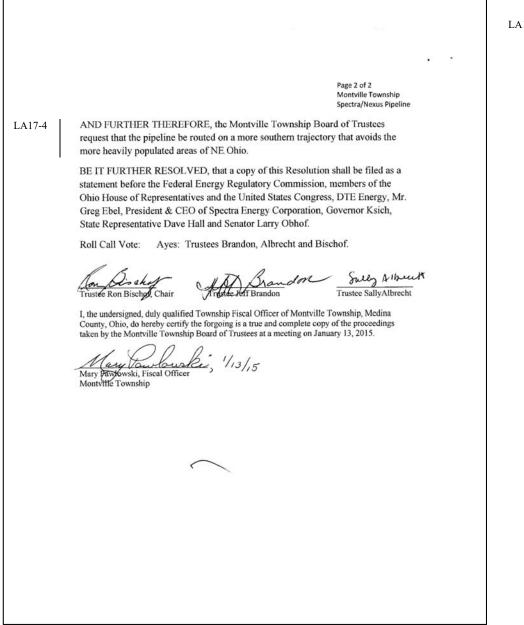
WHEREAS, Spectra Energy Corporation has made a goal and commitment to positively impact the communities where they operate and where their employees live; and to environmental stewardship in which their core values include respect for the individual, community investment, open communication and commitment to safety.

AND WHILE the Montville Township Board of Trustees <u>do not oppose</u> the proposed interstate NEXUS Gas Transmission Pipeline Project and all of the opportunities it may afford to provide gas to the upper U.S. Midwest and Ontario, Canada, these Trustees <u>do oppose</u> any proposed particular section of the location of same that runs through, or close to residential neighborhoods or densely populated areas; and so

LA17-3 THEREFORE, the Montville Township Board of Trustees are keenly interested in supporting their citizens in their beliefs that said pipeline would be more appropriately placed in nearby farmland areas of less dense population where there would be little risk of reducing property values or disrupting neighborhoods.

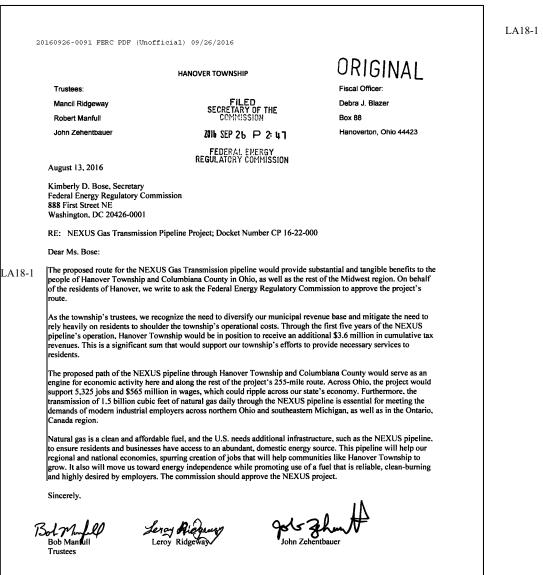
LA17-3 Comment noted. See response to comment LA17-1.

LA17 – Montville Township Trustees (cont'd)



LA17-4 Comment noted. See response to comment LA17-1.

### LA18 – Hanover Township



A18-1 Comment noted.

Local Agencies/Elected Officials Comments

### LOCAL AGENCIES/ELECTED OFFICIALS LA19 – Summit County Council

20161011-0061 FERC PDF (Unofficial) 10/11/2016 SUMMIT COUNTY COUNCIL **COUNTY OF SUMMIT, OHIO** MEMBERS OF COUNCIL John Bolek Daniel Congrove Tim Crawford Pete Crossland Paul Gallagher Larry Givens July 18, 2016 To: Nathaniel J. Davis Sr. Dept. of Sec. FERC 888 First St. NE Room 1A Washington, DC 20426 Re: CP16-22-000 Nexus Gas From: Tim S. Crawford ORIGINAL **Summit County Council** 4109 S. Cleve-Mass Rd Norton, OH 44203 I would like to protest the current routing of the Nexus Pipeline. There are way too many

environmental impacts in the current route. Constructing the pipeline within inches of homes, cutting down old growth trees, and the impact to the wet lands is beyond my comprehension. I know that many people say (NIMBY) that is not in my background. I know other people have proposed alternate routes, but none were good alternates.

MEMBERS OF COUNCIL

Michael D. Grimm

Louise Heydorn

Andrea L. Norris

Kimberly A. Zurz

Scott Goodrich, Clerk of Council

REGULATORY COMPLEXING

2016 OCT 11 P 3:

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Cazzell M. Smith, Sr.

- LA19-1 Nexus current route is 255 miles, from Kensington to Detroit. Here are some alternate routes.
  - 1- From Kensington, Ohio to Detroit, from Kensington follow St. Route 30 west to St. Route 250 to interstate 75 which would be 234 Miles.
  - 2- From Kensington follow St. Route 30 west to St. Route 23 then North to St. Route 75 which would be 254 miles.

Both the above routes follow a State route, where 90% of the right of way is owned by the State of Ohio.

- 1- Less environmental impact to the Wet Lands, Steams Crossing, Well Water
- 2- Using option 2 Nexus is one mile shorter.
- 3- Less Proximal to homes & urban areas
- 4- Less Home water well disturbed
- 5- Avoids the Eagle Nesting sites in Summit County.

Tim S. Crawford

Ohio's First Charter County 175 S. Main Street, 7th Floor, Akron, Ohio 44308-1314 (330) 643-2725 • FAX (330) 643-2531 Northern Summit County 1-800-582-2699 LA19-1 We did not evaluate the route alternatives suggested in this comment because doing so would route the pipeline through the center of several large urban and suburban communities, including Canton, Wooster, Ashland, Norwalk, Fremont, Findlay, Bowling Green, and/or Toledo, Ohio; and Monroe, Romulus, Dundee, and/or Milan, Michigan. Not only would routing the pipeline through these communities result in greater impacts on home and urban areas, the pipeline would also be required to cross the same streams and wetlands as the highways, lending them unlikely to reduce environmental impacts on those resources.

#### LA20 – Erie County, Ohio Engineer's Office

TIM LLOYD, SANDUSKY, OH.

LA20-1 The Erie County, Ohio Engineer's Office wants to express its concern that the 36" Nexus gas main, as proposed, is to be installed at 5' (five foot) below the top of pavement at long established county and township rightsof-way (R/W). The gas main as proposed will be even shallower at ditches. This will detrimentally impact the county and township for the following reasons:

1. The 5' (five foot) depth is too shallow and will negatively impact all future public projects within our R/W. At 5', with a 1' separation between mains, the top of a 16'' water main would be less than 3' below the center of pavement (shallower outside the pavement where the line would actually be placed). This is too shallow to withstand Ohio winters without the likelihood of freezing.

2. With the gas main at 5', the area occupied by the main would be from 5'-8' deep, coupled with a 12" minimum clearance, the gas main envelope would occupy an area from 4'-9' deep, allowing no room for other facilities as discussed above. The same holds true for storm sewers and sanitary sewers. The storm sewers would be too shallow and thus rendered useless to collect water from subsurface drainage tiles from the farm fields which are so prevalent through the gas main path proposed. If the storm sewer were to be placed under the gas main, the bottom of the storm (or sanitary) sewer would be at least 10' deep; too deep for a storm sewer to outlet into a receiving stream. Sanitary sewers would require a pump station to transport the effluent from these deep mains. The pump station would be expensive to purchase and maintain. 3. With the gas main at 5' deep and the bottom of the gas main at 8', the top of the sewer or water main would need to be 9' or deeper; it would be impossible to place and use a trench box near the gas main. This is in direct violation of the Occupational Safety and Health Administration

direct violation of the Occupational Safety and Health Administration (OSHA) requirements. It would be nearly impossible to install a public sewer or water main within our own R/W without violating OSHA regulations and putting workers at risk. Similary, if there were to be a waterline break in the vicinity, it would be practically impossible to repair for the same reason.

4. Nexus has repeatedly disregarded our request for a minimum 10' depth of cover at every road R/W crossing, stating that it is not economically feasible. We find this argument hard to believe given the fact they are installing their main 56' (fifty-six feet) below the Ohio Turnpike and by default Main Road.

5. At this time Erie County is not sure what exact roads are destined for future water/storm/sanitary improvements. Because we are located on Lake Erie, several local communities (City of Bellevue, City of Norwalk) which currently rely on reservoirs, have discussed connecting to the Erie County water system. In addition, Berlin Heights will soon be installing a new, larger water main north and west of the Village to upgrade their water flow. This proposed main will have to cross the Nexus gas main. For these reasons, we are requesting a minimum 10' depth of cover at all county/township roadway ditches.
6. Currently, a 16" gas transmission owned by TransCanada (formerly

Columbia Pipeline Group) that runs through the Erie County Bogart Road R/W needs to be lowered so we can replace an existing storm sewer. They informed us they will need to perform over \$1 million of associated work within their gas easement, outside the county R/W, and want the Erie County taxpayers to pay the bill. We cannot risk this happening with a 36" gas main. LA20-1

NEXUS would be required to obtain local and state permits to install its pipeline beneath county and township roads and ditches where required by law. These permits may contain special provisions for pipe burial depth consistent with local and state laws. The FERC encourages cooperation between pipeline companies and local and state authorities; however, local and state agencies, through the application of local and state laws, may not prohibit or unreasonably delay the construction or operation of facilities approved by FERC. Any local or state permits issued with respect to jurisdictional pipeline facilities must be consistent with the conditions of any authorization issued by FERC, and any local or state regulation that interferes with the FERC's regulatory authority of the transportation of natural gas would be preempted.

LA20 – Erie County, Ohio Engineer's Office

LA20-1 (cont'd) 7. Lastly, Nexus is providing Erie County no details for crossing county storm severs and county maintained ditches located within existing drainage easements. At only a 3' depth of cover through fields, the Nexus gas main would be too shallow to allow the county to dip ditches or maintain the preexisting storm drain tiles. The maintenance for these systems is paid for by the property owners who are assessed based upon the amount of drainage they contribute to the watershed. The proposed top of the gas main needs to be a minimum of 5' below these ditches and storm tiles.

In closing, by not placing the proposed 36" Nexus gas main a minimum of 10' below county and township roadway ditches and 5' below county maintained ditches and storm sewers located in drainage easements, Nexus is putting a substantial, unnecessary financial burden on the taxpayers of Erie County and jeopardizing the safety of workers who install and/or repair county/township facilities within their own established R/W.

### CO1 – Ohio Gas Association

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OHIO	Gas Association		01-2	Comme
	July 14, 2016	2016 JUL 18 P 2:41		
	Kimberly D. Bose Secretary, Federal Energy Regulatory Commission B88 First Street, NE Washington, DC 20426	REGULATORY COMMISSION		
	NEXUS Gas Transmission Project – Docket: CP16-22-0	00		
	Dear Secretary Bose:			
	The Ohio Gas Association (OGA) is a natural gas trade distribution companies and cooperatives, other affilia state gas transmission companies in Ohio. Our memb and safely maintain and manage more than 50,000 m throughout the state. We believe natural gas is the er the infrastructure necessary to take full advantage of shale gas.	ted members and the majority of Intra- and Inter- ers serve more than 3.6 million Ohio customers iles of distribution and transmission pipeline nergy of the future, but our nation currently lacks		
	It is with this belief in mind that the OGA continues to Federal Energy Regulatory Commission approve NEXU Environmental Impact Statement, NEXUS has done th minimizes environmental impacts while bringing nece meet the increased need for natural gas in the region	IS in a timely manner. As evident in the Draft eir due dillgence in selecting a route that ssary infrastructure to Northern Ohio in order to		
CO1-1 CO1-2	Natural gas is plentiful in the U.S., and it is reliable, cli residents demand it, but the nation needs more infra- demand. The proposed route will create good-paying communities and school districts where local governn foundation for long-term economic growth across Oh	structure like the NEXUS Project to meet that jobs across Ohio and increase tax revenues for nent budgets are tight. It also will establish a		
	Construction of the NEXUS pipeline project is necessa Ohio Gas Association, I urge the Federal Energy Regul			
	Sincerely,			
	Timmingtenat			
	Jimmy Stewart President Ohio Gas Association			
137 E.	State Street = Columbus, Ohio 43215 = P. 614.545.6307	www.ohiogasassoc.c	rg	

ent noted. nt noted.

### **Companies/Organizations Comments**

CO2 – Sandusky County Chamber of Commerce

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	Chamber of Commerce SANDUSKY COUNT	re I Y	ORIGINA	CO2-2	Comment noted
2	GET NOTICED - BUILD CONNECTIONS - EDUCATIONAL OPPORTUNITIE	S . INCRED	IBLE SAVINGS		
	July 13, 2016 Ms. Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street NE Washington, DC 20426-0001 RE: NEXUS Gas Transmission Project (Docket Number: CP16-22-000) Dear Secretary Bose:	REGULATORY COMMISSION	FILED SECRETARY OF THE COMMISSION		
CO2-1	I am writing in support of the NEXUS pipeline project, and I hope that you w significant economic impact this project will have on our region. The NEXUS bring thousands of jobs to our communities and more than \$800 million in tot project presents an opportunity our region cannot afford to overlook. As the CEO & President for the Sandusky County Chamber of Commerce, I a has the opportunity to take advantage of such an important project like the NE County is expected to draw an estimated \$7.1 million in new tax revenue thro and this expansion of the county's tax base will help supplement our local bud services.	S pipeline is al economic um grateful t XUS pipeli ugh the pipe	projected to activity. This hat our region ne. Sandusky line's presence,		
CO2-2	The additional tax revenue, however, is only part of the story. Natural gas is a source of energy, and pipelines are the safest, most reliable way to transport in pipeline, communities along the route and beyond will enjoy greater access to increasingly demand. This will help us retain existing businesses in the region companies looking to relocate. Consequently, the pipeline carries tremendous economic growth, which will help people across the region to prosper.	. By buildin a fuel that l , as well as	g the NEXUS ousinesses attract new		
	The NEXUS pipeline will strengthen the economy in Sandusky County and o projected route, and its effects will ripple through Ohio, Michigan and the res the businesses and workers of Sandusky County, I respectfully request the FE project.	of the region	on. On behalf of		
	Sincerely, (Ligy Mithelall) Angie Morelock				

#### CO3 – Laborer's Local 1015, LIUNA

		CO3
	July 18, 2016	
	Ms. Kimberly D. Bose Secretary, Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426	
	Re: NEXUS Gas Transmission Project, FERC Docket No. CP16-22	
	Dear Secretary Bose,	
	Spectra Energy Corporation and DTE Energy's proposed NEXUS Gas Transmission Project, FERC Docket No. CP16-22, has been touted as a pipeline that would spur local economic development in various forms, specifically, "direct", "indirect", and "induced" economic benefits <sup>1</sup> . However, the economic impact analysis provided by NEXUS Gas Transmission, LLC, and its subsequent adoption by FERC in its Draft EIS, reasonably lacks merit.	
CO3-1	NEXUS has filed the required report on socioeconomic impacts in its Resource Report 5. The socioeconomics analysis assesses the availability of local resources necessary to build a project, direct and indirect local economic development impacts, and, among other factors, budget impacts on local governments. <sup>2</sup> Recently, FERC released its Draft EIS utilizing the same numbers NEXUS provided in these analyses regarding employment and economic impacts.	
	However, these analyses were made on assumptions provided by Spectra, one of which includes that 60% of construction labor will be locally sourced. This assumption should be challenged by FERC. Furthermore, the Draft EIS states "local hires and local union halls would supply approximately 50 percent of the workforce" on the construction of the pipeline. We believe this statement to also be inaccurate. On behalf of the hard working pipeline construction workers who call Ohio home, we ask that FERC undertake a closer look at the NEXUS project's impacts on local communities in Ohio. Specifically, we ask that:	
	<ol> <li>FERC require NEXUS to provide evidence, in the form of a public document, detailing how NEXUS will substantiate its claim of employing 60% Ohio residents on the Ohio portions of the pipeline, considering that M.G. Dyess – an out-of-state contactor with a record of not hiring local workers in Ohio – has been awarded one entire pipeline spread.</li> </ol>	
	<ol> <li>FERC require NEXUS to file a new and accurate Economic Impact Analysis that takes into consideration the shortfall of local employment because of contractor M.G. Dyess, and recalculates the NEXUS project's economic impact in the 11 Ohio counties affected, including the "direct", "indirect" and "induced" economic impacts.</li> </ol>	
	<sup>1</sup> See Resource Report 5 – Appendix 5A "Revised Economic Impact Analysis" and FERC/DEIS-270D – Environmental Analysis 4.10.9.1 <sup>2</sup> https://www.ferc.pov/industries/gas/enviro/guidelines/report-preparation-volume-1.pdf	

NEXUS' and Texas Eastern's estimate of local hiring and payroll is just an estimate. The source of final worker hires would depend on the existing pool of available workers at the time of construction. This will include local labor and trade expertise, including agricultural inspectors and train tile repair professionals to the extent practicable.

CO3 – Laborer's Local 1015, LIUNA (cont'd)

The Ohio portion of the NEXUS project will comprise about 84% of the project's \$2 billion CO3-1 capital costs. Approximately 200 of the 245 mile pipelines proposed will span 11 counties in (cont'd) Ohio.3 There are three construction spreads in Ohio. Two of three have been awarded to experienced construction contractors who have signed collective bargaining agreements with local construction unions. These agreements require those contractors to deploy at least half of their workforce through local union hiring halls. The third spread, which encompasses 24% of the Ohio portion of the proposed pipeline route located in northeastern Ohio (Columbiana, Stark, and Summit Counties), was awarded to M.G. Dyess, a Mississippi-based pipeline construction contractor. We and our affiliates of the Laborers International Union of North America (LIUNA), which represents thousands of construction professionals in Ohio, report that approximately 90% of M.G. Dyess' workforce is comprised of out-of-state travelers based on observation of their past projects4. According to reports by the Economic & Policy Resources, Inc., and the Ohio State University Extension, filed as part of the project's Resource Report 5, construction of the pipeline in Ohio is estimated to include 1,630 construction workers at a cost of \$668 million in payroll. During the pipeline construction phase, the report claims NEXUS will create 3,954 direct, indirect, and induced jobs, generate \$435.3 million in labor income, and add \$537 million in additional economic benefits in Ohio.5 The analysis, however, is based on assumptions provided by Spectra that seem inaccurate given the status of construction contract awards. Notably, the local economic benefits are based on the assumption that 60% of construction contractor workers are from the local community, and therefore 60% of total construction payroll is "deemed local," The 60% local hire rate is significant because it is sets the number in which the indirect and induced economic multipliers are applied.6 It can be reasonably be said that the actual local hire rate may be as low as 38% given that 24% of the pipeline will be built by M.G. Dyess, an out-of-state contractor that has shown its overwhelming preference for hiring out-of-state travelers. The rates of local hire on the construction of the NEXUS have been grossly exaggerated. Only the pipeline spreads that were awarded to contractors who have signed a collective bargaining agreement with local construction trade unions can guarantee a minimum local hire rate of 50%.7 However, those agreements currently only cover 76% of the Ohio portion of project (the first two spreads). In <sup>3</sup> NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-000. 4 "Union Protests Company Hiring Non-Locals for Pipeline Rehab" http://www.daytondailynews.com/news/news/union-protests-company-hiring-non-locals-for-pipel/nrSfL/ <sup>5</sup> P. 3, Economic & Policy Resources, Inc., "Revised Economic Impact Analysis of the NEXUS Gas Transmission Project," filed by NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-000. <sup>6</sup> P. 9, , Economic & Policy Resources, Inc., "Revised Economic Impact Analysis of the NEXUS Gas Transmission

**Companies/Organizations Comments** 

<sup>°</sup> P. 9, Economic & Policy Resources, Inc., "Revised Economic Impact Analysis of the NEXUS Gas Transmission Project," filed by NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-000.

<sup>&</sup>lt;sup>7</sup> Collective Bargaining Agreements between Construction Contractors and both the IUOE and LIUNA guarantee that at least half of workers on a pipeline construction job are dispatched locally.

CO3 – Laborer's Local 1015, LIUNA (cont'd)

total, that calculates to only 38% of the pipeline work going to Ohio workers. If NEXUS wanted to even get close to its claim of 60% local hire for the entire project, M.G. Dyess would have to hire over 90% locally on the third pipeline spread to make up the difference – an impossible task considering M.G. Dyess is expected to hire almost exclusively from out of state.

NEXUS has used its partial commitment to local construction trades to exaggerate its local hire claims. Even if all of the contractors on the NEXUS pipeline adhered to a collective bargaining agreement with local construction trades, only a minimum of 50% local hire would be achieved. Nevertheless, we do not see any other way NEXUS could realistically reach 60% local hire, and therefore substantiate its claimed economic impacts, without a commitment to the local construction trades on all spreads of the NEXUS construction.

Thank you for your time and consideration of these matters and I look forward to a prompt response.

Sincerely,

Jake Custor JR

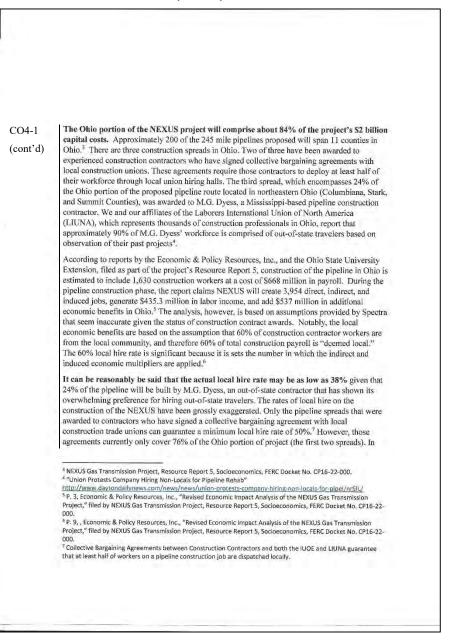
Business Manager Laborers' Local 1015, LIUNA JAKE Croston JR.

**Companies/Organizations Comments** 

### CO4 – Laborers' Local 809

		CO4-1	See response to comment CO3-1.
	July 18, 2016		
	Ms. Kimberly D. Bose Secretary, Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426		
	Re: NEXUS Gas Transmission Project, FERC Docket No. CP16-22		
	Dear Secretary Bose,		
04-1	Spectra Energy Corporation and DTE Energy's proposed NEXUS Gas Transmission Project, FERC Docket No. CP16-22, has been touted as a pipeline that would spur local economic development in various forms, specifically, "direct", "indirect", and "induced" economic benefits <sup>1</sup> . However, the economic impact analysis provided by NEXUS Gas Transmission, LLC, and its subsequent adoption by FERC in its Draft EIS, reasonably lacks merit.		
	NEXUS has filed the required report on socioeconomic impacts in its Resource Report 5. The socioeconomics analysis assesses the availability of local resources necessary to build a project, direct and indirect local economic development impacts, and, among other factors, budget impacts on local governments. <sup>2</sup> Recently, FERC released its Draft EIS utilizing the same numbers NEXUS provided in these analyses regarding employment and economic impacts.		
	However, these analyses were made on assumptions provided by Spectra, one of which includes that 60% of construction labor will be locally sourced. This assumption should be challenged by FERC. Furthermore, the Draft EIS states "local hires and local union halls would supply approximately 50 percent of the workforce" on the construction of the pipeline. We believe this statement to also be inaccurate. On behalf of the hard working pipeline construction workers who call Ohio home, we ask that FERC undertake a closer look at the NEXUS project's impacts on local communities in Ohio. Specifically, we ask that:		
	<ol> <li>FERC require NEXUS to provide evidence, in the form of a public document, detailing how NEXUS will substantiate its claim of employing 60% Ohio residents on the Ohio portions of the pipeline, considering that M.G. Dyess – an out-of-state contactor with a record of not hiring local workers in Ohio – has been awarded one entire pipeline spread.</li> </ol>		
	<ol> <li>FERC require NEXUS to file a new and accurate Economic Impact Analysis that takes into consideration the shortfall of local employment because of contractor M.G. Dyess, and recalculates the NEXUS project's economic impact in the 11 Ohio counties affected, including the "direct", "indirect" and "induced" economic impacts.</li> </ol>		
	<sup>1</sup> See Resource Report 5 – Appendix 5A "Revised Economic Impact Analysis" and FERC/DEIS-270D – Environmental Analysis 4.10.9.1 <sup>2</sup> https://www.ferc.gov/industries/gas/enviro/guidelines/report-preparation-volume-1.pdf		

CO4 – Laborers' Local 809 (cont'd)



#### CO4 – Laborers' Local 809 (cont'd)

CO4-1 total, that calculates to only 38% of the pipeline work going to Ohio workers. If NEXUS wanted to even get close to its claim of 60% local hire for the entire project, M.G. Dyess would have to hire over 90% locally on the third pipeline spread to make up the difference – an impossible task considering M.G. Dyess is expected to hire almost exclusively from out of state.

NEXUS has used its partial commitment to local construction trades to exaggerate its local hire claims. Even if all of the contractors on the NEXUS pipeline adhered to a collective bargaining agreement with local construction trades, only a minimum of 50% local hire would be achieved. Nevertheless, we do not see any other way NEXUS could realistically reach 60% local hire, and therefore substantiate its claimed economic impacts, without a commitment to the local construction trades on all spreads of the NEXUS construction.

Thank you for your time and consideration of these matters and I look forward to a prompt response.

Sincerely,

Clint Powell Business Manager Laborers' Local 809, LIUNA

#### CO5 – Laborers' Local 894, LIUNA

20160720-5035 FERC PDF (Unofficial) 7/20/2016 10:11:08 AM

July 18, 2016

Ms. Kimberly D. Bose Secretary, Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426

Re: NEXUS Gas Transmission Project, FERC Docket No. CP16-22

Dear Secretary Bose,

Spectra Energy Corporation and DTE Energy's proposed NEXUS Gas Transmission Project, FERC Docket No. CP16-22, has been touted as a pipeline that would spur local economic development in various forms, specifically, "direct", "indirect", and "induced" economic benefits<sup>1</sup>. However, the economic impact analysis provided by NEXUS Gas Transmission, LLC, and its subsequent adoption by FERC in its Draft EIS, reasonably lacks merit.

CO5-1 NEXUS has filed the required report on socioeconomic impacts in its Resource Report 5. The socioeconomics analysis assesses the availability of local resources necessary to build a project, direct and indirect local economic development impacts, and, among other factors, budget impacts on local governments.<sup>2</sup> Recently, FERC released its Draft EIS utilizing the same numbers NEXUS provided in these analyses regarding employment and economic impacts.

However, these analyses were made on assumptions provided by Spectra, one of which includes that 60% of construction labor will be locally sourced. This assumption should be challenged by FERC. Furthermore, the Draft EIS states "local hires and local union halls would supply approximately 50 percent of the workforce" on the construction of the pipeline. We believe this statement to also be inaccurate. On behalf of the hard working pipeline construction workers who call Ohio home, we ask that FERC undertake a closer look at the NEXUS project's impacts on local communities in Ohio. Specifically, we ask that:

 FERC require NEXUS to provide evidence, in the form of a public document, detailing how NEXUS will substantiate its claim of employing 60% Ohio residents on the Ohio portions of the pipeline, considering that M.G. Dyess – an out-of-state contactor with a record of not hiring local workers in Ohio – has been awarded one entire pipeline spread.

 FERC require NEXUS to file a new and accurate Economic Impact Analysis that takes into consideration the shortfall of local employment because of contractor M.G. Dyess, and recalculates the NEXUS project's economic impact in the 11 Ohio counties affected, including the "direct", "indirect" and "induced" economic impacts. CO5-1 See response to comment CO3-1.

<sup>&</sup>lt;sup>1</sup> See Resource Report 5 – Appendix 5A "Revised Economic Impact Analysis" and FERC/DEIS-270D – Environmental Analysis 4.10.9.1

<sup>&</sup>lt;sup>2</sup> https://www.ferc.gov/industries/gas/enviro/guidelines/report-preparation-volume-1.pdf

#### CO5 – Laborers' Local 894, LIUNA (cont'd)

20160720-5035 FERC PDF (Unofficial) 7/20/2016 10:11:08 AM

CO5-1 (cont'd) The Ohio portion of the NEXUS project will comprise about 84% of the project's \$2 billion capital costs. Approximately 200 of the 245 mile pipelines proposed will span 11 counties in Ohio.<sup>3</sup> There are three construction spreads in Ohio. Two of three have been awarded to experienced construction contractors who have signed collective bargaining agreements with local construction unions. These agreements require those contractors to deploy at least half of their workforce through local union hiring halls. The third spread, which encompasses 24% of the Ohio portion of the proposed pipeline route located in northeastern Ohio (Columbiana, Stark, and Summit Counties), was awarded to M.G. Dyess, a Mississippi-based pipeline construction contractor. We and our affiliates of the Laborers International Union of North America (LIUNA), which represents thousands of construction professionals in Ohio, report that approximately 90% of M.G. Dyess' workforce is comprised of out-of-state travelers based on observation of their past projects<sup>4</sup>.

According to reports by the Economic & Policy Resources, Inc., and the Ohio State University Extension, filed as part of the project's Resource Report 5, construction of the pipeline in Ohio is estimated to include 1,630 construction workers at a cost of \$668 million in payroll. During the pipeline construction phase, the report claims NEXUS will create 3,954 direct, indirect, and induced jobs, generate \$435.3 million in labor income, and add \$337 million in additional economic benefits in Ohio.<sup>5</sup> The analysis, however, is based on assumptions provided by Spectra that seem inaccurate given the status of construction contract awards. Notably, the local economic benefits are based on the assumption that 60% of construction contractor workers are from the local community, and therefore 60% of total construction payroll is "deemed local." The 60% local hire rate is significant because it is sets the number in which the indirect and induced economic multipliers are applied.<sup>6</sup>

It can be reasonably be said that the actual local hire rate may be as low as 38% given that 24% of the pipeline will be built by M.G. Dyess, an out-of-state contractor that has shown its overwhelming preference for hiring out-of-state travelers. The rates of local hire on the construction of the NEXUS have been grossly exaggerated. Only the pipeline spreads that were awarded to contractors who have signed a collective bargaining agreement with local construction trade unions can guarantee a minimum local hire rate of 50%.<sup>7</sup> However, those agreements currently only cover 76% of the Ohio portion of project (the first two spreads). In

http://www.daytondailynews.com/news/news/newion-protests-company-htring-non-locats-for-ope/inr5fl/ <sup>3</sup> P. 3, Economic & Policy Resources, inc., "Revised Economic Impact Analysis of the NEXUS Gas Transmission Project," filed by NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-

<sup>&</sup>lt;sup>3</sup> NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-000.
<sup>4</sup> "Union Protests Company Hiring Non-Locals for Pipeline Rehab"

<sup>000.</sup> <sup>6</sup> P. 9, , Economic & Policy Resources, Inc., "Revised Economic Impact Analysis of the NEXUS Gas Transmission Project," filed by NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-

Project," filed by NEXUS Gas Transmission Project, Resource Report 5, Socioeconomics, FERC Docket No. CP16-22-000.
Collective Bargaining Agreements between Construction Contractors and both the IUOE and LIUNA guarantee

Collective Bargaining Agreements between Construction Contractors and both the IUOE and LIUNA guarantee that at least half of workers on a pipeline construction job are dispatched locally.

#### CO5 – Laborers' Local 894, LIUNA (cont'd)

20160720-5035 FERC PDF (Unofficial) 7/20/2016 10:11:08 AM.

total, that calculates to only 38% of the pipeline work going to Ohio workers. If NEXUS wanted to even get close to its claim of 60% local hire for the entire project, M.G. Dyess would have to hire over 90% locally on the third pipeline spread to make up the difference – an impossible task considering M.G. Dyess is expected to hire almost exclusively from out of state.

NEXUS has used its partial commitment to local construction trades to exaggerate its local hire claims. Even if all of the contractors on the NEXUS pipeline adhered to a collective bargaining agreement with local construction trades, only a minimum of 50% local hire would be achieved. Nevertheless, we do not see any other way NEXUS could realistically reach 60% local hire, and therefore substantiate its claimed economic impacts, without a commitment to the local construction trades on all spreads of the NEXUS construction.

Thank you for your time and consideration of these matters and I look forward to a prompt response.

Sincerely,

Bin On

Bill Orr

**Business Manager** Laborers' Local 894, LIUNA

CO6 – Appalachian Partnership for Economic Growth

July Ms. Fed 888 Wat Sub Dea Plea Plea crea eco	e Jacoby, Nelsonville, OH 29, 2016 Kimberly Bose, Secretary eral Energy Regulatory Commission First Street, NE shington, DC 20426 ject: Docket No. CP16-22-000 (NEXUS Gas Transmission Pipeline Project) r Secretary Bose: ise accept this letter in support of the NEXUS gas transmission pipeline. The Appalachian nership for Economic Growth (APEG) is a non-profit economic development organization ted over four years ago by the foundation for Appalachian Ohio. Its mission is to promote iomic development across 25 counties in Appalachian Ohio. Toughly one-third of Ohio's	CO6-1 CO6-2	Comm
July Ms. Fed 888 Wat Sub Dea Plea Plea crea eco	29, 2016 Kimberly Bose, Secretary eral Energy Regulatory Commission First Street, NE shington, DC 20426 ject: Docket No. CP16-22-000 (NEXUS Gas Transmission Pipeline Project) r Secretary Bose: ise accept this letter in support of the NEXUS gas transmission pipeline. The Appalachian nership for Economic Growth (APEG) is a non-profit economic development organization ted over four years ago by the foundation for Appalachian Ohio. Its mission is to promote	CO6-2	Comm
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Par crea eco	nership for Economic Growth (APEG) is a non-profit economic development organization ted over four years ago by the foundation for Appalachian Ohio. Its mission is to promote		
	mass.		
CO6-1 from Our natu	rederal oversight and responsible company stewardship, NEXUS will allow natural gas i our region to reach markets that need the gas in the safest, most efficient manner possible. region and our country needs additional transmission pipeline capacity. As you know, ral gas is now the biggest fuel source of for electric generation in the country, having intly passed coal.		
regi use gas four on a	le gas has been a bright spot for APEG's economically distressed region of Ohio. As our on loses good-paying coal jobs, the long-term transformative opportunity for natural gas d as a fuel for electricity and a feedstock for manufacturing is critical to our future. Several fired power plants currently operate in our region. One is under construction. As many as more are proposed. APEG is working to develop petrochemical manufacturing jobs based bundant natural gas and natural gas liquids. These projects supply needed tax base, jobs, clean power.		
con tang yea	ctra Energy estimated NEXUS will require a \$2-billion investment and require 1,500 direct struction jobs in Ohio. Once completed, Spectra estimates Ohio's tax on public utility ible personal property will generate about \$390 million for local governments in the first five 's, These are significant benefits to Ohio. On behalf of APEG, I ask you to please approve important project.		
Sinc	erely.		
	e Jacoby		
	President – Business Development		

O6-1	Comment noted.
06-2	Comment noted.

### **CO7** – Michigan Chamber of Commerce

		CO7-1	Comn
		CO7-2	Comm
	Jason Geer, Lansing, MI.		
	July 21, 2016		
	Ms. Kimberley D. Bose, Secretary		
	Federal Energy Regulatory Commission		
	888 First Street NE, Room 1A		
	Washington, DC 20426-0001		
	Subject: CP16-22-000 (NEXUS Gas Transmission Pipeline Project)		
	Dear Secretary Bose:		
	The Michigan Chamber of Commerce, on behalf of our over 6700 members, supports the NEXUS Gas Pipeline project and urge the FERC's timely approval of the project (Docket Number CP16-22-000).		
CO7-1	NEXUS pipeline is vital infrastructure for ensuring that adequate supplies of natural gas are delivered to Michigan to support electricity production that powers our economy, lights and heats our homes, businesses, schools and hospitals.		
CO7-2	This project has the potential to lower overall energy costs for all energy users in our state which will help our economy grow and create more jobs.		
	We strongly encourage FERC to approve this project to ensure Michigan continues to have reliable and affordable electricity.		
	Sincerely,		
	Jason Geer		
	Director of Energy & Environmental Policy		
	Cc: MPSC Docket Nos: 2015/2016 GCR Plan year: U-17691; 2016/2017 GCR Plan year; U- 17941; 2016 PSCR Plan year: U-17920		

207-1	Comment noted.
07-2	Comment noted.

#### CO8 – Food & Water Watch



As stated in section 4.9.3 of the EIS, if an easement cannot be negotiated with a landowner and the Projects have been certificated by FERC, then NEXUS and Texas Eastern may use the right of eminent domain granted to it under Section 7(h) of the NGA and the procedure set forth under the Federal Rules of Civil Procedure (Rule 71A) to obtain the areas needed for construction and operation.

#### CO8 – Food & Water Watch (cont'd)

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Approving of the NEXUS pipeline and allowing eminent domain would only benefit Spectra Energy and DTE Energy and not the estimated 605,745 people living in the Michigan counties along the proposed path, and nearly 4 million living in the potentially affected Ohio counties.<sup>8</sup>

CO8-2 In general, pipelines pose a huge risk of leaks. When leaks go undetected, from inadequate detection systems or monitoring personnel's failure to identify a rupture, a leak could go for hours or even days.<sup>9</sup> Once a pipeline is built the unlucky landowners along its path or beside a compressor station have no choice but to accept living with the constant risk of accidents, leaks and explosions. Several recent pipeline failures have led to massive destruction and even loss of life.<sup>10</sup>

 CO8-3
 The proposed NEXUS pipeline poses a host of environmental, public health and safety risks. For one, portions of the pipeline travel within 1,500 feet of a sensitive karst geologic formation known as the Bellevue-Castalia Karst Plain<sup>11</sup> — an area that Ohio's Department of Natural Resources believes contains more sinkholes than other karst terrains in Ohio.<sup>12</sup> Construction would also cause noise pollution,<sup>13</sup> and could potentially cause issues associated with sedimentation, erosion, and flooding.<sup>14</sup>

CO8-6 Spectra Energy knows that their operations are risky to the environment, public health and safety. On page 29 of its most recent 10-K filing, the company said:

"There are a variety of hazards and operating risks inherent in natural gas gathering and processing, transmission, storage, and distribution activities, and crude oil transportation and storage, such as leaks, explosions, mechanical problems, activities of third parties and damage to pipelines, facilities and equipment caused by hurricanes, tornadoes, floods, fires and other natural disasters, that could cause substantial financial losses. In addition, these risks could result in significant injury, loss of life, significant damage to property, environmental pollution and impairment of operations, any of which could result in substantial losses. For pipeline and storage assets located near populated areas, including residential areas, commercial business centers, industrial sites and other public gathering areas, the level of damage resulting from these risks could be greater."<sup>15</sup>

Impacts to Agriculture and Land: The NEXUS pipeline project would temporarily impact over 5,000 thousands of acres of land, permanently impact almost 2,000 acres, and cross over 368 acres that have "poor revegetation potential."<sup>16</sup> Furthermore, over three-fourths of the soil that NEXUS would cross is classified as "prime farmland" with another 423 acres classified as "local or unique farmland."<sup>17</sup> According to the Draft EIS, "Permanent access roads, cathodic protection sites, and aboveground facilities would permanently impact 112.0 acres of soils classified as prime farmland and 2.4 acres of soils classified as local or unique farmland."<sup>19</sup>

- CO8-2 Section 4.13.1 of the EIS identifies the multiple methods that NEXUS would employ to inspect for leakage, including ground patrol, fly-over inspections, and annual leak surveys. Section 4.12.1.3 of the EIS has been update to address EPA's new standards for leak detection and repair. Sections 4.13.2 and 4.13.3 of the EIS address the historic incident data for natural gas transmission pipelines, including injuries and fatalities. The EIS explains that incident statistics for distribution pipelines are inappropriate to compare with natural gas transmission pipelines, and as such we find that studies, reports, and articles that include this information are not compelling. The data, as presented in the EIS, demonstrates that natural gas transmission pipelines continue to be a safe, reliable means of energy transportation.
- CO8-3 Sections 4.1.3.4 and 4.1.5.4 address the concerns surrounding karst geology. Project routing has avoided all visible karst features and applicant is conducting geophysical surveys to detect hidden karst features.
- CO8-4 The EIS is a disclosure document. As identified by the commenter, section 4.12.2.1 of the EIS identifies the construction noise impacts and mitigation for the Project, concluding that due to the temporary, transitory nature of pipeline construction, construction noise would not have a significant impact on nearby landowners.
- CO8-5 See section 4.3.2.2 for discussion on mitigation procedures during construction to minimize or avoid erosion and sedimentation of surface waters. Impacts and mitigation pertaining to flooding and flash floods are addressed in section 4.1.5.7.
- CO8-6 Sections 4.13.2 and 4.13.3 detail pipeline incident data and risks associated with pipelines.

#### CO8 – Food & Water Watch (cont'd)

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CO8-7Heavy construction equipment used to build the pipeline will compact the soil, and<br/>could affect the ability of trees or crops to grow for years.<sup>19</sup> But even after<br/>CO8-8CO8-8construction is completed, risks remain: in the U.S., more than 12,000 pipeline<br/>incidents have occurred from 1994 to 2015. The incidents have caused over<br/>400 fatalities, 1,560 injuries and have stacked up \$7.1 billion in property<br/>damage.<sup>20</sup> Water that agricultural users rely on could also be impacted. In Ohio,<br/>within 150 feet of the NEXUS pipeline project's maineline construction workspace,<br/>sits 156 water wells and 3 springs. The springs are believed to serve agricultural

purposes.21 Contamination of these resources could negatively impact farmers who

- rely on healthy soil and clean water.
  CO8-10 According to a Lenawee County, Michigan resident, "A number of farmers I know are concerned about tiling, irrigation and drainage. There is a limited amount of economic benefit to the county."<sup>22</sup> Three of the counties in the path of NEXUS Washtenaw, Lenawee and Monroe make up a five-county region that account for over 10 percent of Michigan's farms.<sup>24</sup> Moreover, the southeastern region of the state, which includes three counties, has some of the highest agricultural land values: averaging \$4,489 per acre of tiled field cropland.<sup>24</sup> Likewise, the Ohio Ecological Food and Farm Association has come out against the NEXUS pipeline, and
- CO8-11 Natural gas leaks can contaminate soil and water resources that farmers rely on to grow healthy, sustainable crops and explosions can desecrate farmland. In April 2007, a gas transmission pipeline failure near Pawnee, Illinois caused a major fire, requiring people to evacuate their homes and the death of several farm animals.<sup>26</sup> In September 2014, in Michigan's Berrien County a pipeline rupture caused over 500 people to be evacuated from their homes, and one farmer was advised not to harvest his potatoes due to potential contamination.<sup>27</sup>

the Ohio Farmers Union has passed a resolution in opposition of it.25

In April 2016, in Salem Township, Pennsylvania a Spectra Energy pipeline exploded, shooting a fireball into the air that ultimately destroyed a home, scorched 40 acres of farmland, and injured several people, leaving one man with widespread third-degree burns on 75 percent of his body.<sup>29</sup> The aforementioned pipeline was built in

- CO8-12 1981 and corrosion led to the explosion.<sup>29</sup> However, pipelines that are currently being constructed pose greater risks. Data shows pipelines built since 2010 are five times as likely to have problems than those built from 1980 to 2009, possibly because the rush to complete pipelines during the fracking boom encouraged corner-cutting during construction.<sup>30</sup> For example, in 2015 the National Transportation Safety Board determined that a poorly constructed pipeline, built in 2011, led to a 2014 gas explosion that destroyed two buildings in New York City, injuring 50 people and resulting in eight deaths.<sup>31</sup>
- CO8-13 Furthermore, there is not much comfort in the oversight of pipelines. There are only 400 federal and state inspectors charged with monitoring our country's 2.5 million miles of pipelines and ensuring their safety.<sup>32</sup>

з

CO8-7 See sections 4.2.1.4 and 4.2.2 for a discussion of compaction prone soils and proposed mitigation measures.

Prior to construction, NEXUS shall file with the Secretary an *Agricultural Impact Mitigation Plan (AIMP)* detailing construction and restoration measures to be implemented on the NGT Project to address agricultural issues unique to Ohio and Michigan. Prior to construction, NEXUS shall file with the Secretary a 5-year post-construction monitoring program to evaluate crop productivity in areas impacted by the construction of the Project.

- CO8-8 The commenter appears to cite incident statistics that include natural gas distribution and hazardous liquid pipelines, vastly overstating incident statistics applicable to the natural gas transmission sector. The regulations for these facilities differ from those for natural gas transmission pipelines. Further, section 4.13.3 of the EIS clearly explains that the majority of incidents and fatalities from natural gas pipelines are associated with local distribution pipelines because these lines are smaller diameter pipelines and/or plastic pipes and are more susceptible to damage. The EIS provides the correct incident statistic data for natural gas transmission pipelines, showing that there have been 1,312 significant incidents nationwide on natural gas transmission pipelines from 1996 through 2015. The EIS also explains that operation of the over 300,000 miles of natural gas transmission pipeline in the United States results in an average of 2 fatalities per year. This rate equates to about 0.002 fatalities per 250 miles of pipeline per year, indicating the risk is low for an incident at any given location.
- CO8-9 See Section 4.3.1.2 for discussion on mitigation procedures during construction to minimize impacts to water wells and springs. Similar to water wells, the applicants would offer to conduct pre- and post-construction testing of water quality and yield in all springs within 150 feet of the construction workspace, and would compensate the spring owner if the water quality or yield are negatively impacted.

Prior to construction, NEXUS shall file with the Secretary an *Agricultural Impact Mitigation Plan (AIMP)* detailing construction and restoration measures to be implemented on the NGT Project to address agricultural issues unique to Ohio and Michigan.

CO8-10 Drain tile is installed in agricultural areas to help improve drainage in soils with high groundwater and/or poor drainage. NEXUS developed a *Drain Tile Mitigation Plan*, which is provided in appendix E-3. Project-specific impacts on and proposed mitigation measures related to drain tile systems can be found in section 4.9.3.5 of the EIS.

Prior to construction, NEXUS shall file with the Secretary an *Agricultural Impact Mitigation Plan (AIMP)* detailing construction and restoration measures to be implemented on the NGT Project to address agricultural issues unique to Ohio and Michigan. For construction and restoration measures in Ohio, NEXUS shall consult with the Ohio Department of Agriculture (ODA) on construction procedures to be used in agricultural land in Ohio and shall

#### **Companies/Organizations Comments**

#### CO8 – Food & Water Watch (cont'd)

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Threats to Water Resources:Alarmingly, the NEXUS pipeline project couldCO8-14potentially impact several freshwater sources - including a total of 245 wells and 6springs that would be within 150 feet. NEXUS pipeline would also cross 15wellhead protections areas - which federal law defines as "the surface andsubsurface area surrounding a water well or wellfield, supplying a publicwater system, through which contaminants are reasonably likely to movetoward and reach such water well or wellfield." Twelve of the 15 wellheadprotection areas are for community wells, at 25 different locations in Ohio, and onewellhead protection area in Monroe and Washtenaw Counties in Michigan.<sup>33</sup> If awellhead protection area becomes contaminated, the contaminates couldtravel unnoticed until detected in a drinking water well.

While methane (CH<sub>4</sub>) itself may not be toxic, its presence in aquifers indicates the presence of other hydrocarbons that are toxic.<sup>34</sup> When a mix of hydrocarbon gas enters unventilated spaces through contaminated water wells, it can cause suffocation and even result in explosions.<sup>35</sup> CH<sub>4</sub> that contaminates aquifers may also, through geochemical reactions or other mechanisms, increase levels of arsenic and other harmful toxins in water brough to the surface.<sup>36</sup>

CO8-15 Air Pollutants and Climate Impacts: A report released in July 2016 found that if 19 pending natural gas pipelines-one of which includes the NEXUS pipeline—are built across the eastern U.S., then our country will miss the emission-reduction targets established under the Paris Climate Agreement.<sup>37</sup>

Shale gas is 90 percent methane ( $CH_4$ ) – a potent greenhouse gas<sup>38</sup> that is leaking more than regulators seem willing to admit. **Fugitive CH<sub>4</sub> emissions from oil and gas industry operations,** *including pipeline transmission,* **are the leading anthropogenic source of CH<sub>4</sub> pollution in the country**. Pound-for-pound, each puff of CH<sub>4</sub> from the industry is over 86 times more potent than carbon dioxide (CO<sub>2</sub>) at trapping heat over 20 years, and over 34 times more potent than CO<sub>2</sub> at trapping heat over 100 years.<sup>39</sup>

The NEXUS pipeline is designed to reinforce and capitalize on the fracking boom, and would help lock in more demand for fracking and decades more of climate pollution.

Natural gas is leaking from every stage of the natural gas system — from well sites to processing plants and compressor stations to beneath city streets. When it comes to the relative impacts on our climate, these leaks of CH<sub>a</sub> are why natural gas is

about as bad as coal when used for generating electricity, and why natural gas is about as bad as oil when used to fuel cars, trucks, industrial boilers and residential furnaces.<sup>40</sup>

CO8-10 file with the Secretary any measures that result from coordination with the (cont'd) ODA. Any comments received from ODA shall also be filed with the Secretary.

Prior to construction, NEXUS shall file with the Secretary a 5-year postconstruction monitoring program to evaluate crop productivity in areas impacted by the construction of the Project.

- CO8-11 See the response to comment CO8-2 regarding natural gas leaks and incident statistics.
- CO8-12 There is no evidence to support this claim. Nationwide natural gas transmission pipeline incident statistics show that there are about 3.57 incidents per 10,000 miles of pipeline (almost half the rate reported in the article). Pipeline safety regulations continue to evolve to ensure public safety. The DOT is currently undergoing a proposed rulemaking to increase pipeline safety. The referenced 2014 natural gas explosion in New York City involved local distribution pipelines, which in this case are smaller diameter, plastic pipes, and not comparable to natural transmission pipelines as discussed in response to comment CO8-8. Sections 4.13.1 and 4.13.2 of the EIS address the causes for natural gas transmission pipeline incidents.
- CO8-13 The DOT is the federal agency charged with oversight of the operation of natural gas pipelines. The FERC review process is not the appropriate forum to resolve pipeline operational oversight concerns.
- CO8-14 See section 4.3.1 for a discussion of groundwater resources including water supply wells, springs, and wellhead protection areas.
- CO8-15 Section 4.14.8.9 of the EIS addresses climate change impacts and includes a discussion of the Projects' consistency with local or regional goals, based on the published information from the USGCRP reports. The report identified by the commenter lists 19 natural gas transmission projects and capacities, but does not correct for the potential double counting of capacity (where gas may flow from one transmission pipeline to another before reaching its end use, or where a project makes use of existing capacity). The report also counts capacity that would be consumed (i.e. end-use burned) destined for Canada (e.g., from the NEXUS Project, Rover Pipeline Project, Northern Access 2016 Project, and Empire Project) as ultimately preventing the United States from meeting its climate reduction goals. Further, the maximum daily capacity of each project is unlikely to be consumed 365 days per year. Many projects in front of the Commission are designed for peak use. As such, it is unlikely that this total amount of capacity would occur yearly, and emissions would significantly less. Most importantly, the report relies on the emissions primarily associated with upstream production or downstream end-use combustion as the cause of an inconsistency with national goals. We continue to find production and end-use combustion emissions to not be causally connected to the project. Therefore, we do not find the report cited by the commenter to be persuasive, and continue to rely on the discussion of consistency with the USGCRP report in addressing regional goals.

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CO8-16 It has become clear that from production to distribution, the oil and gas industry emits larger amounts of air and climate pollutants than officials estimate. <sup>41</sup> The air and climate pollutants that oil and gas companies bring to the surface include: CH<sub>4</sub> and other volatile organic compounds (VOCs), such as benzene, toluene, ethylbenzene and xylenes (BTEX) and other "aromatic" hydrocarbons, including polycyclic aromatic hydrocarbons (PAHs); hydrogen sulfide; radon derived from radium present in targeted rock formations; and any chemicals from fracking suspended in the air as vapor or aerosol, such as glutaraldehyde, ethylene glycol and methanol.<sup>42</sup>

One key 2014 study explains that the "episodic and fluctuating" nature of the toxic plumes of pollutants from industry sites have thwarted understanding of the specific public health impacts from the gas industry's air pollution.<sup>43</sup> The study explains that standard air quality measures — which average over a region, and average over stretches of time — can miss the "intensity, frequency or durations of the actual human exposures to the mixtures of toxic materials released regularly at [unconventional natural gas development] sites.<sup>44</sup>

 Pollution from Compressor Stations:
 Additionally, the NEXUS pipeline project proposes four new compressor stations in Columbiana, Medina, Sandusky and Lucas CO8-17

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 Counties, Ohio.<sup>45</sup> Compressor station emissions are an even more constant source of emissions than most other industry sites, although the levels of actual emissions vary widely from site to site.<sup>46</sup>

Each year, each compressor stations emit 12-50 tons of VOCs, 51 to 99 tons of nitrogen oxides (NO<sub>4</sub>), 1.5 to 6.1 tons of particulate matter and up to 1.9 tons of sulfur dioxides (SO<sub>4</sub>).<sup>47</sup> Health problems associated with exposure to these chemicals include "respiratory, neurologic, and dermal responses as well as vascular bleeding, abdominal pain, nausea, and vomiting."<sup>44</sup>

CO8-18 The cumulative effects of climate pollution are severe, and they are already visible: violent storms, drought, floods, acidifying oceans and altered growing seasons.<sup>49</sup> Moving forward, scientists warn that we must keep almost all fossil fuels in the ground, or else our children will experience far worse, with fundamental impacts on food and water supplies.<sup>50</sup>

induced seismicity. Or, in other words, human-caused earthquake activity.55

The Potential for Seismicity: The Draft EIS claims that a possibility of an earthquake event is small because the NEXUS pipeline will be in a relatively, seismically inactive area.<sup>51</sup> But it also acknowledges that earthquakes associated with the injection of oil and gas waste has caused an increase of earthquakes in Ohio.<sup>52</sup> Indeed, seismic activity is on the uptick in Ohio.<sup>53</sup> from the disposal of toxic

CO8-19 Ohio.<sup>52</sup> Indeed, seismic activity is on the uptick in Ohio<sup>53</sup> from the disposal of toxic fracking waste through underground injection control wells.<sup>54</sup> It has been linked to

- CO8-16 Estimated emissions specific to the NGT and TEAL Projects are provided in section 4.12.1.3.
- CO8-17 Section 4.12.1.3 of the EIS discloses to the potential emissions of all pollutants from operation of each compressor station demonstrate that all compressor stations associated with the proposed Projects and uses air dispersion modeling to demonstrate that each facility would comply with the NAAQS, which were established to protect human health, including sensitive populations such as children, the elderly, and those with chronic respiratory problems.
- CO8-18 See the response to comment FA2-34.
- CO8-19 Section 4.1.3.1 takes into account the potential for induced seismicity. USGS has provided a one-year estimate, which will be updated annually, that there is less than a 1 percent chance for an earthquake of significant magnitude to cause property damage to occur within a year. Further, the pipeline will be constructed in accordance with federal standards (49 CFR 192) which are the same regulations followed by natural gas pipeline construction and operation projects in more seismically active regions of the U.S.

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CO8-19 Notably, ten of the sixteen Ohio counties that NEXUS would cut through or within ten miles of,<sup>56</sup> have at least one Class II Underground Injection Control (UIC) well, Portage County has a whopping 17 and Stark closely follows with 16. Wayne County has three, Seneca County has two, and then Wood, Summit, Medina, Lorain, Henry and Eric Counties have just one.<sup>57</sup>

Induced seismicity occurs when human activity triggers a dormant fault by adding or reducing stress and/or increasing pore pressure. <sup>50</sup> When fluid is injected underground —as is done to fracture shale rock and for the disposal of fracking wastewater— it can lubricate fault zones. As fluid moves into a fault zone, pore pressure increases, which can cause the fault to slip and result in an earthquake.<sup>59</sup>

CO8-20 It's important to note that induced seismic events may not always strike soon after the injection activity begins, it may take a long time for an earthquake to trigger, and sometimes not until after the injection activity has ended.<sup>60</sup> Although Ohio now prohibits drilling injection wells in Precambrian bedrock where it is believed dormant faults may be located.<sup>61</sup> it does not mean that injected fluids won't reach the bedrock. Fluid pressure from high-rate disposal wells can migrate, so even if an injection well is not very close to a fault line or one susceptible to earthquakes, the fluid pressure can migrate long distances to reach a fault more susceptible.<sup>62</sup>

> It is possible that the current, dormant fault lines near or within a several mile radius of the NEXUS pipeline project could be awakened by injection well activity, and if large enough, could potentially damage the pipeline and cause leaks and ruptures.

> <u>Endangered and Threatened Species</u>: According to the Draft EIS, there are 11 federally listed or proposed species in the project area and the NEXUS pipeline project is "likely to adversely affect the northern long-eared bat."<sup>63</sup>

On April 1, 2015 the U.S. Fish & Wildlife Service (FWS) announced that the northern long-eared bat would be protected under the Endangered Species Act (ESA) as a threatened species.<sup>64</sup> Bats play a critical role in maintaining biodiversity, by cross-pollinating flowering plants and scattering the seeds of native plants.<sup>65</sup> Bats also help control insect pests. A little brown bat, for example, can consume 3,000 insects in a single night, including insects that damage crops.<sup>66</sup>

- CO8-21 Pipeline construction can cause sedimentation in waters affecting aquatic insects that are a part of many bats' diets, <sup>67</sup> while noise pollution interferes with bat navigation, making it difficult for them to locate insects.<sup>68</sup>
- CO8-22 Furthermore, legal agreements between landowners and pipeline companies sometimes require that landowners continue to keep the area cleared, causing sustained forest fragmentation.<sup>69</sup> This results in less forest cover for wildlife habitats, leaving wildlife more vulnerable,<sup>70</sup> and potentially fewer trees for bats to

- CO8-20 The USGS states that seismicity can be induced at distances between 6 and 10 miles from and at depths up to 2.5 miles deeper than the injection point. It is commonly accepted that structural damage to modern engineered structures only occurs in earthquakes larger than magnitude 5.0. Injection-induced earthquakes in the central U.S. are mostly smaller than magnitude 5.0, and in Ohio, less than magnitude 4.0, and few cases are known where injection-induced earthquakes have caused structural damage.
- CO8-21 See section 4.8.1.1 for a discussion of sedimentation and noise impacts on protected bat species.
- CO8-22 See section 4.6 for a discussion of habitat fragmentation and impacts to wildlife species. See section 4.8.1.1 for a discussion of habitat impacts to protected bat species.

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perch upon. This means even after construction is completed, the bats will remain at risk.

#### Conclusion

FWW urges FERC to serve the public and not the vested interests of Spectra Energy and DTE Energy. NEXUS would threaten water resources, wetlands and water systems, disrupt vulnerable geologic areas, cross vital agricultural land, and imperil efforts to protect endangered and threatened species. It also helps create a demand and justification for climate change inducing fossil fuels and environmentally destructive energy extraction (such as fracked gas). Promoting natural gas not only will lock in decades more of fracking and contribute to the climate crisis, it will result in billions of dollars being spent on the infrastructure to support burning gas, preventing us from moving into a sustainable energy future.

There are sufficient reasons to reconsider the pipeline necessity and the environmental and community appropriateness of the project, yet FERG has a propipeline mindset and has approved 99 percent of pipeline applications, rejecting just a single pipeline application over the past five years.<sup>71</sup> FERG must realize that true energy security, and economic security, will come only from communities remaking their energy systems around clean and sustainable solutions. It's time to start building this future, and stop building compressor stations and pipelines to lock in the alternative: decades more air and climate pollution, sickening communities and bringing climate chaos. FERC should take a step in the right direction by rejecting the NEXUS pipeline proposal.

Thank you for your consideration,

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<sup>10</sup> Kasso, Mohammed and Mudanthra Balakrishnan, "Ecological and Economic Importance of Bals (Order Chipotera.)" ISBN Biodiversity, Vol. 2013, 2013 at 316 5; U.S. Fish & Wildlife Service, Press Release [10, S. Fish and Wildlife Service Protects Northern Long eared Bata 37 Investment Under Endangered Species Act." April 1, 2015; United States Geological Survey, National Wildlife Health Center, "White Nose Syndrome (WNS)," Available at

http://www.nwhc.usgs.gov/disense\_information/white-nose\_syndrome/\_Accessed April 20, 2015; Pennsylvania Game Commission. While Disease Reference Library. "White Nose Syndrome" Available at http://www.portal.state.paasi.for.atl/server\_ent?open514.600/lbs:1726058/modes2\_Accessed April 20, 2015.

http://www.portalstate.pass/portal/server.pt/open\_514&ohttp://X6659Kmpdee2, Accessed April 20, 2015.
\*\* Conserve Wildlife Foundation of New Jersey, [Fact Sheet] "Bats of New Jersey. Tune 2006; Natural Resources Conservation Service, Wildlife Habitat Management Institute, Wildlife Habitat Council, [Fish and Wildlife Habitat Management Leaflet,]
"Integrated Pest Management (IPM) and Wildlife," No. 24. October 2002 at 7 and 8; Curtis, Paul D. and Krist L. Sullivan, Cornell Cooperative Extension, Wildlife Damage Management Program. [Part Sheet,] "Bats," 2001 at 1; United States Geological Survey, National Wildlife Health Center, "White Nose Syndrome (WNS)," Available at.

http://www.nwthcusussue/Aisense Information/white mose syndrome/. Accessed April 20, 2015. "Kvizu, Erik and David C. Richardson: Budsonia and SUNY New Paltz, Report to the Pace Environmental Litigation Clinic, Inc]. "Review of the DEIs and Technical Report for the Constitution Pipeline". March 31, 2014 at 10.

Inc.] "Review of the DEIS and Technical Report for the Constitution Pipeline." March 31, 2014 at 10.
"Kiviat, Erik. "Risks to biodiversity from hydraulic fracturing for natural gas in the Marcellus and Utica shales." New York

Academy of Sciences, Vol. 1286, Iss. 1. May 2013 at 5. \*\* See Food & Water Watch. [Fact Sheet.] "Fracking Infrastructure is Carving Up Pennsylvania." December 2013; Messersmith.

Dave. Penn State Extension. "Negoliating pipeline rights of way in Pennsylvania." Available at http://extension.psu.edu/natural-resources/natural-gas/publications/negotiating-pipeline-rights-of-way-in-pennsylvania. Accessed November 15, 2013.

<sup>17</sup> See Food & Water Watch, [Fact Sheet] "Fracking Infrastructure is Carving Up Pennsylvania," December 2013; Brittingham, Mangaret, Pennsylvania State University, "Habitat Fragmentation," Marcellus Shale Electronic Field Guide, Available at http://www.marcellusBeldguide.org/index.php/guide/ecological\_coucepts/habitat\_fragmentation/, Acressed November 14, 2013.

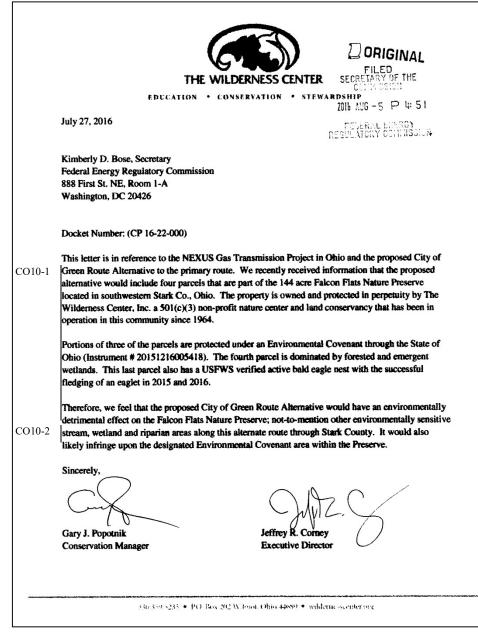
<sup>11</sup> Woodall, Candy, "Pipeline plan rejected by federal regulators in shocking decision." Harrisburg (PA) Patriot-News, March 12, 2016.

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### CO9 – Michigan Chamber of Commerce

		CO9-1	Comment noted.
		CO9-2	Comment noted.
	Monroe County Chamber of Commerce, Monroe, Mi		
	August 5, 2016		
	Kimberly Bose, Secretary		
	Federal Energy Regulatory Commission		
	888 First Street, NE		
	Washington, DC 20426		
	Subject: CP16-22-000 (NEXUS Gas Transmission Pipeline Project)		
	Dear Secretary Bose:		
	The Monroe County Chamber of Commerce supports the proposed NEXUS Gas Transmission project and would like to request the FERC approve the project's application. Our mission is to promote, educate and assist in the growth and success of businesses in Monroe County, Michigan. Reliable, clean and affordable energy is vital to both of these objectives, and the NEXUS natural gas pipeline will ensure that our region and its businesses have the energy needed to succeed well into the future.		
CO9-1	The pipeline is expected to be a major contributor to employment in Michigan and Ohio. Monroe County anticipates \$253,900 in additional tax revenue that will support public services like education and public safety. These benefits have a way of rippling across a region and raising living standards, helping more people achieve prosperity. Strict regulatory oversight and advances in technology have helped make pipelines the most safe and reliable way to transport fuel.		
CO9-2	We think it is important to note that Michigan-based DTE Energy, a partner in the NEXUS Project, has demonstrated its interest in providing reliable, affordable energy while also being a good corporate citizen and a steward of our environment. The company has worked diligently and successfully to strengthen wildlife habitats and native species' populations in Monroe County, and it has signaled intent to use existing distribution lines to bring natural gas to customers without impacting critical wetland and wildlife habitats.		
	The NEXUS Project is vital to the economic development of Southeastern Michigan, and we believe that moving the gas via pipeline is the safest option for our community. On behalf of the Monroe County Chamber of Commerce, I ask you to please approve this important project.		
	Sincerely,		
	Don Lieto		

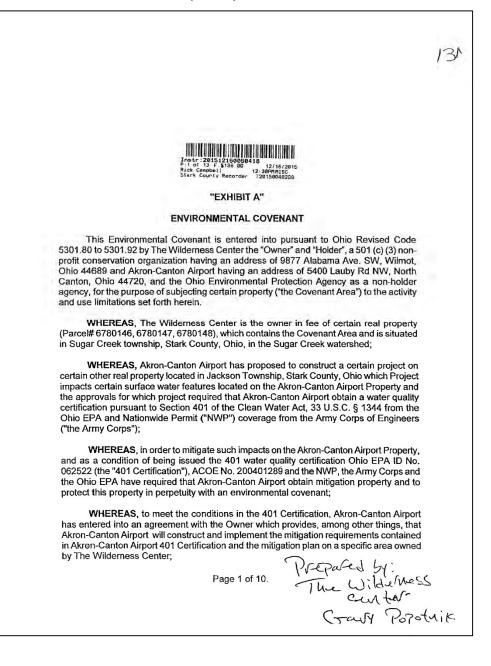
#### CO10 – The Wilderness Center



CO10-1 See section 3.3.3 of for a discussion of the Falcon Flats Nature Preserve on the City of Green Route Alternative. As discussed in that section, we do not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and do not recommend that it be incorporated as part of the Projects.

CO10-2 See response to comment CO10-01 above.

CO10 – The Wilderness Center (cont'd)



CO10 – The Wilderness Center (cont'd)



WHEREAS, the Covenant Area possesses substantial value in conserving and protecting the physical, biological and chemical integrity of Sugar Creek and is important in the protection of the existing or designated use of the waters of the state pursuant to § 303 of the Clean Water Act, 33 U.S.C. § 1313 and § 6111.041 of the Ohio Water Pollution Control Act. The specific conservation values (hereinafter "Conservation Values") of the Covenant Area have been documented in a document entitled "Stream Mitigation Plan, Proposed Akron-Canton Airport, Sugar Creek Township, Stark County" OEPA File# 062522; ACOE File # 200401289. Mitigation plan dated July 10, 2006.

WHEREAS, The Wilderness Center proposes to fulfill its obligation to ensure the Covenant Area and the Covenant Area's Conservation Values are protected in perpetuity by this Environmental Covenant.

Now therefore, The Wilderness Center and Ohio EPA agree to the following:

1. <u>Environmental Covenant</u>. This instrument is an environmental covenant developed and executed pursuant to R.C. Sections 5301.80 to 5301.92.

 <u>Covenant Area</u>. The <u>Covenant Area</u> is an approximately 2.83 acre tract of real property; OR real property parcels numbered 6780146, 6780147, 6780148, located at The Wilderness Center's Falcon Flats Preserve, in Stark County, Ohio, and more particularly described in Exhibit A [narrative] and Exhibit B [deed and map] attached hereto and hereby incorporated by reference herein (the Covenant Area).

3. The Owner is the fee simple owner of the Covenant Area.

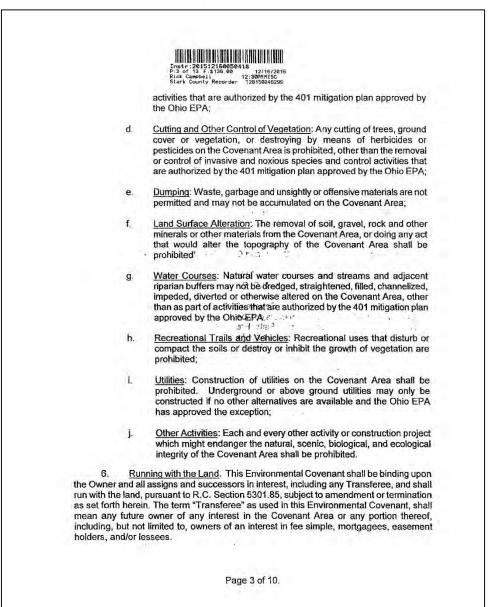
The Holder is the holder of this Environmental Covenant.

5. <u>Activity and Use Limitations</u>. As part of the conditions set forth in the 401 Certification issued to the Akron-Canton Airport and given the conservation values of the Covenant Area, the Owner hereby imposes and agrees to comply with the following activity and use limitations on the Covenant Area:

- <u>Division</u>: Any division or subdivision of the Covenant Area is prohibited;
- <u>Commercial Activities</u>: Commercial development or industrial activity on the Covenant Area is prohibited;
- c. <u>Construction</u>: The placement or construction of any man-made modifications such as buildings, structures, fences, roads and parking lots on the Covenant Area is prohibited, other than construction

Page 2 of 10.

CO10 – The Wilderness Center (cont'd)



CO10 – The Wilderness Center (cont'd)



7. <u>Compliance Enforcement</u>. Compliance with this Environmental Covenant may be enforced pursuant to R.C. Section 5301.91 or other applicable law. Failure to timely enforce compliance with this Environmental Covenant or the use limitations contained herein by any party shall not bar subsequent enforcement by such party and shall not be deemed a waiver of the party's right to take action to enforce any provision of this Covenant. Nothing in this Environmental Covenant shall restrict the Director of Ohio EPA from exercising any authority under applicable law in order to protect public health or safety or the environment.

8. <u>Rights of Access</u>. Owner hereby grants to Ohio EPA, its agents, contractors, and employees and the Holder or its agents the right of access to the Covenant Area in connection with the implementation or Enforcement of this Environmental Covenant.

 <u>Compliance Reporting</u>. Owner and any Transferee shall submit to Ohio EPA, upon request by the Ohio EPA, written documentation verifying that the activity and use limitations remain in place and are being complied with.

10. <u>Notice upon Conveyance</u>. Each instrument hereafter conveying any interest in the Covenant Area or any portion of the Covenant Area shall contain a notice of the activity and use limitations set forth in this Environmental Covenant, and provide the recorded location of this Environmental Covenant. The notice shall be substantially in the following form:

vention Vention states

THE INTEREST CONVEYED<sup>104</sup> HEREBY IS SUBJECT TO AN ENVIRONMENTAL COVENANT, DATED\_\_\_\_\_, 2015, RECORDED IN THE DEED OR OFFICIAL RECORDS OF THE STARK COUNTY RECORDER ON\_\_\_\_\_, 2015, IN [DOCUMENT\_\_\_\_\_, or BOOK\_\_\_\_\_\_, PAGE\_\_\_\_]. THE ENVIRONMENTAL COVENANT CONTAINS THE FOLLOWING ACTIVITY AND USE LIMITATIONS:

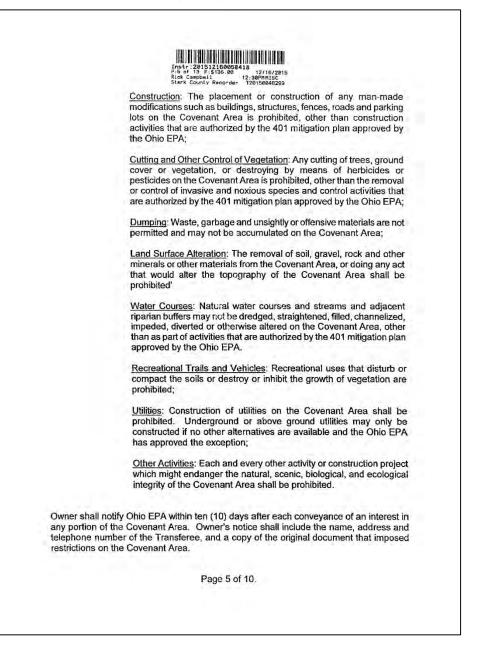
Activity and Use Limitations. As part of the conditions set forth in the 401 Certification issued to the Akron-Canton Airport and given the conservation values of the Covenant Area, the Owner hereby imposes and agrees to comply with the following activity and use limitations on the Covenant Area:

Division: Any division or subdivision of the Covenant Area is prohibited;

Commercial Activities: Commercial development or industrial activity on the Covenant Area is prohibited;

Page 4 of 10.

CO10 – The Wilderness Center (cont'd)



CO10 – The Wilderness Center (cont'd)



 <u>Representations and Warranties</u>. The Wilderness Center hereby represents and warrants to the other signatories hereto:

a. that the Owner is the sole owner of the Covenant Area;

 that the Owner holds fee simple title to the Covenant Area that is free, clear and unencumbered and, for example, is not subject to any utility, road or other easement;

c. that the Owner has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder, and

d. that this Environmental Covenant will not materially violate or contravene or constitute a material default under any other agreement, document or instrument to which Owner is a party or by which Owner may be bound or affected

12. <u>Amendment or Termination</u>. This Environmental Covenant may be amended or terminated only by consent of all of the following: the Owner or a Transferee, the Holder[s], and the Ohio EPA, pursuant to R.C. §§ 5301.89 or 5301.90 and other applicable law. "Amendment" means any changes to the Environmental Covenant, including the activity and use limitations set forth herein, or the elimination of one or more activity and use limitations when there is at least one limitation remaining. "Termination" means the elimination of all activity and use limitations set forth herein and all other obligations under this Environmental Covenant. Amendment or termination shall not affect Akron-Canton Airport obligations pursuant to the 401 Certification.

This Environmental Covenant may be amended or terminated only by a written instrument duly executed by the Director of Ohio EPA, the Holder[s], and the Owner[s] or Transferee[s] of the Covenant Area or portion thereof, as applicable. Within thirty (30) days of signature by all requisite parties on any amendment or termination of this Environmental Covenant, the Owner[s] or Transferee[s] shall file such instrument for recording with the Stark County Recorder's Office, and shall provide a true copy of the recorded instrument to Ohio EPA.

13. <u>Severability</u>. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. <u>Governing Law</u>. This Environmental Covenant shall be governed by and interpreted in accordance with the laws of the State of Ohio.

Page 6 of 10.

CO10 – The Wilderness Center (cont'd)



15. Recordation. Within thirty (30) days after the date of the final required signature upon this Environmental Covenant, the Owner shall file this Environmental Covenant for recording, in the same manner as a deed to the property, with the Stark County Recorders Office.

16. Effective Date. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded as a deed record for the Covenant Area with the Stark County Recorder.

17. Distribution of Environmental Covenant. The Wildemess Center shall distribute a file- and date-stamped copy of the recorded Environmental Covenant to: Ohio EPA; the County of Stark; Sugar Creek Township, any lessee, each person who signed the Environmental Covenant, each person holding a recorded interest in the Property; and any other person designated by Ohio EPA; see ORC Section 5301:83].

18: Notice. Unless otherwise notified in writing by or on behalf of the current owner or Ohio EPA, any document or communication required by this Environmental Covenant shall be submitted to:

Division of Surface Waters Ohio EPA Columbus, Ohio 43216-1049

19. Counterparts. This Covenant may be executed in several counterparts, each of which may be deemed an original, and all of such counterparts together shall constitute one and the same Covenant.

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The undersigned [representatives of] the Owner and Holder represent and certify that they are authorized to execute this Environmental Covenant.

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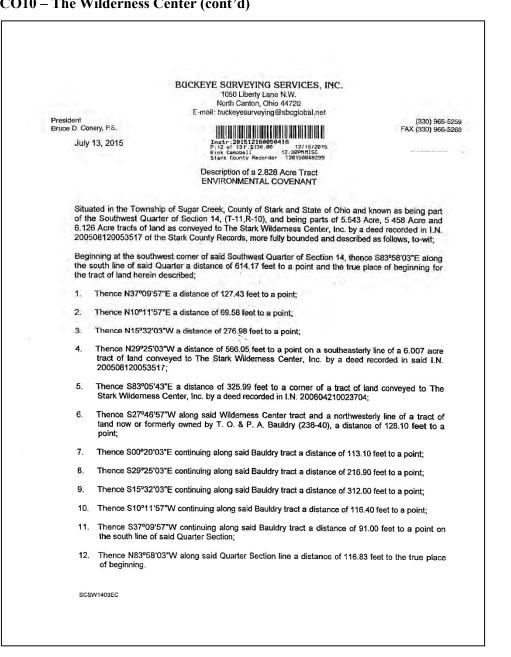
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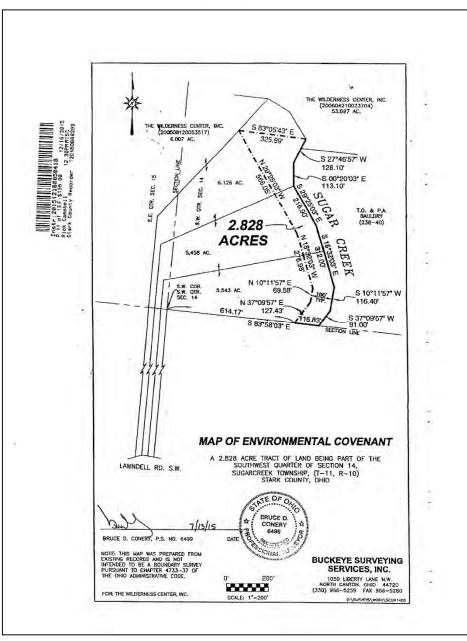
CO10 – The Wilderness Center (cont'd)

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OWNER/HOLDER:	
The Wilderness Center	- 131 - 132
By:	25
Its: Executive Director	
Date: 10/30/2	2015
State of Ohio	2
County of Stark	) ss:
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State of Ohio	3	
	) ss:	addressed three provide
County of Stark	)	
Before me, a notary put	olic, in and for said county and state	e, personally appeared
Lender a duly authorized	representative of Mac	Who acknowledged to
me that <i>[ne/swe]</i> and execute th	ne foregoing instrument on behalf o	-the
IN TESTIMONY WHER	EOF, I have subscribed my name and	d affixed my official seal
this 30 day of 00, 2015		S ANUDON
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RAIG W. BUILER, the Director of Ohio EPA, who acknowledged to me that [hekee] did execute the foregoing instrument on behalf of Ohio EPA. IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this 4th day of Dec. 2015. DECEMBER Warne Diane Castel Notary Public CHARMA DIANE CASTEEL NOTARY Public CHARMA DIANE CASTEEL NOTARY Public MY COMMISSION EXPIRES May 10, 2019	County of Franklin	
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#### **CO11 – Oil International**

20160808-5124 FERC PDF (Unofficial) 8/8/2016 11:25:02 AM

#### UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION August 08, 2016

In the Matter of

ATLANTIC COAST PIPELINE, LLC	CP15-554-000
	CP15-554-001
NATIONAL FUEL GAS SUPPLY CORP/EMPIRE PIPELINE,	CP15-115-000
INC. NORTHERN ACCESS 2016 PROJECT	CP15-115-001
TRANSCONTINENTAL GAS PIPE LINE CO., LLC	CP15-138-000
ATLANTIC SUNRISE PROJECT	
TEXAS EASTERN TRANSMISSION, LP	CP16-3-000
ACCESS SOUTH/ADAIR SOUTHWEST/LEBANON	CP16-3-001
ENTENSION	
TENNESSEE GAS PIPELINE COMPANY, L.L.C.	CP15-77-000
BROAD RUN EXPANSION PROJECT	
COLUMBIA GAS TRANSMISSION, LLC	CP16-38-000
WB XPRESS PROJECT	
COLUMBIA GAS TRANSMISSION, LLC	CP15-514-000
LEACH XPRESS PROJECT	
ROVER PIPELINE LLC	CP15-93-000
ROVER PIPELINE PROJECT	
PENNEAST PIPELINE COMPANY, LLC	CP15-558-000
PENNEAST FIPELINE PROJECT	
NEXUS GAS TRANSMISSION, LLC	CP16-22-000
NEXUS GAS TRANSMISSION PROJECT (NGT)	
MOUNTAIN VALLEY PIPELINE, LLC	CP16-10-000
MVP PROJECT (SEE EQUITRANS/CP16-13)	

COMMENTS OF OIL CHANGE INTERNATIONAL ON GREENHOUSE GAS EMISSIONS FROM NATURAL GAS PIPELINES, ON BEHALF OF OIL CHANGE INTERNATIONAL, SIERRA CLUB, EARTHWORKS, APPALACHIAN VOICES, CHESAPEAKE CLIMATE ACTION, 350,0RG, BOLD ALLIANCE, ENVIRONMENTAL ACTION, BLUE RIDGE ENVIRONMENTAL DEFENSE LEAGUE, PROTECT OUR WATER, HERITAGE AND RIGHTS (VIRGINIA & WEST VIRGINIA), FRIENDS OF WATER, MOUNTAIN LAKES PRESERVATION ALLIANCE, SIERRA CLUB WEST VIRGINIA, SIERRA CLUB VIRGINIA.

#### CO11 – Oil International

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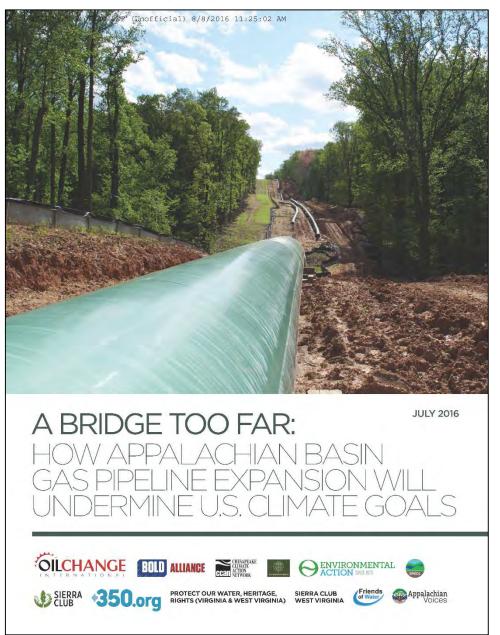
	Oil Change International hereby files the following comments on behalf of the
CO11-1	organizations listed above. The supporting document addresses the greenhouse gas
	emissions associated with the proposed pipeline projects listed above. It makes clear the
	importance of a climate test for all natural gas infrastructure. In light of the Final
	Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas
	Emissions and the Effects of Climate Change in National Environmental Policy Act
	Reviews issued by the Executive Office of the President's Council on Environmental
	Quality on August 1, 2016, the alignment of natural gas infrastructure permitting with
	national climate goals and plans must become a priority for FERC and other federal
	government agencies. The above organizations request FERC to conduct full
	Greenhouse Gas impact analysis as part of the NEPA process for all listed projects, in
	line with the above mentioned CEQ guidance.

Respectfully submitted,

Lorne Stockman Oil Change International 714 G Street SE, Suite 202 Washington, DC 20003 (202) 518-9029 Iorne@priceofoil.org

Stephen Kretzmann Oil Change International 714 G Street SE, Suite 202 Washington, DC 20003 (202) 518-9029 steve@priceofoil.org CO11-1 See the response to comment CO8-15.

CO11 – Oil International (cont'd)



CO11 – Oil International (cont'd) 20160808-5124 FERC PDF (Unofficial) 8/8/2016 11:25:02 AM Design: paul@hellopaul.com Cover image: Despite Maryland's moratorium on hydraulic fracturi the pipeline buildout in the state is moving right along. This photo shows the right-of-way of Columbia's 26" Line MB extension. 21 m of natural gas transmission line, currently being built through Harf and Baltimore Counties. (FERC Decket CPI3-8). «Sierra Shamer, Oll Change International is a research, communications, and advocacy organization focused on exposing the true costs of fossi fuels and facilitating the coming transition towards clean energy. Oil Change International 714 G Street SE Washington, DC 20003 USA www.priceofoil.org

R-182

#### CO11 – Oil International (cont'd)

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Key Poin		4	
The App	alachian Basin is the Key Source of Potential U.S. Gas Production Growth	5	
The Pipe	ine Rush Would Unlock New Gas	5	
U.S. Gas	Production Growth is Out of Sync with Climate Goals	5	
Recomm	endations	7	
Renewal	le Energy is Ready	7	
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	mpacts of Rising Gas Production Outweigh Methane Mitigation	22	
Rising U.	5. Gas Consumption Makes Meeting U.S. Climate Goals Impossible	24	
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	Projected U.S. GHG Emissions from Gas Usage & Leakage vs. U.S. 2050 Clim	ate Tangel	
Figure 1	Dry Gas Production in the Appalachian Basin (Past and Forecast)		
Figure 2:	The Increasing Role of the Appalachian Basin in U.S. Dry Gas Production		
Figure 3:	BP Outlook 2016, Shala Gas Forecasts		
Figure 4:	EIA Projected U.S. Gas Production Revised Up in 2016		
Figure 5	The Appalachian Gas Pipeline Buildout and Projected Production		
Figure 6	Projected U.S. Gas Production and Consumption in the AEO 2016 Reference		
Figure 7:	U.S. Energy-Related Greenhouse Gas Emissions in AEO 2016 versus U.S. Oin		
Figure 8:	Projected U.S. GHG Emissions from Gas Usage & Leakage vs. U.S. 2050 Clim	ate langet	
Table 1 Table 2	Proposed Pipeline Expansions		
	Proposed New-Build Pipelines		
Nap 1: Map 2	Proposed Pipeline Expansions Proposed New-Build Pipelines		

#### CO11 – Oil International (cont'd)

**R-184** 



#### CO11 – Oil International (cont'd)

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#### THE APPALACHIAN BASIN IS THE KEY SOURCE OF POTENTIAL U.S. GAS PRODUCTION GROWTH

In the past decade, natural gas production in the Appelachian Basin has experienced unprecedented growth - particularly in the Marcellus and Utica shale formations in Pennsylvania, West Virginia, and Chio. As a result of the use of hydraulic fracturing (fracking) and horizontal drilling to access previously inaccessible gas formations, gas production from the Appalachian Basinhas growth 13-fold since 2009, reaching over18 billion cubic feet per day (Bcl/d) in 2015.

It is widely expected that production in the Appalachian Basin region will double over current levels by the early 2030s. In 2010, the Appalachian Basin produced just four percent of U.S. gas production, but by 2030 it could provide around 50 percent.

#### THE PIPELINE RUSH WOULD UNLOCK NEW GAS

R-185

To support this planned huge expansion of production, the industry wants to build infrastructure, and in particular pipelines. Dozens of proposed pipeline projects in the region are currently being considered for permitting by FERC. Of these, there are 9/key pending pipeline projects that would unlock at least 15.2 Ber/d of production. Building these pielines would enable the Applatchine Basin to expand production well beyond our ant levels. All together, these 19 pending pipeline projects would enable 116 trillion cubic feet of additional gas production by 20.50.

# U.S. GAS PRODUCTION GROWTH IS OUT OF SYNC WITH CLIMATE GOALS

The potential for further growth in gas production represents a major challenge for U.S. climate policy. The Paris Agreement on climate change, signed by 178 rations as of June 2016, establishes the goal of 'holding the increase inglobal average temperature to well below 2° Cabove preindustrial levels and pusuing efforts to limit the temperature increase to 1.5°C above preindustrial levels "The current U.S. long-term climate target - which may not be enough to achieve the "well below 2 degrees" goal set in Paris - is an emissions cut of 83 percent from 2005 levels by 2050.<sup>4</sup>

The U.S. Energy Information Administration's (EIA) latest projection for U.S. gas supply and demand (Armuel Energy Outlook 2016) shows a 55 percent increase in production and a 24 percent increase in consumption by 2040. The difference between the greater rise in production than consumption would go to export, making the U.S. a major exporter of natural gas in the coming decades. This projection also sees U.S. energy related CO<sub>4</sub>emissions declining only around 4 percent from 2015 levels, in stark contrast to the climate leadership the Administration has strived for.

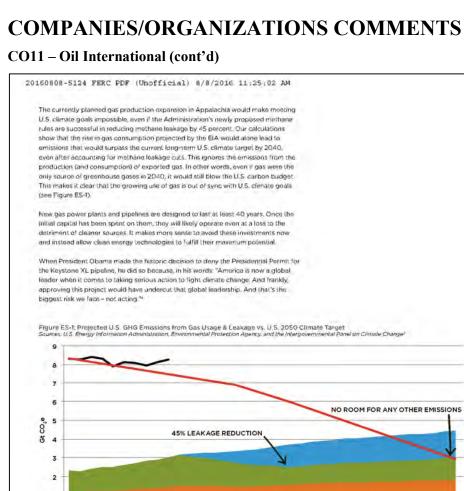






Cross-country pipe being installed @Ed Wade, Wetz/ County Action Group, FracTracker Alliance

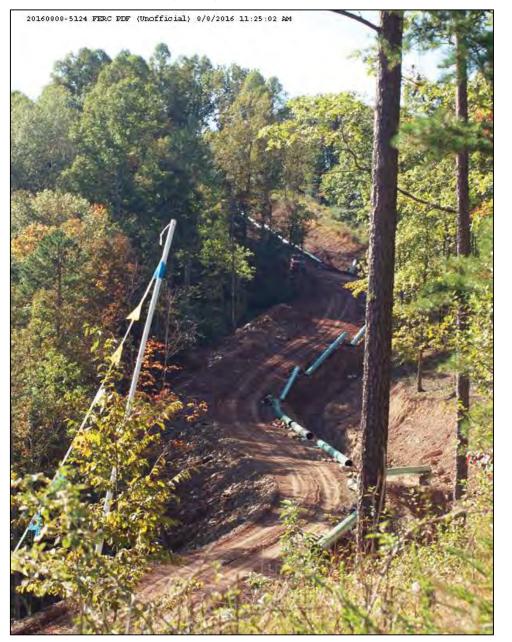
EXECUTIVE SUMMARY 5



1 0 2005 2010 2015 2020 2025 2030 2035 2040 Methane Leakage Emissions (CO2e) with EPA Methane Rule (45% Reduction by 2025 & 20 Year GWP) Additional Methane Leakage Emissions (CO2e) without EPA Methane Rule (20 Year GWP) Gas Combustion Emissions - Total U.S. GHG Emissions to Date (Methane Leakage Adjusted) - 83% Reduction by 2050 (with Interim Goals) Adjusted for Methane Leakage 6 EXECUTIVE SUMMARY

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#### CO11 – Oil International (cont'd)



#### CO11 – Oil International (cont'd)

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On April 22, 2016, over 170 nations signed the Paris Agreement on climate change at. the U.N. in New York. Today the number of signatories stands at 178. The U.S. received credit for working with China and other large emitters to seal the deal.

The targets in the agreement aim to keep global temperatures "well below" 2°C and "pursu[e] efforts to limit the temperature increase to 1.5°C above preindustrial levels". Given the level that emissions have reached in recent years; these targets will require a dramatic effort.

The role of the U.S. in achieving these goals is paramount. As the world's second largest emitter of greenhouse gases (GHGs) and as one of the most prolific sources of fossil fuels in the world, the U.S. will need to coordinate every level of government to play At stake is the attainment of U.S. climate its role in achieving the world's climate goals. goals. Locking in new natural gas With a currently stated national goal to cut intrastructure, with an economic lifespan of emissions by 83 percent from 2005 levels by at least 40 years, could appropriate all of 2050, the U.S. has no time to waste.

To date, such coordination is sorely lacking. Departments and agencies of the federal government that are responsible for permitting fossil fuel infrastructure are pursuing a business-as-usual approach that. neglects climate change as a factor in their decision-making FERC is one such agency.

FERC is responsible for issuing permits for the construction and operation of interstate natural gas pipelines, among

Cross-country pipe being installed. Samantha Malone, FracTracker Alliance

other things. As the proliferation of fracking and horizontal drilling has triggered an unprocedented growth in natural gas production, FERC has issued dozens of permits in recent years to expand and redirect existing pipelines, and plow new pipelines across the country to facilitate further expansion.

In the next few years, the Appalachian Basin could become the epicenter of this pipeline buildout, and FERC stands as the gatekeeper to dozens of major projects. yet to be permitted. These projects could unleash a massive surge in natural gas production from this region, allowing U.S. natural gas production to aggressively grow at precisely the time that the world needs to ID Renewable energy is ready now constrain fossil fuels of every kind.

the U.S. emissions budget for natural gas atone. In other words, far from providing a bridge to clean energy, natural gas could undermine the transition that is required for a safe climate future.

At the core of this issue are two myths that have so far been diligently plied by the natural gas industry: 1) that gas is substantially cleaner than coal, and 2) that relentless gas production growth is integral to the clean energy transition and therefore in the public interest

Both of these myths are countered in this report

This report details the following:

- The Appalachian Basin could become the primary source of U.S. gas in the future.
- D Proposed pipelines in the Appalachian Basin would unlock substantial growth in U.S. natural gas production.
- (i) The surge in natural gas supply associated with these pipelines is entirely out of sync with U.S. climate goals.
- to supply U.S. energy needs at competitiva cost.

Finally, the report recommends that in order for the U.S. to achieve the climate goals it has set, government agencies must apply a climate test to future infrastructure and policy decisions. The test should be based on prevailing climate science and an understanding of the role of fossil fuel supply on energy markets. In particular, FERC must apply a climate test to gaspipelines and other gas infrastructure that seeks a permit.

INTRODUCTION 9

#### CO11 – Oil International (cont'd)

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The Appalachian Basin is defined by the U.S. Geological Survey as stretching from Alabama to Maine, encompassing the majority of the U.S. eastern seaboard.<sup>2</sup> For the purposes of this briefing, we focus on the centers of natural gas production in the states of Pennsylvania (PA), West Virginia (WV), and Ohio (OH). We use the term Appalachian Basin to encompass the gas production in these three states.

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In 2009, dry pas' production from these three states was barely 1.7 Bc1/d. This is only slightly more than the capacity of just one of the larger proposed major pipelines. such as the 1.5 Bcl/d Atlantic Coast Pipeline proposed in Virginia by Dominion Resources and Duke Energy. The nearly 13-fold growth in gas production in the come from the emergence of fracking and horizontal drilling in two key geological formations: the Marcellus and Utica.

The Marcellus formation has proved to be America's - and one of the world's - most prolific natural gas formations. Production

is primarily located in northwest West Virginia and southwestern and northeastern to over 36 Bcf/d, led by expansion in the Pennsylvania." Dry gas production from the Marcellus grew from zero in 2006 to nearly 15 Bcf/d in 2015." In that time, nearly 18 trillion of of dry natural gas has been extracted, along with nearly 200 million barrels of natural gas liquids (NGLs). Production could more than double to around 33 Bcf/d by the early 2030s.

The Utica formation lies beneath the Marcellus in certain parts of West Virginia and Pennsylvania but is predominantly located in eastern Ohio Its exploitation only started to gather pace in 2013. Dry gas production has grown from zero in 2010 to nearly 2.6 Bcf/d in 2015. By the end of that. year, over 1.5 trillion of of dry natural gas Appalachian Basin since 2009 has primarily and over 120 million barrels of NGLs and oil have been extracted from this formation. Gas production in the Utica could reach over 4.5 Bdf/d by the early 2020s.

> In total, over 18 Bcl/d of dry gas is produced proposed and under review. from the Marcellus and Utica formations today. Rystad Energy projects that

production will double by the early 2030s Marcellus. Other formations in the region could bring the total dry gas production for the Appalachian Basin to over 37 Bcf/d.

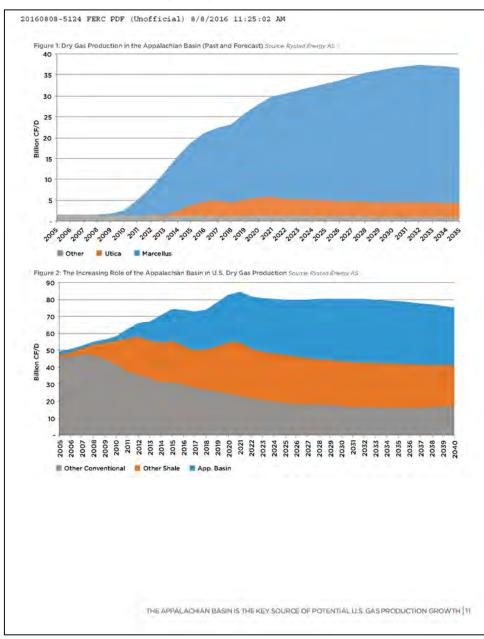
The role of the Appalachian Basin in the potential growth in U.S. gas production cannot be overstated. Figure 2 shows that the region is projected to play an increasingly dominant role in U.S. gas production in the decades ahead. In 2010, the Appalachian Basin produced just four percent of U.S. gas production. At its projected peak in the 2030s, the Appalachian Basin could be supplying around 50 percent.

This production growth cannot be realized without building the pipeline capacity to carry it to market. We calculate that around 15,2 Bcf/d of the anticipated 18.5 Bcf/d production growth cannot go ahead without the pipelines that are currently

3. This report discussed the invoice of dry and broduction and dry gas objectives. While some hatwis (as fig./dischollar) is produced in the report, there explored the lippe of this report. Unless otherwise stated, the figure underfair to dry gas production only. Other is usuals, such as the LAA brings for dustries the figure underfair to dry gas production only. Other is usuals, such as the LAA brings for dustries the figure underfair to dry gas production only. Other is usuals, such as the LAA brings for dustries for figure underfair to dry gas production as the LAA brings for dustries for figure underfair to dry gas production as the LAA brings for dustries for figure and dry gas production as the LAA brings for dustries for figure and the dustries of dustries for figure as the figure drop of this such as the LAA brings for dustries for figure as the figure drop of the such as the LAA brings for dustries for figure as the figure drop of the such as the LAA brings for dustries for figure as the dustries for figure as the laboration of the drop as the figure drop of the such as the laboration of the drop as the dustries for figure as the such as the laboration of the drop as the dustries for figure as the laboration of the such as the drop of the such as the such as the laboration of the drop as the drop as the such as the such as the drop of the laboration of the drop as the drop of the such as the such as the drop of the such as the drop of the such as the drop of the such as the such as the drop of the drop of the such as the drop of the drop of the such as the drop of the drop of the drop of the drop of the such as the such as the drop of the such as the drop of the drop of the drop of the such as the drop of the drop of

10 THE APPALACHIAN BASIN IS THE KEY SOURCE OF POTENTIALUS, GAS PRODUCTION GROWTH

#### CO11 – Oil International (cont'd)



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#### Differing Projections, Similar Conclusions

In this report, we use data from Rystad Energy's UCube database to provide a breakdown of both historical and projected production by geological formation in order to understand the role of the Appalachian Basin in the potential future of U.S. gas production. We also use EIA outlooks for national-level projections.

There are other sources that offer different projections. The future of any hydrocarbon production depends on many factors, including the size of the hydrocarbon resource in the ground, the development of extraction technology, and market prices and policies that may affect prices or costs of development. All projections are based on different assumptions of these factors and must be viewed as projections rather than predictions. Therefore, we do not endorse any particular outlook as being the most accurate, but view all of them as a guide to what could happen.

To date, production of oil and gas from U.S. shale formations, in particular gas production from the Marcellus, has repeatedly outperformed projections. Figure 3 is from BP's Annual Energy Outlook 2016 and shows the company's repeatedly revised projections for U.S. tight oil and shale gas production.

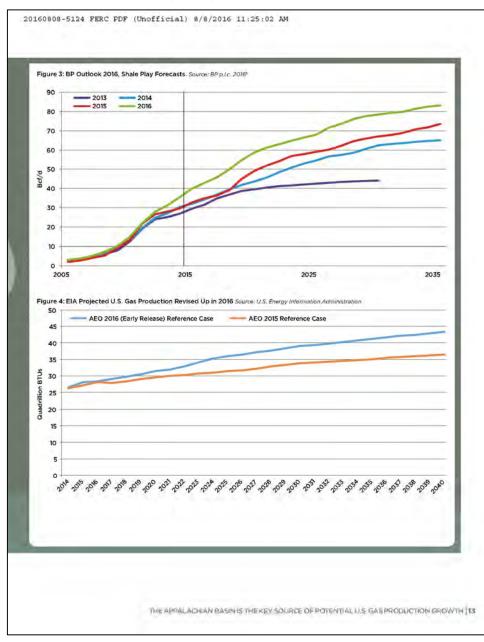
The latest projection in the chart (2016) suggests continued very steep growth with U.S. shale gas production reaching around 80 Bcf/d in 2035. This is much greater than the 63 Bcf/d that the Rystad data we have used shows as a peak in U.S. shale gas production in the 2030s. BP does not provide a breakdown of formations, but it seems likely that stronger growth from the Marcellus and Utica accounts for a significant part of its bullish forecast.

It should also be noted that EIA projections show a steady increase in U.S. gas production through 2040, the last year of the EIA's outlook range. EIA revised up its gas production projection in its lasts annual flagship report, the Annual Energy Outlook (AEO). The AEO 2016 has only been published as a limited early release at this time and does not show a regional breakdown of projected gas production. However, it is remarkable that projected U.S. gas production in 2040 has been revised up nearly 20 percent from the AEO 2015 (see Figure 4). The projection now sees gas production in 2040 would be some 55 percent higher than in Rystad's projection.

No one really knows what the future will bring, but it is clear that without climate policies, U.S. natural gas production is very likely to grow substantially in the coming decades, and the Appalachian Basin is very likely to be at the heart of that growth.

12 THE APPALACHIAN BASIN IS THE KEY SOURCE OF POTENTIAL U.S. GAS PRODUCTION GROWTH

#### CO11 – Oil International (cont'd)



#### CO11 – Oil International (cont'd)

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#### UNLOCK NEW GAS

How much new capacity is proposed? There has already been tremendous growth in gas production from the Appalachian Basin. The region was barely producing enough gas to fill one major pipeline in the in 2014 and 2015, eleven major projects, first decade of the 21st century, and much of this gas was consumed locally. But since adding around 5.25 Bc1/d of takeaway 2009, production has grown over 1,000 capacity from the region. All of these percent, spawning a wholesale re-plumbing involved reversals and/or expansion of of the pipeline network in the region. In the past, pipelines brought gas into the region, primarily from the Gulf Coast states added, but none of these involved creating and/or reversals of existing pipelines of Louisiana and Texas. The main interstate major new pipeline corridors. pipelines came through the region on their way north, feeding distribution lines on their way.

Our analysis of the pipeline buildout. is focused on the climate impact, and therefore we assess only those pipeline projects that add takeaway capacity from the Appalachian Basin. These are There are dozens of projects that expand the distribution capacity of the gas pipeline themselves increase the takeaway capacity the Gulf Coast and west into the Rockies. from the basin. They therefore may not by themselves enable production growth. which leads to increased climate impact

THE PIPELINE RUSH WOULD There are also proposed pipeline projects but stalled when the New York State but we do not deal with these here. Dry gas constitutes the vast majority of the hydrocarbons that are projected to come from the Appalachian Basin.

> some with multiple phases, were completed portheast Pennsylvania existing pipeline systems. Some new pipe was laid, and new compression stations

In addition, two projects are currently under construction, and construction on another had started but has since been halted. The larger of the two that are still going forward is the latest expansion of the additional takeaway capacity. Rockies Express (REX) pipeline, called the Zone 3 Capacity Enhancement Project. This Eight of the proposed pipelines are will add 800 million of/d by early 2017 The new-build projects forging new pipeline Dominion Transmission Inc. is building to 2) These would add another 12.9 Bcf/d feed southwest Pennsylvania supply into network, but while these broaden the reach the Lebanon hub in Ohio. This hub supplies Constitution Pipeline, there is over 19.1 of Appalachian Basin gas, these do not in of gas to various pipelines heading south to

> The Constitution Pipeline is a new-build project that began construction this spring

for Natural Gas Liquids (NGLs) in this region Department of Environmental Conservation (NYSDEC) denied the project's Section 401 Water Quality Certification? The companies involved, led by pippline giant Williams, have vowed to continue with the project." If it goes ahead, Constitution will add 650 million cf/d of new takeaway capacity from

> Waiting on the sidelines are 18 additional major projects that could add nearly 18 Bcf/d to the takeaway capacity from the region. Ten of these projects are expansions (see Map 1). However, to achieve those expansions some new pipeline will be laid and several new compression stations will be built to increase pressure to enable the How of additional gas. These ten expansion projects would add over 5.5 Bcf/d of

sometimes referred to as first mile projects. other is a 130 million cf/d supply line that corridors over hundreds of miles (see Map of takeaway capacity. Together with the Bcf/d of takeaway capacity hanging in the balance. Building these pipelines would enable the Appalachian Basin to expand production to its likely maximum potential (see Figure 5).

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#### CO11 – Oil International (cont'd)

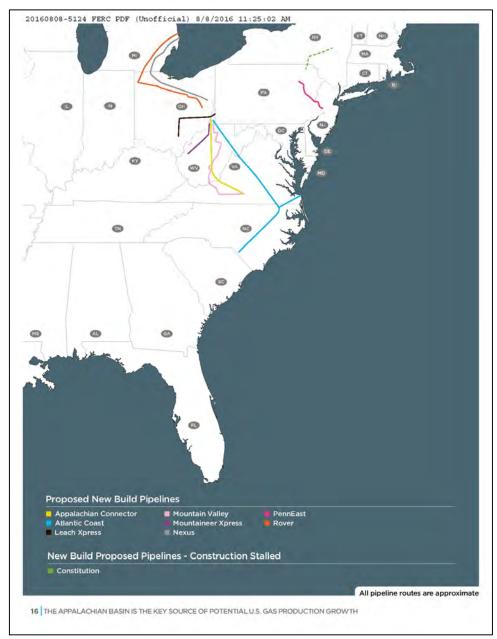
Pipeline	Capacity (Million CF/D)	Destination	Status (FERC Docket No.)
Boardwalk Northern Supply Access	384	Texas	FERC Docket CP15-513
Spectra TEAM Gulf Markets 1	250	Texas	FERC Docket CP15-90
Spectra TEAM Gulf Markets 2	400	Texas	FERC Docket CP15-90
NFGS Northern Access 2016	497	New York & Canada	FERC Docket CP15-115
Williams Transco Atlantic Sunrise	1,700	Serves Entire Mid-Atlantic onto Florida	FERC Docket CP15-138
Spectra TEAM Adair Southwest	200	Kentucky	FERC Docket CP15-3
Spectra TEAM Access South	320	Alabama & Mississippi	FERC Docket CP15-3
NFGS Empire North	300	New York & Canada	FERC Docket CP15-115
KM Broad Run Expansion	200	Tennessee, connects to Georgia & South East	FERC Docket CP15-77
CGT WB Xpress	1,300	Connects to U.S. Gulf Coast Systems and Mid Atlantic Markets	FERC Docket CP16-38

Table 2: Proposed New-Build Pipelines

Pipeline	Capacity (Million CF/D)	Destinations	Status (FERC Docket No.)
Spectra Constitution	650	New York	Construction Stalled
CGT Leach Xpress	1,000	Gulf Coast Markets	FERC Docket CP15-514
ETP Rover	3,250	Michigan & Canada	FERC Docket CP15-93
Spectra PennEast	990	Pennsylvania	FERC Docket CP15-558
Spectra NEXUS	1,500	Michigan & Canada	FERC Docket CP16-22
Dominion Atlantic Coast	1,500	Virginia & North Carolina	FERC Docket CP15-554
EGT Mountain Valley	2,000	Virginia	FERC Docket CP16-10
CGT Mountaineer Express	750	Connects to US Gulf Coast	FERC Pre-filing
Williams Transco Appalachian Connector	1,900	Connects to Atlantic Sunrise - Mid-Atlantic and SE as far as Florida	Preliminary Evaluation
Total Capacity	13,540		

THE APPALACHIAN BASIN IS THE KEY SOURCE OF POTENTIAL U.S. GAS PRODUCTION GROWTH 15

CO11 – Oil International (cont'd)



#### CO11 – Oil International (cont'd)



#### CO11 – Oil International (cont'd)

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A starting point for looking at the climate impact of this pipeline buildout is to estimate how much gas production is enabled by the full realization of all the proposed pipelines.

Figure 5 shows the capacity implications of the region's pipeline buildout, including pipelines that are already built, those that are currently under construction, and those constraining projected Appalachian Basin yet to break ground. It also shows the Rystad Energy forecast for Appalachian

Basin gas production - in particular, the gray shaded area within the "capacity pending" area shows the total production that would be enabled by the increase in pipeline capacity from currently planned pipelines.

As the chart shows, current pipeline capacity could become full in 2017. gas production growth to 2050 and beyond. If no new takeaway capacity is

built, production of around 116 trillion cubic feet of potential gas production from now through 2050 would be avoided. New gas drilling in the region would only occur as production from existing wells declines to free up pipeline capacity. Avoiding production of the additional gas would dent U.S. gas production growth and, as we will demonstrate in subsequent sections of this report, could help prevent the U.S. from overshooting its climate goals.

Figure 5: The Appalachian Gas Pipeline Buildout and Projected Production Sources: Bloomberg New Energy Finance, Ryslad AS, RBN Energy 45,000 40,000 CAPACITY PENDING: 19.1 BCF/D 35,000 **116 TRILLION CF** 30,000 CF/D 25,000 UNDER CONSTRUCTION: 0.93 BCF/D 1 I N 20,000 CAPACITY EXPANDED: 2014-1H2016: 5.24 BCF/D 15,000 10,000 PIPELINE CAPACITY 2013: 15.95 BCF/D 5,000 18 ASSESSING THE CLIMATE IMPACT

#### CO11 – Oil International (cont'd)

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Resistance to Pipelines

Whether these proposed pipelines are new-build projects or expensions of existing infrastructure, many are facing resistance to the appropriation of land for pipeline corridors and/or additional compression stations and other associated equipment. As Map 2 shows, proposed new-build projects are heavily concentrated in West Virginis and Virginia, and resistance is particularly strong in the Allegheny Mountains, where the projects threater fragile mountain congistems, national forests, and the headwaters of the region's rivers. The threat of eminent domain to force through these pipelines has an aered many residents along these proposed routes, and growing resistance to this abuse of a law designed to appropriate land for the public good-not private profit - is increasingly threatening the realization of these plans.



Citizens resisting the proposed Atlantic Coast Interstate Gas Alpeline through West Virginia and Virginia plant Seeds of Resistance in Nelson County Virginia. June 2015. @Peter Aaslastad, Oil Change International and Bold Alliance.

ASSESSING THE CLIMATE IMPACT 19

#### CO11 – Oil International (cont'd)

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Primarily through the development of fracking and horizontal drilling, the U.S. has become one of the largest global producers to balance the responsibility for emissions of oil and gas, rivaling Saudi Arabia and Russia. The recent oil price crash has slowed to cut emissions more dramatically than its growth somewhat, but the expectation of current goal to play its role in achieving the an eventual turn in the price cycle would herald a return to the frantic drilling rates. seen in recent years.

This potential for further fossil fuel production growth represents a major challenge for U.S. climate policy. The U.S. cannot continue to supply increasing quantities of oil and gas to both domestic and global markets and strive to achieve the goals set by its climate change commitments.

This section examines U.S. climate goals. and the implications of the increase in U.S. natural gas production spurred by growth in the Appalachian Basin.

#### U.S. CLIMATE TARGETS

In 2010, the U.S. Department of State setgoals for U.S. emissions reductions in its "Fillh National Communication of the United States of America Under the United Nations Framework Convention on Climate Change."5 The long-term target is for an emissions cut of 83 percent from 2005 levels by 2050.

This goal may not be consistent with keeping warming below 2°C, even if every country cut emissions at equal rates. Equivalent emissions reduction rates raise equity issues given that the

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U.S. is responsible for the largest share of historical emissions to date. In other words, more equitably, the U.S. would likely need Paris Agreement goal of keeping warming well below 2°C.

However, as the 83 percent emissions reduction goal is the current commitment of the U.S. government, we use it here to and consumption is in sync with U.S. policy.

The emissions reduction goal set out above However, the Reference Case serves a has guided the Obama Administration's actions on climate change ever since it was put in place. While current policies are not nearly enough to fulfill the 2050 goal of an 83 percent reduction, the 2025 goal of a 28 percent reduction, which was submitted as the U.S. Intended Nationally Determined Contribution (INDC) to the Paris Agreement For the purposes of assessing whether we process," may be within grasp if policies such as the Clean Power Plan (CPP) and vehicle efficiency standards (CAFE) reach their full potential.

However, cheap, abundant natural gas may lead to a lock-in of infrastructure that would Figure 6 shows the AEO 2016 (Early undermine attainment of the more dramatic Release)12 Reference Case projections for cuts required after 2025.

NATURAL GAS CONSUMPTION AND THE U.S. CLIMATE GOAL The most commonly used energy forecast. in the U.S. is the Reference Case produced

(AEO). The EIA's Reference Case is based on a model that freezes energy policy at the time the report is produced and has a very cautious approach to technological and behavioral change. In other words, it is not meant as a forecast for how energy flows will necessarily pan out (although it is often treated as such), but rather a projection of how energy flows might look if all current policies and expectations of technology change remain static." As the projections assess whether rising natural gas production span 25 years, it is extremely unlikely that. major changes would not take place.

by the EIA in its Annual Energy Outlook

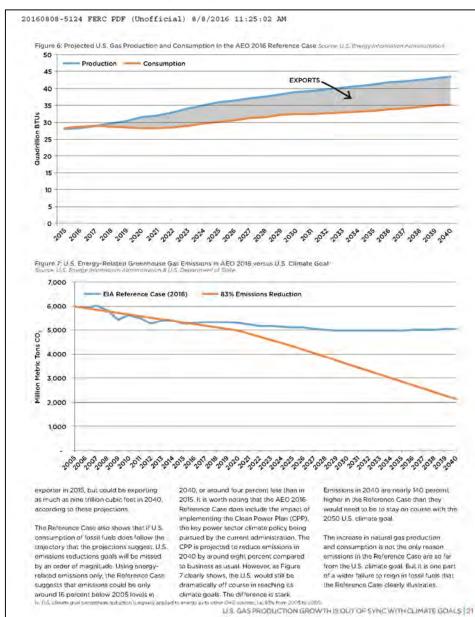
purpose of indicating what the future will look like should we stop innovating both technology and policy. When it comes to addressing climate change, the EIA Reference Case shows how much more we need to do to prevent catastrophe.

can expand natural gas production and consumption and still meet our climate goals, the EIA Reference Case is useful because it approximately matches growth goals of the gas industry.

natural gas production and consumption in the U.S. Production is expected to increase 55 percent between 2015 and 2040, while consumption is seen increasing 24 percent in the same period. The difference between production and consumption is accounted for by exports. The U.S. was a net zero

#### CO11 – Oil International (cont'd)

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#### CO11 – Oil International (cont'd)

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For rising natural gas production and consumption to fit into a scenario of rapidly declining GHG emissions, natural gas would need to be a significant enabler of substantial emissions reductions.

The natural gas industry claims that natural gas replaces coal, leading to reduced emissions. But there is increasing evidence that not only has the past role of natural gas in emissions reduction been exaggerated. but that future natural das consumption growth could account for more emissions than the U.S. climate goal allows for, even if emissions from all other sources are mitigated.

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gas infrastructure, several facts should be considered.

- 18 When methane leakage is considered, natural gas can be equally or more polluting than coal
- D Reducing methane leakage is very important, but it does not provide a license for production growth.
- () Even with zero methane leakage, replacing an old coal plant with a new natural gas plant may reduce omissions in the immediate term, but will lead to a net increase in aggregate CO, emissions if the gas plant is still emitting CO. decades after the coal plant would have been retired

#### THE EFFECTS OF METHANE LEAKAGE ARE SIGNIFICANT

Dry gas is almost pure methane (CH\_). When combusted, the greenhouse gas emitted is carbon dioxide (CO<sub>2</sub>), the same as with coal and oil. In general, the CO. nmissions associated with gas combustion are lower per unit of energy produced than with coal and oil.

But if methane is vented directly to the atmosphere without combustion, the global warming potential of that gas in the atmosphere is pound-for-pound much greater than CO., For this reason, mothane leaks occurring during the production, processing, transportation, and storage of To assuss the climate impacts of new natural gas can substantially increase its climate impact.

#### The fifth report (AR5) of the

Intergovernmental Panel on Climate Change (IPCC) updated the global warming will see in the next section that reducing potential of methane compared to CO,. Two liquies are most often quoted for the potential - a 100-year figure and 20-year figure - which refer to the potential of the gas to force temperature change over the given time span. Methane has a shorter life span in the atmosphere than CO, but a much higher impact. The ARS put the 20-year impact of methane at 86 times that of CO, and the 100-year impact at 36 times.

The methane leakage rate during the

production, processing, transportation, and storage of gas is central to assessing the climate impact of gas use. Independent analysis suggests that average US conventional gas leakage are between 3.8% and 5.4 % of total production, while shale gas leaks at roughly 12%. Both rates would put the climate impact of gas on par with, or much greater than, coal.<sup>11</sup>

In recognition that methane leaking from the oil and gas sector is a crucial issue to be addressed, in March 2016 President Obama announced an initiative with Canada to cut methane leakage from the two countries' oil and gas sectors by 45 percent.<sup>14</sup> If it can be implemented - the American Petroleum Institute threatened to sue" - this initiative would be a good start to reducing the Impact of existing natural gas supply.

However, although crucially important, we methane leakage does not provide room in the carbon budget to increase natural gas production.

#### CLIMATE IMPACTS OF **RISING GAS PRODUCTION** OUTWEIGH METHANE MITIGATION

The idea of natural gas as a 'bridge' to a low carbon future is a much-used talking point for the industry and its supporters. but study after study has examined the lissue to find that increasing gas-fired power

22 NATURAL GAS DOES NOT PROVIDE NEEDED CLIMATE BENEFITS

#### CO11 – Oil International (cont'd)

generation canonly at best shave a couple of percentage points from overall emissions rates, and may undermine the transition to clean energy entirely. One of the problems is that rising gas use does not only displace coal; it also displaces zero-carbon energy.

For example, a Stanford University study published in 2013 used a variety of modeling tools to estimate the "emissions and market implications of new natural gas supplies.<sup>14</sup> The study found that none of the six modeling systems they sampled showed a significant reduction in U.S. emissions as a result of rising gas use up to 2050. The authors concluded that "b]hale development has relatively modest impacts. on (emissions), particularly after 2020. Over future years, this trend towards reducing emissions becomes less pronounced as natural gas begins to displace nuclear and renewable energy." In general, the models used found that higher gas supplies lowered prices for gas and increased primary energy demand, leading to higher emissions in the 2050 projections than in the lower gas supply scenario.

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Another study from different researchers at Stanford together with U.C. Irvine found that complative U.S. GHG emissions from 2013 to 2055 were a mere 2% lower in a one.\* They found that without strict climate policies, increased natural gas supply would also found that methane leakage rates from not only reduce coal-lired generation



Contamination caused by an oil and gas well failure. @FracTracker Alliance

but renewable energy generation as well. Similar to the EIA Reference Case, this leads are barely less than they are today. They zero to three percent made little difference

to the overall result. Once again, in this study the effect of higher gas supplies is high gas supply scenario compared to a low to U.S. power sector emissions in 2050 that to reduce renewable energy market share and maintain unsustainable levels of CO., emissions.

NATURAL GAS DOBS NOT PROVIDE NEEDED CLIMATE BENEFITS 23

CO11 – Oil International (cont'd)



Statoil Kuhn Well Pad, West Virginia @FracTracker Alliance

Most recently, a study out of Oxford University examined the '2°C Capital Stock' to see how close the world is to building the electricity generation infrastructure that, if utilized to the end of its economic life, would take the world past the 2°C goal \* The disturbing conclusion they came to is that we will be there in 2017. Those researchers used a 50-50 chance. of staying below 2°C, in the climate model simulations, which we consider highly risky given the consequences of crossing the 2°C threshold.<sup>10</sup> The authors conclude that "[p]olicymakers and investors should question the economics of new long-lived energy infrastructure involving positive net emissions."

The paper raised an important point about replacing coal plants with gas, particularly when the coal plant is due to retire within a decade or so. In the case of a coal plant with ten years of economic life left, shutting the coal plant early and replacing it with a gaslined generator may out emissions in half (assuming no methane leakage) for those

list ten years. But when the gas plant's economic life is 40 years, the cumulative emissions from the gas plant are infact double those from the years of operating the coal plant. This is because the gas plant would emit half as much CO<sub>4</sub> per year, but for forty years rather than ten.

The netwe of the climate problem is that it is the total cumulative emissions that matter. Once we have tilled the atmospheric space with GO<sub>2</sub> there is no turning back. As we enter a period in which we have just a few decades at best to decarbonize, it is time to seriously question any investment in infrastructure that does not clearly and dramatically reduce emissions.

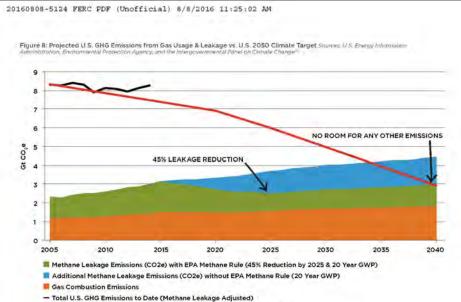
RISING U.S. GAS CONSUMPTION MAKES MEETING U.S. CLIMATE GOALS IMPOSSIBLE Using the EIA's ourrent Reference Case as a starting point, we calculate that emissions from projected U.S. natural gas consumption growth would more than overshoot U.S. climate goals, in other words, even if the U.S. reduced all coal and petroleumuse to zero by 2040, the U.S. would still exceed its climate goals based on natural gas emissions alone.

This is even more concerning in light of the fact that the projections factor in the methane leakage reduction goals recently proposed by the EPA. This means that even under reduced methane leakage rates, U.S. gas demand must decline over the rest 25 years in order to meet climate goals. This is in stark contrast to both EIA projections and the amb ithor of the gas industry, which is focused on massive production growth primarily centered on the Appalachian Basin.

Figure 8 shows our estimate of emissions from gas consumption and methane leakage together with the trajectory of the U.S. climate goal to out emissions 83 percent from 2005 levels.'It is clear that methane leakage plays a very large role in the emissions associated with gas consumption and that reducing leakage

24 NATURAL GAS DOES NOT PROVIDE NEEDED CLIMATE BENEFITS

#### CO11 – Oil International (cont'd)



- 83% Reduction by 2050 (with Interim Goals) Adjusted for Methane Leakage

can cut emissions dramatically. However, our calculations show that the rise in gas consumption alone projected by the EIA would lead to emissions from gas that would surpass the current long-term U.S. climate target by 2040, even after accounting for methane leakage cuts. This ignores the emissions from the production (and consumption) of exported gas.

Even if natural gas were the only source of greenhouse gas emissions in 2040 (and there were zero emissions from coal, oll, coment, and all other sources), the U.S. would still blow its carbon budget. This makes it clear that the growing use of gas is out of sync with U.S. climate goals.

#### About Figure 8:

We used leakage rates of 3.6%, which is the low end of estimates of gas leakage in production from Howarth 2015. These rates are then reduced 45% under the EPA rule, which we treat as phased in on a straight line from 2015 to 2025.

We have adjusted the EPA's GHG totals to be comparable with the natural gas emissions, by replacing its (low) estimates of methane leakage from natural gas production, As well as understating the volumes (compared to other recent assessments), the EPA used the 100-year global warming obtential (GWP) of methane, which is much lower than the 20-year GWP because though potent, methane is short-lived. We have used the 20-year GWP because whereas CO2 accoundates in the atmosphere cover the long-term, the impact of methane is felt in the short term: according to the latest climate science, the impact of short-lived GHGs is related more closely to their annual emissions than their cumulative emissions - and is most significantly felt at the time of peak CO2 concentrations. In this respect the shorter-range GWP is the relevant measure.

(For further discussion see IPCC 5AP WG1 sec 13.5.4.p. 1108, http://lpcc.ch/pol/assestament report/ar5/wg1/WG1APS\_Chapter(2\_FINAL puth and sec.8.7.112, pp.71-732, http://poc.ch/pdl/ assessment-report/ar5/wg1/WG1APB\_ChapterD FINAL.odf

NATURAL GAS DOES NOT PROVIDE NEEDED CLIMATE BENEFITS 25

#### CO11 – Oil International (cont'd)

20150908-5124 FERC FDF (Unofficial) 8/8/2016 11:25:02 AM

# -WABIEE

As renewable energy evolves, natural gas-fired power generation increasingly competes not only with coal, but with renewable energy as well. If the abundance of natural gas locks in natural gas power capacity that renewable energy could have filled, the net increase in GHG emissions is vast. As the world looks for ways to reverse emissions growth and move as rapidly as possible towards zero carbon, building new gas capacity where disaster for our climate.

R-205

The idea that we need to increase gasfired generation now because renewable energy is not yet ready is rapidly losing what little validity it over had. In many parts of the Unites States and the world, renewable energy is today the lowest cost. capacity to our electricity system.<sup>21</sup> There is nothing standing in the way of building the renewable energy capacity we need to sustain our electricity needs except the entrenched interests of the natural gas industry.

The past decade has seen an accelerating transformation of the renewable energy sector, and innovation and evolution in the sector is far from over. In the coming decade, we can only expect greater economies of scale and more transformational technology.

The rapid growth in first wind, then solar, and now efficiency and battery storage, suggests an imminent transformation of our next wave of growth for the sector will be energy landscape. There is now little doubt in 'repowering' retiring equipment with that the future will be powered by clean energy. We now need to accelerate the

Solar: The U.S. solar energy sector grossed over \$22.6 billion in 2015, a 21 percent increase over 2014, and 174 percent greater zero-carbon technology is possible is a clear than in 2011.<sup>10</sup> This revenue growth is all the more remarkable given that costs have declined 80 percent since 2008.<sup>21</sup> Installed recently reported that, "The past live solar capacity totaled 27 GW in 2015, and is expected to grow at least fourfold by 2022.<sup>14</sup> Small-scale solar could attract around \$10 billion of investment per year over the next 25 years in the U.S. alone.=

and lowest impact means to add generation Globally, the amount of electricity produced that U.S. electricity demand will likely peak by solar power has doubled seven times since 2000 <sup>28</sup> As Tom Randall at Bloomberg growth providing one of the few remaining Business puls it, "(t)he reason solar-power drivers of power demand growth. This generation will increasingly dominate; It's a means that new generation capacity will technology, not a fuel. As such, efficiency increases and prices fall as time goes on.""

> Wind: U.S. wind enjoyed revenue growth of 75 percent in 2015 despite tax structure uncertainty that was finally resolved at the end of the year. Costs have fallen 50 percent since 2009 7 Onshore wind is at cost parity with new-build gas in many parts of the country and is set to reach cost parity in all parts of the country by 2025.29

The CEO of wind generator giant Vestas recently told investors in London that the new more powerful and efficient turbines.<sup>34</sup> This signals a maturing industry set to transformation in line with our climate goals. increase market share through technology improvements.

> Efficiency and Flattening Demand: Increasing energy efficiency is reducing the demand for electricity in America. Bloomberg New Energy Finance (BNEF) years in the US have seen a fundamental decoupling between electricity demand, on the one hand, and population and GDP, on the other. Looking across the next 25 years, we anticipate this trend to continue " The BNEF New Energy Outlook 2016 projects in 2022, even with robust electric vehicle in most cases replace retiring capacity, providing an opportunity to dramatically reduce emissions through switching from coal and gas to renewable energy.

Storage and Batteries: The U.S. energy storage sector grew ten/old in 2015, generating over \$730 million in revenues.<sup>(1)</sup> All indications are that energy storage is poised to change the energy sector forever Primarily driven by demand for electric

#### CO11 – Oil International (cont'd)

20160808-5124 FERC PDF (Unofficial) 8/8/2016 11:25:02 AM

vehicles, lithium-ion battery costs fell 65 percent from 2010 to 2015, <sup>32</sup> Further cost declines and performance improvements are widely expected, with some estimating a further 60 percent cost decline by 2020.<sup>34</sup>

The next areas of market penetration are likely to be utility-scale storage as well as residential- and commercial-scale applications for both supporting solar generation and balancing demand from the grid. Tesla's PowerWall battery is Rely to be just one of many products on the market designed for storing energy for use in buildings by the early 2020s. The company's 'Gigafactory' is soon to be followed by several others already under construction in the U.S. and China. According to Navigant Research, global new installed energy storage systems for renewable energy integration power capacity is expected to grow from 196.2 HW in 2015 to 12.7 GW in 2025, a 65-fold increase in ten years.<sup>34</sup>

BNEF projects exponential growth in what it calls "behind the meter" storage batteries supporting solar energy systems and demand balancing in homes and commercial buildings. Gibbally, this use of batteries could grow from 400 megawatthours today to 260 gigawatt-hours by 2040.<sup>44</sup>

Clean Energy Jobs: The clean energy sector is also breaking barriers when it comes to

Solar voltaic panels. @Associated Press



#### CO11 – Oil International (cont'd)

20160808-5124 FERC FDF (Unofficial) 8/8/2016 11:25:02 AM

job creation. The International Renewable Energy Agency reported that 2015 saw clean energy jobs sup as oil and gas for the first time. The global clean energy workforce grew Specient in 2015 to reach \$1 million workers, and is expected to trible to 24 million by 2030.<sup>14</sup>

#### AVOIDING LOCK-IN

Looking dhead, it is increasing ly clear that renewable energy willbe the least-cost option for new generation capacity, with oosts continuing to decline while the cost of gas-lined power increases, in other words, expanding gas-lined power today threatens to bock in an increasingly expensive source of power when cheaper, cleaner renewable energy willbe available to meet our energy needs. The latest date and projections from BNEF illustrate this point.

According to BNEP's New Energy Outlook 2016, which and solar power are already competitive with low-priced gas in certain markets in the U.S., where both renewable resources are abundant and state polices are favorable.<sup>35</sup>

However, as we move into the next decade, the unsubsidized cost of clean power across the country willbecome decage: than newbuild gas power, which requires new capital built will not yet be cheaper than the cost of existing gas-lined power plants where capital has already been such?<sup>20</sup> The demonstrates the danger of locking in more gas-lined power than is optimum in the coming decade

R-207

Dristing power plants are in a position to reduce their selling pribeto compete, even if itmeans making a long-term loss on capital This is because once capital is surk, it is better to keep operating as long as revenue covers operating costs. Any additional revenue generated above oper ating cost reduces the loss on capital Therefore, new utility scale renewable energy projects will face stiff competition from existing gas-fired power plants until installation capital costs become lowenough that they can undercut existing gas plants and still provide aretum on capital.

As natural gas prices are likely to rise over time (gas being a finite resource) renewable energy plants will eventually reach a point when they will price out even existing

28 RENEWABLE ENERGY IS READY

plants. However, when it comes to meeting climate goab, it is imperative to keep in mind the urgency of the problem and the danger of locking in polluting infrastructure now.

As gas-lited power plants and pipelines built today generally have a design life of around forty years, gas infrastructure built over the next decade could be operating in the 2050s and beyond. It is imperative that we avoid locking in emissions today that we cannot afford to emit in the later part of the infrastructure's economic lifespan.

INTERMITTENCY, BASELOAD, AND STORAGE ARE NOT BARRIERS TO RENEWABLE ENERGY GROWTH

Huch is made by fossil fuel proponents of the intermittency of wind and solar and the need for some break through in energy storage before we can give up on fossil fuels and substantially increase levels of renewable energy generation. These solutions are somet times said to be decades away. These arguments do not reflect either the reality of renewable energy today or where it is heading.

Wind and solar energy provided 6.2 percent of total power generated in the U.S. in the past year<sup>36</sup> All merevable generation, including wind, solar, geothermal, biomass, and hydro, hit close to 15 percent of generation.<sup>30</sup> A 2012 report by the National Renewable Energy Laboratory that extensively examined high-penetration renewable energy scenarios for the U.S. found that by better managing existing dispatchable power and storage capacity, the U.S. grid can handle as much as 50 percent wind and solar penetration and still keep the grid balanced.<sup>31</sup>

Advances ingrid management are reducing intermittency issues associated with increasing wind and solar penetration. Wind and solar tend to have complementary cycles of power availability. Solar power obviously tracks the sum in peaking around the middle of the day. Offshore wind tends to log higher generation during the day as well, whereas onshore wind tends to namp up around disk and peaks during the night. Greater penetration of diverse renewable energy technologies is a solution to intermittency rather than a source of it.



One analysis spin are to using the Law of Large Numbers, in which a larger number of variables - in this case weather and diurnal dynamics at widely dispersed locations tend to result in less volatility across the whole. \* Sophisticated algorithms, similar to those used to manage online advertising, are increasingly being used to predict wind and solar dynamics and facilitate grid management in areas of high renewable energy perstration. \*

The increasing doility to manage grid dynamics with high renewable energy penetration has also undermined another standard taking point of fassil fuel proponents: that renewable energy cannot provide reliable baseload power, which can only be supplied by fassil fuel and nuclear

CO11 – Oil International (cont'd)



#### Solar voltaic panels. @Associated Press

R-208

plants. Earlier this spring, top executives at the world's largest or id operator, China State Grid Corp., told a submed audience of fossil fuel executives at an industry conference in Houston that, "coefficied generators could only serve as "teserve power" to supplement renewables", and that "[{The only hundle to overcome is mindset." There's no technical challenge at all.<sup>144</sup>

Evidence from China and Australia shows that coal is indeed increasingly serving as reserve power. Some coal plants in those countries are numing at barely 50 percent utilization, and insome cases even less.<sup>46</sup> Grid operators are increasingly using thermal power plants, where operating coats are relatively high due to fuel costs, to supplement other sources rather than as base bod. Siven Teske, an analyst with the histitute for Sustainable Futures in Sychey states that "[b]ase bad is not a technical concept, it is an economic concept and a business concept of the coal industry that is no longer feasible.<sup>169</sup> According to Teske, the focus of grid operators will move toward nerveable energy, flot ble generation, demand management, and energy efficiency.

These factors point to the ability of the U.S. electricity system to absorb increasing levels of nenewable energy penetration before a substantial increase in storage will be needed. Nevertheless, the development of affordable storage solutions is happening at a rapid pace. As detailed above both

utility scale and 'behind-the meter' storage solutions are set to exponentially increase their market penetration over the next decade. The age of affordable power storage is upon us.<sup>47</sup>

Exentially, the issue of how much renewable energy can be absorbed into the grid has been solved. It is now up to the industry to invest in genuine clean energy and for government to forge policies that support the speed iest transition possible.

RENEWABLE ENERGY IS READY 29

#### CO11 – Oil International (cont'd)

20150908-5124 FERC FDF (Unofficial) 8/8/2016 11:25:02 AM

The development of new and expanded gas pipelines out of the Appalachian Basin could unlock significant new flows of natural gas. These pipelines would drive an increase in U.S. gas production that would be incompatible with achieving stated climate goals.

Enabling U.S. gas demand to follow the current projection in the EIA Reference Case (2016) would lead to emissions from gas alone that would surgass the U.S. emissions goal by 2040. In other words: the current trajectory of gas production and demand is out of sync with the nation's climate goals and must be constrained.

Data presented in this report shows that the vast majority of projected gas production growth would likely come from the Appalachian Basin, but this can only happen if the pipeline projects listed in this report go ahead. That should not be allowed to happen.

The surge in gas-fired power generation that would accompany this production growth is not an inevitable or needed feature of our nation's future power market. Clean energy technologies are surging ahead at this time and are projected to become a leading source of energy in the coming decade. Our electricity and is set to be transformed into a system based on diverse and flexible generation sources,

storage solutions, and advanced grid management. Total power demand is set to decrease even as electric vehicles grow to become a major new source of demand. Now is the time to question the need and impact of new fossil fuel infrastructure and plan an energy future that is in sync with climate science.

When President Obama made the historic decision to deny the Presidential Permit for the Keystone XL pipeline he did so because. Recommendations: in his words: "America is now a global leader 10 All federal government agencies and when it comes to taking serious action to fight climate change. And frankly, approving this project would have undercut that global leadership. And that's the biggest risk we face - not acting."ut

Not acting to constrain gas production and consumption to within science based climate limits is a major risk we face. This and future administrations have the ability to apply the same standard to gas infrastructure what was applied to the Keystone XL pipeline. That means applying a climate test to these proposed gas pipelines and all proposed lossil fuel infrastructure. A climate test would assess the need for new fossil fuel infrastructure against science-based climate goals.

The challenge to meet the Paris Agreement's goals of keeping average global warming well below 2°C and

pursuing a 1.5°C target cannot be met if a business-as-usual policy continues to permit an expansion of fossil fuel supply. For this reason, every government agency should apply a climate test if it is faced with any decision that could increase fossil fuel supply. FERC, which authorizes the construction and expansion of interstate natural gas pipelines, cannot be exempt from this requirement.

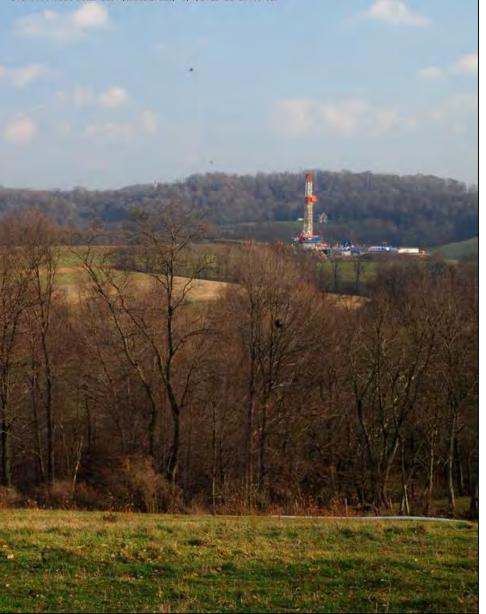
- departments, including FERC, should apply a climate test in the permitting processes of all lossil fuel infrastructure, including Programmatic Environmental Impact Statements:
- D No new natural gas pipeling projects should be considered unless they can pass a climate test. The climate test should be applied to all currently. pending and future pipeline applications.
- III The EIA should provide detailed guidance in the form of alternative cases in its Outlook reports for U.S. fossil fuel supply and demand under various climate goals, including the nation's long-term climate goal, a 2°C path, and a 1.5°C path.

Rig PA Schmening, FracTracker Alliance

30 CONCLUSION AND RECOMMENDATIONS

### CO11 – Oil International (cont'd)

20160808-5124 FERC FDF (Unofficial) 8/8/2016 11:25:02 AM



#### CO11 – Oil International (cont'd)



32 ENDNOTES

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CO11 – Oil International (cont'd) 20160808-5124 FERC PDF (Unofficial) 8/8/2016 11:25:02 AM . . .

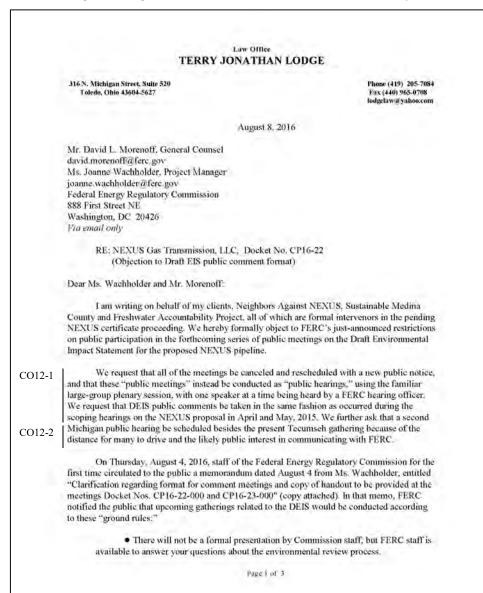
**Companies/Organizations Comments** 

### CO11 – Oil International (cont'd)

R-213



#### CO12 – Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project



- CO12-1 FERC provided opportunity for the public to provide comments on the draft EIS electronically, by mail, or in person. All comments received are publicly available as part of the docket for the project and can be viewed on the FERC website, regardless of whether the person was in attendance at the meeting or not.
- CO12-2 Comment noted. Meeting locations were selected to provide access to all affected landowners along the route with a reasonable travel distance.

#### CO12 - Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)

Individual verbal comments will be taken between 5:00 and 10:00 PM on a
one-on-one basis with the court reporter. Sign-up for providing verbal comments is at the
main table. You will be called individually to record your comments with the court
reporter.

 Time limits on verbal comments may be limited to 3 to 5 minutes dependent on the number of people signed up to provide comments to ensure that all those wishing to comment have the opportunity to do so within the designated meeting time.

 Remain quiet in all meeting spaces so the court reporter can hear the individual providing comments. Please be mindful of room capacity and allow other interested individuals an opportunity to make comments.

 Individuals or groups may submit written comments in addition to or in lieu of providing verbal comments.

CO12-3 We object to the use of this format. There is growing opposition to the NEXUS pipeline proposal along most of its anticipated route. FERC-sponsored gatherings are key opportunities for citizens to communicate with their government. The imposition of a one-on-one court reporter encounter is intimidating and restricts the opportunity for people who oppose the pipeline from identifying one another and learning information about the opposition. The public has a first Amendment freedom of association right which is being directly undermined by the FERC meeting structure.

One Michigan opponent contacted FERC staffer Sarah McKinley last week about the plan for the meetings, and was told by Ms. McKinley that the one-on-one court reporter meetings would avoid a "free-for-all atmosphere." Ms. McKinley admitted that no one outside the meeting rooms where statements would be taken would be able to hear the comments being recorded. There have been no public meetings or hearings related to NEXUS which could be characterized as "free-for-alls" and even if there were, there are other means of maintaining order than to destroy citizens' First Amendment association rights.

CO12-4 Indeed, FERC's proposed setup seems likely to invite, not staunch, free-for-alls. For example, to attend the sole gathering planned in Michigan, people will have to travel long distances, expecting to hear a diverse range of opinions, only to find out when they arrive that the "meeting" requires that they talk to an empty room, save for a court reporter. Some will leave in frustration, lacking the confidence to talk before a court reporter, alone in a room. Others will manifest their frustration in other ways.

This pipeline scheme directly affects people's lives - in their homes, on their farms and at their places of business - and FERC is signaling that those possible personal catastrophes count far less than squelching the public's say in order to put the pipeline through without controversy. Coming to FERC public hearings may be many citizens' only means of being heard by their government and of becoming acquainted with opposition organizations. Surely FERC couldn't seriously believe that this format will encourage public participation.

The Intervenors see the restrictions imposed on these gatherings as a form of retaliation

Page 2 of 3

- CO12-3 FERC provided opportunity for the public to provide comments on the draft EIS electronically, by mail, or in person. There was no restriction at the comment sessions for people to talk to one another, as was evident by numerous small groups discussing the project and their concerns amongst each other.
- CO12-4 Comment noted. We note that there were no disruptions to the comment sessions and anyone who expressed an interest in providing verbal comments had the opportunity to do so in the time allotted.

#### CO12 – Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)

for the very success of citizen opposition. NEXUS opponents have generated a great deal of CO12-5 public comment and pressure. The restrictions are FERC's retaliation for the voluminous exercise by many of their First Amendment speech and association rights. Why did FERC wait for a month after public notice of the public meetings to finally explain how they will be run. until days before the meetings? With such short notice there is no time for the public to organize and object. FERC appears to be intent on assisting NEXUS in obtaining its federal certificate with a minimum of controversy.

CO12-6 We bring our objection in order to exhaust our administrative remedies prior to suit. If there is a specific grievance resolution track within FERC for the processing of objections such as this, kindly advise and directly me to it immediately. Otherwise, I will assume that we have contacted the proper FERC staff to investigate our First Amendment retaliation claim and to act in the public interest to end it.

> To summarize: we request that FERC cancel and reschedule the Draft EIS events as formal public comment hearings, even if that adds more time to the process. Many members of the public have a personal, emotional and economic stake in FERC's decision. Fairness and the participation requirements of NEPA must be scrupulously observed.

Thank you.

For the Intervenors.

/s/ Terry J. Lodge Terry J. Lodge

ce: Katharine Jones, Leatra Harper, Liz Victor

CO12-5 Comment noted.

CO12-6 Concerns about the format of the public comment meetings are noted. FERC received both positive and negative feedback regarding the format and will continue to review and adjust the meetings as necessary.

Questions and concerns about FERC procedures can be address to the Commission's Office of External Affairs - State, International, and Public Affairs Division. This division is the primary contact for the general public, as well as state regulators and other governmental entities, international public utility regulatory bodies, industry, trade associations, regional coalitions, consumers, communities, public interest groups, and landowners. The division can be reached at:

Toll-free: 1-866-208-3372

Email: customer@ferc.gov

Page 3-of 1

CO12 – Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)

	MEMORANDU
Memo from:	Joanne Wachholder OEP/DG2E/Gas 2
Date:	August 4, 2016
Subject:	Clarification regarding format for comment meetings and copy of handout to be provided at the meetings. Docket Nos. CP16-22-000 and CP16-23-000
This way	need in internal of the Merille the meaning Promote desculbed in the Meriles of
Availability of	mo is intended to clarify the meeting format described in the Notice of the Draft Environmental Impact Statement for the Proposed NEXUS Gas project and the Texas Eastern Appalachian Lease Project (Notice) issued
Availability of Transmission F on July 8, 2016 The Not presentation by questions abou PM and we wil goal is to have public record." verbal commen This format is a	the Draft Environmental Impact Statement for the Proposed NEXUS Gas Project and the Texas Eastern Appalachian Lease Project (Notice) issued

CO12 - Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)



Federal Energy Regulatory Commission Providing Draft EIS Comments Overview

#### **Comment Meeting Purpose**

The primary purpose of this meeting is to give you the opportunity to provide environmental comments on the draft Environmental Impact Statement (EIS) prepared by Federal Energy Regulatory Commission (FERC) staff on the NEXUS Gas Transmission Project (NGT Project) and the Texas Eastern Appalachian Lease Project (TEAL Project). The National Environmental Policy Act (NEPA) requires an environmental evaluation be completed for federal actions. In the case of the NGT and TEAL Projects, the federal action is the FERC decision whether the proposed Projects are in the public convenience and necessity.

FERC is the lead federal agency responsible for evaluating applications to construct and operate interstate natural gas pipeline facilities under NEPA. Cooperating agencies participating in the development of the EIS include the U.S. Fish and Wildlife Service and the U.S. Army Corps of Engineers. The FERC and cooperating agencies, therefore, are not advocates for the NGT and TEAL Projects, but advocates for the environmental review process.

Comments on the draft EIS can be provided tonight in a written format or verbally on a one-on-one basis to a court reporter. The goal of this meeting is to allow for the maximum amount of verbal comments within the timeframe allotted. All comments will be made part of the official record for these proceedings. All comments are considered equally regardless of the format in which they are received. It will help if your environmental comments are as specific as possible regardling the proposed projects and the draft EIS.

#### General Ground Rules for Verbal Comments with the Court Reporter

- There will not be a formal presentation by Commission staff, but FERC staff is available to answer your questions about the environmental review process.
- Individual verbal comments will be taken between 5:00 and 10:00 PM on a one-on-one basis with the court reporter. Sign-up for providing verbal comments is at the main table. You will be called individually to record your comments with the court reporter.
- Time limits on verbal comments may be limited to 3 to 5 minutes dependent on the number of
  people signed up to provide comments to ensure that all those wishing to comment have the
  opportunity to do so within the designated meeting time.
- Remain quiet in all meeting spaces so the court reporter can hear the individual providing comments. Please be mindful of room capacity and allow other interested individuals an opportunity to make comments.
- Individuals or groups may submit written comments in addition to or in lieu of providing verbal comments.

#### Comment Period

The formal draft EIS comment period is open until August 29, 2016. Written comments can be submitted at the meeting tonight or: 1) Electronically on the FERC website using the eComment or eFiling features on <u>www.ferc.gov</u> or 2) Via U.S. Postal Service to the following address:

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission

CO12 – Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)

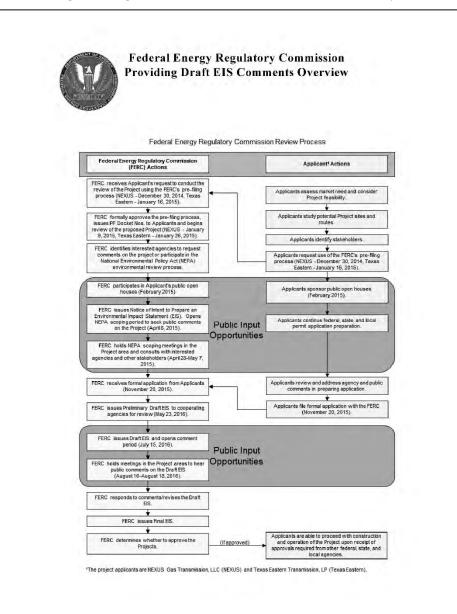


Federal Energy Regulatory Commission Providing Draft EIS Comments Overview

888 First Street NE, Room 1A Washington, DC 20426

All comments formally submitted will become part of the FERC dockets for the Projects (Reference FERC Docket No. CP16-22-000 for NGT and CP16-23-000 for TEAL).

CO12 – Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)



CO12 – Neighbors Against NEXUS, Sustainable Medina County, Freshwater Accountability Project (cont'd)



Federal Energy Regulatory Commission Providing Draft EIS Comments Overview

### CO13 – Medina County Economic Development Corporation

		CP16-22-000
		Fronomic
	1	Economic Development
	August 3, 2016	Corporation
		A NON-PROFIL COMPANY
	Ms. Kimberly D. Bose, Secretary	MEDINA COUNTY, OHIO
	Federal Energy Regulatory Commission	
	888 First Street NE	
	Washington, DC 20426	
		BOMOMAL
	Dear Secretary Bose:	
	The proposed NEXUS Gas Transmission p	project (Docket Number CP16-22-000) represents the kind
		Directors of the Medina County Economic Development
	Corporation (MCEDC) wants to support.	On behalf of the board, I am writing to express our hope
	that the Federal Energy Regulatory Com	mission will approve the project's permit application.
		embers representing private-sector businesses, county
		stitutions. We are keenly aware of the role that natural gas
3-1		panies. While the United States has an abundant supply of
		fficient infrastructure to fully leverage this natural resource
		US project addresses this inadequacy by providing a on cubic feet of natural gas per day to market.
	pipeline capable of transporting 1.5 billio	in cubic leet of hatdrai gas per day to harket.
	The MCEDC's position on the shale oil an	d gas industry for the state of Ohio was put on record in
		proved a statement that declared support for "the
	· · · · · · · · · · · · · · · · · · ·	f Medina County's economy through the development of
	-	vorked tirelessly to fulfill our commitment to attracting
		ry, as well as businesses that can become members of the
3-2		Iso has worked diligently to promote awareness of the
	the needs of residents and government of	pers of the community and work collaboratively to address
	the needs of residents and government of	inclus.
	According to NEXUS Gas Transmission, LL	C, the NEXUS project is expected to be approximately 255
3-3		e projected its construction will generate 6,800 jobs and
		fore than 23 miles of the proposed 255-mile interstate
		edina County. This presence will provide numerous
	•••	imated \$6.3 million in additional annual tax revenue to
	and public safety, which directly benefit t	in funding for core government services, such as schools
	and public safety, which directly benefit i	the public.
		porting the NEXUS project and approves its permit
		Ë N
	application.	
	Sincerely,	NULATO
	Sincerely,	SECRETAI COMM <b>BIL AUG ,</b> FEDERAL NULATORY
	Sincerely,	SECRETARE COMMISS SIL AUG , 8 FEDERAL EI JULATORY CO
	Sincerely, Betteny Duntler	SECRETALED COMMISSION III AUG , 8 P FEDERAL ENER IULATORY COMM
	Sincerely,	SECRETARY OF TH COMMISSION III AUG , 8 P 3 FEDERAL EXERGY IULATORY COMMISS
	Sincerely, Bettery Durtler Bethany Dentler, CECD	SECRETARY OF THE COMMISSION AND ANG , 8 P 3: 55 FEDERAL ENERGY INLATORY COMMISSION
	Sincerely, Bettany Duntler Bethany Dentler, CEcD Executive Director Medine Count	SECREFILED CONTRISSION III AUG , 8 P 3: 55 FEDERAL ENERGY CONTRISSION ty Economic Development Corporation by Seconomic Development Corporation by Street, Suite 202 • Medina, Ohio 44256

013-1	Comment noted
013-2	Comment noted.
013-3	Comment noted.

### **Companies/Organizations Comments**

### CO14 – Board of Trustees of Friends of Medina County Parks

	Thomas K James, Medina, OH.
	From: Friends of Medina County Parks, Inc.
	6364 Deerview Lane
	Medina, Ohio 44256
	Mr. Nathaniel J. Davis, Sr., Deputy Secretary
	Federal Energy Regulatory Commission
	888 First Street N.E., Room 1A
	Washington, DC 20426
	Re.: CP16-102-000 et al (Nexus Gas Transmission Project)
	Dear Mr. Davis:
	The Board of Trustees of Friends of Medina County Parks, Inc. wishes to go on record in support of the City of Green Route Alternative or a similar route as discussed in the Draft Environmental Impact Statement (EIS) released by your office on July 8, 2016. Further, the trustees wish to comment on the Chippewa Lake C Route Variation.
	Friends of Medina County Parks is a charitable organization formed to support the mission and operation of Medina County Park District. The board of trustees is elected annually to conduct the business of the organization. The issue of the Nexus pipeline project was discussed by the board at its July 20, 2016 meeting. The discussion included a review of the recommendations of the draft environmental report.
L	Medina County has been growing at a rapid pace for many years. In the 1990s, the county was the fastest-growing county in the State of Ohio. For most of the past twenty years, it has been the fastest- growing county in Northeast Ohio. As you might expect, the population of the county has been expanding rapidly. These facts make the selection of the current proposed route for the Nexus pipeline a perplexing decision.

CO14-1 Comment noted.

#### CO14 - Board of Trustees of Friends of Medina County Parks (cont'd)

CO14-2 In the draft EIS, the authors indicate the City of Green Alternative is, at the least, an equal alternative to the currently proposed route. The report continues and states on page 3-27, "However, we recognize that a more detailed routing analysis of the alternative route to avoid forested areas and other impacts, including a presentation of a proposed compressor station, could improve the advantages of the alternative." This reasoning makes it apparent that, with due diligence on the part of Nexus, the City of Green Alternative could be a better route for the pipeline to take. We support this route since it would remove all impacts to Medina County Park District property and would also remove impacts to three other park districts along the route. We encourage further study of the City of Green Alternative or the CO14-3 creation of a similar route that would move the pipeline to areas of the state with less population density.

CO14-4 The Chippewa Lake C Route Variation has been recommended by the draft EIS. On page 3-68, the report states, "The variation would also completely avoid the crossing of county/metro parks." This statement is incorrect. This route impacts a three-acre parcel owned by Medina County Park District. It is important to note that this area contains the Medina County Home cemetery. While not mapped, this area was used to bury indigent residents of the county home for many years. The graves are unmarked. CO14-5 This area should not be disturbed by pipeline construction. The relocation of the line to the west to

14-5 In a real and/or the distance of y preme construction. The relocation of the line to the west of avoid this impact would cause more damage to Buckeye Woods Park than the currently proposed route. The Friends trustees oppose any deviation from the Chippewa Lake C Route Variation that would have a negative impact on Buckeye Woods Park.

Thank you for the opportunity to comment on this project. Should you have any questions, or if you need further clarification, please do not hesitate to contact me.

Sincerely,

Thomas K. James, Secretary/Treasurer

Friends of Medina County Parks, Inc.

c: Ms. Kimberly B. Bose, Secretary, Federal Energy Regulatory Commission

- CO14-2 See section 3.3.3 for a discussion of the City of Green Route Alternative. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.
- CO14-3 See the response to comment LA3-2.
- CO14-4 See section 3.4.11 for an updated discussion of the Chippewa Lake Route Variations.
- CO14-5 See section 3.4.11 for an updated discussion of the Chippewa Lake Route Variations.

### CO15 – International Union of Operating Engineers Local 18

	A Section of Operating Engineers Local 18 and its Branches · Serving Ohio THIRTY-FIVE FIFTEEN PROSPECT AVENUE · CLEVELAND, OHIO 44115-2648 (216) 432-3138 FAX: (216) 432-0370
	*
	August 11, 2016
	Ms. Kimberly D. Bose
	Secretary Federal Energy Regulatory Commission
	888 First Street, NE Washington, DC 20426
	LETTER OF SUPPORT - PROPOSED NEXUS GAS TRANSMISSION PROJECT - DOCKET NUMBER CP 16-22-000
	Dear Ms. Bose:
CO15-1	This letter represents my, and the International Union of Operating Engineers, Local 18's ("Local 18"), support for the NEXUS Gas Transmission Project (" <b>NEXUS</b> ") planned for eastern Ohio. The <b>NEXUS</b> is an important infrastructure project that will help continue the growth of the Utica and Marcellus Shale Exploration in Ohio and surrounding states. The oil and gas industry has provided a number of great jobs to our membership which in turn contributes dollars to their fringe benefit programs. If approved, the <b>NEXUS</b> will help attract and create future projects for our membership such as industrial parks and power plants.
CO15-2	Although Local 18 has pledged its support we cannot, in good faith, support any portion(s) of this project that does not utilize our 15,000 members, current and/or retired, or a statewide workforce. Because of the lasting economic impact for the State of Ohio and the potential for unlimited job creation those contractors who employ local workers should be awarded the luxury of constructing the <b>NEXUS</b> . With this said we will not and cannot endorse the selection of M. G. Dyess, Inc. from Bassfield, Mississippi to take part in this project. A lasting economic impact from the wages and fringes earned is what we want not a temporary impact with the remainder going back to Mississippi.
CO15-3	In addition to the benefits and economic impact that the oil and gas industry will provide the NEXUS proves to be the safest mode for transporting natural gas. One of the significant advantages of a pipeline such as the NEXUS is that pipelines are one of the most efficient and safest means of transportation thereby minimizing the impact on the environment. Additional
CO15-4	increased use of the pipeline will also reduce traffic on our interstate and local highway systems which are in disrepair due to the significant backlog of overdue maintenance.

CO15-1	Comment noted.
CO15-2	Comment noted.
CO15-3	Comment noted.
CO15-4	Comment noted.

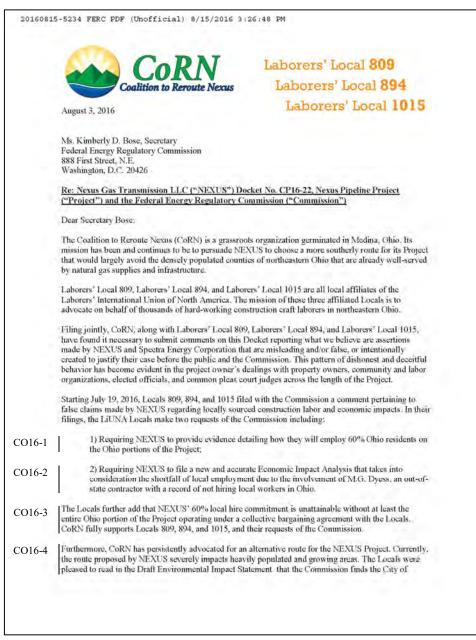
#### CO15 – International Union of Operating Engineers Local 18 (cont'd)

Ms. Kimberly D. Bose Page 2 August 11, 2016 CO15-5 Additionally, to ensure that the NEXUS remains in safe and reliable operating condition a number of redundant, overlapping layers of safety and protection will be implemented. High-tech monitoring at the gas control centers, routine foot patrols of the pipeline right of way, inspections and maintenance are just a few examples of how the NEXUS will ensure the pipeline's safety. All of these issues lead me and Local 18 to believe that this project should be approved by the Board and allow to move forward. Sincerely, Michael Bertolone Special Representative MB/pjn C: Mr. Richard E. Dalton, Business Manager

CO15-5 Comment noted.

**Companies/Organizations Comments** 

#### **CO16 – Coalition to Reroute Nexus**



- CO16-1 NEXUS has indicated that to the best of their knowledge they intend to employ 60% Ohio residents. This intention is subject to current economic conditions within the State of Ohio.
- CO16-2 Comment noted. A new economic impacts analysis is not required.
- CO16-3 Comment noted.
- CO16-4 See section 3.3.3 for a discussion of the City of Green Route Alternative. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

#### CO16 - Coalition to Reroute Nexus (cont'd)

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CO16-4 Green Route Alternative acceptable and recognizes that a more detailed routing analysis of this alternative could improve the advantages of this alternative. Locals 809, 894, and 1015 are confident that this more detailed analysis will confirm the Commission's beliefs.

Locals 809, 894, and 1015 advocate for project owners and contractors to be accountable to the communities they work in, whether it be by promoting locally sourced labor and enforcing collective bargaining agreements, or by demanding responsible construction. Therefore, Laborers' Locals 809, 894, and 1015 fully support the alternate route proposal filed by the City of Green on March 23, 2015 and the modifications as requested by the Commission.

The Commission has the responsibility to provide strong leadership in the processing of energy project applications to ensure fairness and determine consistency with the public interest. This includes responding to legitimate requests by stakeholders challenging claims made by NEXUS, Spectra Energy and DTE, the Project sponsors. The Commission also has the responsibility to use the exclusive siting authority assigned to it by Congress in the Energy Policy Act of 2005 to choose a route that adresses stakeholders' concerns, resolves problems, and incorporates alternate route proposals that are consistent with the overall project objective.

Yours truly,

The Board of Directors of the Coalition to Reroute Nexus Laborers' Local 809 Laborers' Local 894 Laborers' Local 1015

Del

David A. Mucklow

David J. Eigel

Paul L. Gierosky

Gerry Schmelzer

Herald E. Schmeline

Jonathan D. Strong

Elizebeth attalgeles

Liz Athaide-Victor, Ph.D

### CO16 - Coalition to Reroute Nexus (cont'd)

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Roberto- Worldman 10

Robert E. Workman

Thomas Ebbott

Clint rowel

Bin On

Laborers' Local 894

**Business Manager** 

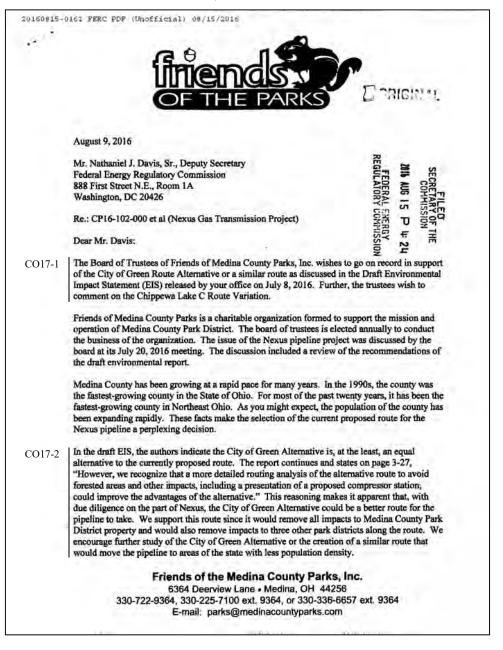
Bill Orr

Clint Powell Laborers' Local 809 Business Manager

Jake Cu

Jake Croston, Jr. Laborers' Local 1015 Business Manager

#### **CO17 – Friends of Medina County Parks**



CO17-1 Comment noted.

CO17-2 See section 3.3.3 for a discussion of the City of Green Route Alternative. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

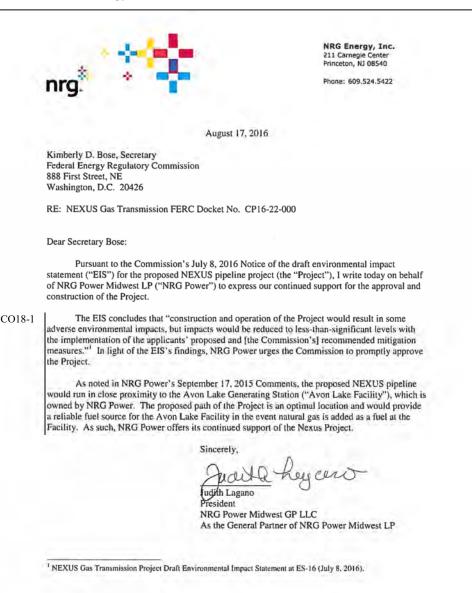
**Companies/Organizations Comments** 

#### CO17 – Friends of Medina County Parks (cont'd)

20160915-0101 FERC PDF (Unofficial) 08/15/2016 100 Mr. Nathaniel J. Davis August, 2016 Page 2 CO17-3 The Chippewa Lake C Route Variation has been recommended by the draft EIS. On page 3-68, the report states, "The variation would also completely avoid the crossing of county/metro parks." This statement is incorrect. This route impacts a three-acre parcel owned by Medina County Park District. It is important to note that this area contains the Medina County Home cemetery. While not mapped, this area was used to bury indigent residents of the county home for many years. The graves are unmarked. This area should not be disturbed by pipeline construction. The relocation of the line to the west to avoid this impact would cause more damage to Buckeye Woods Park than the currently proposed route. The Friends trustees oppose any deviation from the Chippewa Lake C Route Variation that would have a negative impact on Buckeye Woods Park. Thank you for the opportunity to comment on this project. Should you have any questions, or if you need further clarification, please do not hesitate to contact me at the number provided. Sincerely, Thomas Id. James-Thomas K. James, Secretary/Treasurer Friends of Medina County Parks, Inc. c: Ms. Kimberly B. Bose, Secretary, Federal Energy Regulatory Commission

CO17-3 See section 3.4.11 for an updated discussion of the Chippewa Lake Route Variations.

#### CO18 – NRG Energy, Inc.



CO18-1 Comment noted.

### CO19 – Ohio Manufacturers' Association

R-233

Columbus, Ohio 43215-3005

Chairman of the Board WILLIAM E. SOPKO		The Ohio
President, William Sopko & Sons Co.,	Inc.	Manufacturers'
President ERIC L. BURKLAND	SECRETARY OF THE COMMISSION	1.1.1.1.1.1.1
	2016 AUG 22 P 3 42	
August 16, 2016	FEDERAL EKERGY REGULATORY COMMISSION	
Ms. Kimberly Bose	Do	RIGINAL
Secretary Federal Energy Regulatory 888 First Street, NE	y Commission	MONVAL
Washington, DC 20426	22-000 – NEXUS Gas Transmission Pipeline	
	- AEAUS Gas Transmission Pipeline	
Dear Ms. Bose:		
	XUS Gas Transmission Pipeline is critical for incr g Ohio's aconomic growth and job creation, The C ipports the project,	
Energy Regulatory Comm energy is a significant com	ore than 1,400 manufacturing companies, OMA un ission to approve the NEXUS pipeline. Access to opetitive issue for manufacturers, and construction is immediate employment opportunities and provi conomic growth.	reliable, affordable of the NEXUS
communities, the state, an designed to stimulate ecor especially in manufacturin sector. These policies sho	infrastructure play a major role in the economic w d the nation. Accordingly, state and federal energ nomic growth, attract business investment, and sp g, which provides 17% of Ohio's GDP, greater that uld promote the diversification of energy resource affordability, reliability, and conservation.	y policies must be our job creation, an any other industry
prime fuel for residential ci NEXUS Project will start in enhance the region's and Investments that improve	ability of clean-burning, domestically-produced na ustomers and businesses, particularly manufactur n Columbiana County, and its transport of Appalar the state's appeal to existing and prospective bus productivity while saving energy, minimizing wast are highly valuable as part of broader efforts to for	rers. The 255-mile chian shale gas will inesses. e, and reducing

Fax: 614-224-1012

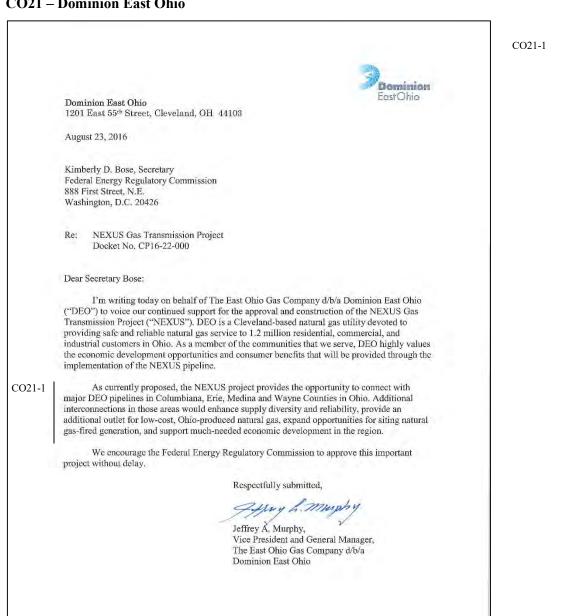
WWW.OHIOMFG.COM

CO19 – Ohio Manufacturers' Association (cont'd)

		CO19-
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	*	
CO19-1	The NEXUS pipeline is precisely such a project. The construction will create 6,800 jobs and spur some \$830 million in total economic activity, according to studies by Michigan State University and Economic & Policy Resources. Local governments stand to benefit from millions of dollars in additional tax revenue that will support public schools and other municipal services that directly affect residents' quality of life, factors that are considered by employers when evaluating potential sites for expansion and relocation. Greater access to natural gas will help lower energy prices for consumers; and manufacturers, notably, will gain greater access to a raw material utilized in many manufactured products including chemicals, polymers and fertilizer.	
	The men and women who work in Ohio manufacturing are among the most skilled and most productive anywhere in the world. With construction of the NEXUS pipeline, the state's manufacturing industry will be able to sustain and grow its 700,000 employees statewide while strengthening other sectors of the state's economy. And, because natural gas is cleaner burning and pipelines are the safest way to transport fuel, the project will also improve our environment.	
	The NEXUS pipeline holds great promise for manufacturing in Ohio and the Midwest. The current route as proposed by NEXUS stands to benefit industry specifically because of the Brickyard and Rittman industrial tap. For all of these reasons, the OMA is proud to support the current NEXUS route and again respectfully requests that the Federal Energy Regulatory Commission approve the project without undue delay.	
	Sincerely, Bryan Augsburger Vice President & Managing Director OMA Public Policy Services	

CO19-1 Comment noted.

#### **CO21 – Dominion East Ohio**



Comment noted.

**Companies/Organizations Comments** 

#### CO21 – Dominion East Ohio (cont'd)

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#### CERTIFICATE OF SERVICE

I hereby certify that, on this, the 25th day of August, 2016, I have caused a copy of the foregoing document to be served, by electronic mail or by first class U.S. mail, postage prepaid (for any addresses without email addresses) upon all parties listed on the service list compiled by the Office of the Secretary, Federal Energy Regulatory Commission, for the above-referenced proceeding.

<u>/s/ Russell Kooistra</u> Russell Kooistra

#### **CO22** – Coalition to Reroute Nexus

20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 PM UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION NEXUS GAS TRANSMISSION, LLC DOCKET NO. CP16-22-000 COMMENT ON NEXUS DRAFT ENVIORNMENTAL IMPACT STATEMENT (DEIS) Now comes the Coalition to Reroute Nexus ("CoRN"), a non-profit organization and certain Ohio property owners ("Interveners"), by and through attorney David A. Mucklow and hereby moves the Federal Energy Regulatory Commission under its responsibility for the siting of interstate natural gas transmission pipelines, to consider the following comments on the Nexus CO22-1 Draft Environmental Impact Statement. Specifically, it is requested that FERC place greater emphasis on safety, in addition to land use, in their consideration of alternatives, to compare alternatives around the populated areas of Northeast Ohio, and to choose a practicable siting for this project that maximizes safety as well as the impact to the human environment as required by NEPA. The Code of Federal Regulations provide for greater scrutiny than what has been afforded in the DEIS. In Support of this Comment the following is stated: CO22-2 FERC has an obligation pursuant to NEPA to consider the impacts of the infrastructure build-out on water use and quality, fish, wildlife and vegetation, cultural resources, social and economic factors, geological resources, land use, recreation and aesthetics, air and noise quality, safety of the public and the safety of any and every pipeline itself, overall purpose 1

CO22-1 See the response to comment LA3-2.

CO22-2 Comment noted.

#### CO22 – Coalition to Reroute Nexus (cont'd)

20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 FM

CO22-2 and need and most importantly alternate routes where viable alternatives would reduce the impact on the aforementioned issues. "to the fullest extent possible" 42 U.S.C. § 4332. See also 40 C.J.R. § 1500.2.

"NEPA requires the federal government to identify and assess in advance the likely environmental impact of its proposed actions, including its authorization or permitting of private actions. *Dep't of Transp. v. Pub. Citizen*, 541 U.S. 752, 756-57, 124 S.Ct. 2204, 159 L.Ed.2d 60 (2004). NEPA's mandate, which incorporates notice and comment procedures, serves the twin purposes of ensuring that (1) agency decisions include informed and careful consideration of environmental impact, and (2) agencies inform the public of that impact and enable interested persons to participate in deciding what projects agencies should approve and under what terms. Id. at 768. The statute serves those purposes by requiring federal agencies to take a "hard look" at their proposed actions' environmental consequences in advance of deciding whether and how to proceed. *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 350-51, 109 S.Ct. 1835, 104 L.Ed.2d 351 (1989). The statute does not dictate particular decisional outcomes, but "merely prohibits uninformed--rather than unwise--agency action." Id. at 351; see also Pub. Citizen, 541 U.S. at 756-57.

At the heart of NEPA is the procedural requirement that federal agencies prepare and make publicly available, in anticipation of proposed "major Federal actions significantly affecting the quality of the human environment," an Environmental Impact Statement (EIS) that assesses the action's anticipated direct and indirect environmental effects, and that the agencies consider alternatives that might lessen any adverse environmental impact, 42 U.S.C. § 4332(C); 40 C.F.R. § 1508.11. Regulations promulgated by the Council on Environmental Quality (CEQ) provide common guidance for all federal agencies in carrying out their NEPA responsibilities.

2

#### CO22 – Coalition to Reroute Nexus (cont'd)

20160825-5127 FERC FDF (Unofficial) 8/25/2016 2:50:57 FM

Pub. Citizen, 541 U.S. at 757: see 40 C.F.R. pts. 1501-02. Some agencies, such as the Corps. have promulgated their own. complementary NEPA regulations in order to provide additional guidance to their personnel to carry out the directives of the statute and the CEQ regulations in agency-specific contexts. See. e.g., 33 C.F.R. § 325 App. B (Corps regulations); see also 40 C.F.R. § 1500.2(a)-(b). *Sierra Club v. United States Army Corps of Engineers*, 803 F.3d 31, 37 (D.C. Circuit, 2015).

CO22-3 In the DEIS at Section 4.13.1, FERC writes: "Under a Memorandum of Understanding on Natural Gas Transportation Facilities (Memorandum) dated January 15, 1993, between DOT and FERC, DOT has the exclusive authority to promulgate federal safety standards used in the transportation of natural gas.... FERC accepts this certification [of compliance with federal safety standards] and does not impose additional safety standards." "FERC also participates as a member of the DOT's Technical Pipeline Safety Standards Committee, which determines if proposed safety regulations are reasonable, feasible and practicable." Page 4-232.

While this arrangement may be convenient for the Applicant and FERC, this arrangement violates the principles and doctrine of separation of powers protected by the U.S. Constitution and the federal statutes and federal regulations specifically promulgated to regulate the siting of the pipelines such as the Nexus pipeline. The memorandum arrangement specifically ignores
 CO22-4 safety considerations and impact to the human environment in the planning or siting of a pipeline in close proximity to homes, businesses and parks and the required analysis of the types of pipelines, the size, the extreme pressure and the science and engineering studies that recognize the danger to human life posed by high pressure pipelines such as Nexus. Such high consequence areas or blast zone studies have been repeatedly filed on this docket supporting urgency and concern for siting this pipeline in a high consequence area and high density

3

- CO22-3 Through the NEPA process, the Commission evaluates the safety impact of siting natural gas transmission facilities.
- CO22-4 We disagree. Using the pipeline safety regulations that DOT develops, in combination with historic incident reporting data maintained by DOT, the EIS addresses the safety impacts associated with siting the Project. In particular, section 4.13.1 of the EIS identifies the potential impact radius should an incident occur. The EIS goes on to explain that based on historic data, the likelihood of an incident is very low. The EIS also explains that more stringent design, construction, and operating criteria established by DOT provides for a greater level of protection in increasingly populated areas. Therefore the EIS addresses the safety impact of siting the Project, and finds that regardless of population density, pipelines are a safe and reliable method of transporting natural gas.

**R-239** 

#### CO22 – Coalition to Reroute Nexus (cont'd)

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population community when alternatives exist, which have far fewer conflicts with the human CO22-4 (cont'd) environment. The Memorandum may have worked at its creation in 1993, but can no longer be valid when accidents on high pressure pipelines cause extreme damages and deaths routinely in the United States some 23 years later, when pipeline technology has advanced to extreme size and pressures. The Memorandum shifts responsibility to another federal agency with no responsibility for the siting of the pipeline, but only its construction and operation. This deflection of responsibility and disconnection between siting the pipeline and concern for human safety at the planning and siting stage defies logic and common sense and ignores NEPA and the regulation promulgated thereunder. It creates the appearance of extreme disregard for human life and bias in favor of the Applicant that provides funding to FERC through filing fees. The Commissioners routinely are appointed from within the industry furthering the appearance of impropriety. For these reasons, it is clear that FERC is violating federal law by ignoring NEPA. the federal regulations, the doctrine of separation of powers, due process and equal protection guaranteed by the U.S. Constitution 5<sup>th</sup> and 14<sup>th</sup> Amendments. FERC must rescind its agreement of January 15, 1993 and come into compliance with the federal law. Should it not do so, stakeholders will be compelled to seek the aid and relief of the judiciary to break up this unholy alliance between applicants and PERC and reassert a separation and balance of power in favor of the people, who hold ultimate power and authority over the federal government.

At Section 3.3.3, the DEIS states:

Pipeline safety in the proximity to residential, commercial, and industrial development is a primary concern raised by many stakeholders who commented in support of the city of Green Alternative. DOT safety standards are intended to ensure adequate protection regardless of proximity to development.... Projects must be designed, constructed, operated and maintained

4

#### CO22 - Coalition to Reroute Nexus (cont'd)

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in accordance with these safety standards. Therefore, we find that either route is safe, regardless of population density (see section 4.13). However, an important consideration in routing a natural gas transmission pipeline instead is the impact on land use." Page 3-23 of DEIS. CO22-5 FERC expended considerable coverage in the DEIS justifying that HCA classifications and using thicker, more brittle pipe, as the solution to protecting humans within high consequence areas (HCA) or areas of dense population in the pages that follow in Section 4.13, DEIS, 4-232-246. FERC recognizes that 49 CFR 195.210 provides safety setback restrictions for transporting hazardous liquids; it contends that these regulations do not apply to natural gas under high pressure and no regulation therefore exists and these requirements may be ignored. This analysis is legally, scientifically, and logically flawed for failing to recognize that natural gas under high pressure at greater than 1,000 psi renders compressed natural gas more volatile than liquids and capable of self-ignition as recognized by Dr. Charles Rhodes PHD creating blast zones of up to 500 meters and radiant fire zones beyond that distance as has occurred repeatedly throughout North America. Arguably the regulation is applicable because of the changes in technology which have placed natural gas under such extreme pressures giving it characteristics fundamentally the same as liquids regulated by 49 CFR 195.210. FERC has provided no analysis to refute this clear and present danger and is clearly siding with the Applicant by avoiding this issue and ignoring scientific and technological advances. FERC routinely ignores this safety issue and provides the same essential paragraphs in every decision that it makes reflecting that FERC lacks decision making ability or processes that provide objective criteria to analyze the issue. Skirting it does not make it go away. FERC ignores this scientific data compiled both by experts like Dr. Charles Rhodes PHD and other industry studies filed on this docket. FERC simply concludes without evidence that "either route is safe, regardless of

5

CO22-5

2-5 The regulations under 49 CFR 195.1(b) explicitly states that "transportation of a hazardous liquid transported in a gaseous state" is not covered by this subpart applicable to hazardous liquid pipelines, including 49 CFR 195.210. Instead, DOT developed separate regulations under 49 CFR 192 to address transportation of natural gas via pipeline. We continue to maintain that the setback requirements established for hazardous liquid pipelines do not apply to natural gas transmission pipelines. Pipelines are sited in the most densely populated areas of the United States, including New York City. Based on historic incident data, comprising a wide range of population densities, the EIS determines that pipelines are a safe method of transporting natural gas.

**Companies/Organizations Comments** 

### CO22 – Coalition to Reroute Nexus (cont'd)

20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 FM

CO22-5	population density" and natural gas lines do not require safety setbacks while less volatile liquids
(cont'd)	do require avoidance in residential areas. Liquids that combust can be doused with chemicals
	(available to most firefighters) that starve the accelerant of oxygen; while no such solution exists
	for fighting natural gas fires caused by high pressure static charge ignition on natural gas
	transmission lines. In fact most emergency plans simply call for procedures to locate and turnoff
	valves and alert local officials, which take considerable time. Some fires have burned for days,
CO22-6	Current federal regulations under PHMSA do not even call for automatic shutoff valves or
	similar safety procedures, which are currently under consideration in the rule making process
	before PHMSA, recently closed for comment. Establishing appropriate safety setbacks in the
	planning process, consistent with current federal law, would protect the human environment to a
	greater degree until such time that PHMSA passes more sufficient safety regulations. FERC
	cannot continue to ignore the reality of the impact of incidents on the human environment and
	trauma that it creates for humans. No amount of money paid by Applicants can justify such an
	aphetic position. This point of contention could be determined by a court of law having no
CO22-7	financial stake in approving this or any other Project. FERC simply defers to sending out
	"information brochures to landowners, businesses, potential excavators, and public officials
	along the pipeline systems on how to recognize and react to unusual activity on the area."
	These measures are about as effective as "duck and cover drills" taught to school children in the
	early 1960's on how to react to nuclear explosions in the event of nuclear war. These types of
	measures and recommendations insult the intelligence of the American people and the
CO22-8	communities faced with possible catastrophic events. FERC further states: "In accordance with
	49 CFR 192.615, NEXUS would develop, maintain, and implement a written emergency
	response plan to minimize the hazards from a pipeline emergency." Unfortunately, there are no
	6

- CO22-6 As discussed in section 4.13, NEXUS would comply with design requirements established in 49 CFR 192.
- CO22-7 See the responses to comments CO22-3 through CO22-06.
- CO22-8 Section 4.13.1 describes key elements of NEXUS' emergency response plan, as required by DOT regulations at 49 CFR 192. NEXUS has committed to compliance with these regulations. However, the DOT is responsible for enforcing compliance with its regulations.

R-242

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-8	guarantees that such a plan would be followed or that Nexus would not file bankruptey to avoid
(cont'd)	such responsibility or would be incapable of executing such a plan in the event of a major
	incident. On Page 29 of Spectra Energy's most recent 10-K filing the Company said: "In
	addition [to leaks, explosions, fires and other natural disasters] these risks could result in
	significant injury, loss of life, significant damage to property. environmental pollution and
	impairment of operations, any of which could result in substantial losses. For pipeline and
	storage assets located near populated areas, including residential areas, commercial
	business centers, industrial sites and other public gathering areas, the level of damage
	resulting from these risks could be greater."
CO22-9	When better alternatives exist, the Commission is required under NEPA to "consider
	afternatives that might lessen any adverse environmental impact." Better alternatives exist in the
	City of Green alternate route which avoids HCAs. Consider the following:
	1. Over one year ago, the FERC had asked NEXUS specifically to address the following:
	"several issues that we think deserve attentionalternatives, includinga southern route to
	avoid residential areas in and around the City of Green. Ohio." 1 Nexus has taken no meaningful
	activity to study and develop this alternate route and continues to defy FERC.
	2. This request was made presumably for considerations of safety, the well-being of

individuals and impact to communities and high consequence areas (HCAs).

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CO22-9 The EIS considered the City of Green Route Alternative as well as several other route alternatives. See section 3.3.3 for a discussion of the City of Green Route Alternative. Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

<sup>1 &</sup>quot;Notice of Intent to Prepare an Environmental Impact Statement for the Planned NEXUS Gas Transmission Project and TEXAS Eastern Appalachian Lease Project, Request for Comments on Environmental Issues, and Notice of Public Scoping Meetings," FERC Docket Nos. PF15-10-000 and PF15-11-000, April 8, 2015.

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-10	3. An example of the elevated human impact of the current route is given by the following				
	example using the data from Table 11.4-1 "Location of High Consequence Areas along				
		the NEXUS Project Pipeline Facilities" in NEX	US Resource Report 112:		
		Distance through Summit Co:	16.0 miles		
		Distance of HCAs in Summit Co:	9.0 miles		
		Distance through State of Ohio:	188.0 miles		
		Distance of HCAs in Ohio:	31.7 miles		
		Density of HCAs in Ohio:	16.9%		
		Density of IICAs in Summit Co:	56.3%		
		(Distances through Summit Co and State of Oh	io approximate)		
CO22-11	4.	The Potential Impact Radius (PIR, or $R_{IF}$ ) for d	etermination of HCAs is (49 CFR		
		192.903):			
		$R_{IP} = 0.69$	$\sqrt{pd^2}$		
	For the NEXUS project, with maximum operating pressure $p = 1440$ psi and nominal				
	diameter $d = 36$ inches,				
	$R_{tP} = 943$ ft				
	In the NEXUS Resource Report 11, the $R_{IP}$ is reported as 1100 feet, presumably a carry-				
	over from when the plan was for a 42 inch DIA line.				
	5. The radiation Safety Setback per Charles Rhodes3 is calculated as:				
	$R_{\rm S} = 17.71 d(p - p_{a})^{0.25}$				
	2 NEXUS Resource Report 11, Reliability and Safety, November 2015.				
	3 Nati	ural Gas Pipeline Rupture/Fire: Calculating safety sett es Rhodes, P. Eng., Ph.D. (January 2010).			
		8			

CO22-10 See the response to comment LA3-2.

CO22-11 We use the methodology established by the DOT in its pipeline safety regulations to identify the potential impact radius of an incident along a pipeline. The draft EIS incorrectly used an older pipeline diameter in determining the potential impact radius. Based on the proposed pipeline diameter of 36 inches, the potential impact radius is reduced from 1,100 feet to 943 feet. The final EIS has been updated to reflect this potential impact radius. Any other suggested methodologies for establishing a potential impact radius should be presented to the DOT for scientific verification and future inclusion in its regulations.

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### CO22 – Coalition to Reroute Nexus (cont'd)

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with the diameter in meters and the pressure in Pascals, or,

$$R_{S} = 17.71(\frac{36}{39.4})(1440 * 6870 - 14.7 * 6870)^{0.23}$$
$$R_{S} = 905 \text{ m} = 2972 \text{ ft}$$

The radius of burn  $R_z$  is about half of  $R_s$ , or  $R_z = 1500$  ft, which is similar to the  $R_{IP}$  cited above, and what has been used in other safety assessments, such as the City of Green Alternative route.4

- 6. FERC should consider, not only the current state, but the likely future state when the project has been in service for a number of years. The regulations contemplate future development. The likelihood of additional buildings and dwellings being built close to the pipeline is much greater when traversing incorporated cities than it is with a path through rural areas. The density of HCAs through Southern Summit County could easily rise to 70%. The density of HCAs along the rest of the route will probably not change from 17%.
- The current route through the City of Green is a poor route for the NEXUS pipeline (and presumptively violates federal law). Consider Figure 1:
  - In an attempt to route the pipeline through the city and avoid sensitive areas, the route now has many direction changes that has increased the length by 2 miles since June 2015, through the COG alone (See Figure 1)(Note that the Southern Alternative is now shorter than the NEXUS preferred route.). The current route shown in Figure 1 is not optimal for an interstate/international transmission line.

CO22-12 As discussed in section 4.13.1, if an increase in population occurs near the pipeline resulting in a Class location change, NEXUS would be required to reduce the MAOP or reclassify the pipeline, accordingly. NEXUS would be required to comply with Class location and HCA requirements.

CO22-13 Comment noted.

<sup>4</sup> City of Green letter to Secretarγ Bose, "Proposed NEXUS Pipeline – Alternative Re-route," FERC Docket PF15-10-000, March 23, 2015. (http://www.cityofgreen.org/uploads/alternate-route-submittal.pdf)

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-14	2.	The route now has many more direction changes including many bends, some at
		90 degrees. These bends increase the risk of a pipe failure through at least 3 $$
		mechanisms:

- Any physical bending of the pipe causes plastic deformation which can lead to the coalescence of voids that can lead to crack initiation and growth over time.
- 2. Any additional welds required for a zig-zag route introduces more chances of flaws being introduced by the welding process that can lead to crack initiation and growth over time. Inspections can only detect flaws of a certain size, and the detection mechanism is not 100% guaranteed.
- When gas is flowing through a direction change in the pipe, the local stresses in the pipe are elevated as a result of the momentum change (mass\*velocity\_vector) of the flowing gas.
- CO22-15
   3.
   The recent failure of a Spectra Energy natural gas pipeline in Pennsylvania(5) is a reminder that these events do happen despite FERC's attempt to downplay the number of incidents or loss of life and injuries. Statistics compiled by PHMSA provide analytical data to support that incidents do routinely occur on Projects such as Nexus and that even compressor stations operated safely adversely impact human health in the areas surrounding the compressor stations. The federal law requires the siting of such pipelines should be away from populated areas whenever possible. FERC facks sufficient protocols to objectively determine

- CO22-14 Bends in natural gas transmission pipeline are a common occurrence. Pipelines are routinely inspected using internal devices that can detect pipeline thickness, deformations, dents, cracks etc. NEXUS would comply with 49 CFR 192, which provides details on pipeline welds for natural gas transmission pipelines. Subpart E Welding of Steel in Pipelines describe welding procedures (section 192.225), welder qualifications (192.227), and weld testing and inspections (192.241). Section 192.7 incorporates American Petroleum Institute's API-1104 (Standard for Welding Pipelines and Related Facilities) by reference. DOT regulations for pipeline design account for pipeline stress.
- CO22-15 The EIS acknowledges that pipeline incidents do happen and reports the historic incident statistics, demonstrating that the likelihood of such incidents is low. See also the responses to comment CO22-5.

<sup>5</sup> See e.g. "Another Spectra-Energy Pipeline Fails. Hugh Fireball in Gas Explosion Burns Homes, Fleeing Man April 29, 2016." FERC Docket CP16-22-000, 20160429-5458, April 29, 2016.

### CO22 – Coalition to Reroute Nexus (cont'd)

20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 FM CO22-15 when HCAs should be avoided in favor of routes with fewer conflicts to the (cont'd) human environment. Failure to move the pipeline implicate Constitutional violations of the procedural and substantive due process rights of stakeholders in close proximity to the Nexus Project. 49 CFR § 195.210 provides: 4. "Pipeline location. (a) Pipeline right-of-way must be selected to avoid, as far as practicable, areas containing private dwellings, industrial buildings, and places of public assembly. (b) No pipeline may be located within 50 feet (15 meters) of any private dwelling, or any industrial building or place of public assembly in which persons work. congregate, or assemble, unless it is provided with at least 12 inches (305 millimeters) of cover in addition to that prescribed in [49 CFR] § 195.248." CO22-16 The regulation from 49 CFR Section 195.210 (a) places a requirement on a carrier to select a right-of-way that avoids "as far as practicable, areas containing private dwellings, industrial buildings, and places of public assembly." High pressure natural gas is equal to if not more dangerous than petroleum liquids; as Dr. Rhodes outlines in his studies, previously filed on this docket, high pressure natural gas (CH<sub>4</sub>) will self-ignite due to static charge as it leaks through holes in welds. The explosion creates a pulse wave, large fire balls, and extreme heat that is devastating to the human environment and results in loss of life and damage to property. The regulation does not distinguish between petroleum liquids under normal atmospheric pressure and gas placed under high pressure or higher than normal atmospheric pressure greater than 1000 psi. The definitions at 49 CRF 195.1 states: "Hazardous fiquid means petroleum, petroleum products. anhydrous ammonia, or ethanol." "Petroleum means crude oil, condensate,

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CO22-16 See the response to comment CO22-5.

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-16	natural gasoline, natural gas liquids, and liquefied petroleum gas. Petroleum
(cont'd)	product means flammable, toxic, or corrosive products obtained from
	distilling and processing of crude oil, unfinished oils, natural gas liquids,
	blend stocks and other miscellaneous hydrocarbon compounds." The natural
	gas used in the Nexus Project is a petroleum product which is flammable and
	toxic "obtained from distilling and processing of crude oil and other
	miscellancous hydrocarbon compounds" emanating from processing plants
	(e.g. Kensington, OH and other locations) that have distilled or separated the
	natural gas and placed it under extreme pressure. Natural Gas is $\mathrm{CH}_1$ and is a
	"miscellaneous hydrocarbon compound." Nexus falls within the definition
CO22-17	required under the federal regulations because it is transporting CH4. FERC has
0022 1,	routinely ignored the scope and requirements of these federal regulations, arguing
	the lack of applicability of the regulation to natural gas transmission pipelines as
	reflected in the DEIS, Page 4-237. The regulation requires avoiding dwellings in
	the siting process if practicable and special safety setbacks requiring special
	covering within 50 feet from any dwelling transporting hazardous liquids.
	Natural gas constitutes a hazardous liquid because it is flammable and is obtained
	from distilling and processing of crude oil and other miscellaneous hydrocarbon
	compounds in the refining and separation process.
CO22-18	Alternate routes exist in this particular case, which avoid the HCAs and

CO22-18

Alternate routes exist in this particular case, which avoid the HCAs and dwellings located in Stark, Summit, Wayne and Medina Counties. FERC's interpretation defies the language of the Code of Federal Regulations, common sense, and logic and is not defensible or sustainable. Constitutional rights to be

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CO22-17	See the response to comment CO22-5.

CO22-18 See the response to comment LA3-2.

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-18	1	free from potential bodily harm are implicated since reasonable alternatives exist.
(cont'd)		Moving the pipeline to the City of Green alternate route would render this issue
		moot. The American Revolution was ignited with a publication titled: "Common
		Sense" by Sam Adams. Apparently conditions in Washington D.C. have left
		decision makers bereft of common sense.
CO22-19	5.	The elevated number of conflicts with the environment, the community, and
		homeowners has been previously demonstrated over 1 year ago with the COG
		alternative route analysis.6 The City of Green is refining this route since Nexus
		refuses to do so and continues to pay for permanent easements on the current
		route.
CO22-20	6,	The amount of zig-zags in the route through the City of Green combined with the
		elevated population density creates a situation with much higher risk of property
		damage, injury and death than a rural route with less bends. The increased risk of
		death, injury or property damage is difficult to estimate, but considering the
		following through the City of Green, the level of risk might be 1000-10.000 times
		greater than that for a rural route:
		1. The amount of bends and welds in the pipe may increase the chance of an
		incident by 10 times over that of a pipeline with a straighter route.

 Because dwellings, parks. etc. are nearby, the chance of an incident causing death, injury or property damage might be 10 times that of a pipeline going through more rural areas.

- CO22-19 An Optimized City of Green Route Alternative based on refinements submitted by city officials is discussed in section 3.3.3.
- CO22-20 See the responses to comments LA3-2 and CO22-14.

<sup>6</sup> City of Green letter to Secretary Bose, "Proposed NEXUS Pipeline – Alternative Re-route," FERC Docket PF15-10-000, March 23, 2015. (http://www.cityofgreen.org/uploads/alternate-route-submittal.pdf)

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-20	1	3. Since NEXUS plans to traverse developing incorporated cities, more
(cont'd)		dwellings, schools, parks, churches, etc. will be built (with digging) close
		to the pipeline over the next 20-30 years. This further increases the
		chance of death, injury, or property damage.
		4. Many of the incidents with pipelines are caused by human activity. The
		density of humans and activities like digging in the incorporated cities is
		easily 100 times that of a rural area, further increasing the risk. Even
		though Green is an incorporated city, there is farming, digging, target
		shooting and other similar activities within the city and near the proposed
		route.
CO22-21	8.	There are many practicable alternative routes that do not traverse the populated areas in
		Northeast Ohio. Further discussion on this is provided below and in multiple previous
		filings.
CO22-22	9.	Prior to the end of the draft EIS comment period. Nexus must file with FERC: "13.b.
		minor route adjustments and realignments to the City of Green Route Alternative in order
		to minimize impacts on residences, forests, and other environmental resources (Section
		3.3.3)" Page 5-22 of DEIS.
CO22-23	10.	Land uses and zoning laws in Summit County and other places are not compatible with a
		dangerous industrial process such as Nexus which is the equivalent of having a dynamite
		factory amongst residential neighborhoods. Zoning laws in the City of Green and New
		Franklin do not allow dangerous industrial processes such as Nexus next to residential
		housing and certain commercial uses. The Tenth Amendment to the U.S. Constitution
		has reserved issues of land use to the States and local governments. Ignoring the Tenth
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- CO22-21 See the response to comment LA3-2.
- CO22-22 Comment noted.
- CO22-23 See section 1.5 for a discussion of local zoning. FERC encourages cooperation between NEXUS and Texas Eastern and state and local authorities; however, state and local agencies, through the application of state and local laws, may not prohibit or unreasonably delay the construction or operation of facilities approved by FERC.

### CO22 – Coalition to Reroute Nexus (cont'd)

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Amendment and local zoning laws brings the Nexus Project in conflict with the municipalities, Ohio law, and the Constitutional rights of stakeholders.

CO22-24	Since NEXUS has not produced any genuine response to the FERC request of April 2015
	for "a southern route to avoid residential areas in and around the City of Green. Ohio," I request
	that FERC continue to do so in the absence of NEXUS, since there is high likelihood that a much
	improved route is available that does not go through incorporated cities and populated areas or
	HCAs. The possibility that NEXUS, a private-sector, for-profit enterprise will have done this on
	their own volition is unlikely, since developing such a route would impact their self-imposed
	schedule, profits, revenue stream and the CEO's outrageous levels of compensation. Moreover,
CO22-25	NEXUS has been paying for permanent easements in Stark. Summit and Medina and other
	Counties which make it impossible for NEXUS to exercise an objective public function or duty
	which would be expected at this stage of the development project because no Certificate has
	been issued by FERC. This paradigm, recognized by the Ohio Supreme Court in Norwood, Ohio
	$\nu.$ Horney, 110 Ohio St.3d 353 (2006) in response to the Kelo v. New London, 545 U.S. 469, 125
	S. Ct. 2665, 162 L.Ed 2d 439 (2005) illustrates the inherit flaw with allowing for profit private
	agencies to site or plan its own pipeline. The public function cannot be properly or efficiently
	delegated under the $5^{th}$ Amendment to a private for profit agency guided by profits and greed
	rather than public safety. Nexus simply lacks any credibility at this stage considering its
	activities and attempts to payoff property owners to acquire support for its Project and entrench
	its position. FERC cannot shirk this responsibility and leave it in the hands of the Applicant.
CO22-26	In a recent communication from Nexus in response to the City of Green, NEXUS states,
	"As NEXUS has explained, the process for considering alternatives is well advanced by both

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- CO22-24 Section 3.3 evaluates several alternatives that follow a more rural southern route, including the Rover, Southern, City of Green, Canton A, Canton B, Canton C, and Doylestown route alternatives.
- CO22-25 Comment noted.
- CO22-26 Comment noted.

### CO22 – Coalition to Reroute Nexus (cont'd)

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CO22-26	NEXUS and the Commission's staff and has involved substantial public input and comments on
(cont'd)	routing, including from the City of Green.7 It is difficult to ascertain what is meant by "well
	advanced", since NEXUS has not addressed in any realistic manner, the basic request that has
	been before them for almost two years now - an alternate route that avoids the populated areas
	and incorporated cities in Northeast Ohio. The DEIS further ordered NEXUS to consider the
	alternate route and an alternate site for the Wadsworth, OH compressor station. NEXUS has no
	intentions of complying based upon the large sums of money spent on permanent easements in
	Stark, Summit and Medina Counties. The lack of regulation by FERC encourages this activity of
	purchasing support from property owners prior to completion of the siting or pre-certificate
	process. NEXUS assumes that FERC will approve the current route, why else would it purchase
	permanent easements.

CO22-27 There are cases where a pipeline such as NEXUS needs to be stied though populated areas when there are no practicable alternatives. This is not one of those cases. Multiple, practicable, alternative routes, south of Canton, OH, have been demonstrated (e.g. see COG, and Options 1 and 2 in Figure 2) that meet the overall project objectives with over 3 times less HCAs and potentially 10,000 times less risk.

> IN CONCLUSION. FERC must require a route change for NEXUS consistent with the City of Green alternate route avoiding HCAs and densely populated areas when reasonable alternative exist.

> > /s/ David A. Mucklow DAVID A. MUCKLOW(#0072875)

CO22-27 See the response to comment LA3-2.

<sup>7 &</sup>quot;Answer to Pleading/Motion of NEXUS Gas Transmission, LLC under CP16-22." FERC Docket CP16-22-000, 20160331-5375, March 31, 2016.

### CO22 – Coalition to Reroute Nexus (cont'd)

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#### CERTIFICATE OF SERVICE

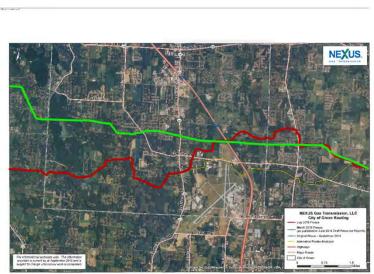
I hereby certify on this 25th day of August, 2016 that a copy of the foregoing document was served upon Nexus Gas Transmission, LLC and each person designated on the official service list compiled by the Secretary in this proceeding via email.

> /s/ David A. Mucklow DAVID A. MUCKLOW(#0072875)

**Companies/Organizations Comments** 

## CO22 – Coalition to Reroute Nexus (cont'd)

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<u>Figure 1</u> – NEXUS Routes through the City of Green. Original route in GREEN color. November 2015 route in RED color (2+ miles longer).

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## CO22 – Coalition to Reroute Nexus (cont'd)

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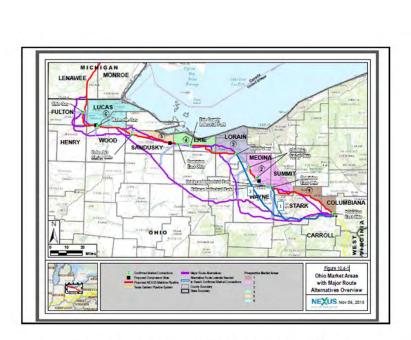


Figure 2 – NEXUS Route (Red) with Possible Alternatives (Blue, Purple) to Avoid Populated areas.

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**Companies/Organizations Comments** 

### CO22 – Coalition to Reroute Nexus (cont'd)

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http://www.xylenepower.com/Natural%20Gas%20Pipeline%20Safety%20Setback.htm

## **XYLENE POWER LTD.**

#### NATURAL GAS PIPELINE SAFETY SETBACK

#### CALCULATION OF SAFETY SETBACKS FROM LARGE DIAMETER HIGH PRESSURE NATURAL GAS PIPELINES

By C. Rhodes, P. Eng., Ph.D.

#### INTRODUCTION:

An essential element of any electric power system is reliable load following generation that can be used to match the total electricity generation to the total electricity load. From a global warming perspective the ideal load following generator is a hydroelectric dam containing a large amount of storage. However, since about 1970 the Ontario government and other governments have failed to face both the political and practical issues involved in construction of major new hydroelectric dams and their associated electricity transmission lines.

Since about 2005 the Ontario Power Authority (OPA) has chosen to use natural gas fueled combustion turbines for supplying load following generation. In order to minimize electricity transmission line right-of-way requirements the OPA chose to locate the natural gas fueled power plants close to urban areas. However, the OPA failed to adequately consider the public safety issues related to the large diameter high pressure natural gas pipelines that these combustion turbine power plants require. For public safety these pipelines should be installed in dedicated energy transmission corridors. The minimum width of these corridors is twice the minimum setback distance between the pipeline axis and the public. At present in Ontario, for natural gas pipes up to 20 inches in diameter, this minimum setback distance is studied. This web page focuses on determination of reasonable minimum setback distances are functions of both the pipeline diameter and the pipeline operating pressure.

#### DEDICATED ENERGY TRANSMISSION CORRIDORS:

Natural gas transmission pipelines in Canada have a relatively good safety record. There have been various explosive rupture failures with accompanying major fires, but the incidence of these failures and the related loss of life has been relatively small because most natural gas transmission lines are located in rural areas and are buried in dedicated energy transmission corridors. The use of dedicated energy transmission corridors located in rural areas reduces the incidence of both accidental impact damage and provides distance separation between the pipeline and the public.

### CO22 – Coalition to Reroute Nexus (cont'd)

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A major error in the Ontario Power Authority's planning has been allowing routing of large diameter high pressure natural gas pipelines under public road alowances where these pipelines are subject to a high ongoing risk of damage by third parties engaged in drainage maintenance, installation or replacement of utility poles, installation and maintenance of other buried services and road construction. Furthermore, burial of large diameter high pressure natural gas pipelines beneath public road allowances eliminates much of the distance separation that is normally achieved by pipeline burial within dedicated energy transmission corridors that run through rural areas.

#### COST CONSTRAINTS:

To minimize capital cost natural gas is transported in steel pipes.

Major high pressure natural gas pipelines are generally designed for a maximum working pressure that causes an operating pipe hoop stress of about 30% of the pipes Specified Minimum Yield Stress (SMYS). A further margin of safety can be introduced by reducing the working pressure. However, practical material cost considerations usually prevent a major reduction in working pressure.

There are pipeline sections that operate at 67% of SMYS. However, such pipeline sections provide little safety margin against local earth movement (earth quakes) or local weld or corrosion problems. Pipelines routed through urban areas should be restricted to a maximum allowable operating pressure that causes a hoop stress of 33% of SMYS.

#### CORROSION PROTECTION:

1. To prevent external corrosion steel pipes conveying natural gas pipe are coated with a layer of electrically insulating material known as dielectric. The pipe steel is electrically or galvanically biased slightly negative with respect to the surrounding ground water. This bias is usually maintained by use of sacrificial magnesium electrodes or by use of DC power supplies that are electrically bonded to the steel pipe.

2. The negative bias attracts positive hydrogen ions in ground water toward any pipe steel that is exposed by imperfections in the pipe's external dielectric coating. The corresponding negative hydroxyl ions flow toward the sacrificial positive electrode.

3. The hydroxyl ions cause corrosion of the sacrificial electrode.

4.As long as corrosion is confined to the sacrificial electrode, corrosion of the pipe steel is prevented.

5.Eventually the sacrificial electrode will corrode away or worse, it may be accidentally disconnected or may be stolen for its scrap metal value. Under these circumstances the galvanic corrosion protection mechanism is defeated and corrosion will occur anywhere that pipe steel is exposed to ground water, such as at a coating scratch that might have been inadvertently caused by a backhoe, trenching machine or utility pole auger used for work on a nearby unrelated service.

6. A relatively new threat to buried steel pipelines is electrical ground current that results from nearby grounded electrical equipment such a wind turbine transformers. Such ground current can aggravate otherwise minor corrosion problems. In extreme cases of soil over bed rock the region of accelerated pipe corrosion can extend as far as 1 km from the wind generator transformer. This issue must be considered when a wind farm and a buried steel pipeline are in close proximity.

### CO22 – Coalition to Reroute Nexus (cont'd)

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#### SAFETY:

Usually large diameter high pressure natural gas pipes are buried. The functions of the soil cover are to protect the pipe and its dielectric coating from damage due to UV radiation, external impact, thermal stress and frost heaving.

There are real risks related to long term corrosion and to damage from mechanical equipment such as trenching machines, back hoes, utility pole augers and boom trucks. In the winter, when snow is piled high or during flood conditions the operators of such equipment frequently scratch or damage other buried services, in spite of their best efforts to avoid such damage.

The risks of being scratched or damaged by mechanical equipment are greatly reduced if the large diameter high pressure natural gas pipeline is buried in a dedicated energy transmission corridor. Then almost all the risks due to installation and maintenance of utility poles, buried electrical services, drainage culverts, fresh water pipes, storm sewer pipes, sanitary sewer pipes, low pressure natural gas pipes, district heating pipes, district cooling pipes, subways, telephone multipair cables, TV coaxial cables and fiber optic cables are eliminated. Frequently a natural gas transmission corridor is located adjacent to or within a high voltage electricity transmission corridor.

Another means of improving public safety is to ensure that buildings that routinely contain large numbers of people are not constructed within a specified setback distance from the axis of a large diameter high pressure natural gas pipeline. Similarly a setback distance should be maintained between the pipeline axis and outdoor locations where large groups of people routinely assemble.

A responsible organization that focuses on pipeline safety matters is the Pipeline Safety Trust. Its website is pstrust.org. Its telephone number is 360-543-5686.

#### RISKS:

The main risks to a large diameter high pressure natural gas pipeline are:

- 1.Improper engineering, fabrication or commissioning, including but not limited to inadequate:
- a) Provision for hoop stress
- b) Provision for thermal stress
- c) Provision for sheer stress related to ground movement
- d) Provision for pipe buoyancy
- e) Mill testing of pipe steel
- f) Weld inspection
- g) Route choice (high and dry preferred to low and wet)
- h) Burial depth
- i) Pipe bedding and support
- j) Corrosion protection
- k) Hydraulic pressure testing
- I) Drainage after hydraulic pressure testing
- m) Nitrogen pressure testing
- n) Documentation of magnesium electrode locations
- o) Documentation of DC corrosin protection
- p) Provision for insertion of pigs for automatic scanning of pipe wall thickness

### CO22 - Coalition to Reroute Nexus (cont'd)

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2.Physical damage from external human activity. eg. The gas line is directly damaged by a trenching machine, backhoe, utility pole auger or boom truck leg.

3.Physical damage due to non-human activity. eg Earthquake, sinkhole, landslide or flood

4.Minor outside surface damage in combination with loss of galvanic corrosion protection. eg Plastic coating is scratched by a trenching machine, backhoe or utility pole auger and the scratch is not promptly repaired. The magnesium electrode then rapidly corrodes away. Alternatively a magnesium electrode may be accidentally disconnected by a backhoe or utility pole auger or may be stolen for its scrap metal value.

5.Failure of the pipeline owner to periodically check that all the magnesium electrodes are still present and connected.

6.Failure of the pipeline owner to periodically fully check the actual pipe wall thickness using a pig type electronic inspection apparatus that scans the pipe wall from the inside and measures and records the pipe wall thickness as a function of linear and angular position.

Risks #2, #4 and #5 above are greatly magnified if the pipeline is installed in a road allowance instead of in a dedicated energy transmission corridor.

Risk #6 occurs if there are pipe joints, pipe elbows, pipe fittings, valves or compressor stations that are not designed to allow insertion and axial travel of the pig type electronic equipment for measuring the pipe wall thickness as a function of linear and angular position.

Risk #6 is greatly magnified if the pipeline maintenance personnel do not have adequate time to examine the pig data and the resources to follow up risks identified via the pig data. It is essential that the pipeline owner employ sufficient staff whose first priority is pig data acquisiton, analysis and followup.

#### RUPTURE FAILURE MECHANISM:

If one makes a small hole with a diameter less than twice the pipe wall thickness in a high pressure natural gas pipeline the immediate result is a loud hissing noise as natural gas leaks out. The leaking high pressure natural gas will blow away soil in its path. The natural gas will mix with surrounding air and form a cloud with concentrated natural gas tits center and dilute natural gas at its edges. If the edge of this cloud with a natural gas concentration in the range 5% to 15% encounters a source of ignition such as a spark made by an electrical switch, there will be a delayed ignition explosion followed by a localized ongoing fire. However, the size of this fire will be limited by the size of the original small hole in the natural gas pipe.

However, if a hole in a high pressure natural gas pipe grows to an axial length that exceeds about four times the pipe wall thickness, a very different sequence of events takes place. At the axial ends of the hole the local hoop stress will exceed the material yield stress. The pipe will then immediately rip down its axis to form a rupture that has an open area several times the cross sectional open area of the pipe. This rupture discharges natural gas at the maximum possible flow rate from both open ends of the ruptured pipe.

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#### PIPE RUPTURE SEQUENCE:

1. The pipe wall is thinned by corrosion, by cutting, by defective welding or by impact; 2. At the thin spot a hoop stress concentration develops that exceeds the yield stress of the pipe material;

3. The pipe wall deforms in a manner that magnifies the hoop stress concentration. This process can be observed in a stretched elastic band with a nick;

4. The pipe suddenly rips down its length causing a complete rupture. This process is similar to the sudden explosive rupture of a fully inflated child's balloon that is hit by a dart.

#### DAMAGE SEQUENCE:

1. The escaping high pressure natural gas explosively blows away the soil over burden, forming a large crater in the ground;

2. The pipe rupture is fed with high pressure natural gas from both the upstream and downstream pipes.

3. The escaping gas makes a noise comparable to a large jet aircraft at takeoff; 4. The escaping gas mixes with the surrounding air. In regions where the volumetric natural gas concentration is in the range 5% to 15% the mixture is highly flammable; 5. When the flammable gas mixture finds a source of ignition such as a flame, hot surface or electric spark there is an explosive delayed ignition pressure pulse. This pressure pulse is deafeningly loud and can break windows in buildings over a kilometre from the pipe rupture location. In extreme cases the energy release during the delayed ignition explosion is comparable to the energy release of a small atom bomb.

6. Then there is a steady state flame that is fed by high pressure gas flowing out of both open ends of the ruptured pipeline. This flame is almost impossible to extinguish and continues burning until it runs out of fuel. It typically takes the pipeline company one to two hours to close valves that isolate the ruptured section of gas pipe. The natural gas flame typically burns for several more hours.

#### SETBACK UNCERTAINTY:

Due to uncertainty regarding wind conditions and the position of the nearest point of ignition it is impossible to specify a practical safety setback distance that will ensure no damage or personnel injury from concussion or shrapnel related to the delayed ignition explosion. However, the subsequent fire emits a quantifiable amount of thermal radiation for which a reasonable safety setback distance can be calculated.

#### THERMAL RADIATION:

1. The thermal radiation intensity from the steady state natural gas flame is easy to calculate and is the basis of minimum setback calculations;

2. The radiation level may be substantially larger than calculated if black smoke from burning oil, wood or asphalt is conveyed by natural convection into the natural gas flame; 3. For a clean lean natural gas flame I have derived a formula for recommended safe setback distance as a function of pipe diameter and maximum operating pressure; 4. The distance Rs corresponds to a thermal radiation intensity from the natural gas flame equal to the solar irradiance (the maximum solar energy intensity incident on the Earth). 5. At distance Rs / 2 the thermal radiation intensity from the natural gas flame is four times as large as at distance Rs.

6. Natural gas pipeline rupture accident site photographs show that due to secondary fires everything inside radius (Rs / 2) burns to a crisp. Municipal fire departments are not normally equipped to get closer than radius (Rs / 2). At (Rs / 2) the exposed surface

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temperature due to direct radiation from the natural gas inferno is about 200 °C. At that infrared radiation level vehicle windows crack and human flesh is quickly damaged.

#### PRESSURE PULSE:

The magnitude of the initial delayed ignition pressure pulse is unpredictable. The size of the delayed ignition explosion depends on the distance between the pipe rupture and the point of ignition. The larger this distance the larger the delayed ignition explosion. Depending on the location of the source of delayed ignition the pressure wave damage radius can exceed the radius of the thermal radiation damage by several fold. In extreme cases the delayed ignition explosion is comparable to the blast wave from a small tactical nuclear weapon. For this reason it is important to limit the sizes of high pressure natural gas lines in urban areas. In the Middletown, Connecticut accident the delayed ignition blast wave shattered windows over 1.6 km away from the location of the natural gas release. At Englehart, Ontario the delayed igniton explosion pressure pulse tossed a length of 914 mm OD steel pipe with 9.1 mm wall thickness a distance of 150 m from the rupture point.

#### FORMULA FOR SAFE DISTANCE Rs:

In this document a formula is developed for the safe setback distance **Rs** from a natural gas pipe line required for personnel to avoid radiation related skin damage from the steady state fire that follows a high pressure natural gas pipeline rupture. It must be emphasized that the calculated safety setback **Rs** applies only to thermal radiation from lean combustion of clean natural gas.

A delayed ignition explosion can cause blast damage beyond the calculated radiation safety radius. Toxic gases such as H2S can cause loss of life beyond the calculated radiation safety radius. If the natural gas flame is over rich or if the natural gas burns in combination with other substances such as oil, coal, asphalt, wood, plastic resins, etc. soot forms. That soot can increase the thermal radiation fraction Fr as much as four fold and hence can double the required radiation safety radius Rs. Secondary fires can lead to a fire storm that causes damage far beyond safety radius Rs.

The formula developed herein assumes that only natural gas is burning and that there is sufficient combustion air to keep the burning air-gas mixture lean. The results of the formula are compared to the actual fire damage radius that occurred at Appomattox, Virginia where a 30 inch diameter buried high pressure natural gas pipeline ruptured and burned in a farm field on September 14, 2008. There have been other major natural gas pipeline ruptures, delayed ignition explosions and fires in urban areas such as at Middletown (suburb of Hartford), Connecticut on February 7, 2010 and at San Bruno (a suburb of San Francisco), California on September 9, 2010.

#### FORMULA DEVELOPMENT:

Consider a long straight natural gas pipeline that is subject to a sudden rupture that opens the full cross section of the pipe. To calculate the radiant heating consequences if there is a fire it is necessary to first find the natural gas mass flow rate out of the rupture. In reality there are two flows, because the pipes on both sides of the rupture discharge natural gas into the rupture. We will calculate one of these gas flows and then double the result to obtain the total mass flow rate out of the rupture.

Let **Pa** = the pressure in the pipeline distant from the rupture

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20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 FM Let **Pb** = the pressure at the point of rupture after the rupture. Normally **Pb** is atmospheric pressure. Let **Dp** = pipe inside diameter Let Pi = 3.14159 Let **En** = nozzle efficiency of natural gas pressure energy to kinetic energy conversion in a long straight pipe. Generally 0.90 < En < 0.99 The uniform pipe cross-sectional area  $\boldsymbol{Ac}$  is given by:  $Ac = Pi (Dp'/2)^2$ Let X indicate linear position along the pipe of an element of volume Ac dX. Let **Rm** = natural gas mass density as a function of linear position **X**. Let Rma = natural gas density at pressure Pa Let Rmb = gas density at pressure Pb The mass of gas dM contained in the element of volume Ac dX is: dM = Rm Ac dXLet T = timeThen the gas linear velocity  ${\boldsymbol V}$  is given by: V = (dX / dT)The gas linear motion kinetic energy in element of volume Ac dX is: (dM / 2) (dX / dT)^2 = (Rm Ac dX / 2) (dX / dT)^2 Hence the kinetic energy density is: (Rm / 2) (dX / dT)^2 Let **P** = pressure at **X** Then the gas pressure potential energy contained in the element of volume Ac dX is given by: P Ac dX The pressure **P** is the gas potential energy density at **X**. Within the pipe but near the point of rupture the gas pressure potential energy density decreases and the gas linear motion kinetic energy increases causing an increase in linear gas velocity V.

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20160825-5127 FERC FDF (Unofficial) 8/25/2016 2:50:57 FM Let **En** be the nozzle efficiency with which gas pressure potential energy converts into gas kinetic energy of linear motion. **En** is complex to calculate but generally lies in the range: 0.90 < En < 0.99 Note that a small fraction (1 - En) of the pressure potential energy is converted into heat. Conservation of energy along the pipe requires that:  $- dP En = d[(Rm / 2) (dX / dT)^2]$ or - 2 En dP = d[Rm (dX / dT)^2] Let subscript **a** indicate a parameter value at a point in the pipe far from the rupture. Let subscript **b** indicate a parameter value at the rupture location. Hence the linear gas velocity at the point of rupture is **Vb**. The mass flow rate from one pipe at the point of rupture is: Rmb Ac Vb Integrating from **Pa** to **Pb** gives: - 2 En (Pb - Pa) = [Rm (dX / dT)^ 2]b - [Rm (dX / dT)^ 2]a Assume that as a result of the pipe rupture the natural gas pipeline supervisory control system closes isolation valves distantly upstream and downstream from the pipe rupture. Then the condition at the location of each of these valves is no flow, or expressed mathematically in terms of the gas stream: [dX / dT]a = 0Hence  $2 \text{ En } (\text{Pa} - \text{Pb}) = [\text{Rm} (dX / dT)^2]b$ or  $[dX / dT]b = [2 En (Pa - Pb) / Rmb]^0.5$ Fm = exiting gas mass flow rate from one pipe = Rmb Ac [dX / dT]b= Rmb Ac [2 En (Pa - Pb) / Rmb]^0.5 = Ac [2 En (Pa - Pb) Rmb]^0.5 Let **Ec** be the combustion heat release per unit mass of natural gas. Then the total combustion heat release H per unit time is given by: H = 2 Fm Ec where the 2 reflects the fact that the rupture is fed by two pipes. Let Fr be the fraction of the combustion heat that is emitted via radiation. Let **R**z = radius from the center of the flame to a surface subject to radiation damage. Assume that the radiation is evenly distributed over a sphere with radius **Rz** and surface area 4 Pi Rz^2. Then at radius Rz the radiation intensity / unit area is:  $Rz = (H Fr) / (4 Pi Rz^2)$ Assume that to avoid skin damage the radiation intensity should be less than the most intense possible solar radiation incident on the Earth's surface (  $1365 \text{ W} / \text{m}^2$ ). This parameter is known as the Solar Irradiance. Hence, in terms of radiant energy, the safe

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20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 FM distance **Rs** from the center of the flame is defined by: (H Fr) / (4 Pi Rs^2) = 1365 watts / m^2 or Rs = [(H Fr) / (4 Pi X 1365 watts / m^2)]^0.5 = [(2 Fm Ec Fr) / (4 Pi X 1365 watts / m^2)]^0.5 where natural gas mass flow Fm is given by:  $Fm = Ac [2 En (Pa - Pb) Rmb]^{0.5}$ = Pi (Dp / 2)^2 [2 En (Pa - Pb) Rmb]^0.5 Combining the formulas for **Rs** and **Fm** gives: Rs = [(2 Fm Ec Fr) / (4 Pi X 1365 watts / m^2)]^0.5 = [(2 Pi (Dp / 2)^2 [2 En (Pa - Pb) Rmb]^0.5 Ec Fr) / (4 Pi X 1365 watts / m^2)]^0.5 = Dp [En (Pa - Pb)]^0.25 [( [2 Rmb]^0.5 Ec Fr) / (8 X 1365 watts / m^2)]^0.5 The value of Fr can be found from a paper by J. P. Gore et al titled Structure and Radiation Properties of Large-scale Natural Gas/Air Diffusion Flames, published in Fire and Materials, Vol. 10, 161-169 (1986). These authors found that the radiation emission from a 207 MW natural gas flame measured at ground level about 11.9 m from the flame center was 6.37 kW / m^2. The surface area of that sphere was: 4 Pi (11.9 m)^2 = 1778.62 m^2 Hence the emitted radiation was: 6.37 kW / m^2 X 1778.62 m^2 = 11330 kW = 11.330 MW Hence: Fr = 11.330 MW / 207 MW = .0547 This Fr value is in good agreement with other Fr data for lean burn flame retention natural gas burners provided to this author by the Canadian Gas Research Institute. NUMERICAL SIMPLIFICATION: Pi = 3.1415928 Rmb = 16 gm / 22.4 lit = 16 X 10^-3 kg / 22.4 X 10^-3 m^3 = .714 kg / m^3 = density of natural gas at standard temperature-pressure Ec = (10.4 kWh / m^3) X (1 m^3 / .714 kg) X 3600 s / h = 52437 kJ / kg Hence: Rs = Dp [En (Pa - Pb)]^0.25 [( [2 Rmb]^0.5 Ec Fr) / (8 X 1365 watts / m^2)]^0.5 = Dp [En (Pa - Pb)]^0.25 [( [2 X .714 kg / m^3]^0.5 X 52437 kJ / kg X .0547) / (8 X 1365 watts / m^2)]^0.5 = Dp [En (Pa - Pb)]^0.25 [[1.428 kg / m^3]^0.5 X .26266 kJ m^2 / kg-watts X 1000 J / kJ]^0.5 = Dp [En (Pa - Pb)]^0.25 [1.195 kg^0.5 m^-1.5 X 262.66 J m^2 / kg-watts]^0.5

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20160825-5127 FERC FDF (Unofficial) 8/25/2016 2:50:57 FM = Dp [En (Pa - Pb)]^0.25 X 17.71 kg^0.25 m^-.75 m (J / kg-watts)^0.5 = 17.71 Dp [En (Pa - Pb)]^0.25 kg^0.25 m^-.75 m (watt s / kg-watts)^0.5 = 17.71 Dp [En (Pa - Pb)]^0.25 kg^-0.25 m^.25 s ^0.5 = 17.71 Dp [En (Pa - Pb) / Pascal]^0.25 If pipe diameter **Dp** is in meters and if the operating pressure (**Pa - Pb**) is in Pascals this formula gives the safe setback distance **Rs** in meters. Units Check: (Pascal)^0.25 = (newtons / m^2)^0.25 = (kg m s^-2 m^-2)^0.25 = kg^0.25 m^-.25 s^-0.5 For practical calculations use the assumption that: En^0.25 = 1.0. This assumption may lead to as much as a 2.7 % error in the calculated value of Rs but this assumption simplifies the formula for **Rs** sufficiently to make it suitable for practical regulatory use. INTERPRETATION OF RESULTS: At: Rz = Rs the radiation level from the natural gas inferno is equal to the solar irradiance, so human skin damage is confined to sunburn like effects. At: Rz = (Rs / 2)the radiation level from the natural gas inferno is four times the solar irradiance. This is the maximum radiation level that normally equipped municipal fire fighters can sustain. Hence in the area defined by: Rz < (Rs / 2)secondary fires usually burn unimpeded unless suppressed by water bombers or other comparable specialized equipment. At: Rz = (Rs / 4)the radiation level from the natural gas inferno is sixteen times the solar irradiance. In the region: Rz < (Rs / 4)there is rapid direct ignition of almost all combustable surfaces and there is total property loss regardless of the available fire fighting capability. SECONDARY IGNITION: Almost immediately after the natural gas fire starts exposed combustible surfaces in the region: Rz < (Rs / 4) ignite. However, from a property damage perspective the bigger problem is that fires which are directly ignited within the region: Rz < (Rs / 4) quickly spread into the region: (Rs / 4) < Rz < (Rs / 2)

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because the thermal radiation levels in the region: Rz < (Rs / 2)are too high for municipal fire fighters to function in that region.

History has demonstrated that the practical way of minimizing property damage in the region:

(Rs / 4) < Rz < (Rs / 2) is to use water bombers to minimize spread of fires via secondary ignition.

Assuming normal municipal fire fighter response not supported by water bombers, the area that will likely be destroyed by secondary fires is the ring defined by: (Rs / 4) < Rz < (Rs / 2). The area of this ring is about three times the area defined by: Rz < (Rs / 4) that burns via direct ignition.

#### DAMAGE MITIGATION:

Both theory and field experience indicate that the most favorable condition for mitigating of damage by a burning natural gas pipeline is a deep snow cover. The snow reflects the infrared radiation up into the sky and if the snow melts the resulting water prevents most surfaces getting hot enough to ignite.

#### POTENTIAL IMPACT RADIUS (PIR):

In the Province of Ontario the **Technical Standards & Safety Authority (TSSA)** has defined what **TSSA** terms **Potential Impact Radius** or **PIR**, where: **1.0 PIR** ~ (Rs / 4).

A technical representative of **TSSA** readily admitted that **1.0 PIR** is not an adequate safety radius. **1.0 PIR** is a compromise made by **TSSA** between urban pipeline corridor real estate cost and public safety. Buildings such as secondary schools, etc. that routinely contain concentrations of healthy independently mobile people should be set back at least **2.0 PIR** from the pipeline axis. Buildings such as elementary schools, nursing homes and hospitals, that routinely contain people who are not independently mobile, should be set back at least **4.0 PIR** from the pipeline axis. However, in Ontario the actual amount of setback from the pipeline axis is determined by the governing municipal authority, not **TSSA**.

The practical effect of using the **TSSA PIR** as a regulatory setback is to reduce the cost of natural gas pipeline rupture failure related fire damage by about a factor of three under circumstances of no wind and good municipal fire fighting capacity. Assuming these circumstances, a regulatory setback of at least **2.0 PIR** is required to reduce the direct fire damage to close to zero. If the region in question has frequent wind or minimal fire fighting capacity, then a setback of **4.0 PIR** should be used.

#### EXAMPLES:

#### ENGLEHART, ONTARIO:

On September 12, 2009 a 914 mm OD, 9.1 mm wall natural gas transmission pipe operating at 6869 kPa ruptured about 12 km NW of Englehart, Ontario. An area of 25

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(Rs / 4) = 207 mClearly the actual destruction was in good agreement with the theoretical formula.

#### YORK ENERGY CENTRE PIPELINE, KING TOWNSHIP, ONTARIO:

The York Energy Centre is a natural gas fueled air cooled combustion turbine based 400 MW electricity generation station located in YOrk Region, north of Toronto. This facility is served by a dedicated **16 inch diameter 600 psi** natural gas pipeline running through a mostly rural area.

Assume: En^0.25 = 1.0

Dp = 16 inches = .406 m

Pb = 14.7 psia = 1 bar = 101 kPa = 1.01 X 10^5 newtons / m^2

Pa = 600 psia = 40.81 bar = 4122.4 kPa = 41.22 X 10^5 newtons / m^2

Hence:

## $Rs = 17.71 \ X$ .406 m X (40.21 X 10^5 newtons / m^2)^0.25 kg^-0.25 m^.25 s ^0.5

= 17.71 X .406 m X 402.1^0.25 X 10 (kg m s^-2 m^-2)^0.25 kg^-0.25 m^.25 s ^0.5 = 321.97 m

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Application of this formula to the York Energy Centre pipeline gives a radiation safety distance of about: Rs = 322 metres.

At **Rz** = (**Rs / 2**) = **161 metres** the radiation level will be four times as high as at **Rs** = **322 m**. In practice:

Rz = (Rs / 2)

is the closest that municipal fire fighters are able to approach the natural gas inferno. Hence in the area where:

Rz < (Rs / 2)

secondary fires involving both buildings and farm crops will burn unimpeded.

In the case of the York Energy Centre pipeline a minimum **161 metre setback** should be maintained from the pipeline center line to all human occupied structures and to all places of routine outdoor human assembly. This is an ongoing setback requirement that should be actively enforced by municipal authorities for the life of the pipeline. All parties should clearly understand that the radiation emitted by a pipeline rupture/fire is so intense that the only practical strategy for a municipal fire department is to let the fire burn itself out. It is also unrealistic to expect persons within radius:

#### Rz < (Rs / 2)

of a pipeline rupture/fire to be rescued by fire department personnel who lack equipment for working in zones of high thermal radiation.

If possible the municipality should attempt to enforce a **322 m setback** instead of a **161 m setback**. There could still easily be litigation related to injury and property damage in the ring:

#### 161 m < Rz < 322 m

resulting from the fire simply overwhelming the capabilities of rural municipal fire department(s).

#### APPOMATTOX, VIRGINIA:

On September 14, 2008 a 30 inch diameter buried natural gas pipeline that normally operates at a pressure of 800 psi ruptured and burned in a farmer's field near the intersection of Highway 26 and State Route 677 just north of Appomattox, Virginia. There was a modest delayed ignition explosion. Overhead news photographs showed the area where the crop burned. The burned area was measured using distance calibrated overhead photographs from Google maps. It was found that with reference to the pipe rupture crater the burned crop area extended **311** m to the south-west and **275** m to the north-east.

Assume: En^0.25 = 1.0

Application of the formula for the radiation safety distance **Rs** gives: **Dp** = 30 inch X .0254 m / inch = 0.762 m **Pa** = 800 psi X 101 X 10^3 Pa / 14.7 psi = 549.66 X 10^4 Pa **Pb** = 101 X 10^3 Pa = 10.1 X 10^4 Pa **Rs** = **17.71 Dp** (**Pa** - **Pb**)^0.25 kg^-0.25 m^.25 s ^0.5 = **17.71 X** 0.763 m X (539.56 X 10^4 Pa)^0.25 kg^-0.25 m^.25 s ^0.5 = **651.25 m** Thus the radius to which the crops spontaneously burned approximately conformed with: **Rz** < (**Rs** / 2).

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#### SAN BRUNO, CALIFORNIA:

On September 9, 2010 at 6:11 PM a **30 inch diameter** buried natural gas pipeline operating at a pressure of **400 psia** ruptured and burned in a single family estate home residential area in San Bruno, California. San Bruno is a southern suburb of San Francisco, about 2 miles from the San Francisco airport. The homes near the rupture location each had lot sizes in excess of one acre. San Bruno had the benefit of probably the best available municipal fire fighting capacity in North America.

There was a modest delayed ignition explosion followed by a large natural gas fire that persisted for more than two hours. Secondary fires continued for more than eight further hours. The fire scene was attended by **67** fire **trucks**, **4** fixed wing aerial water **bombers and 1** fire **fighting helicopter**.

Aerial photographs showing the area that burned were compared to distance calibrated Google maps. In spite of the large amount of immediately available fire fighting equipment almost all the homes (38) within a 150 m radius damage circle were completely destroyed. A further 17 homes were severely damaged and a further 53 homes sustained lesser damage. The center of the damage circle was displaced from the pipe rupture location by about 100 m. The cause of this displacement was a combination of local factors including natural gas pipeline orientation, natural gas exit velocity, wind, steep local terrain, local tree concentrations and asymetrical application of fire fighting resources.

Assume: En^0.25 = 1.0

Application of the formula for the radiation safety distance **Rs** gives: **Dp** = 30 inch X .0254 m / inch = 0.762 m **Pa** = 400 psia X 101 X 10^3 Pa / 14.7 psia = 274.8 X 10^4 Pa **Pb** = 101 X 10^3 Pa = 10.1 X 10^4 Pa **Rs** = **17.71 Dp** (**Pa** - **Pb**)^0.25 kg^-0.25 m^.25 s ^0.5 = 17.71 X 0.762 m X (264.7 X 10^4 Pa)^0.25 kg^-0.25 m^.25 s ^0.5 = **544.3 m** Thus the calculated area of damage to or loss of homes was the area where: **Rz** < (**Rs** / 2), which is a circle of radius **272 m**.

It is clear from subsequent photographs and incident reports that absent the massive fire fighting resources that were immediately available close to the San Francisco Airport, including **four water bombers**, the actual area of total destruction would have closely conformed to the calculated destruction radius: (Rs / 2) = 272 m.

The practical experience at San Bruno indicates that there is a limit to the capabilites of urban municipal fire departments. Even when there is an army of immediately available emergency personnel and almost unlimited municipal fire fighting equipment, the municipal water mains and their pumping systems limit the municipal fire fighting capacity. Water bombers designed for fighting large forest fires are of considerable help because they can combat secondary fires in the ring:

#### (Rs / 4) < Rz < (Rs / 2)

which is not accessible to municipal fire fighters due to high infrared radiation levels.

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However, the standby costs of maintaining a fleet of large water bombers that are available and ready to fly at a moments notice are prohibitive for most jurisdictions. In this respect the residents of San Bruno were particularly fortunate that there were four suitable water bombers immediately available and based only two miles away. Otherwise the fire damage losses would have likely at least tripled.

An important conclusion from the San Bruno NTSB accident investigation report was that the pipe section that ruptured was defective at the time of original installation and had never been subject to an as-built hydraulic pressure test to the Specified Minimum Yield Stress (SMYS) for the pipeline material.

#### JERSEY CITY, NEW JERSEY:

In March 2012 this author was made aware of a plan to build a **42 inch diameter 1200 psi** natural gas pipeline through a densely populated area of Jersey City, New Jersey. This author's immediate response was that this plan is stupid because that pipeline would be a long term magnet for every anti-USA terrorist in the world. This author strongly recommended that this pipeline be rerouted outside the urban area, regardless of the extra cost.

If construction of this pipeline proceeds as originally contemplated, the consequences of a rupture failure, perhaps intentionally caused, would be comparable to the air burst of a small tactical nuclear warhead. The safety radius **Rs** and the radius of probable total destruction (**Rs** / 2) can be calculated as follows: Assume:

En^0.25 = 1.0

Pp = 42 inch X .0254 m / inch = 1.0668 m Pa = 1200 psia X 101 X 10^3 Pa / 14.7 psia = 824.5 X 10^4 Pa Pb = 101 X 10^3 Pa = 10.1 X 10^4 Pa Rs = 17.71 Dp (Pa - Pb)^0.25 kg^-0.25 m^.25 s ^0.5 = 17.71 X 1.0668 m X (814.4 X 10^4 Pa)^0.25 kg^-0.25 m^.25 s ^0.5 = 1009.2 m

Thus the calculated area of spontaneous combustion is an area where Rz < (Rs / 2), which is a circle of radius **504.6 m**. The perimeter length of that circle, which would be the fire fighting front length, is: **2 Pi (504.6 m) = 3170 m**.

The only way to stop a fire of that size is to make back fires to create a fire break about **3 km long** and a block wide through the center of the city. The direct and consequential damages from the natural gas fire and the back fire would be unprecedented in United States history. The fire storm and consequent loss of life and property would be comparable to the WVII fire storms in Dresden, Hamburg, Tokyo and Hiroshima.

It is the hope of this author that common sense will prevail and that senior members of the United States government will do all necessary to force rerouting of this large diameter high pressure natural gas pipeline to a longer but much safer rural route.

One practical way to force rerouting of this pipeline is to immediately enact strong legislation to require the pipeline owners to continuously carry credible third party liability insurance and reinsurance sufficient to replace everything and everyone within **500 m** of any potential pipe rupture location.

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It must be emphasized that no amount of hydraulic pressure testing or pig testing will protect the public from intentional sabotage of such a pipeline passing through an urban area. The stress in the pipe walls is sufficient that even a relatively small suitably shaped fast explosive charge will cause a rupture failure.

#### CONCLUSIONS:

When a large diameter high pressure natural gas pipeline operating at its rated working pressure develops a crack or hole more than four pipe wall thicknesses in axial length the result is a sudden full cross section pipe rupture. The escaping high pressure gas blows away the soil overburden, forming a crater. Some time after the pipe rupture there is a large delayed ignition explosion followed by a steady state fire. This fire emits so much thermal radiation that it it is impossible to approach or extinguish the fire with conventional fire fighting equipment.

One can define a radiation safety distance **Rs** from the fire at which distance the thermal radiation level is similar to the thermal radiation level at noon in the middle of the Sahara desert on a clear cloudless day. The formula for a lean burn natural gas flame is: **Rs** = 17.71 Dp [En (Pa - Pb) / Pascal]^0.25

#### where:

**Rs** = radiation safety distance in metres

- **Dp** = pipeline diameter in metres
- En = nozzle efficiency (0.90 < En <0.99)
- **Pa** = pipeline absolute working pressure in Pascals
- **Pb** = atmospheric pressure in Pascals. Normally atmospheric pressure is about 101,000 Pascals.

In highly precise scientific measurements: 0.90 < En < 0.99. However, even if the nozzle efficiency En is as low as: En = 0.90in the formula for Rs:  $En^{0.25} = .974$ Hence for practical calculation purposes it is convenient to simply use the approximation that:

En^0.25 = 1.0

At radii Rz from the rupture in the range:

Rz < (Rs / 4)

almost all exposed combustible materials rapidly spontaneously ignite and burn. In this radius range there is virtually nothing that can be done to prevent 100% loss of lives and property.

At radii Rz from the rupture in the range: (Rs / 4) < Rz < (Rs / 2)

secondary ignion causes exposed combustible materials to burn. In this radius range the thermal radiation level is too high for the fire to be fought by municipal fire departments. However, in this radius range damage can be mitigated through the use of water bombers if they are immediately available.

At radii **Rz** from the rupture in the range: **Rz > (Rs / 2)** 

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absent a high wind, a well equipped and well staffed municipal fire department is usually able to prevent significant secondary ignition fire damage.

It should be emphasized that the above calculations apply to thermal radiation from steady state combustion of natural gas in a clean lean flame. There is additional danger if the natural gas flame is rich or if it triggers combustion of materials that form soot. If large amounts of soot mix with the natural gas combustion air the soot could increase the radiant heat fraction **Fr** four fold which would double the safety radius **Rs**.

The damage radius from the initial delayed ignition explosion could easily be larger than **Rs**. Based on eyewitness reports from Appomattox the sequence of events at that pipeline rupture/fire was a large delayed ignition explosion followed by steady state combustion. The same sequence of events has occurred elsewhere.

The above calculation shows that even if someone is fortunate enough to survive the initial delayed ignition explosion, the temperature within the radiation safety radius **Rs** of the flame will quickly rise past the point of human tolerance.

For large diameter high pressure natural gas pipelines passing through urban areas this author strongly recommends an initial as-built hydraulic pressure test to 100% of pipe SMYS (Specified Minimum Yield Stress) and a maximum operating pressure producing a pipe material stress of no more than 30% of SMYS. Furthermore, as long as the pipe remains in service in an urban area the pipe should be retested at least every five years with a non-combustable fluid to the larger of 50% of pipe SMYS or 150% of the maximum allowable operating pressure. These safety margins have been proven through many years of pressure vessel design, construction and use and are the basis of almost all modern pressure vessel safety codes.

In theory if the pipe could be assembled in the rigerously controlled conditions of a certified pressure vessel fabrication facility with complete material control and ideal welding, initial as-built hydraulic pressure testing to 50% of SMYS might be adequate. However, under the practical conditions that natural gas pipelines are assembled and welded in the field that degree of material and fabrication control is impossible. Hence the only solution is an initial as-built hydraulic pressure test to 100% of pipe SMYS. There is no mill test, x-ray test, pig test, spectrograph test, sampling test or inspection procedure that can replace a hydraulic pressure test to 100% of SMYS.

Given the limited resources of rural fire departments it is reasonable to assume that in the event of a large diameter high pressure natural gas pipeline rupture/fire they will simply ensure that the pipe is valved off on both sides of the rupture and then let the fire burn itself out. It is also reasonable to conclude that crops, buildings and other combustibles within a distance Rz < (Rs / 2) of the pipeline rupture/fire will be totally destroyed.

The principal objective of emergency services must be to immediately evacuate humans from inside the radiation safety radius **Rs**. It can safely be assumed that for: **(Rs / 2) < Rz < Rs** damage to property will be significant and for: **Rz < (Rs / 2)** almost everything will be destroyed. Most municipal fire departments are not equipped to function within the high thermal radiation levels that will occur at: **Rz < (Rs / 2)**.

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Life and property insurance coverages should reflect this reality.

#### **REGULATORY ISSUES:**

To minimize potential damage large diameter high pressure natural gas pipelines must be installed near the center lines of available energy transmission corridors. This issue needs to be embedded in regulation.

With reference to Ontario Technical Standards & Safety Authority (TSSA) Fuels Safety Program, OIL AND GAS PIPELINE SYSTEMS CODE ADOPTION DOCUMENT AMENDMENT FS-196-12 dated November 1, 2012, the formula for Potential Impact Radius (PIR) should be replaced by the formula for (Rs / 2) contained herein. The issue is that the formula for PIR contained in AMENDMENT FS-196-12 yields a Potential Impact Radius that is only about (Rs / 4) whereas recent pipeline rupture fires have confirmed the validity of (Rs / 2) as being the actual impact radius.

Alternatively **TSSA** should modify the language in its regulations so that the general public clearly understands that the **PIR**, as defined by **TSSA**, is only about one half of the radius of 100% property loss.

The Ontario **TSSA** should be realistic with respect to the limited capability of municipal fire fighters working within high thermal radiation zones. In the event of a major natural gas pipeline rupture/fire the available fire fighters will likely attempt to save human lives but in so doing will likely sustain both personal skin damage and equipment damage. They will then be unable to fight or extinguish fires. Furthermore, the experience in San Bruno, California and elsewhere has been that the municipal fire fighting capacity is further constrained by the available hydrant water flow. The fire in San Bruno was in large measure contained through the use of water bombers that were stationed nearby for controlling forest fires. However, in much of Ontario there is no immediate water bomber availability nor viable chain of command for prompt water bomber dispatch.

In this matter I speak from personal experience. I grew up in British Columbia where during the 1960s major forest fires, and a major fire on the Vancouver waterfront, were contained using a fleet of WWII surplus giant Martin Mars flying boats. These flying boats were converted from military transports into water bombers. I believe that two of them are still in service today. When trying to control a big fire, there is nothing comparable to dropping 6000 imperial gallons of water/foam on the fire in a few seconds. The water/foam will not extinguish the main natural gas inferno but it will cool the surrounding exposed surfaces and thus minimize secondary fires in the ring:

#### (Rs / 4) < Rz < (Rs / 2).

This ring, which is not accessible to municipal fire fighters due to high thermal radiation from the natural gas inferno, may contain hundreds of homes.

It is a huge mistake to create a regulatory framework which has the practical effect of not allowing parties that build, own, operate and maintain large water bombers to financially prosper. There is no doubt that a fleet of large water bombers has a high ongoing cost that must be borne by the taxpayers and/or insurance industry and/or major forest companies. However, when there is a fire that overwhelms the municipal fire department/forest service, then every dollar invested in the water bomber fleet provides a hansom return. In hindsight, one of the benefits of leasing exclusive timber rights to large forest companies was that those companies, in their own self interest, paid the costs of ownership, operation and maintenance of the fleet of large water bombers.

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There is a major problem related to both provincial and municipal land use planning. In Ontario both provincial and municipal planners have failed to provide sufficiently wide dedicated energy transmission corridors into major urban centers such as Toronto. The 400 series highways are located in corridors that are typically about 400 m wide, including the width allowance for the adjacent electricity transmission lines. These corridors are simply not wide enough to provide an adequate safety setback distance from a 36 inch diameter high pressure natural gas pipeline, even if the pipeline is on the corridors, so private property owners on both sides of these highways are being exposed to risk related to major pipeline rupture failures.

This problem of failed governmental planning is not unique to Toronto or Ontario. There are even worse pipeline setback problems in the New Jersey - New York City area.

There is also a new class of pipeline risks related to grounded electrical equipment located near pipeline corridors. In an effort to efficiently utilize land, in some places 3.0 MVA wind turbines are being installed in or adjacent to existing dedicated energy transmission corridors. However, wind turbine transformers can cause ground currents that lead to rapid corrosion of nearby buried steel pipelines. It is crucial that the electrical codes relating to wind turbines and other distributed power equipment address this ground current issue. Every wind turbine within a wind farm must be separately isolated from its transformer connection. Every wind turbine must be fitted with ground fault detection and alarm signalling. Substation transformers need to be selected for low harmonic generation.

There needs to be new legislation that makes parties that cause ground currents financially responsible for accelerated corrosion damage to nearby buried steel pipelines. In extreme cases, especially in the proximity of large unbalanced electrical power inverters, or with subsurface bed rock, the radius of such ground current induced pipeline damage can extend more than 3 km from the electrical equipment grounding point.

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### GRI-00/0189

A MODEL FOR SIZING HIGH CONSEQUENCE AREAS ASSOCIATED WITH NATURAL GAS PIPELINES

TOPICAL REPORT

#### Prepared by:

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C-FER Report 99068

Prepared for:

GAS RESEARCH INSTITUTE Contract No. 8174

GRI Project Manager

Keith Leewis, Pipeline Business Unit

October 2000

**Companies/Organizations Comments** 

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### RESEARCH SUMMARY

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Title	A Model for Sizing High Consequence Areas Associated with Natura Gas Pipelines
Contractor(s)	C-FER Technologies
GRI-Contract Number	8174
Principal Investigator(s)	Mark J. Stephens
Report Type	Topical Report
Objective State	To develop a simple and defendable approach to sizing the ground area potentially affected by the failure of a high-pressure natural gas pipeline.
Technical Perspective	The rupture of a high-pressure natural gas pipeline can lead to outcomes that can pose a significant threat to people and property in the intimediate vicinity of the failure location. The dominant hazard is thermal radiation from a sustained fire and an estimate of the pround area affected by a credible worst-case event can be obtained from a model than characterizes the heat intensity associated with rupture failure of the pipe where the escaping gas is assumed to feed a fire that ignites very soon after the failure.
Technical Approach	An equation has been developed that relates the diameter and operating pressure of a pipeline to the size of the affected area in the event of a credible worst-case failure event. The model upon which the hazard area equation is based consists of three parts; 1) a fire model that relates the rate of gas release to the heat intensity of the fire; 2) an effective release rate model that provides a representative steady-state approximation to the actual transient release rate; and 3) a heat intensity of threshold that establishes the sustained heat intensity is level above which the effects on people and property are consistent with the adopted definition of a High Consequence Area (HCA).
Results	For methane with an HCA threshold heat intensity of 5,000 Bturhe $n^2$ , the hazard area equation is given by: $r = 0.685 \sqrt{p d^2}$
	where r is the hazard area radius (i), d is the line diameter (in), and p is the maximum operating pressure (psi).
Project Implications	Natural gas transmission line operators will provide periodic assumances that their pipelines are safe. The Federal code 49CFR192 mandates increased wall thickness therefy reducing the corrosion and mechanical damage risks as the population density increases. The definition of High Consequence Areas is expected to require additional protection for people with limited mobility such as day care centers, old age homes, and prisons. This report suggests the definition for the HCA area of increased protection be set by two parameters, the pipe damater and it's operating pressure.

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#### 1. INTRODUCTION

#### 1.1 Scope and Objective

This report summarizes the findings of a study conducted by C-FER Technologies (C-FER), under contract to the Gas Research Institute (GRI), to develop a simple and defendable approach to sizing the ground area potentially affected by the failure of a high-pressure natural gas pipeline. This work was carried out at the request of the Integrity Management and Systems Operations Technical Advisory Group (IM&SO TAG), a committee of GRI.

#### 1.2 Technical Background

The failure of a high-pressure natural gas pipeline can lead to various outcomes, some of which can pose a significant threat to people and property in the immediate vicinity of the failure location. For a given pipeline, the type of hazard that develops, and the damage or injury potential associated with the hazard, will depend on the mode of fine failure (*i.e.*, leak ys, rupture), the nature of gas discharge (*i.e.*, vertical vs, inclined jet, obstructed vs, unobstructed jet) and the time to ignition (*i.e.*, immediate vs, delayed). The various possible outcomes are summarized in Figure 1.1.

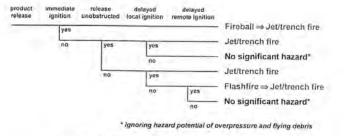


Figure 1.1 Event tree for high pressure gas pipeline failure (adapted from Bilo and Kinsman 1997).

For gas pipelines, the possibility of a significant flash fire resulting from delayed remote ignition is extremely low due to the buoyant nature of the vapor, which generally precludes the formation of a persistent flammable vapor cloud at ground level. The dominant hazard is, therefore, thermal radiation from a sustained jet or trench fire, which may be preceded by a short-lived fireball.

In the event of line rupture, a mushroom-shaped gas cloud will form and then grow in size and rise due to discharge momentum and buoyancy. This cloud will, however, disperse rapidly and a quasi-steady gas jet or plume will establish itself. If ignition occurs before the initial cloud

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disperses, the flammable vapor will burn as a rising and expanding fireball before it decays into a sustained jet or trench fire. If ignition is slightly delayed, only a jet or trench fire will develop. Note that the added effect on people and property of an initial transient fireball can be accounted for by overestimating the intensity of the sustained jet or trench fire that remains following the dissipation of the fireball.

A trench fire is essentially a jet fire in which the discharging gas jet impinges upon an opposing jet and/or the side of the crater formed in the ground. Impingement dissipates some of the momentum in the escaping gas and redirects the jet upward, thereby producing a fire with a horizontal profile that is generally wider, shorter and more vertical in orientation, than would be the case for a randomly directed and unobstructed jet. The total ground area affected can, therefore, be greater for a trench fire than an unobstructed jet fire because more of the heat-radiating flame surface will typically be concentrated near the ground surface.

An estimate of the ground area affected by a credible worst-case failure event can, therefore, be obtained from a model that characterizes the heat intensity associated with rupture failure of the pipe, where the escaping gas is assumed to feed a sustained trench fire that ignites very soon after line failure.

Because the size of the fire will depend on the rate at which fuel is fed to the fire, it follows that the fire intensity and the corresponding size of the affected area will depend on the effective rate of gas release. The release rate can be shown to depend on the pressure differential and the hole size. For guilloline-type failures, where the effective hole size is equal to the line diameter, the governing parameters are, therefore, the line diameter and the pressure at the time of failure. Given the wide range of actual pipeline sizes and operating pressures, a meaningful fire bazard model should explicitly acknowledge the impact of these parameters on the area affected.

#### 1.3 Report Organization

The hazard model developed to relate the area potentially affected by a failure to the diameter and pressure of the pipeline is described in Section 2.0. Validation of the proposed hazard area model, based on historical data from high-pressure gas pipeline failure incidents in the United States and Canada, is presented in Section 3.0.

1.1

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#### 2. HAZARD MODEL

#### 2.1 Overview

An equation has been developed that relates the diameter and operating pressure of a pipeline to the size of the area likely to experience high consequences in the event of a credible worst-case failure event. The hazardous event considered is a guillotine-type line rupture resulting in double-ended gas release feeding a trench fire that is assumed to ignite soon after failure.

The hazard model upon which the hazard area equation is based consists of three parts: 1) a fire model that relates the rate of gas release to the heat intensity of the fire as a function of distance from the fire source; 2) an effective release rate model that provides a representative steady-state approximation to the actual transient release rate; and 3) a heat intensity threshold that establishes the sustained heat intensity level above which the effects on people and property are consistent with the definition of a high consequence area. Note that in the context of this study, an HCA is defined as the area within which the extent of property damage and the chance of serious or fatal injury would be expected to be significant in the event of a rupture failure.

The basis for each model, and any underlying assumptions, are described in Sections 2.2 through 2.4. The hazard area equation obtained by combining the model components is described in Section 2.5.

#### 2.2 Fire Model

A jet flame can be idealized as a series of point source beat emitters spread along the length of the flame (see Figure 2.1). Each point source can be is assumed to radiate an equal fraction of the total heat with the heat flux  $I_i$  at a given location resulting from point source *i* being given by (Technica 1988):

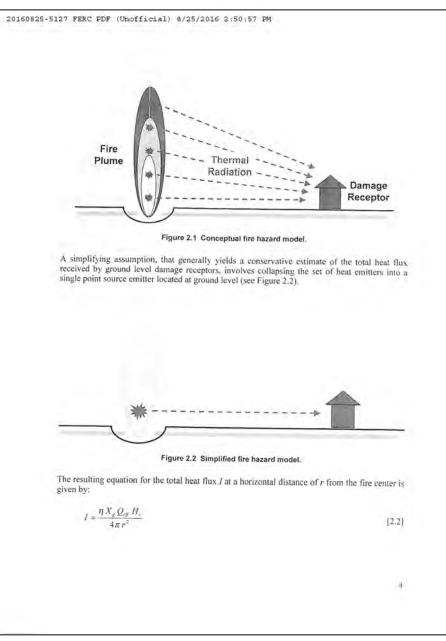
$$l_c = \frac{\eta X_s \mathcal{Q}_{sp} H_c}{4n_p \pi x_c^2}$$
[2.1]

where  $H_{\mu}$  = heat of combustion (constant for given product) = 50,000 kJ/kg for methane;

- $\eta$  = combustion efficiency factor = 0.35;
- $X_g = \text{emissivity factor} = 0.2;$
- $n_p$  = number of point sources;
- Qer = effective gas release rate; and
- x, = radial distance from heat source *i* to the location of interest.

The total heat flux reaching a given point is obtained by summing the radiation received from each point source emitter.

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This simplification is, in some respects, more consistent with the geometry of a trench fire which, due to the jet momentum dissipation (see Section 1.2), concentrates more of the heat-radiating flame surface near ground level. Note, however, that while a ground-level point source model represents a conservative approximation to a vertically-oriented jet flame or trench fire, this conservatism is partially offset by the fact that the model does not explicitly account for the possibility of laterally-oriented jets and/or the effects of wind on the actual position of the fire center relative to the center of the pipeline.

Note, also, that for a single point source emitter located at ground level directly above the pipeline, the locus of points receiving a heat flux of I defines a circular area of radius r centered on the pipeline. Thermal radiation bazard zones of increasing impact severity are, therefore, described by concentric circles centered on the pipeline having radii that correspond to progressively higher heat fluxes.

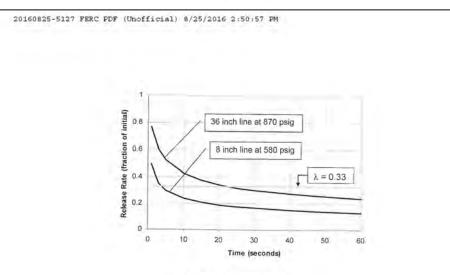
The adopted heat flux versus distance relationship given by Equation [2.2] represents an extension of the widely recognized flare radiation model given in API RP 521 (API 1990). It can be shown to be less conservative than the API flare model (t.e., it gives lower heat intensity estimates at a given distance) but this should not be considered surprising since the API model is widely recognized to be conservative (Lees 1996).

The adopted model is also preferred over some of the more generic, multi-purpose models available for industrial fire hazard analysis because it acknowledges factors, ignored by other models, that play a significant role in mitigating the intensity of real-world jet fire events. In particular, it accounts for the incomplete combustion of the escaping gas stream (through the combustion efficiency factor  $\eta$ ), and it acknowledges (through the emissivity factor  $X_w$ ) that a significant portion of the radiant heat energy will be absorbed by the atmosphere before it can reach targets at any significant distance from the flame surface.

#### 2.3 Effective Release Rate Model

The rate of gas release from a full-bore line rupture varies with time. Within seconds of failure, the rate of release will have dropped to a fraction of the peak initial value and over time the release rate will decay even further. This tendency for rapid release rate decay is illustrated in Figure 2.3, which shows how the rate would be expected to vary with time for two representative line diameter and operating pressure combinations. The relative release rate estimates shown in the figure were calculated using a non-dimensional rate decay model presented in a study by the Netherlands Organization of Applied Scientific Research. Division of Technology for Society (TNO 1982) which is based on realistic gas flow and decompression characteristics and which acknowledges both the compressibility of the gas and the effects of pipe wall friction.

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#### Figure 2.3 Release rate decay.

The peak initial release rate from the single end of a full-bore line rupture can be estimated using the widely recognized gas discharge equation given by the Crane Co. (1981) for sonic or choked flow through an orifice:

$$\mathcal{Q}_{m} = C_{d} \frac{\pi d^{T}}{4} p \frac{\varphi}{a_{n}}$$
[2.3a]

where 
$$\varphi = \text{flow factor} = \gamma \left(\frac{2}{\gamma + 1}\right)^{\frac{2\gamma + 1}{2(\gamma - 1)}}$$
. [2.3b]

$$a_{a} = \text{sonic velocity of gas} = \sqrt{\frac{\gamma RT}{m}};$$
 (2.3c)

 $C_d$  = discharge coefficient = 0.62;

- $\gamma$  = specific heat ratio of gas  $\approx 1.306$  for methane;
- R = gas constant = 8,310 J/(kg mol)/K;
- $T = \text{gas temperature} \cong 288 \text{ K or } 15 \text{ C};$
- $m = \text{gas molecular weight} \equiv 16 \text{ kg/mol for methane};$
- d = effective hole diameter  $\equiv$  line diameter; and
- p = pressure differential  $\ge$  line pressure.

Given that the release rate is highly variable, it follows that the size and intensity of the associated fire will also vary with time and the peak intensity of the fire will depend on exactly

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when ignition occurs. The hazard model developed herein accounts for the above by approximating the transient jet or trench fire as a steady state fire that is fed by an *effective* release rate. The effective release rate is a fractional multiple of the peak initial release rate that can be used to obtain estimates of sustained heat flux that are comparable to those obtained from a more realistic transient fire model that assumes a slight delay in ignition time.

For a guillotine-type failure of a pipeline resulting in double-ended release, the effective release rate that is assumed to feed a steady-state fire is given by:

$$Q_{cb} = 2\lambda Q_{a} = 2\lambda C_{a} \frac{\pi d^{2}}{4} p \frac{\varphi}{a_{a}}$$

$$(2.4)$$

where  $\lambda$  is the release rate decay factor and the factor of 2 acknowledges that gas will be escaping from both failed ends of the pipeline.

In general, the most appropriate value for the release rate decay factor will depend on the size of pipeline being considered, the pressure in the line at the time of failure, the assumed time to ignition, and the time period required to do damage to property or cause harm to people. Given that even immediate ignifon will require several seconds for the establishment of the assumed radiation conditions and given further that a fatal dose of thermal radiation can be received from a pipeline fire in well under 1 minute (see Section 2.4), it follows from Figure 2.3 that a rate decay factor in the range of 0.2 to 0.5 will likely yield a representative steady state approximation to the release rate for typical pipelines.

In a study of the risks from hazardous pipelines in the United Kingdom conducted by A. D. Little Ltd. (Hill and Catmur 1995), the authors report using a release rate decay factor of 0.25. A slightly more conservative value for  $\lambda$  of 0.33 has been adopted herein to ensure that the sustained fire intensity associated with nearly immediate ignition of fires associated with large diameter pipelines will not be underestimated (see Figure 2.3). Given that anecdotal information on natural gas pipeline failures suggests that the time to ignition may typically be in the range of 1 to 2 minutes (as in the Edison, New Jersey incident of 1994), the adopted release rate decay factor will likely yield an effective release rate estimate that overestimates the actual rate for the full duration of a typical gas pipeline rupture fire.

#### 2.4 Heat Intensity Threshold

For people, the degree of harm caused by thermal radiation is usually estimated using a model that relates the chance of burn injury or fatality to the thermal load received where the thermal load  $L_p$  is given by an equation of the form (Lees 1996):

$$L_{\mu} = t I^{\mu}$$
 [2.5]

where t is the exposure duration, f is the heat flux and n is an index.

Various recognized thermal load vs. effect models based on Equation [2.5] are summarized in Table 2.1 together with calculated estimates of the exposure times required to reach various

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conditions of injury and mortality for persons exposed to specified heat intensity levels. If it is assumed that within a 30 second time period an exposed person would remain in their original position for between 1 and 5 seconds (to evaluate the situation) and then run at 5 mph (2.5 m/s) in the direction of shelter, it is estimated that within this period of time they would travel a distance of about 200 ft (60 m). On the further assumption that, under typical conditions, a person can reasonably be expected to find a sheltered location within 200 ft of their initial position, a 30 second exposure time is considered credible and is, therefore, adopted as the reference exposure time for people outdoors at the time of failure.

Radiation Intensity of Heal Flux (Bla/tr (f <sup>2</sup> )	Badiation intensity or Hina Fase (toWar <sup>2</sup> )	Time to Burn Threshold (Launterp at = 1976) 11 <sup>119</sup> = 195	Time to Bintor Threstrold - iower <sup>1</sup> (Nymes 1660) <sup>17</sup> (N <sup>138</sup> + 210	Time to Blistler Threshold upper' items 10432 (*1 <sup>*33</sup> = 700	Time to 15- Mortality (hypens 1053) (17 <sup>7-31</sup> = 1060	Time to 50% Mortálity (************************************	Tertie to 100% Mortaliy 00% 4 Commun (973 (*1 <sup>1 10</sup> = 3500
1600	5,05		74.4	61.0	123.1	267.1	406.4
2000	6.31	23.5		110000000000000000000000000000000000000	213	168.5	302.1
3007	9.46	14.7	10.8	35 2	52.4	115.8	176.2
4000	12.62	10.6	7.2	24.0	36.4	79.0	120.2
5000	15.77	8.2	5.4	17.9		56.7	59.7
,8000	25.24	+8	2.9	66	1#.5		47.0
10000	31.55	3.7	21	7.8	1.01	23.3	35.5
12000	37 85-	30	1.7	56	84	18.3	
Note	2) (he known a) haar val	null rinks rangin (213) to 7.55 Vine union by Harma are a scume line (02% montally	sted on a liveland minist	willing of the reason and	wed by Emerhance at an		

Table 2.1 Effects of thermal radiation on people.

The exposure time estimates closest to this reference time are highlighted in Table 2.1 for each different thermal load effect. Note that the onset of burn injury within the reference exposure time is associated with a heat flux in the range of 1,600 to 2,000 Btu/hr ft<sup>2</sup> (5 to 6.3 kW/m<sup>2</sup>), depending on the burn injury criterion. The chance of fatal injury within the reference exposure time becomes significant at a heat flux of about 5,000 Btu/hr ft<sup>2</sup> (15.8 kW/m<sup>2</sup>), if the significance threshold is taken to be a 1% chance of mortality (*i.e.*, 1 in 100 people directly exposed to this thermal load would not be expected to survive).

For property, as represented by a wooden structure, the time to both piloted ignition (*i.e.*, with a flame source present) and spontaneous ignition (*i.e.*, without a flame source present) can also be estimated as a function of the thermal load received. For buildings, the thermal load  $L_{\delta}$  is given by an equation of the form (Lees 1996):

$$L_b = (I - I_s)t^n$$
  
[2.6]

where Is is the heat flux threshold below which ignition will not occur.

Models based on Equation [2.6], developed from widely cited tests as re-interpreted by the UK Health and Safety Executive (Bilo and Kinsman 1997), are summarized in Table 2.2 together with calculated estimates of the exposure times required for both piloted and spontaneous ignition at selected heat intensity levels.

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### CO22 – Coalition to Reroute Nexus (cont'd)

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Radiation Intensity or Heat Flux (Btu/hr ft <sup>2</sup> )	Radiation Intensity or Heat Flux (kW/m <sup>2</sup> )	Time to Piloted Ignition <sup>1</sup> (Bile & Kinsman 1997) (I-14.7)*t <sup>0.06/</sup> =118.5	Time to Spontaneous Ign. (Bilo & Kinsman 1997 (I-25.6)*1 <sup>6.6</sup> =167.6
4000	12.62	no ignition	no ignition
5000	15.77	Contraction in the	Contraction of the local division of the loc
8000	25.24	37.8	no ignition
10000	31.55	18.7	65.0
12000	37.85	11.6	26.3

Table 2.2 Effects of thermal radiation on wooden structures.

From Table 2.2 it can be seen that 5,000 Btu/hr ft<sup>2</sup> (15.8 kW/m<sup>2</sup>), corresponds to piloted ignition after about 20 minutes (1,200 seconds) of sustained exposure. The table further shows that spontaneous ignition is not possible at this heat intensity level. It is therefore assumed that this heat intensity represents a reasonable estimate of the heat flux below which wooden structures would not be destroyed, and below which wooden structures should afford indefinite protection to occupants.

Note that the model employed for estimating the effects of thermal radiation on property explicitly considers the duration of exposure required to cause ignition. Some earlier wood ignition models, which appear to be the basis for the often cited 4,000 Btu/hr R<sup>2</sup> (12.6 kW/m<sup>2</sup>) threshold for piloted wood ignition, are in fact associated with an almost indefinite time to ignition and are, therefore, considered to be overly conservative given the transient (decaying) nature of real pipeline rupture fires.

In light of the above, if a high consequence area is defined as the area within which both the extent of property damage and the chance of serious or fatal injury would be expected to be significant, it follows that this area can reasonably be defined by a heat intensity contour corresponding to a threshold value below which:

- property, as represented by a typical wooden structure, would not be expected to ignite and burn;
- people located indoors at the time of failure would likely be afforded indefinite protection; and
- people located outdoors at the time of failure would be exposed to a finite but low chance of fatality.

The information presented on thermal load effects suggests that below 5,000 Btu/hr ft<sup>2</sup>, a wooden structure would not be expected to burn and it, thereby, affords indefinite protection to sheltered persons. Also, this heat intensity level corresponds to approximately a 1 percent chance of fatality for persons exposed for a credible period of time before reaching shelter. A heat flux of 5,000 Btu/hr ft<sup>2</sup> has, therefore, been adopted as the threshold heat intensity for the purpose of sizing a high consequence area.

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### CO22 – Coalition to Reroute Nexus (cont'd)

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#### 2.5 Hazard Area Equation

Substituting the expression developed for the effective release rate (Equation [2.4]) into the heat intensity versus distance formula (Equation [2,2]), replacing all constants and rearranging gives the following expression for the radial distance to locations where the heat flux is equal to the threshold value:

$$r = \sqrt{\frac{2348 \rho d^2}{I_{sb}}} \quad (ft)$$
 [2.7]

where  $I_{\mu\nu}$  = threshold heat intensity (Btu/hr/ft<sup>2</sup>);

- p = line pressure (psi); and
- d = line diameter (in).

For a threshold heat intensity of 5,000 Btu/hr ft2, the above expression reduces to:

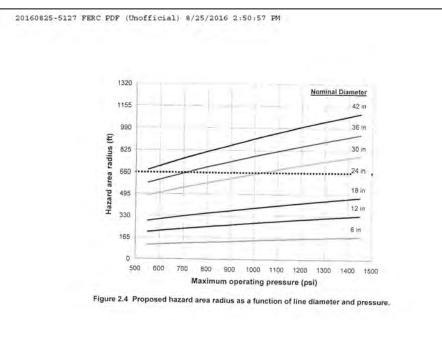
$$r = 0.685 \sqrt{p d^2}$$
(2.8)

Equation [2.8] can, therefore, be used to estimate the radius of a circular area surrounding the assumed point of line failure within which the impact on people and property would be expected to be consistent with the adopted definition of a high consequence area.

Hazard area radii, as calculated using Equation [2.8] are plotted in Figure 2.4 as a function of line diameter and operating pressure. The figure shows that, for pipelines operating at pressure levels in the range of 600 to 1,200 psi, the calculated hazard area radius ranges from under 100 ft for small diameter lines to over 1,100 ft for large diameter lines.

Note that the concept of relating the potential hazard area to the line diameter and operatingpressure is not new. An approach similar to that described herein has been an integral part of the high pressure gas transmission pipeline code in the United Kingdom since 1977 (Knowles *et al.* 1978 and IGE 1993). The standard as developed in the United Kingdom incorporates the concept of a Building Proximity Distance (BPD), multiples of which serve to define determining Location Class. The BPD is calculated directly from the line diameter and the maximum operating pressure.

### CO22 – Coalition to Reroute Nexus (cont'd)



### CO22 – Coalition to Reroute Nexus (cont'd)

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#### 3. MODEL VALIDATION

Pipeline incident reports, located in the public domain, were reviewed to provide a basis for evaluating the validity the proposed hazard area model given by Equation [2.8]. The data sources reviewed included reports on pipeline incidents in the United States prepared by the National Transportation Safety Board (NTSB) going back to 1970, and similar reports on incidents in Canada prepared by the Transportation Safety Board (TSB) going back to 1994. Note that the information extracted from these reports required some interpretation due to differences in the way the information was reported. The processed data together with hazard area estimates obtained using Equation [2.8] are summarized in Figure 3.1. A summary of the information that forms the basis for Figure 3.1 is given in Table 3.1.

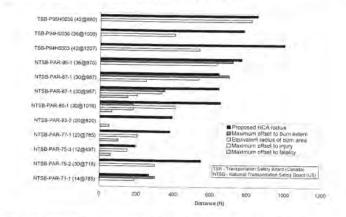


Figure 3.1 Comparison between actual incident outcomes and the proposed hazard area model.

In interpreting the incident outcomes summarized in Figure 3.1 note the following:

- the equivalent radius of burn area is the radius of a circle having an area equal to the reported area of burnt ground;
- the maximum affset to hurn extent is the maximum reported of inferred lateral extent of burnt ground measured perpendicular to a line tracing the alignment of the pipeline prior to failure; and
- the maximum offset to injury/fatality is the maximum reported or inferred distance to an
  injury/fatality again measured perpendicular to a line tracing the alignment of the pipeline
  prior to failure.

#### CO22 – Coalition to Reroute Nexus (cont'd)

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Figure 3.1 shows that in every case the hazard area calculated using the proposed equation is greater than the actual reported area of burnt ground. In addition, with the sole exception of one of the incidents reported in NTSB-PAR-87-1, the radius obtained from the hazard area equation conservatively approximates the maximum lateral extent of the burn zone. Finally, in all cases the calculated hazard zone radius significantly exceeds the maximum reported offset distance to injury or fatality.

Note, however, that whereas the interpretation of reported burn areas and burn distances is obvious, caution should be exercised in interpreting maximum offset distances to injury and fatality. Given that most of the incidents occurred in sparsely populated areas, the reported injury and fatality offsets are more indicative of where people happened to be at the time of failure rather than being representative of the maximum possible distances to injury or fatality for the incident in question.

Acknowledging the uncertainty associated with interpreting reported offsets to injury and fatality, the balance of information still overwhelmingly indicates that the proposed hazard area radius equation provides a reasonable, if somewhat conservative, estimate of the zone of high consequence.

It is thought that one of the main reasons for the apparent conservatism in the proposed hazard area model is that it is based on an effective sustained release rate that is consistent with the assumption of almost immediate ignition. The actual time to ignition for many of the reported incidents is probably longer (see incident notes in Table 3.1) making the effective release rate approximation conservative.

### CO22 – Coalition to Reroute Nexus (cont'd)

20160825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 PM Date Report Location Incident Damage Maximum Burn Diameter Pressur Distance [in] (psi) 14 789 NTSB-PAR-71-1 1989 Rupture at 3:40 p.m. on Eurned area 370 ft iong by 300 ptember 9tn. wide (Wi to price side) Houses explosive ignition 8 to 10 destroyed by blast to 250 ft, near minutes after failure damage to 300 H, 106 homes maged, 9 injuries, and 0 Natalities Burned area 700 ft by 400 ft 1974 NTSB-PAR-75-2 near Bearton Virgi 30 718 1974 NTSB-PAR-75-3 near Farmington Rupture at 3.45 s.m. on Earth charred within a 300 ft March 15th, ignition soon diameter orde, 3 fatal injunes 1275 497 lining after falue. (within 60 ft offset) Rupture at 1.05 p m on August 8th, ignited within radius circle), 5 /atalities (within 1976 NTSB-PAR-77-1 Conweight Louisiana 20 stoul 100 ft offset) and 1 injury 5 follollies (within 150 ft, less that ginda 1992 NTSB-PAR-83-2 Hudson, jown 20 820 50 ft offset) Burned seta 1450 (t long by 360 ft wide (furthest fice extent 950 ft); s facilities (within 55 ft, 0 ft offset). 1984 NTSB-PAR-88neur Jackson Rupture at 1:00 p.m. en November 25th lightion soon after failure. 1015 ffset 180 f .50 usiana Distance 950 in and 23 injunes (within 600 ft.180) 1985 MTSB-PAR-87-1 Mear Beaumont Ruplure at 9 10 p.m. on E ment ains 500 ft wide by 700 ft Offset 350 ft nijicky. April 27th, ignition scion long 2 houses 3 house training and numerous other structures and equipment destroyed 5 fatalities ance 500 tr after failure due to smoke inhalation in house 318 ft from rupture (150 ft offsot). people burned running from hour 320 ft from rupliave (200 f) of(set) one hospitalized with 2nd degree Uns. 1985 NTSB-PAR-67-1 Buthed area 800 H by 1000 H 2 houlies, 1 house Irailer and hume/our other shuctures and near Lancaste Rupture at 2.05 a m. on Offnot 700 R .to eniacky February 21st, ignition lloon after failure stance 800 fr equipment destroyed 3 people burned running from house 280 to from rupture (requiring hospitalization), 5 others receive minor burn injulies (unning fram wellings between 200 and 525 ( tom rupture (250 ft off/set) Surred area 1400 ft long by 500 ft Offset 720 ft 1994 NTSB-PAR-95-1 Edision, New Jersey Rupture at night on March 22/d, Ignition 36 wide. Fire damage to dwelling units by up to 900 th from rupkine, dwelling units by 000 th from rupkine, dwelling units at 500 ft and beyond caught fire between 7 to 10 minutes after 1089.937 within 1 to 2 minutes after failure failure, no fatalitias tiut 58 injuries. Fire burn area 21.0 acres (3.5 1994 TSB Report No. Maple Creek. Rupture at 7.40 p.m. an February 14th Ignation 42 1207 terminal sector of the se P94H0003 TSB Report No. Latch/ord Ontaria 1294 94H0036 TSB Report No apid City, Manitoba 850 95H0035 ignition soon after failure leading to rupture and fire on adjacent 36 each ne at 5:34 a.m.

Table 3.1 Summary of relevant North American pipeline failure incident reports.

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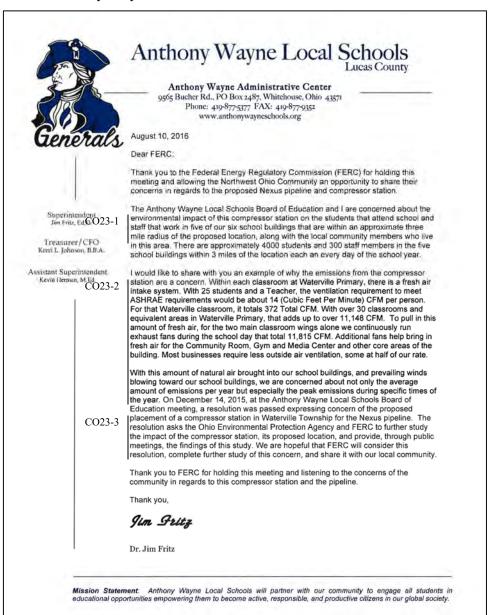
**Companies/Organizations Comments** 

### CO22 – Coalition to Reroute Nexus (cont'd)

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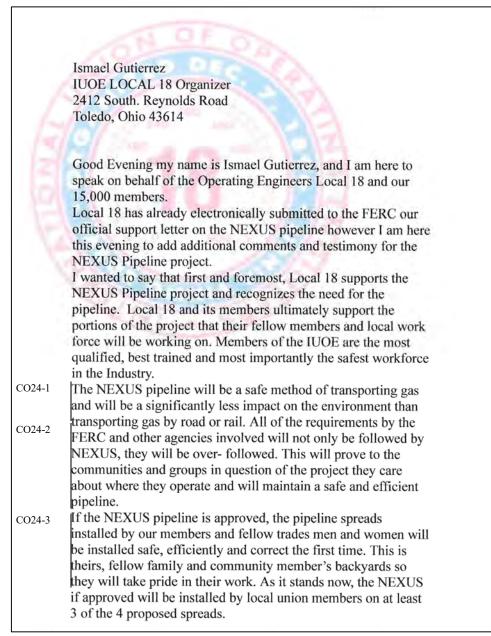
20150825-5127 FERC PDF (Unofficial) 8/25/2016 2:50:57 FM 4. REFERENCES API 1990. Guide for Pressure-Relieving and Depressuring Systems. American Petroleum Institute, Recommended Practice 521, Third Edition, November. Bilo, M. and Kinsman, P.R. 1997. Thermal Radiation Criteria Used in Pipeline Risk Assessment. Pipes & Pipelines International, November-December, pp. 17-25. Crane Co. 1981. Flow of Fluids through Valves, Fittings and Pipe, Metric Edition - SI Units. Technical Paper No. 410M, Crane, NY, USA. Eisenberg, N.A., Lynch, C.J. and Breeding, R.J. 1975. Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills. Environmental Control, Report CG-D-136-75, Rockville, MD, USA. Hill, R.T. and Catmur, J.R. 1995. Risks from Hazardous Pipelines in the United Kingdom. Health and Safety Executive Contract Research Report No. 82/1994. Hymes, I. 1983. The Physiological and Pathological Effects of Thermal Radiation. Systems Reliability Directorate, Report SRD, R275, Culcheth, Warrington, UK. IGE 1993. Steel Pipelines for High Pressure Gas Transmission. Recommendations on Transmission and Distribution Practice IGE/TD/1 Edition 3 (Communication 1530), The Institution of Gas Engineers, London, UK. Knowles, A.E., Tweedle, F. and van per Post, J.L. 1978. The Background and Implications of IGE/TD/1 Edition 2. Gas Engineering and Management, July, p. 247. Lees, F.P. 1996. Loss Prevention in the Process Industries: Hazard Identification, Assessment and Control. Second Edition, Vol. 2, Butterworth-Heinemann, A division of Reed Educational and Professional Publishing Ltd., Oxford, UK. Technica 1988. Techniques for Assessing Industrial Hazards: A Manual, World Bank Technical Paper Number 55. The International Bank for Reconstruction and Development, The World Bank, Washington, DC, USA. TNO 1982. Safety Study on the Transportation of Natural Gas and LPG by Underground Pipeline in the Netherlands. Netherlands Organization for Applied Scientific Research. Ref. No. 82-04180, File No. 8727-50960, translation of a report by the Division of Technology for Society, commissioned by The Minister of Public Health and Environmental Hygiene, The Netherlands,

### CO23 – Anthony Wayne Local Schools



- CO23-1 The EIS addresses the various impacts of constructing and operating the Waterville Compressor Station on the natural and human environment.
- CO23-2 In section 4.12.1.3, conservative AERSCREEN modeling results demonstrate that local air emissions associated with the Waterville Compressor Station would not cause or contribute to an exceedance of the NAAQS, which were established to protect human health, including sensitive populations such as children, the elderly, and those with chronic respiratory problems. NAAQS averaging periods (which vary based on the pollutant and include short-term and long-term exposures) were appropriately used to determine localized impacts.
- CO23-3 This EIS provides FERC's environmental findings and conclusions on the location and impacts of the NGT Project, including the Waterville Compressor Station.

### CO24 –IUOE Local 18



CO24-1	Comment noted.
CO24-2	Comment noted.
CO24-3	Comment noted.

### CO24 –IUOE Local 18 (cont'd)

CO24-4	The only concerns Local 18 has on the project are the portions to be installed by contractors who utilize someone other than an Operating Engineer or fellow trades men and women on the project. The beginning pipeline spread is scheduled to be installed by MG Dyess from Bassfield, Mississippi. MG Dyess will utilize a workforce that is 100 % out of state and has no ties to Ohio at all. Local 18 does not support this decision by NEXUS and questions whether or not they are qualified to be involved with the NEXUS project.
	Although we are not happy with the overall contractor selection,
	we support the NEXUS pipeline. Please join Local 18 in supporting the NEXUS Pipeline and approve the project.

CO24-4 Comment noted.

**Companies/Organizations Comments** 

CO25 – Teamsters Local Unions 20, 92, 299, and 348

CO25-1 Comment noted. Comments by the Teamsters before the Federal Energy Regulatory Commission (FERC) in SUPPORT of the Nexus **Pipeline** Project On behalf of Teamsters Local Unions 20 (Toledo, Ohio), 92 (Canton, Ohio), 299 (Detroit, Michigan) and 348 (Akron, Ohio) and the Teamsters National Pipeline Labor Management Cooperation Trust (LMCT) we want to affirm our support for the issuance of permits for the watercourse, floodway or body of water, including wetlands and other related work on the Nexus Pipeline Project. The Teamsters Local Unions and the LMCT are committed to CO25-1 building this project with well-trained and qualified Teamster workers most of whom reside along the route of the Nexus Project and/or other pipeline projects in Michigan and Ohio. Therefore, they have a vested interest in building this project in an environmentally safe manner since their own families could be affected by this project. The collective bargaining agreement between the Teamsters and Pipeline Contractors Association (PLCA) states: "The words "regular employee" shall mean those who are regularly and customarily employed by the Individual Employer and because of their special knowledge and experience in pipeline construction work, are considered key men. It is anticipated that the number of regular employees shall not be more than a majority of the total number required but there shall be no limitation on the classification of such regular employees, with the understanding that these

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

		СС
	classifications will be distributed as evenly as possible." (See Exhibit A)	CC CC
	When a pipeline project is built using union labor, the majority of pipeline construction workers are from the local community. These workers care about getting the job done right, because they live here too.	
CO25-2	In Michigan and Ohio our local unions supply more local labor than the 50% specified in the collective bargaining agreement.	
	On our projects we receive Steward Reports listing information on the Teamster workers including home local union. I have supplied 2 of our Steward Reports one dated July 16, 2016 with Associated showing 3 out of 3 Teamsters were from Ohio and one with Price Gregory showing 27 out of 41 Teamsters from Local Unions with pipeline jurisdiction in Ohio. We will gladly supply more Steward Reports upon request. (See Exhibit B)	
CO25-3	Our Michigan and Ohio Teamsters have within the past year participated in skills training. A list is supplied showing type of equipment and location of the training conducted in Michigan and Ohio. (See Exhibit C)	
CO25-4	The Teamsters have contractors who specialize in Horizontal Directional Drilling (HDD) type of work.	
	HDD is used for the installation of pipelines beneath rivers, highways, and other environmentally sensitive areas requiring technology and equipment that can install pipelines without any disturbance to natural habitats.	

025-2	Comment noted.
025-3	Comment noted.
025-4	Comment noted.

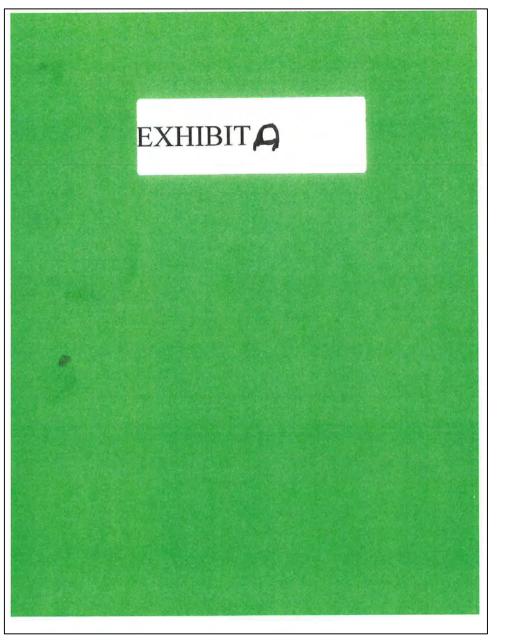
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

		CO25-5
CO25-4 (cont'd)	A list of our signatory contractors and a more detailed explanation of the work they perform in areas of great environmental concern is included in this submission. (See Exhibit D)	
CO25-5	Prior to the Nexus Pipeline Project beginning we will schedule Classroom Training Courses on the latest U.S. Department of Transportation (DOT) regulations named Compliance, Safety and Accountability (CSA) and Defensive Driving.	
	The Teamsters CSA/Defensive Driving Instructor has been cited as a "Trend Setter by the "National Safety Council" an Award he has received by them in the past. (See Exhibit E)	
	In summary, we have contractors who specialize and are experienced in this type of work and use mostly local Teamster workers who have had pipeline-specific skill training and classroom instruction and courses.	
	Therefore, we urge you to issue the permits for the Nexus Pipeline Project.	
180		
(81)		

CO25-5 Comment noted.



CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

additional pre-job conference will be required if hours of work or work conditions are changed.

No representative of any individual Employer and no representative of the Union or any of its local unions shall demand at the pre-job conference or at any other time during the continuance of the job any term or condition not covered by this Agreement. A copy of the report made of each pre-job conference shall be furnished to the Pipe Line Contractors Association and to the International Brotherhood of Teamsters, and no agreement made at any pre-job conference which adds to or modifies in any way the terms and conditions of this Agreement shall be binding on any individual Employer or the Union, or any of its local unions, unless approved and ratified by the PLCA and the International Brotherhood of Teamsters.

In the event that the Union and the Employer are unable to mutually agree upon layoff procedure at the pre-job conference, the matter will be referred to the Director, Construction Division, International Brotherhood of Teamsters, and the Managing Director, PLCA, for decision along previously established guidelines.

(E) If any individual Employer pays any wages in excess of the wages negotiated in this Agreement in the form of extra money, extra hours, extra travel or stand-by-time, or in the form of a bonus by any subterfuge, and if the PLCA and the International Brotherhood of Teamsters shall jointly determine that such bonus is for the purpose of pirating men from other individual Employers, or results in conditions injurious to the pipeline industry, then such individual Employer shall be required to pay the same extra compensation to all employees classified as Group 1 or Group 2 in this Agreement, and a proportionate additional compensation to all employees classified as Group 3 in this Agreement, and such requirement shall continue until that particular job is completed. It is understood and agreed, however, that any profit-sharing, retirement, or pension plan which an individual Employer may have in effect which has not been set up for that particular job shall not be considered a bonus.

(F) Upon request of the local union having jurisdiction of the job, and upon presentation of proper authorization forms executed by the individual employees, the individual Employer agrees to deduct from the wages of such individual employees Union initiation fees and dues and shall pay over to such local unions the amount so deducted.

(G) The Union agrees to send a copy of this Agreement to each and every one of its locals having jurisdiction over any area in which Employer becomes obligated to construct a pipe line, and agrees that the terms of this Agreement shall be recognized by such local, so that industrial peace will not be disturbed and so that the Employees may perform Employer's work efficiently and continuously. The Employer agrees as well to furnish its supervisory personnel copies of this Agreement so that they may be familiar with the terms.

(H) Employer shall have the right to hire the first driver, the second employee hired shall be the steward. Employer shall have the right to employ, direct and bring into the job men who are regular employees in Employer's work and shall have the right to keep such men in his employ on all work throughout the territory covered by this Agreement.

(1) The words "regular employee" shall mean those who are regularly and customarily employed by the individual Employer and because of their special knowledge and experience in

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

pipeline construction work, are considered key men. It is anticipated that the number of regular employees shall not be more than a majority of the total number required but there shall be no limitation on the classification of such regular employees, with the understanding that these classifications will be distributed as evenly as possible.

(J) It is understood and agreed that the above limitations shall not apply to the pipeline stringing operations.

(K) The hiring of men in addition to the Employer's regular employees, either at the start of the job or later, shall be conducted in the following manner:

I. In the event a valid non-discriminatory exclusive referral procedure has been established by collective barganing between a local of the Union and an association of highway and heavy contractors in the area in which the job is to be done, Union shall notify the Association from time to time as to the existence of such exclusive referral procedures and Employer agrees to utilize such referral procedures upon the following conditions:

a. Nothing in this Agreement shall affect the Employer's inherent right to determine the competence and qualifications of applicants for employment or of his employees and his right to reject or discharge accordingly.

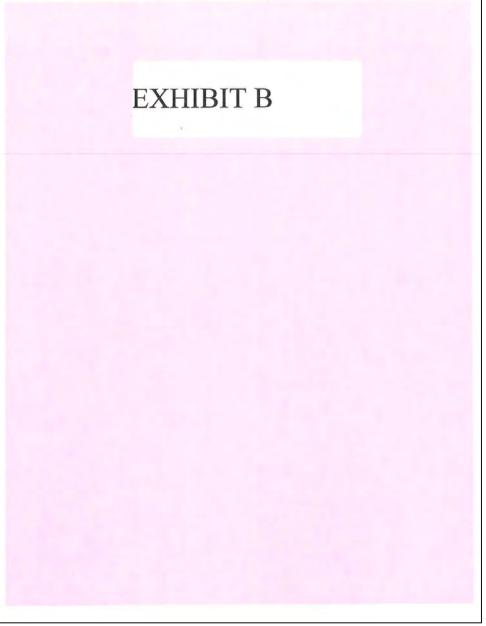
b. The selection of applicants for referral to jobs shall be based on a nondiscriminatory basis and shall not be based on or in any way affected by union membership, by-laws, regulations, constitutional provisions, or any other aspect or obligation of union membership, policy or requirement.

c. Workmen referred under Article II to the contractor's job who are not able to perform the job to which they are referred because of their own lack of qualifications, or for some other reason which is the workman's own responsibility, shall not be paid showup time.

d. Qualified applicants required by Employer at the start of the job must be referred by a local referral office within 48 hours of the receipt of Employer's request; those required by Employer after a job has started must be referred by a local referral office within 24 hours of the receipt of Employer's request. If the local referral office fails to comply with this condition, Employer may secure qualified applicants from any other source. Qualified applicants under this section must have the following:

- (i) Proper federal and state licenses;
- (ii) Proper OQ credentials where necessary;
- (iii) Pipeline or general construction work experience relevant to pipeline work or completion of a certified pipeline training course operated or approved by the Teamsters Pipeline Training Fund. The Teamsters and PLCA also agree they will jointly review the training program on a 6-month basis.
- (iv) Compliance with company Employee and safety policy standards. These

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



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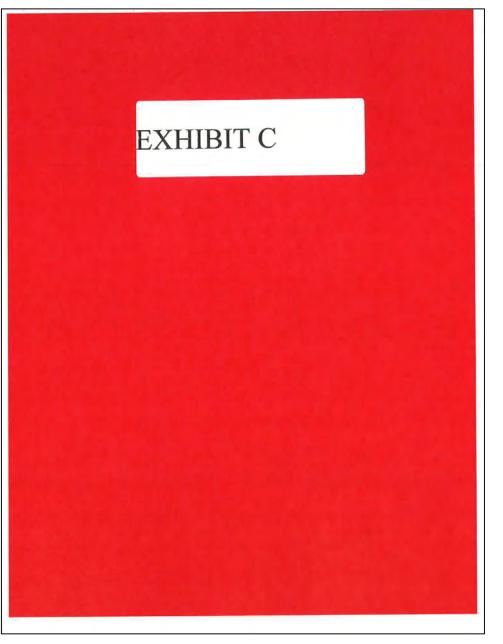
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**R-306** 

# **COMPANIES/ORGANIZATIONS COMMENTS**

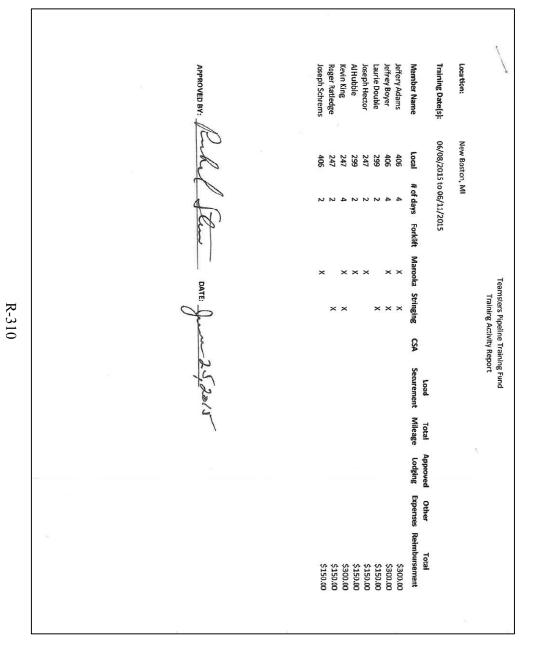
	377	FORKLIFT	Y	330-540-6250	WUNDROW, JAMES R
	1	1 TON/ENVIRONMENTAL		740-607-8321	WOFTER, JAMES L
	8	FLOAT		330-318-2307	VARGAS, ELVIN
	26	BUSPIPE GANG		740-219-1432	STOCK, JOSHUA C
	270	SKID TRUCK	Y	318-469-9017	SOWLS, CHARLES E
	. 637	FLOAT		740-868-6015	SHAW, THOMAS E II
	26	FLOAT		740-232-5095	SEDITZ, DAYNE K
	637	FORKLIFT		870-224-3790	SCOGINS, NATHAN H
	284	1 TON/ROAD BORE	Y	231-629-2322	RUSHMORE, KIM E
	697	SWAMPER FUEL TRUCK	Y	678-756-1756	PATRICK, HEATHER N
1	697	FUEL TRUCK	Y	706-207-4889	PATRICK, JAMES A
	637	ESCORT		740-624-0362	O NEILL, CLAYTON A
	697	SKID TRUCK	Y	740-310-7397	NUSPERLY, STEVEN E
10	637	1 TON/ TIE-IN		740-617-6671	MORRISON, SCOTT A
	222	FOAM TRUCK	Y	318-614-4868	MORGAN, SMILEY L
	637	MAROOKA/BUS COATING		740-819-2519	MOORE, ROBERT E
1	110	PARTS RUNNER	Y	859-585-0587	MANLEY, SUZANNE K
	455	FLOAT,	Y	870-754-9814	MALLETT, BENNE R
	697	ESCORT	Y	740-577-8519	LUNDIN, LORI L
	553	WATER TRUCK	Y	702-858-0486	KOICH, TERRI L
	516	STEWARD	Y	918-285-6269	KENNEDY, SPINE

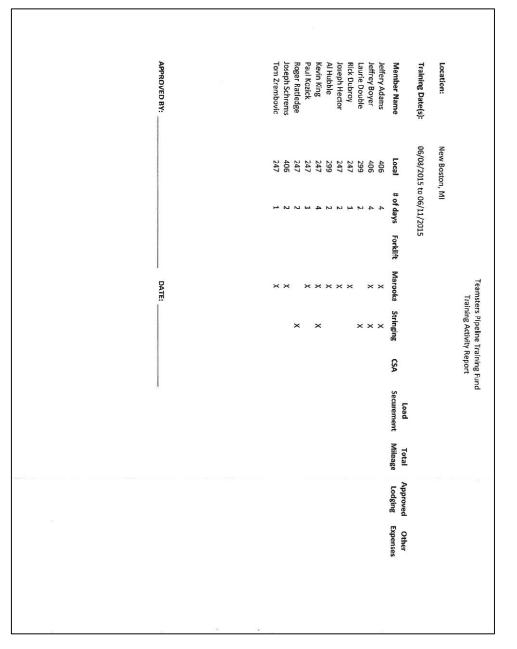


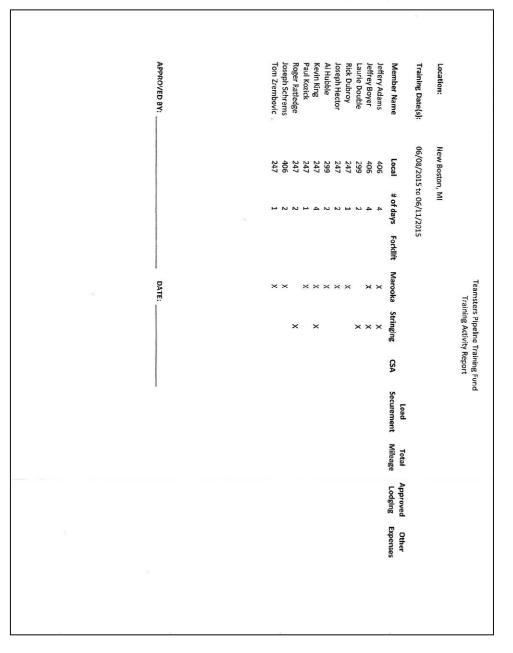
CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

R-309

, in a	APPROVED BY: Lachal	Hanning, David 299 Mc Danlel, Rodney 637 Whitehead, Mark 299	Training Date(s): 02-29-16 Member Name Local	Location: Indep	
	Si Detroit m	ω ω ω ω × × ×	to 03-02-16 # of days Forklift Marooka Stringing CSA	Independence, Ohio	Teamsters Pipeline Training Fund Training Activity Report
			Load Total Approved Other Securement MHeage Lordging Expenses		







CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

APPROVED BY:	Location: Training Date(s): Member Name Johnson, Sharon Marshall, Steven Payne, Terrence	÷
APPROVER BY: Dellarand Allan	Independence, Ohio 02-29-16 to 03-02-16 Local # of da 657 3 92 3 957 3	
	5	Т
DATE: Mary & 720/	Forklift Marooka Stringing × × ×	Teamsters Pipeline Training Fund Training Activity Report
10 <u>201</u>	CSA Securement	ning Fund port
	Total Mileage	
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R-313

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

*	APPROVED BY:	Location: Training Date(s): Member Name Cote, Adam McDermott, David Milligan, Barbara Robinson, Robert Smith, Chester Valentine, John	
	Er bard (Deen	Independence, Ohic 02-25-16 to 02-27-16 Local # of days For 436 3 637 3 637 3 637 3 637 3 637 3	a
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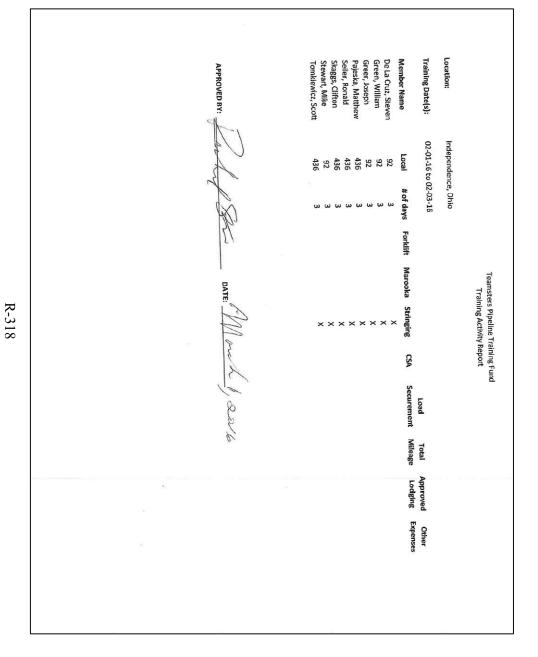
R-314

APPROVED BY: Rachel Ste	Location: Training Date(s): Member Name Callahan, Doug Michaelis, Chad O'Reilly, Louis	
uchel	Independence, Ohio 02-22-16 to 02-24-16 Local # of day 957 3 957 3 957 3 957 3	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

APPROVED BY	Wundrow, James Zugay, Alan	Torella, John	Smailey, Ralph	Marinelli, Rozzie	Lenz, Marc	Johnson, Jr., Carl	Anderson, Antitutivity Horner, John	Member Name	Training Date(s):	Location:	
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APPROVED BY:	Location: Training Date(s): Member Name Brake, Ronald Carter, Thomas Lipps, Loren	
er be	Independence, Ohio 02-15-16 to 02-17-16 Local #of day 92 3 92 3 92 3 92 3	e)
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لا '	Forklift	
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	Other Expenses	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

Member Name Hanning, David Mc Daniel, Rodney Whitehead, Mark Location: Training Date(s): APPROVED BY: 02-29-16 to 03-02-16 Independence, Ohio Local 299 637 299 # of days ωωω Fortelift Marooka Teamsters Pipeline Training Fund Training Activity Report DATE: Stringing  $\times \times \times$ CSA 20/6 Load Securement Total Mileage Apparoved Other Expenses

R-319

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

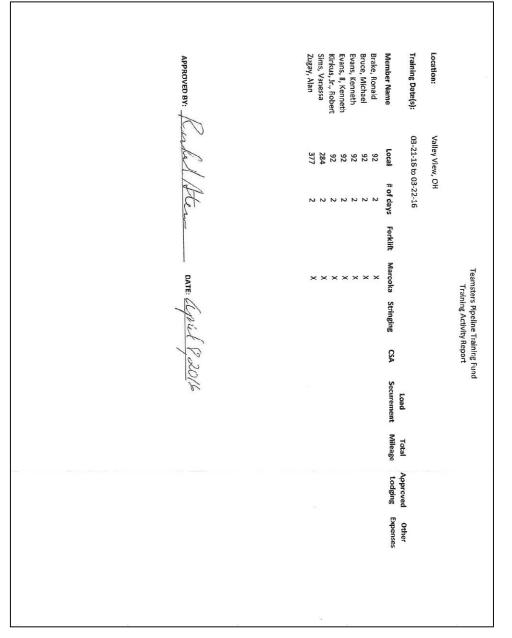
APPROVED BY:	Location: Training Date(s): Member Name Davidson, Richard Morrison, Scott Smith, Chester Valentine, Belinda Valentine, John	
terke (	Valley View OH 03-30-16 to 03-31-16 697 2 637 2 637 2 637 2 637 2 637 2 637 2 637 2	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

APPROVED BY: Deckard Dec	Kelley, Randall McHugh, Merle Payne, Terrence	Training Date(s): Member Name	Location:	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

Approved BV:	Member Name Johnson, Jr., Carl	Location: Training Date(s):	
luk	Local # o 92	Valley View, OH 03-23-16 to 03-24-16	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

APPROVED BY: Licher Stern	Location: Training Date(s): Member Name Cowdery, Tabitha Thomas, Charles	
Juckey	Independence, Ohio 03-18-16 to 03-19-16 Local # of day 637 2 436 2	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

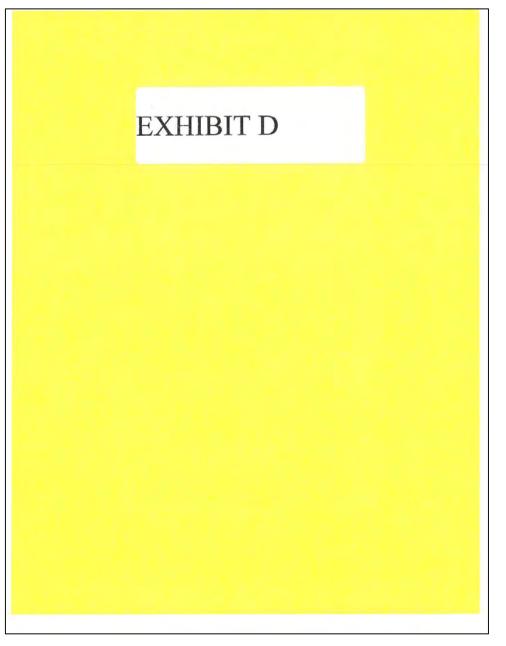
APPROVED BY:	Cote, Adam Dean, Esau Houck, Helen Pajestka, Matt Skaggs, Clifton Stubbs, Douglas	Location: Training Date(s): Member Name	
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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

Approved by: Decklored	Lagan, Scott Marolt, Norman Piunno, Michael Seiler, Ron	Training Date(s): Member Name	Location:
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		Other Expenses	

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#### CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



#### HORIZONTAL DIRECTIONAL DRILLING

SINCE 1971, OPTER MARTIN LHERRINGTEN SUCCESSFULLY DRUGED THE FIRST WRITTING FOR THE INDUSTRY HAS BEEN MOVING FORWARD.

Directional Drilling has seemed to be the most preferred method for pipeline construction as of late. The reason being that Directional Drilling can be installed without any disturbance to natural habitats.

Directional Drilling has the least environmental impact of any method of construction. By Directional Drilling you are able to be a great deal of depth below the obstacle, providing minimal maintenance cost and up keeping maximum protection. In some cases, Directional Drilling can cost a lot less then most other construction methods and procedures.

# **STEP 1 - PILOT HOLE**

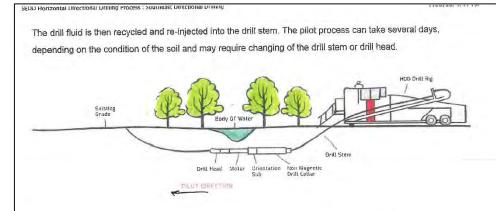
The pilot hole is the beginning of the Directional Drill crossing. The Pilot hole is achieved either by excavation by jetting or by a down hole motor. Depending on the condition of the soil the pilot is drilled along a predetermined alignment in which the path is selected by traditional methods.

The typical pilot hole on most large rigs is 9 7/8 but can vary depending on the soll conditions and rig size. Drilling fluid is pumped through the drill pipe to the drill head at which time it is jetted through or pumped through a drill motor. The end of the Drill Pipe is to core the pilot hole. The drill fluid lubricates the drill stem and carries out the cutting to the surface.

http://www.southeastdrilling.com/drilling/

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#### CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



# **STEP 2 – REAMING PROCESS**

Once the pilot hole has been completed the 2nd step takes place with a reamer, or hole opener. The hole openers come in different shapes and sizes and vary depending on the soil conditions and density of the soil; typically a fly cutter is used in good ground conditions.

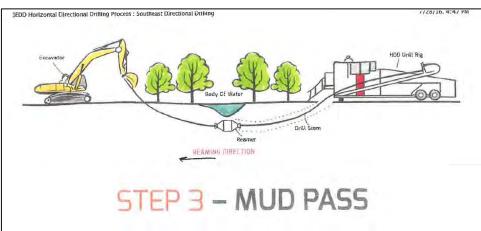
The reaming pass is done in several steps depending on the size of the hole, (example: 42" finish hole would be 3 to 5 different ream passes 14", 20", 34", 42"). The reamer is attached to the drill string and is rotated and pushed or pulled while rotating and drill fluid is pumped to the reamer through the drill pipe. The excavated soil is suspended in the drill fluid and then brought to the surface and recycled.

When the reamer is attached to the Drill string there will always be a drill pipe on both sides of the reamer allowing for the drill string to be in the hole at all times. The reaming process can take a significant amount of time depending on the condition of the soil.

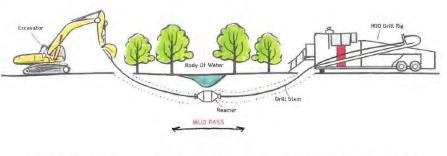
http://www.southeastdrilling.com/drilling/

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#### CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



After the desired hole has been achieved and the reamer has passed through it completely, a mud pass or packer reamer will be done to assure that the hole is clean of all excavated material and that the drill fluid has filled the hole completely, to allow for a smooth lubricated pull back of the pipe, avoiding friction of the pull section.



# **STEP 4 – PULLBACK PROCESS**

The final step now is when the pipe is pulled into the rearned hole. A weld cap is installed on the pipe where a swivel is placed attaching the drill string, thus not allowing any rotation of the pipeline. Depending on the size of the pipe an artificial buoyancy measure might be taken. This is to keep the pipeline as close to neutral

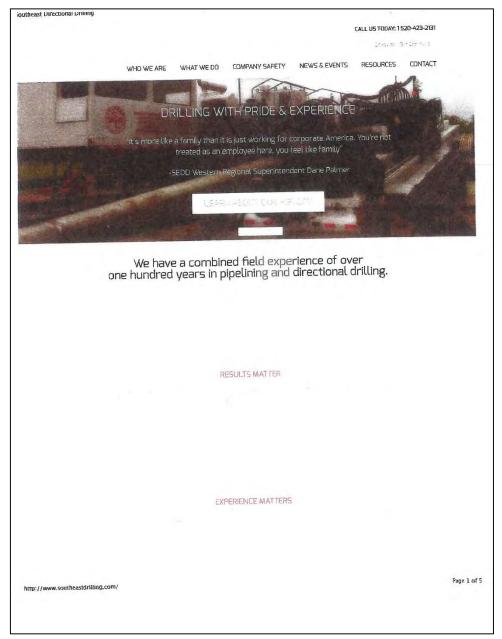
http://www.southeastdrilling.com/drilling/

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#### CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

buoyancy. If no measures are taken several problems may occur (example: coating damage from pipe floating in drill fluid and causing excess friction causing more pull). Most typically buoyancy control is done with pumping water into the pipeline through P.V.C. pipe and checking the gallons pumped. At completion of directional drill, demobilization and clean-up takes place. We will be happy to provide you a drilling quote / proposal on any HDD project. Feel free to contact our sales team at any time at 520-423-2131 to request a quote. Here is the following information needed to properly provide a quote: Name of Crossing Length Size Location . How Many Crossings Start Date · Bid Due Date Are You the Owner/Engineer/General Contractor? Do You Have Any Plans or Specs? Do You Have Core Samples? Side Boom Tractor )====X \ \ \ Drill Stem Product Pipe Pull Head Swivel Reamer PULLBACK DIRECTION Page 4 of 6 http://www.southeastdrilling.com/drilling/

R-331



treast Directional Driving	
WITEBRITY MATTERE	
and the second	
Contact Us Today: 1 (520) 423-2131	
We are pleased to introduce Southeast Directional Drilling, LLC.	
Southeast consists of a key group of highly trained and experienced personnel. Our executive management team includes Steve Ugrich, Todd Barton, Charley Patterson, John Heiele, Josh Ugrich and Kyle Pailinen.	
Ugindh, rough berrout, brieffey Facebook, boarn room and a grant for the provided in the set, you need Southeast Directional Drilling.	
However, what is if that makes Southeast the ideal choice for your company? Experience and quality. These fundamental building	
Howere, while so such that has made up Southeast Directional Drilling since its inception in 2002. As far as our blocks for success are only some of what has made up Southeast Directional Drilling since its inception in 2002. As far as our expenses goes, Southeast has a combined field expariance of ovar one hundred years in pipelining and directional drilling combined	
while sum several bundled quality miles of HDD's, of which 35 miles were 42° HDD crossings. These years of experience include	
swatch bundred completed hores including one that was a record length of 6,380 feet, and another project which was the deepest	
several induced compared both managed in a set of the set of 800 feet. These two projects samed Southeast the highest respect in the directional drill river crossing in North America at a depth of 800 feet. These two projects samed Southeast the highest respect in the drilling industry. From our most recent projects, we set another world record in Trinidad by executing three 56 inch HDD crossings.	
chang maashy, man aa naak taank paysiin, na a	
	×
C Directional Drilling's Floot	
Southeast Directional Drilling's Fleet	
Southeast's fleet includes 15 rigs ranging from 80,000 lbs to 1,400,000 lbs. In addition to having the proper instruments, we also have all of the	
required support, safety equipment, dual mud systema, semi-trucks, pick-up trucks, environmental supplies, down hole tools, reamers, tensor	
steering toots, and navigational equipment.	
	Page 2 of 5
ttp://www.southeastdrilling.com/	1496 2 01 3

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



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CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



R-335

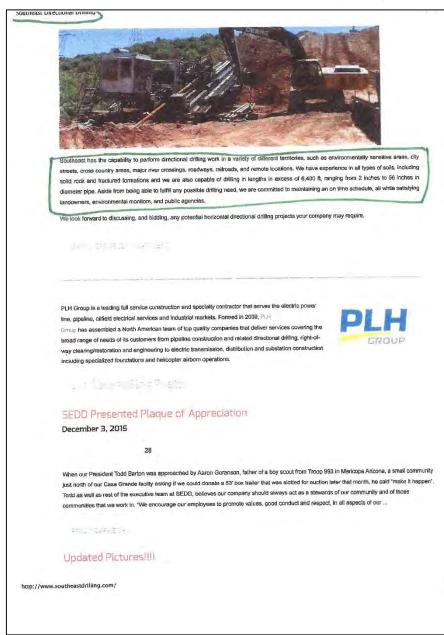
CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

aney Directional Drilling -Horizontal Directional Drilling Horizontal Directional Drilling (HOD) is a trenchless method of installing pipelines and conduits in the areas where traditional open cut excavations are not feasible and/or not desired for environmental and/or constructibility reasons. It is commonly used for the installation of pipelines beneath rivers, highways railroads and other environmentally sensitive areas, or areas where the topography or site conditions along a proposed alignment conflicts with conventional cui and cover installation practices. During the HDD process, a pilot hole is first drilled along a predetermined path. The pilot hole is then enlarged in single or multiple steps (reaming passes) to accommodate the pullback of the carrier pipe into the enlarged hole. We are presently operating HDD rigs capable of completing projects both large and small with pipe sizes up to 60 inches in diameter and HDD lengths over 15,000 ft. Large Rigs: large rigs with pullback of 180K to 1.7M. 4 to 60-in. In diameter up to 15,000 ft. Soft soil to hard rock with ten to twelve people per crew. Small Rigs: small rigs with pullback 100K or less. Vermeer D100x140 with small utility and midstream focus. Soft soil to hard rock with four to six people per crew. Our Vermeer rigs are also used for completion of road boring. 2 Small Rig Large Rig Page 1 of 2 http://www.laneydrilling.com/HDD

R-336

**Companies/Organizations Comments** 

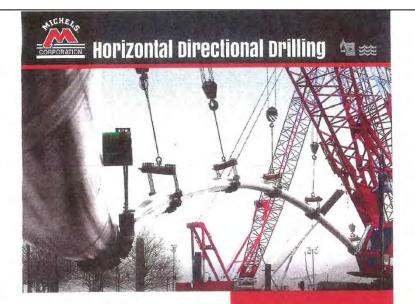
CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



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R-337

CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)



Michels Corporation | 817 West Main Street, PO Box 128 Brownsville, WI | 920.583.3132 | www.mi

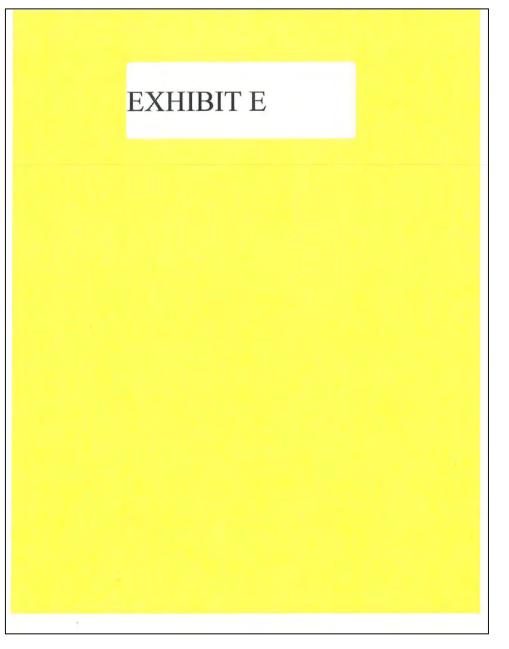
#### Michels® Leads the Way in HDD

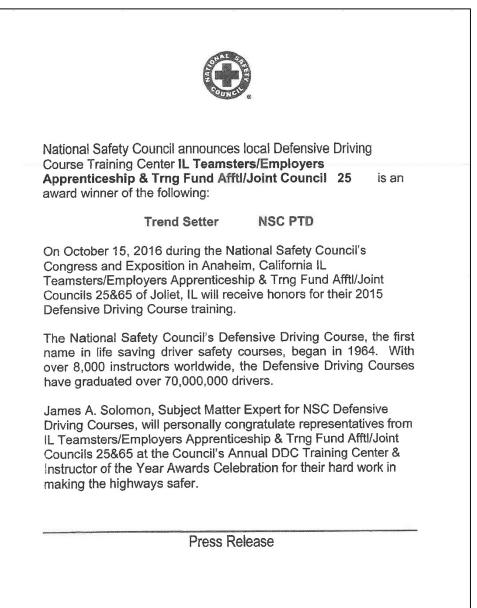
Michels® Corporation is regarded as the North American leader in Horizontal Directional Drilling (HDD), and we are determined to stay on top. Our record-setting drills are supported by an unrivaled fleet of 84 drilling rigs of all sizes, including the largest fleet of 1.2 million pound thrust/pull force capacity rigs in the world.

Michels has successfully completed HDD crossings in all 50 states, Canada, along the U.S.-Canada and U.S.-Mexico borders, and internationally. Our highly respected HDD staff includes some of the most knowledgeable, talented, and experienced leaders in the industry. They work together to set industry records, develop new methods, and design and fabricate equipment to expand the possibilities for using HDD in increasingly challenging situations.

- Largest fleet of 1.2 million pound thrust pull force capacity rigs in the world
- Completed crossing spans greater than 15,000 feet in single pull, capable of installing pipe uo to 60 inches in diameter
- Trenchless technology protects natural resources such as wetlands by drilling beneath them
- Land-to-water and water-to-water crossings, impervious to shoreline erosion ice movement, dredging, anchors and watercraft

We do lhat.





CO25 – Teamsters Local Unions 20, 92, 299, and 348 (cont'd)

		COUNCIL 6
June 8, 2016		
990 NE Frontage Rd	s Apprenticeship &	Trng Fund AffN/Joint Councils 25
Ste 4 Joliet, IL 60431		Customer Number: 699382
Dear Michael Borjas,		
		that your organization has been chosen as a DDC Awar ts in 2015. The award(s) being presented to your organizatio
	<u>Award</u> Trend Setter	Curriculum NSC PTD
Exposition in Anaheim,	CA. We invite you I	nize your training center at the 2016 NSC Congress and to be our guest at the Annual DDC Training Center & Instructo on Saturday evening, October 15 <sup>th</sup> , 2016.
www.nsc.org/2016DDC spelling of your organiza attend, please be sure t	<u>awards</u> . We will ne ation's name and he o go online to pre-r	ny, please pre-register your organization for the event online al ed your organization's customer number as well as the proper ow it should appear on the award (s). If you are unable to register, indicating you cannot attend, and providing shipping te your prompt response no later than end of day, June 24
		s, please give our office a call at 800-621-7619 ext. 52041. A al registration instructions.
and an awards definition	on page. Also end ve regarding the a	uccess to your community; we have enclosed a press releas closed is a FAQ sheet that will help to answer any remainin awards celebration. We congratulate you and look forward to
Sincerely,		
James a. S. la	mon	

#### **Companies/Organizations Comments**

#### CO26 – Homerville KOA Campground

Homerville KOA Campground 11450 Crawford Rd. PO Box 26 Homerville, OH 44235-0026

Office: (330) 625-2817 Fax: (330) 625-5502 Cell: (330) 416-2755 homervillekoa@gmail.com

#### RE: DOCKET NO. CP16-22-000

I am a business owner in Homer Twp, Medina County and a resident of Coventry Twp, Summit County. The NEXUS project will be impacting me both at home and in my business. While I am opposed to some of the methods used to collect and transport natural gas, I understand that it is necessary to the growth of our nation and our economy. I feel that with proper study and compromise, we can find the best route for this project.

I fully support the planned Nexus Route if the Oak Openings and Canton B Alternatives are CO26-1 implemented. These are small adjustments to make that address the bulk of the City of Green Alternate's environmental issues without needing a complete reroute. I realize that the commission has recommended that neither of these alternatives be considered noting that, "we do not find the Alternative to have an environmental advantage when compared to the corresponding segment of the proposed route and do not recommend that this alternative be incorporated as part of the Project." (3.3,6) However, the alternative does not present a disadvantage either. It simply "represents a shift of impacts from one area, group of landowners, and set of resources to another area, group of landowners, and set of resources." (3.3.6) In this carse the set of lands that the project is shifted from are some of the rarest and most fragile in our great state of Ohio. Both Singer Lake and Oak Openings/Maumee State Forest are microscopic remnants of once expansive and thriving ecosystems. Now, many of the plants and animals that can survive nowhere else are listed as threatened or endangered because of the progress of man. Indeed they are small, fragmented, and, in some cases, far from pristine, but that is what makes these areas that much more important to preserve. If we are to have any chance at restoring these types of habitat for the experience of future generations, these tiny incubators of life must be saved to act as the nucleus of that growth. I realize that there are trade-offs whenever a route alternative is proposed, but I feel that the fragility of these areas merits alternating the proposed route. To risk either of these areas is a gamble that should not be taken.

CO26-2 I have been informed that, should the City of Green Alternative be adopted, the pipeline may be routed through my business/property. Because a campground is such a dynamic business that is difficult to put into any other category, I have very specific concerns. My business does not fit into any one model. We are part service industry, part hospitality. We have short-term stays and long-term stays. People count on us to provide an escape to nature but with all the conveniences of the city. Because of that, a pipeline on our property would greatly limit how we use our land in both the short and long term. On the short term, we would immediately have to close campsites that were within the right of way. This would not only cause immediate loss of revenue, but create long term issues with the customer. Campers want to feel that they are in a safe and serene environment. Having a large pipeline on the property would negatively affect our image, which would impact my business in a way that would be very difficult to measure until it showed up in our bottom line and was too late to counteract. In addition, any right of way on our property would prevent us from future expansion because we would

- CO26-1 See section 3 of the EIS for a discussion of the environmental impacts associated with the Oak Openings and Canton B alternatives.
- CO26-2 The Homerville KOA Campground would be about 0.1 mile west of the alternative route (see section 3.3.3). Based on our review, we did not find the City of Green Route Alternative provides a substantial environmental advantage when compared to the corresponding segment of the proposed route and did not recommend that it be incorporated as part of the Projects.

#### CO26 – Homerville KOA Campground (cont'd)

CO26-2 cont'd)	not be able to construct campsites, buildings, pools, utilities and essentially every other thing that is required for us to do business over the right of way.
	As mentioned in 3-23, one of the most important considerations in routing a gas line is the impact on the use of the land. Consider that, in our case, the land is multi-use. Some folks use it as a getaway or a vacation. For others we're just a quick overnight to rest before the next leg of a journey. But we also have a number of families (currently 17, but it has been as high as 30 over the years) that <i>reside</i> here for the full 6 months that we are open. Snowbirds return from the southern US every year and the Homerville KOA is their home. Then there is the core of our business: a very high number of long- term stays or seasonal campers. Currently 132 families pay to leave their RV on a site for the entire 6 months we are open. They may only be here on weekends or they may spend weeks or months at a time here as a vacation. It is these customers that, I feel, will choose to leave if the pipeline comes through. They will feel much more impacted because of the amount of time they spend in the campground. More time near the pipeline means more exposure to the risks associated. I have already been approached by several long-term customers who have seen the proposed City of Green Alternative. Each of them has voice to me their opinion and it was the same each time. To paraphrase, they are not willing to camp <b>anywhere near</b> a gas pipeline. This is because, unlike other businesses where consumers go to recreate, spend some time and go home, at a campground, <b>they stay</b> . They spend nights, weeks, months or even entire seasons. If we were a campground that relied heavily on travelers or short term stays, I would feel more at ease with the idea of a pipeline because that type of customer would be here for too short a period of time to even notice the right of way. With our business relying so heavily on long-term stays, I believe that a pipeline would be extremely damaging to our core business.
2026-3	It is for these reasons that I request this: if the City of Green Alternative is adopted and approved, I wish to propose a "Homerville KOA Variation" that would spare my business from the pipeline, allowing me to continue to operate a successful campground with no restriction on how I use my land and no negative affects on my customer base.
	I appreciate you giving me this forum to voice my concerns. I hope that they will be considered and compromises can be reached.
	Regards,
	Greg Emmert
	Owner/Manager, Homerville KOA Campground, Homer Twp, Medina County Resident of Coventry Twp, Summit County

CO26-3 See response to comment CO26-2.

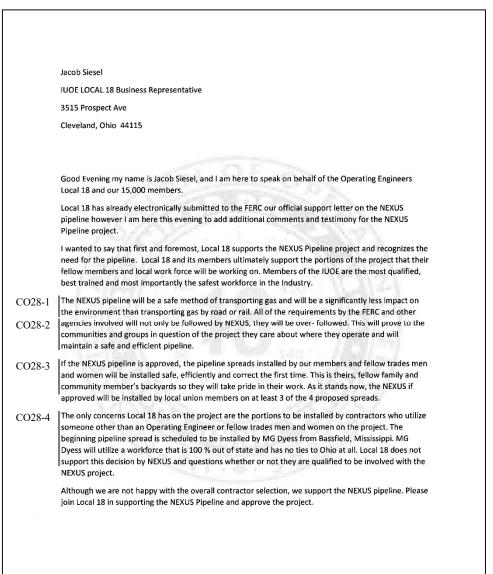
**Companies/Organizations Comments** 

#### CO27 – Ohio Chemistry Technology Council

	Ohio Chemistry Technology Council
	Good evening. I am Jenn Klein, and I serve as the President for the Ohio Chemistry Technology Council. We appreciate the opportunity to provide an overview of why we strongly support the NEXUS project.
	Since 1988, the Ohio Chemistry Technology Council (OCTC) has been the leading advocate for our state's significant chemical technology industry—the second-largest manufacturing industry in Ohio and the sixth-largest chemical manufacturing state in the U6.S.
CO27-1	Natural gas is essential to chemical production. Having a reliable, affordable source of natural gas will not only help our member companies keep their energy costs low, it will also cut the costs of a critical raw material, as natural gas serves as an important feedstock for a huge number of chemical products. The NEXUS project can provide this source of energy – and the company's draft Environmental Impact Statement (DEIS) has demonstrated that it will have a minimal impact on community's along the pipeline route.
CO27-2	Of course, other manufacturing sectors in Ohio also rely on natural gas for heating, cooling, and electricity. They, too, stand to gain from lower energy prices. And natural gas is also used in the production of a wide variety of consumer goods, from fertilizer and fabrics to plastics and pharmaceuticals. The NEXUS project will help Ohio-manufactured goods of all kinds be more competitive in the global marketplace, helping to create jobs and growth back home.
CO27-3	But those are the "downstream" jobs we can expect from the NEXUS project. In the shorter term, the project will generate 6,800 jobs, more than \$650 million in wages, and \$830 million in total economic activity. In its first year in operation in Ohio, NEXUS would generate an estimated \$83 million in tax revenue, of which approximately \$57 million would go directly to local Ohio school districts. These economic benefits will greatly help our state economy as a whole, which means they will also benefit our industry, workers, and the consumers who benefit from our products.
CO27-4	Given all the benefits to our state, region, and nation, we are also concerned that FERC or other government bodies will impose unnecessarily restrictive limitations on the project's implementation that could hinder its positive impacts. Natural gas pipelines are the safest and most efficient way to transport natural gas from where it is produced to where it is consumed. According to a United States Congressional Committee report, pipelines are safer than roads, rails and barges for the transportation of natural gas. More than 300,000 miles of pipeline nationwide reliably bring clean-burning natural gas to our homes, businesses and factories every day. Once the NEXUS pipeline and related facilities are placed into service, NEXUS will monitor the pipeline 24 hours a day, 7 days a week, 365 days a year.
	FERC addressed a wide range of concerns in the DEIS, including market demand, energy corridor, safety, security, health, pipeline system alternatives, induced upstream O&G production, life-cycle impact analysis, climate change, Oak Openings, electric compressor units, proximity to homes, setback variances, and a host of major and minor alternatives.
	We are grateful for the chance to lay out our reasoning regarding why the NEXUS pipeline is not only good for our state's chemical manufacturing industry, but also for the State of Ohio as a whole. We look forward to hearing your decision in the near future.

CO27-1	Comment noted.
CO27-2	Comment noted.
CO27-3	Comment noted.
CO27-4	Comment noted.

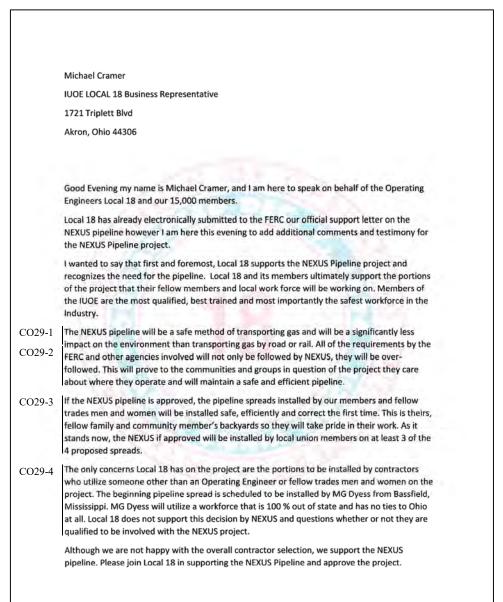
#### CO28-IUOE Local 18



- CO28-1 Comment noted.
- CO28-2 Comment noted.
- CO28-3 Comment noted.
- CO28-4 As discussed in section 4.10.3, Texas Eastern estimates that 40 to 60 percent of the construction workforce would be local hires (i.e., 128 to 282 local employees). Additionally, NEXUS estimates that over \$449.6 million would be spent toward direct local construction labor income with approximately \$400.6 million in Ohio and approximately \$49 million in Michigan.

NEXUS' and Texas Eastern's estimate of local hiring and payroll is just an estimate. The source of final worker hires would depend on the existing pool of available workers at the time of construction. This will include local labor and trade expertise, including agricultural inspectors and train tile repair professionals to the extent practicable.

#### CO29 – IUOE Local 18



- CO29-1 Comment noted.
- CO29-2 NEXUS' and Texas Eastern's estimate of local hiring and payroll is just an estimate. The source of final worker hires would depend on the existing pool of available workers at the time of construction. This will include local labor and trade expertise, including agricultural inspectors and train tile repair professionals to the extent practicable.
- CO29-3 Comment noted.
- CO29-4 As discussed in section 4.10.3, Texas Eastern estimates that 40 to 60 percent of the construction workforce would be local hires (i.e., 128 to 282 local employees). Additionally, NEXUS estimates that over \$449.6 million would be spent toward direct local construction labor income with approximately \$400.6 million in Ohio and approximately \$49 million in Michigan.

NEXUS' and Texas Eastern's estimate of local hiring and payroll is just an estimate. The source of final worker hires would depend on the existing pool of available workers at the time of construction. This will include local labor and trade expertise, including agricultural inspectors and train tile repair professionals to the extent practicable.

#### CO30 – Canton Regional Chamber of Commerce

	My name is David Kaminski, and I represent the Canton Regional Chamber of Commerce at 222 Market Ave. N, Canton, OH 44702. We are a regional business organization of 2,100 members, and we have been encouraging energy development in the Utica since 2012.
CO30-1	I have come here tonight to speak in favor of the NEXUS pipeline because of the economic development benefits it will bring.
	According to estimates I have received, the construction of the pipeline will generate 5,300 jobs in Ohio worth \$565 million in wages. It will generate \$390 million in local tax revenue, with \$116 million going to local schools.
	In Stark County, where Canton is located, the total economic impact is estimated at \$53.4 million and 400 jobs.
CO30-2	The pipeline will bring Utica Shale gas to markets that need it, in Ohio and elsewhere. Specifically, it will give potential industrial sites in Ohio the access to large quantities of gas that could grow sustainable, long-term jobs.
	The Utica Shale is proving to be an immensely valuable resource for North American energy security. But the only way that the resource will prove its value is if we are able to deliver it to market.
	Therefore, we at the Canton Regional Chamber support the Utica pipeline projects now under federal regulatory review. We know there are disagreements about the specific route that NEXUS should take. We trust that NEXUS Pipeline and federal regulators will work to resolve the issues that have arisen.
CO30-3	We know that well-built, well-regulated pipelines are the safest way to transmit gas, that pipelines are already under our feet wherever we go, and that we ought to build more.
	Thank you.

CO30-1	Comment noted.
CO30-2	Comment noted.
CO30-3	Comment noted.

#### **CO31 – Oil Change International**

Federal Energy Regulatory Commission (FERC), 6584 people have signed an Oil Change International petition calling on your to reject the Spectra NEXUS pipeline and all future gas pipelines that fail the climate test and endanger communities. Here is the petition they signed: Energy policy should align with climate science - it's common sense, and it's the CO31-1 only way we can keep our promise to the American people and meet the commitment we made in Paris to do our part to save the climate. New research shows that approving new fracked gas pipelines is incompatible with a safe climate. CO31-2 |FERC and all federal agencies must make decisions on fossil fuel infrastructure that assume success in reaching our climate goals, not failure. We call on the government to withhold approvals for all proposed pipelines until it is proven that they are safe for the climate and for the communities they would pass through. You can view each petition signer and any additional comments they left you below. Thank you, Matt Maiorana Oil Change International 1. Debbie Thomas (zip code: 89408) 2. Douglas Frye (zip code: 11232) 3. bret daugherty (zip code: 47274) 4. Phyl Morello (zip code: 37890) 5. Barbara Doucet (zip code: 30263) 6. Thomas Sanders (zip code: 06441) 7. I. Engle (zip code: 88352) 8. Voncile Ferguson (zip code: 27410) 9. Mary Cooper (zip code: 30291) 10. Jeff Rivenbark (zip code: 19808) 11. Joanne Snyder (zip code: 92123) 12. Gary Smith (zip code: 06614) 13. PK Trei (z/p code: 80222) THINK about what you are proposing which will literally make a world of difference to what mur children/grandchildren+ have to live in. Shall we party today and leave the very expensive tao for them to pay? Look at your family. Don't you care than they are already getting bathed in poisons daily? How much, how long, before we tip the scale just that bit and leave our families to pay the price, so rich corps can get richer. Is that worth your great grandson's ability to breath, move, think? Go slowly and DO NO MORE HARM. 14. Peter DeLorenzo (zip code: 30307) 15. Lesley Schultz (zip code: 94610) 16. Sant Subagh Khaisa (zip code: 25545) 17. Jeanne Nix (zip code: 8502) 18. David Zahrt (zip code: 89703) 19. Carol Gorecki (zip code: 04463) 20. KM Shaub (zip code 08618) 21. Aaron Novack (zip code: 85281) 22. Julie Takatsch (zip code: 12771) 23. Arthur Kirby (zip code: 95010) 24. R. D. Peterson (zip code: 34436) 25. Theresa Morningstar (zip code: 49120) 26. Henri Valliancourt (zip code: 03048) 27. N. Dumser (zip code: 11768) 28. william howard (zip code: 33957) 29. Sandra Smith (zip code: 98122-5706) 30. Suzanne a'Becket (zip code: 95014) 31. Tina Ann (zip code: 94924-0265) 32. Judy Fairless (zip code: 07059) 33. Sima Bakalian (zip code: 20852) 34. Alissa Sollitto (zip code: 13760) 35. Ann Rogers (zip code: 49686) Climate Change is happening at a faster rate. It's time to get rid of all fossil fuels and embrace clean energy. 36. Andrew Arellano (zip code: 60534) 37. ann bafley (zip code: 76133) 38. Arnold Gatti (zip code: 94550) 39. Anne Roda (zip code: 98118) 40. Anton Sober (zip code: 21136) 41. Amy Tajdari (zip code: 32224) 42. Art Wagner (zip code: 21122) 43. Marilyn Miller (zip code: 62704-1073) I can't imagine that FERC is still pushing fracking knowing that it has poisoned underground drinking water, caused earthquakes, water coming out of taps in people's homes are like torches because the water burns from the tap, it is not safe to drink, take a bath in or do laundry. Stop this because it is also interfering with our battle against climate change goals because it IS JUST ANOTHER FORM OF FOSSIL FUELS. GET WITH THE PROGRAM AND THE PEOPLE WHO WANT TO SURVIVE ON THIS PLANET. Enough of pushing this to enrich the pockets of the oil and gas Barron's who don't care about the future of this planet only about their own enrichment. 44. Aleta Bruzzese (zip code: 15237) 45. Andrew Cadot (zip code: 4101) 46. Audrey Fairchild-Ehm Fairchild-Ehm (zip code: 55113-6106) 47. A L (zip code: 14809)

- CO31-1 See the response to comment FA2-34.
- CO31-2 Comment noted. The EIS is not a decision document. The Commission will consider the findings of the final EIS and the results of staff's review of the Project's design, market demand, costs, financing, and rates before making its decision on whether to authorize this Project.

#### CO31 – Oil Change International (cont'd)

48. Aaron Campbell Campbell (zip code: 18612) 49. Aaron Dukes (zip code: 97031) 50. Aaron Fuller (zip code: 78256) 51. Aaron Mencia (zip code: 33183) 52. Anne Yoshino (zip code: 85718) 53. Alan Bartl (zip code: 95401) 54. abigale wool (zip code: 90805) 55. Arthur Connor 52. Allue Fushino (ap code: 03749) 53. Alle and (ap vote: 5476) 54. Control (ap code: 25461) 59. Alex Vollmer (zip code: 26497) 58. Lilithe Madalene (zip code: 95461) 59. Alex Vollmer (zip code: 24997) 60. William Wilson (zip code: 45420) 61. acacia lawson (zip code: 10471) 62. Anthony Capobianco (zip code: 15102) 63. Ashley Carter (zip code: 40322) 64. Alison Bonn (zip code: 90049) 65. J.T. Smith Smith (zip code: 18960-1422) 66. catherine garneski (zip code: 19702) 67. adam flogel (zip code: 53406) 68. Adam Christians (zip code: 52403) 69. Adam Baker (zip code: 77001) NO TRANS PECOS PIPELINE! 70. adam kaplan (zip code: 92651) 71. Adam Ludwig (zip code: 11222) 72. Jenna Adams (zip code: 02053) 73. Adam Williams (zip code: 48108) 74. Adaya Walsh (zip code: 93023) 75. Arielle Black-Foley (zip code: 2420) 76. Jackie Bowers (zip code: 21161) 70. Jakik converse (approximation of the second 91367) 81. Steve Adler (zip code: 60625) 82. Annette Dominique (zip code: 30189) 83. Adrian Castillo (zip code: 33155) 84. adrian landon (zip code: 10024) 85. Adrian Smith (zip code: 27559) 86. Anne Dugaw (zip code: 92627) 87. Ava Harrison (zip code: 78602) 88. Amy Zink (zip code: 94606) 89. AE DeWitt (zip code: 30324) 90. A Frey (zip code: 37069) 91. Anne Fadze (zip code: 60302) 92. Roberto de Medici (zip code: 33180) government to withhold approvals for all proposed pipelines until it is proven that they are safe 93. Kathy Rusch (zip code: 12303) 94. Andrew Fischer (zip code: 2446) 95. Alexander Kemper (zip code: 37042) 96. Arlene Faherty Januard (2017) 2. July 147, Junit W Fischer (2017) 2016 2.949) 55. Alexander Acempter (2017) 2018 2. July 149. ArField (2017) 2018 2. July 149. ArField (2017) 2018 2. July 2018 03801) 106. Agnes Witter (zip code: 32132) 107. Agnes Matenos (zip code: 02184) 108. Andrew Gordon (zip code 32605) 109. Anne Gross (zip code: 95351) 110. Art Hanson (zip code: 48917) However, you MUST do MUCH more. We MUST keep ALL climate-changing fossil fuels in the ground! 111. Anne Harvey (zip rode: 32130) 112. Ana Herrero (zip code: 78260) 113. Andrew Hinz (zip code: 21217) 114. Andrea Axelrod (zip code: 33064-3519) 115. Clara Thomas (zip code: 19973) 116. Ald Sheet (zip code: 3370) 117. Altere Smith (zip code: 29778) 118. Angela Munoz (zip code: 94709) 119. Alxa Fielder Fielder (zip code: 90016) 120. alena jorgensen (zip code: 91780) 121. Aja Willowleat (zip code: 44113) 122. Annette Bork (zip code: 92612) 123. Allen Cohen (zip code: 17036) 124. Andre Gregoire (zip code: 6066) Andre Gregoire (*ipt code: 6066*)
 Andre Gregoire (*ipt code: 6066*)
 Andre Gregoire (*ipt code: 60405*)
 Judy Mason (*ipt code: 90405*)
 Judy Mason (*ipt code: 90406*)
 Anto Ekkler (*ipt code: 60417*)
 Al DeRoy (*ipt code: 15235*)
 Anne Raticki (*ipt code: 60417*)
 Anterine Felly (*ipt code: 20491*)
 Anne Raticki (*ipt code: 60417*)
 Anterine Felly (*ipt code: 20491*)
 Anne Raticki (*ipt code: 65413*)
 Anne Naylor (*ipt code: 2143*)
 Anne Naylor (*ipt code: 2148*)
 Ann Naylor (*ipt code: 2148*)
 Anne Arnold (*ipt code: 6066*)
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 Anne Arnold (*ipt code: 6066*)
 Anne Naylor (*ipt code: 2148*) 135. Alan Naylor (zip code: 2110) 136. Alan Arnold (zip code: 08691) 137. Alan Brown (zip code: 10624-6414) 138. Alan Conzalez (zip code: 5507) 139. Frany Alan (zip code: 3022) 140. Ala) (bhosno (zip code: 96819) 141. Alan LaPayover (zip code: 19119) 142. ralbani (zip code: 3322) 140. Ala) (bhosno (zip code: 96819) 141. Alan LaPayover (zip code: 19119) 142. ralbani (zip code: 3349) 143. alice ciuffo (zip code: 07095) 144. Al Ferrucci (zip code: 15266) 145. Albert Gamble (zip code: 2835) 146. Any Hayworth (zip code: 15109) 147. Gary Alderette (zip code: 9640) 148. Richard Aldred (zip code: 19342) 149. Ale Hendrickson (zip code: 15410) 150. Anderwe Lefort (zip code: 96362) 151. Alek Williams (zip code: 32839) 152. SERCIO DURAN (zip code: 79905) 153. Mark Alexander (zip code: 7507) 157. Alexis Ostroski (zip code: 26567) 158. Alex Mendelsohn (zip code: 4943) 159. Alexander Cark (zip code: 55057) 157. Alexis Ostroski (zip code: 06406) 160. Alfred Lapton (zby code: 0604) 161. Anus Gratin (zby Code: 7047) L393. AtteAnuer Carter (zby Code: 7047) 150. Altred 163. altoe brown (zby Code: 2022) The idea that a gas pipeline would be built in our back yards in Canton, Ma. is imbecilic and a path chosen by corrupt politicans, when we have a leaking gas line already that has already taken out several homes. If Ray State Gas would fix their leaks, thousands of them, we would get ample gas. The gas going through these proposed gaslines in t for us anyhow. It's to sell oversas. To add the cost of builting these tipelines is to have the taxpayer provide the goin to sell oversation. kill himself. 164. Alicia Snow Snow (zip code: 94117) 165. Alicia Barmon (zip code: 21791) 166. Lisa Lewis (zip code: 74074) 167. Alison Carville (zip code: 33967) 168. Alison Miller (zip code: 08550) 169. Susan Mamich (zip code: 80127) 170. Alixine Sasonoff (zip code: 98166) 171. Alix Keast Keast (zip code: 10025) 172. Alan Jasper (zip code: 11566-5025) 173. Albert Kopec (zip code: 14837) 174. Allan Smid (zip code: 2738) 175. Al Chazin (zip code: 11367) Fracking accelerates global warming, no if, and, or buts!!!!

#### CO31 – Oil Change International (cont'd)

176. Allen Rozelle (zip code: 95060) 177. Allen Elliott (zip code: 98257) 178. Allen Isola (zip code: 29910) 179. jean aligood (zip code: 52245) 180. Allie Tennant (zip code: 33962) 181. Alison Fradkin (zip code: 60062) 182. Alison Petrocta (zip code: 99577) 183. selety Kapita (zip code: 9014) 184. Alizota Godbec (zip code: 36013) 185. Alima Bill (zip code: 46576) 186. Charles Almack (zip code: 92231) 187. Jacqueline Sowa Colyer (zip code: 19320) 188. Andy Lopez (zip code: 56308) 189. alpe adria green (zip code: 64270) 190. Elaine Eudy (zip code: 30344)

191. Al Roesch (zip code: 19446) 192. Allie Stokes (zip code: 33647) 193. Al Sim (zip code: 87107) 194. Alvera Pritchard (zip code: 33139) 195. Alvee Fritch (zip code: 98125) 196. Alyce Harper (zip code: 3303) 197. Alison Guzman (zip code: 02860) 198. Alan Mack (zip code: 14423)

199. Ámalia Bodkin (zip code: 85748) 200. amanda osborne (zip code: 32258) 201. Amanda Collins (zip code: 75204) 202. Amanda Schnildt (zip code: 95628) 203. Amber Max (zip code: 84115)

204. Dorothy Lynn Brooks [zip code: 76013] 205. Amanda McNeill [zip code: 81321] 206. Andrew McPherson [zip code: 32803] 207. Anthony Mehle [zip code: 44406]

208. Anthony Mendousa (zip code: 2653) Green energy only from now on!

209. Amy Wiesner [zip code: 06905] 210. Alina Grinshpun [zip code: 44124] 211. A. M. Heines [zip code: 13440] 212. Jorge Arauz [zip code: 53521] We need to move away from the old road leading to catastrophe, and onto the new road of sustainability and safety for all. 213. Amit Shoham (zip code: 94606) 214. a kasbarlan (zip code: 07033) 215. Anthony Monarert (zip code: 91602) 216. Ann

Marie Paglione (zip code: 14120) 217. Christopher Walker (zip code: 20205) 218. mitt khalsa (zip code: 90278) 219. Anna-Marie Soper-O'Rourke (zip code: 30329) 220. Aaron Ucko (zip code: 20850) 221. Amy Carpenter (zip code

97401) 222. Amy Spude (zip code: 55358)

223. Amy Graze (p) code: 55082) 224. Amy Cordero (zip code: 84404) 225. Amy Hernandez (zip code: 77038) 226. amy Schumacher (zip code: 45440) 227. ame gruetzner (zip code: 44133) 228. Lane King (zip code: 97526) 229. Ana Herold (zip code: 4944) 230. Karen Hewelk (zip code: 48051) 231. Betty Anders (zip code: 3464) 230. 232. Dan Anderson (zip code: 95747)

233. Andie D (zip code: 11215)

234. andi gibson (zip code: 01040) Stop polluting our planet for money! 235. Andrea Speed (zip code: 98445) 236. Andi Shotwell (zip code: 80033) 237. Andre Pessis (zip code: 94925) 238. Andrew Rolnicki (zip code: 60661) 239. Andrew Arrabaca (zip code: 12601) 240. Andrew Costigan (zip code: 02062) 241. Lisa Keim (zin code: 60453)

242. andreas ohland (zip code: 33141) 243. Andy Winger (zip code: 75082-4957) 244. Andy Westerhold (zip code: 98103) Andrea Kaufman (zip code: 95446) 246. George Levesque (zip code: 01851) 247. Sharil Anderson (zip code: 97439)
 Andrew Lee (zip code: 94080) 249. Kevin Hughes (zip code: 98221) 250. Angee Sylvester (zip code: WFP) 251. Beth Angel (zip code: 06424) 252. stuart wisong (zip code: 34109)

253. Angela Armstrong (zip code: 98312) 254. Michael Mack (zip code: 13315) We should stop building more polution infrastructure and ONLY build replaceable power supplies re- solar, hydro, wind power. 255. Angelita O'Connor (zip code: 77550) 256. Angie Burnham (zip code: 80302) 257. William Turechek (zip code: 13825)

258. Angus McCormick (zip code: gl6 6qn) 259. Anikia Phillips (zip code: 7107) 260. Cori Bishop (zip code: 08215) 261. Anita Waters (zip code: 40206) 262. Anita Li (zip code: 80392) 263. Ann Jacobs (zip

code 63116) 264. Am Alwater (sig code: 1203) 265. TA Anterson (sig code: 9733) 266. Annabelle Herbert (sig code: 8370) 267. Amabelle neg (sig code: 1203) 265. TA Anterson (sig code: 9733) 266. Annabelle Herbert (sig code: 1203) 270. Ame Carbon (sig code: 1203) 269. Annabelle neg (sig code: 1203) 270. Ame Carbon (sig code: 2203) 271. Ame Mats (sig code: 02671) 270. Ame Carbon (sig code: 2203) 271. Ame Mats (sig code: 9541)

272. Anne Fisher (zip code: 02420)

273. Anne Gunderson Gunderson (zip code: 7756) 274. anne wilson (zip code: 42732-9098) 275. Anne Preston (zip code: v4b1c2)

276. Anne Montgomery (zip code: 20009) Adaptation of the earth, humanity and our remaining flora and fauna cannot occur in he face of thoughtless, evidence-denying policy. There is little lime left for bold action. It is not a political issue, it's a matter of the survival of our grandchildren.

277. Anne Huber (zip code: 95032) 278. Ann-Elizabeth Barnes (zip code: 1230) 279. Annemarie Meyer (zip code 19547) 280. Anne Wisniewski (zip code: 21783) 281. Anne Barker (zip code: 94901) 282. Anne Ozar (zip code: 68131) 283. Anne Roberts (zip code: 31421) 284. Anne Settanni (zip code: 61761) 285. Annette Hartshorne Hartshorne (zip code 53711-6496) 286. Annette Ancel-Wisner (zip code: 54871) 287. Ann Horwath (zip code: 96706) 288. Anni Crofut (zip code: 1236) 289. Annie Wilder (zip code: 62037) 290. Ann Ewing Ewing (zip code: 38305) 291. Ann Eastman (zip code: 01460) 292. Ann Smith (zip code: 80751) we shall soon be able to get away from gas and oll as new inovative methods will make them osbsolete

293. Ann Ellis (zip code: 13732) No more pipelines!

294. Ann Rushton (zip code: 91423) The time is now -- we must take climate change seriously!

295. Ann Saad (zip code: 24121) 296. Ann Stockdale (zip code: 98335) And now, I am hearing that fracked water is being used on our food supply. Shameful. 297. Ann Luke (zip code: 80206) 298. For now, i an moring tool insert water is being used on but too shippy, shancaut 297. Ann Luke (ap code: 3249) 25 Will Tetelbaum (ap code: 2825/2) 299. Antonio Sarmiento (ap code: 5221) 302. Anthony Svihula (ap code: 34491) 303. 300. Art Smoker (ap code: 28754) 301. Ansula Press (ap code: 5921) 302. Anthony Svihula (ap code: 34491) 303. Anthony Martinez (ap code: 28754) 306. Allison

Matthews (zip code: 30022) 307. Ashley Parker (zip code: 19426) 308. Andrea Carty (zip code: 17554) 309. Arlene Dreste (zip code: 85321) 310. Allce Neuhauser (zip code: 90266) 311. Angela Porsch (zip code: 33716) 312. Tony Greiner (zip code: 87110-1439) 313. Pam Scoville (zip code: 07421)

314. Ann Prentice (zip code: 30906) "Keeping America Safe" is not consonant with allowing gas pipelines to run through our country. Gas pipelines threaten individual citizens, whole communities, entire regions of the nation, and, ultimately, the safety of this planet! PLEASE, REJECT THESE PROJECTS!

#### CO31 – Oil Change International (cont'd)

315. Andrea Presson (zip code: 78732) 316. Diana Washburn (zip code: 1453) 317. Sandy Fox (zip code: 97089) 318. Angel Raudner (zip code: 34120) 319. Amanda Raymond (zip code: 33702) 320. Kelly Arellanes (zip code: 72022) 321. Andrew Frey (zip code: 91106)

322. Alan Hoeffler (zip code: 85205) 323. Aria McKenna (zip code: 07307) 324. Ariana Gabriel (zip code: 28803) 325. Ariane Sullivan (zip code: 60107) 326. Annie Richardson (zip code: 33711) 327. Ariel Dickinson (zip code: 14420) 328. Amy Henry (zin code: 01060)

329. Arkady Vyatchanin (zip code: 32607) 330. Gabriel Sheets (zip code: 95341) 331. Arlene Wolf (zip code: 47714)

332. arlene griffin (zip code: 87540) 333. Arlys Fones (zip code: 97219) Save our earth. Please do not be a party to it's destruction. 334. karl armens (zip code: 52245) 335. STACIE CHARLEBOIS

(zip code: 95472) 336. Arnold Haber (zip code: 78732)

337. arnold roman (zip code: 37215) 338. Arnold Welber (zip code: 33351) 339. Harold Arns (zip code: 57719) 340. Arnold Lippin (zip code: 11201) 341. Arthur Rosenberg (zip code: 55405) 342. Arthur Kennedy (zip code: 93117) 343. Andrew Politzer (zip code: 06801) 344. Art Jacobson (zip code: 80209) 345. Sarah Arvio (zip code: 21409) 346. Aryt Alasti Alasti (zip code: 02138)

347. Antoinette Saletta (zip code: 97219) The future is NOW, and it's renewable energy sources. Invest in NOW. Invest in renewable energy sources. 348. Paul Lau (zip code: 89431) 349. Joseph Corbett (zip code: 02814) 350. Ash (zip code: 21043) 351. Gregory Freeman

(zip code: 85625) 352. Anna Shenk (zip code: 02143) Yes, dear people - Let's put our energy and effort into building solar and wind!!! - the wave

of the future!!!

353. aron shevis (zip code: 11218) 354. Carol Ashley (zip code: 56433) 355. Aeyrie Eagle (zip code: 92886) 356. Alice Polesky (zip code: 94107) 357. Andrew Sledd (zip code: 60643) 358. W. Andrew Stover (zip code: 17201) 359. Elizabeth Asnicar (zip code: 80540) 360. Sheila Ward Ward (zip code: 00927) 361. Robert Chasteen (zip code: 60565) 362. Amy Staats (zip code: 23607)

363. A.L. Steiner Steiner (zip code: 90063) 364. Anne Streeter Streeter (zip code: H3R 2R9)

365. Alan Gonzalez (zip code: 90815)

366. anita weinstein (zip code: 10025) 367. Anita Faulkner (zip code: 75007)

368. Art Tanderup (zip code: 68756)

369. Renee Locks (zip code: 94941)

370. George Loveday (zip code: 95949) IT'S SIMPLE. JUST STOP WHORING YOURSELVES TO CORPORATE AMERICA.

371. Angela Lyon (zip code: 96734) 372. Ann McMullen (zip code: 84093) 373. Audra Soulias (zip code: 60108) 374. Audrey Gurtman (zip code: 11753) 375. Audrey Ledesma (zip code: 92115) 376. Audrey Newcomb (zip code: 05105) 577. Audrey Gut than (zip code: 11735) 378. Toni Moore (zip code: 91104)

Totin Mode (2p code: 9104) 379. Artiur Chan (2ip code: workingfam) 380. Wendy Sundberg (2ip code: 15690) 381. Vernon Batty (zip code: 81147) 382. Lisa Vandermay (2ip code: 90659) 383. Mike Hozjan (zip code: K081H0) 384. John Tovar (zip code: 50613) 385. An anonymous signer (zip code: 60659-3676) 386. alessandra visconti (zip code: 60202) 387. Avis Deck (zip code: 67002) 388. Louis Avrami (zip code: 60659-3676) 386. alessandra visconti (zip code: 60202) 387. Avis Deck (zip code: 67002) 384. Louis Avrami (zip code: 0766)

389. Arnold Ruiz (zip code: 85043-7580) 390. Al Buitenwerf (zip code: 60482) 391. Robin Patten (zip code: 73115) 392.

Audrey William (zip code: 12054) 393. Andrew Schelling (zip code: 16576) 394. Elizabeth Park (zip code: 77591) 395. Judith Smith (zip code: 94601) 396.

Ayana Baltrip (zip code: 94132) 397. Pamela A. Lowry (zip code: 94704) 398. Dave Swihart (zip code: 85225) 399. Bruce Donnell (zip code: 87506) 400.

Brad Miller (zip code: 67003)

401. Barry Zuckerman (zip code: 1994) 402. Barry Eshkol Adelman (zip code: 32967) 403. Brlan Hartman (zip code: 22044) 404. Barbara Jo Mullis (zip code: 2969) 405. Brenda Marshall (zip code: 0510) 406. Barry Fass-Holmes (zip code: 9210) 407. Craig Browning (zip code: 94501) 408. Brenda Marshall (zip code: 9269) 409. Jenny Geb (zip code: 94501) 408. Barry Fass-Holmes (zip code: 94501) 409. Jenny Geb (zip code: 94501) 409. Barry Fass-Holmes (zip code: 94501) 409. Jenny Geb (zip code: 94501) 4 44622) 410. Erin Rowe (zip code: 95521) 411. Barbara Blen (zip code: 21093) 412. John Lundquist (zip code: 80020) 413. Hildy Ismail (zip code: 33009)

414. Marietta Scaltrito (zip code: 10312) 415. Richard Defazio (zip code: 16502) 416. Robert Bacher (zip code: 96817) 417. Holland (zip code: 90026) 424. Nelly Baldan badia (zip code: 10022) 425. Frances Wesson (zip code: 92545) 426. Lilinoe

Formati (a) come server (1) test (1) and (1) and (1) constant (1) c Barbara Rabinovitz (zaj code: 27519) 433. tat v mienan (záj code: 2016/r) 432. naturat Owens (záj code: 3700 433. Barbara Rabinovitz (záj code: 27519) 434. Barb Andersen (záj code: 98132) 435. Barbara Zilles (záj code: 32245) We can investi n clean energy instead!
 Barbara Ibbert (záj code: 9417) 437. Barbara Gross (záj code: 98115) 438. Barbara Larcom Larcom (záj code: 2615) 436. Barbara Ibbert (záj code: 9417) 437. Barbara Gross (záj code: 98115) 438. Barbara Larcom Larcom (záj code:

21214) 439. Barbara McKenzie (zip code: 19147) 440. Barbara Diederichs (zip code: 92064) 441. Barbara Sullivan (zip code: 60004) 442. Barbara Casey (zip code: 94010) 443. Barbara Woodward (zip code: 18104) 444. Barbara Turner (zip code: 90035 (145. Jane Barbarow [zip code: 94619)
 446. Barbara Cohn (zip code: 92010) We cannot afford to make any more mistakes re climate change - it's here and we don't

have a lot of time to act against it if we want to leave a livable world for our children and grandchildren. It is a moral imperative that trumps corporate profits and greed. Do the right thing

#### CO31 – Oil Change International (cont'd)

447. Barbara Canning (zip code: 33803) 448. Barbara Goodale (zip code: 13077) 449. Robert Kennedy (zip code: 60638)

\*\*r. Bai bai ca Caming (zip cole: 33v2) 446. Bathara boduale (zip code: 13077) 449. Robert Kennedy (zip code: 60638) 450. Barbara (anterna (zip code: 2607) 452. Barbara Bates (zip code: 33907) 453. Barbara Jacobsen (zip code: 9376) 454. Barbara Bogard (zip code: 94941) 453. Barbara Bates (zip code: 3504) 456. Wendy Holland (zip code: 94764) 457. dogan ozkan (zip code: 99701) 458. Bruce Ross (zip code: 80392) 459. Barri Clark (zip code: 9004) 460. Barry Meehan (zip code: 60048) 461. Barry Plaxen (zip code: 97701) 458. Bruce Ross (zip code: 80392) 459. Barri Clark (zip code: 9004) 463. Barry Meehan (zip code: 60048) 461. Barry Roberts (zip code: 80049) 461. Barry Roberts (zip code: 80049) 463. Barry Meehan (zip code: 9004) 464. Barry Nates (zip code: 2607) 463. Barry Meehan (zip code: 9004) 464. Barry Nates (zip code: 2607) 463. Barry Meehan (zip code: 90049) 464. Barry Nates (zip code: 2607) 463. Barry Meehan (zip code: 9004) 464. Barry Nates (zip code: 2607) 463. Barry Meehan (zip code: 2607) 464. Barry Roberts (zip code: 2607) 463. Barry Meehan (

22004 44 Darly materian (La) reads 21996/9435-8017 Walt nessatur (20) codd: 94066/468-864(UM MRI (La) codd: 90016) 465. Brad Walter (La) codd: 9276/466. Deborath (Loyns (La) codd: 45056) 467. Dominik Hauser (La) codd: 92030) 468. Brad Walter (La) codd: 926225) 469. Beverly Williams (La) codd: 45569 467. Dominik Hauser (La) codd 9470. Thomas Begrowicz (La) codd: 17602) 158 time to turn away from antiquated notions like drilling and pipelines and

focus on sustainable, long- term energy solutions. 471. Robert Basker (zip code: 80130) 472. Boo Boucher (zip code: 16828) 473. Barbara Bennigson (zip code: 94301) 474.

Bettina Bickel (zip code: 85302) 475. Babette Bruton Bruton (zip code: 33707) 476. Belle Sprague (zip code: 91709) 477. William Buss (zip code: 87048-

1185) 478. Brenda Cameron (zip code: 45240)

479. Mary E Campbell (zip code: 28759) stop this insanity 480. Betsy Maestro (zip code: 86325) 481. Brooke Crowley (zip code: 45220) 482. BC Shelby (zip code: 97214) 483, John Cairns (zip code: 19462) 484. Bruce Dassel (zip code: 49009) 485. Elizabeth Bogacz (zip code: 97239) 486. Barry De Jasu (zip code: 01351) 487. William Davis Davis (zip code: 37160)

488. Barbara Forauer (zip code: 05461) Please reject any gas pipeline that jeopardizes our climate goals or poisons communities in any way. Their installation is disrupting our wildlife, our homes and communities, our earth, our water

#### supplies.

489. Lori Smith (zip code: 92234)

490. B. and Gerry Manderscheid (zip code: 85715) We have unsafe pipelines crisscrossing the country and it's time to stop, to focus on clean energy instead of appeasing billionaires who line the pockets of our legislators. No more pipelines, PERIOD. Let's move into the future and concern for the safety of our planet, or do you haved a Planet B? Yesterday marked the day when the planet absorbed all of the carbons, toxins, etc. it can absorb for the year without moving us still closer to our destruction. For the love of God, stop worshipping money and start caring about saving the world. **491.** Nate Marino [zip code: 98226]

492. Beatrice Clemens (zip code: 63119) 493. Doyle Sebesta (zip code: 72701) 494. Jessica Rogers (zip code: 37075) 495. John A Beavers (zip code: 60625) 496. barbara schlitz (zip code: 94002) 497. Rebecca Brown (zip code: 95124) 498. Rebecca LaPrade (zip code: 27320) 499. Becky Bell-Greenstreet (zip code: 94759) 500. Rebecca Calhoun (zip code: 24201) Rebecca LaPrate (*up* code: 27320) 499. Becky Beil-Greenstreet (*up* code: 97459) 500. Rebecca Calhoun (*up* code: 27420) 1502. Rebecca Martia (*up*) code: 80120 (303. Beth Darlington (*up*) code: 27420) 504. Better Paradis (*up*) code: 272201) 502. Rebecca Martia (*up*) code: 80120 (303. Beth Darlington (*up*) code: 276201) 504. Better Paradis (*up*) code: 97640) 504. Better More (*up*) code: 97229) 510. Bendina Thore (*up*) code: 97230) 511. Benjamin Short (*up*) code: 97310 511. Benjamin Short (*up*) code: 97310 511. Benjamin Short (*up*) code: 97310 511. Benjamin Lashbaugh (*up*) code: 97240 512. Benjamin Joannou Jr (*up*) code: 97452) 515. Bernadette Fazio (*up*) code: 97450 520. Bernate Restrict (*up*) code: 97460 518. Bernathard Rossen (*up*) code: 97625 512. Benjamin Altores (*up*) code: 97625 512. Benjamin Code: 97630 512. Benjamin Code: 97673 516. Bernadette Fazio (*up*) code: 97630 520. Bernate Brinth (*up*) code: 37140 515. Karenad Rossen (*up*) code: 97632 510. Bernadette Fazio (*up*) code: 97630 520. Bernate Brinth (*up*) code: 37109 512. Laura Ann K BERNSTEIN (*up*) code: 10530) 522. Carlos

Barradas (zip code: 80224-2913) 523. Roberta Anderson (zip code: 60069) 524. Bruce Sadowskas (zip code: 19606) 525. Ronald Ratner (zip code: 57104)

526. Sherrie Rozniecki (zip code: 43015) What the Frackt 527. Bet Cecill (zip code: 03745) 528. Carrie Williams (zip code: 13008) 529. Elizabeth Walters (zip code: 60048) 530. Beth Bannor (zip code: 60302) 531. Beth Wallace (zip code: 37861) 532. beth lapides (zip code: 92262) 533. Beth Hawesd (zip code: 78666)

534. Elizabeth Stanoch (zip code: 53207) 535. Elizabeth Werner (zip code: 6514) 536. Betsy Germanotta (zip code: 02140)

 537. Betty Miller (*zip code: 80107*)
 538. BETTY BARNETT (*zip code: 60142-7898*) We have to stop thinking about today and start thinking about the impact this is having on our earth and on generations to come.

539. Nanda Coleman (zip code: 95130) 540. elizabeth armstrong kolodziejski (zip code: 33714-2621) 541. Betty Nogues Nogues (zip code: 94020)

542. Betty Palme (*sip code*: 45236) If the money spent on all these fossil fuel projects was spent instead on wind and solar power and the needed long. If the battery for storage, we would already be lossil fuel free. 543. Betty Trentlyon (*sip code*: 10011) 544. Beverly Farr (*sip code*: 33117) 545. Beverly Morris (*sip code*: 32931) 546.

Beverly Janowitz-Price (zip code: 85014) 547. Beverly Mitchell (zip code: 83709) 548. Beverly Thompson (zip code: 24430) 549. Laurel Beyrer (zip code: 92506) 550. Beverly Bradshaw (zip code: 24408) 551. Bette Feltham (zip code: 43311) 552. Ben F. Garcia, Ph.D.-ABD Garcia, Ph.D.-ABD (zip code: 80206) 553. Brian Fink Fink (zip code: 19130)

554. Barbara Fite (zip code: 33548)

555. Barbara Gaman (zip code: 94937)

556. Raymond Lampe (zip code: 30033)

557. Barbara Bonfield (zip code: 98407) 558. Brenda Cooper (zip code: 77019)

559. Robert Goings (zip code: 93265)

560. Brian Paradise (zip code: 32082) 561. Georgeanne Samuelson (zip code: 97463)

562. Pauline Haggerty (zip code: 94014)

563. Bob Hamburg (zip code: 19038)

564. Bhaskar Banerji (zip code: 94704)

**Companies/Organizations Comments** 

CO31 – Oil Change International (cont'd)

565. William Hcebsh (zip code: 49259) For the love of this planet, please stop with the fossil fuels and work harder for clean

## energy. 566. Brlan Henning (zip code: 55431) 567. Birgit HERMANN (zip code: 94117) 568. Brad Higgs (zip code: 66549) 569. Erica

Himes (*zip code: 33709*) 570. Barbara Hodik (*zip code: 28731*) We've got a history of short-term legislation to favor polluting energy industries and barely any history of long-term legislation to engage in renewable energy for a healthy environment in the future. We need to

start paying attention to long-term behavior to save the environment. 571. Beverly Holton (zip code: 20743) 572. Brian Hull (zip code: 49683) 573. vinaya alahan (zip code: 30721)

574. Blanca Benincasa (zip code: 20910)

575. Irv Balto (zip code: 54621)

 576. Elsbette Grove (zip code: 14590)
 577. Christiane Freer-Parsons (zip code: 85250) Instead of laying more pipe lines we should be actively working on renewal energy sources.

Crong you take S78, Jerry Bierens (zip code: 48320) 579. Adam D'Onofrio (zip code: 23803) 580. Patricia Cipolla (zip code: 07420) 581. Kevin Metcall (zip code: 60056) 582. Valerie Bigelow (zip code: 21030) 583. Mike Ruel (zip code: 96016) End fossii I nie subsidies. Its PAST TIME to NATIONALIZE to DIRTY, CORRUPTING energy

industries and MOVE ON to renewable CLEAN ENERGY

584. EDWARD G. MRKVICKA (zip code: 80004) 585. Stephen Appell (zip code: 11230) 586. Helen Schafer (zip code: 8889) 587. Bill Holt (zip code: 78736)

588. bill liddle (zip code: 12306) 589. William Steele (zip code: 55709) 590. William Hance (zip code: 19063) 591. Bill Russell (zip code: 59917) 592. Bill Russell (zip code: 30308) 593. William Schmidt (zip code: 44906)

594. Bill Leyrer (zip code: 98109) 595. Deborah Beck (zip code: NY) 596. Bill Couch (zip code: 30014) 597. Bill Deckhart (zip code: 19030)

59B. William Glickman (zip code: 06033) Storage of CO2 is not a good idea as it could be released by nuclear blast, mete hit, earthquake or terrorists. The only way to be safe from CO2 is not to burn fossil fuels for electricity and just use clean renewable energy from the sun, wind, and hydro (dams and wave).

599. Bill Hazel (zip code: 77459) 600. Bill Hilton (zip code: 94087) 601. Bill McLarney (zip code: 28734) 602. William Smith (zip code: 83651) 603. William C. Vohwinkle (zip code: 48458) 604. william wright (zip code: 45241) 605. Bill Christie (zip code: 85719) 606. Loretta Wrobel (zip code: 06278) 607. Littlebird Parks (zip code: 59911) 608. Birgit Sharp (zip code: 20779) 609. Brenda Amlashi (zip code: 01824)

610. Burton Jaffe [zip code: 02116] WE need to get tour UN pledge traduce CO2...,fracked gas is a hindrance to meeting our pledge. Renewables are what we need.

611. Bobb Akre (zip code: 52241) Please see the Bigger Picture of our children's future, beyond energy/profits. Thank you. 612. Brian Jay (*zip code: 68104*) And increased scrutiny of existing pipelines to ensure they do not leak, and are properly maintained and managed.

613. Betty Dunbar (*ip code: 34224*) This is just wrong, wrong, wrong! Clean energy only for the future.
614. Barbara Kopelman (*ip code: 60062*) 615. BLAIR MOSELEY (*ip code: 61259*) 616. BJ Novitski (*ip code: 97402*) 617.

Beth Jochum (zip code: 12156) 610. Bettemae Johnson (zip code: 87112) 619. Ben Johnson (zip code: 300823806) 620. Rohert Sapp (zip code: 65203) 621.

J Butler (zip code: 83836)

22. Brian Kelly (záp code: 19044) 623. Bob Kipka (záp code: 54975) 624. Rebecca Steinmetz (záp code: 44134) 625. Robert Black (záp code: 20855) 626. Kate Blair (záp code: 01070) 627. Richard Blain (záp code: 92592) 628. Cara Schwartz (záp code: 98106) 629. blanchard 1949@aol.com Blanchard (z/p code: 03842) 630. Patricia Blank (z/p code: 99827) 631. Elizabeth Bullock (z/p code: 60640)

632. Pamela Stewart (zip code: 95423) 633. Nancy Fomenko (zip code: 95135) 634. Lisa Brooks (zip code: 24401) 635. Barbara Kantola (zip code: 49120) 636. Joseph Bivins (zip code: 32751) 637. Kim Block (zip code: 07090) 638. Barbara Lothian (zip code: 92126) 639. Benita Smith (zip code: 94708) 640. Irena Franchi (zip code: 33160) 641. Rob Carroll (zip code: 75033)

642. Raven Vergara (zip code: 28078) 643. Mike Krouse (zip code: 44107) 644. Carol McMahon (zip code: 95667) 645. Suscn Shapiro (*zip code: 08215*) 646. Midori Furutate (*zip code: 1040*) 647. Lynne Preston (*zip code: 94107*) 648. Patti Windeknecht (*zip code: 37919*) 649. Carl Gendvil (*zip code: 10304*)

650. Bob Rushford (zip code: 11769) 651. Rick Hartley (zip code: 44485) 652. Constance Ruby (zip code: 33908) 653. Lisa Ann Kelly & Family (zip code: 93101) 654. T. K. McCranle (zip code: 92603) 655. Scott Blum (zip code: 45342) 656. Bradley Winch (zip code: 92333)

657. Barbara MacAlpine (ap code: 89517) 658. Bonnie Lynn MacKinnon (zip code: 78626) 659. Brunilda Betancourt (zip code: 32399) 660. Richard Jacobel (zip code: 39369) 661. Bonnie McElwy (zip code: 33604) 662. Brian Mertan (zip code: 31601) 663. Brent Foret (zip code: 71360) 664. Sue Slinit (zip code: 636216 656. Bwerely Foncia (zip code: 93679071)

666. Bernie Saftner (zip code: 15241) 667. Barbara Mueser (zip code: 80503) 668. Bill Munce (zip code: 92264) 669. Bonnie Weber (zip code: 11901) 670. Matthew A Weaver (zip code: 43430) 671. Bo Bergstrom (zip code: 88061) 672. Bob Schildgen (zip code: 94703) We simply don't need more gas or oil pipelines. We need clean energy, and pipelines

merely circulate dirty energy. 673. Robert Muller (zip code: 13335) 674. Robert Duckson (zip code: 92543) 675. Robert Roes (zip code: 02451) 676. Bob

Atwood [zip code: 96003] 677. Robert Burk Burk [zip code: 90024] 678. Barbara Gridley (zip code: 72903] We need to protect our Nation against abrogators that destroy our Nations Lands.

Waters, Air and Sea's! 679. Robert Fingerman (zip code: 37356) 680. Robert Carpenter (zip code: 44132) 681. Robert Clarke (zip code: 06798)

682. Thomas Brewer (zip code: 86004) 683. bob gunn (zip code: 93105) 684. Robert Balley (zip code: 48170)

685. Robert Mathews (zip code: 37027)

### CO31 – Oil Change International (cont'd)

686. Robert. D. Missimer. Jr. Missimer.
687. Bob Patterson ( <i>zip code: 35802</i> )
688. Bo Breda (zia code: 96778-8327)
689. Robert Snyder (zip code: 13212)
690. Robert H. Wilcox (zip code: 63130)
jr. (zip code: 19355)
691. Janet Robinson (zip code: 33433) No more pipelines and fracking in our communities. 692. Nancy Bauer (zip code: 60304)
693. Kathleen Sumida (zip code: 92120) 694. margo wyse (zip code: 88041)
Just how stupid are you?
695. Bonita Sierra (zip code: 32168)
696, Bonna ettic (zip code: 49768) 697, BONNEL (D.S. (six - and - and 2023(202)
697. BONNIE LONG (zip code: 908038608) 698. Bonnie Jean Brown (zip code: 26505)
699. Bonnie Andrus (zie code: 70433) Reject these pipelines for our country and for our children.
700. Bonnie McGraw (zip code: 95624) 701. Bonnie Odiorne Odiorne (zip code: 06708) 702. karen McCall (zip code:
27517) 703. Pete Barron (zip code: 97401) 704. Bonnie Shelley (zip code: 95409) 705. Faye Donovan (zip code: 19460) 706.
jennifer schongar (zip code: 03048) 707. Irene Huskisson (zip code: 72764) 708. ellen terry (zip code: 29407) 709. Pam
Borso (zip code: 98240) 710. Frank Glasser (zip code: 52577) 711. Ailsa Hermann-Wu (zip code: 02451) 712. Michael A Bourbina Jr (zip code: 39001)
713. Joan Bowers (zip code: 13905) 714. William Buring (zip code: 91786) 715. Jonathan Boyne (zip code: 96822) 716. Bob
Layton [zip code: 97201] 717. Bonnie Piestrak [zip code: 19067] 718. An anonymous signer [zip code: 61821] 719. Brad
Bennett (zip code: 12503) 720. Brady Watson (zip code: 37205) 721. Brandon Hall (zip code: 98354) 722. Barbara King
(zip code: 90029) 723. B Blume (zip code: 93555) 724. Bruce McGraw (zip code: 92104)
725. Rene Breier (zip code: 87219) No more fracking No more fossil fuels Keep it in the ground 726. Brenda Allen (zip code: 92040) 727. Brenda Lahm (zip code: 68017) 728. Brenda Michaels (zip code: 98027) 729.
726. brenda Aueu (26) code: 322/09) 727. brenda Laim (26) code: 36027) 726. brenda Muchaels (26) code: 36027) 729. Brenda Young (26) code: 350214) 730. Brent Rocks (27) code: 37207-6332) 731. Brett Dennison (26) code: 32640) 732. Brian
Ainsley Ainsley (zip code: 32714-1283)
733. Brian Fink (zip code: 11215) 734. brian mattson (zip code: 94947) 735. Brian Farrow (zip code: 94618) 736. Brian
Gingras (zip code: 02184) 737. Brian Long (zip code: 94121) 738. Brian Schwartz (zip code: 07076) 739. Brian Voglesong
(zip code: 08055) 740. Brie Gynciid (zip code: 98122) 741. Brie Atman (zip code: 03060) 742. Honora-Bright Aere Aere (zip code: 97326-9702) The point has passed when it can be allowed for pipelines to be built
742. ROBORTOFIEL ARE ARE ARE ALL STATUS (2) LOBE 773207702 THE POINT HAS PASSED WHEN IT CAN be allowed for pipelines to be ount and these substances disturbed in face of climate disaster.
743. Rick Brigham (zip code: 49406)
744. LIsabette Brinkman (zip code: workingfam)
745. Jade Brite (zip code: 90004)
746. Brittany App (zip code: 93422) 747. Barbara Nagy (zip code: 90503)
747, bar data (kag) (ap tode: 96365) 748, Bruce Robisson (zip code: 98366)
749. Virginia brobyn (zip code: 10025)
750. Frank Velasquez (zip code: 94335) Do we save our planet? Or do we watch it die all around us?
751. Brock Herren (zip code: 50266) 752. Bob Rolsky (zip code: 98392)
753. Bob McDonald (zip code: 90019) 754. Brooke Kane (zip code: 22101) 755. Mark Brooker (zip code: 60637) 756. Bill Rosenthal (zip code: 11374) 757. Jason Broslus (zip code: 14120) 758. Charles Brotman Brotman (zip code: 27613) 759.
Robert M. Brown (zie code: 21234)
760. Beatrice Simmonds (zip code: 10462) 761. Burton Steck Steck (zip code: 60618-6016) 762. Bruce Eggum Eggum (zip
code: 54128) 763. bruce fowler (zip code: 35016) 764. Vlk Leafe (zip code: 27106) 765. Bruce Rhoades (zip code:
60515) 766. Bruce Bennett (zip code: 94044) 767. Bruce Cratty (zip code: 80210) 768. Bruce Harvey (zip code: your zip
c/ 769. Bruce Krawisz Krawisz (zję code: 54449-6000) 770. Bruce Lowrey (zję code: 64055) 771. Bruce Olson (zję code: 6405
66213) 772. Bruce Ross (zip code: 77449) 773. Nelleke Bruyn (zip code: 46260) 774. Bryan Bennett (zip code: 30144)
774. Bryan Bennett (zip code: 95136) 775. Bryce verdier verdier (zip code: 95136)
776. Bryna Fuchslocher (zip code: workingfam)
777. Sandra Thompson (zip code: 97703)
778. Barbara Schnubel (zip code: G6W1XS)
779. Barbie Scott (zip code: 97219) lust this simple: No Fracking. 780. Robert Gates (zip code: 01960) 781. bov sigmund (zip code: 31406) 782. Bret Sher (zip code: 60061) 783. Bruce
Spring (zip code: 90065) 784. Shirley Pullen (zip code: 63935) 785. Bruce Stotts (zip code: 80525) 786. Beulah White (zip
code: 45044) 787. Betty Cohen (zip code: 49006) 788. Barbara Tucker (zip code: 33414) 789. David Brame (zip code: 51652)
790. Ken Bechtel (zip code: 80503) 791. Deborah Chill (zip code: 92398) 792. Lin Tumin (zip code: 98446)
793. Therese DeBing (zip code: 93950) 794. Bob Sherwood (zip code: 07803)
795. Thomas Delegal (zip code: 32207) 796. DOLORES K (zip code: 66215) 797. Roslyn Jones (zip code: 92506) 798. Jamee
Warfle Warfle (zip code: 28704) 799. Joe Lampka (zip code: 32003) 800. Hiedi Tan (zip code: 60108) 801. Arthur Schurr (zip code: 11201) 802. Marie Jensen (zip code: 10024)
600. Theur ran (2) cours 50100 for Arthur stuar (2) cours 11201 for a mark penseu (2) cours (1023) 803. Sherry Miller (2) cours 4675) Stop allowing gready gas companies to steal hard working families homes and allowing
them to put compressor stations and gas plants near our schools! One day soon it will be too late to save our climate and our
children stop the greed - start the green!
804. Sharon Burge (zip code: 97306) 805. s l (zip code: 33401)
003.51 (21) LUI (21)

#### CO31 – Oil Change International (cont'd)

806. Kathryn Burns (zip code: 90620)

807. John Burridge (z/p code: 02914) I am a retired chemical engineer well acquainted with the problems. 808. Lawrence Turk (z/p code: 28793) 809. Howard Rouser (z/p code: 33161) 810. David Butler (z/p code: 61802) 811. Jane Butler (zip code: 25427) 812. Kevin Hunter (zip code: 84116) 813. Leuise Crumble (zip code: 60624) 814. bruce veldey (zip code: 92201) 815. William Von Zangenberg (zip code: 34685) We don't need more possible spills. Let's move forward to clean energy 816. Brian Smith (z/p code: 94530) 817. Barbara Waksman (z/p code: 04742) 818. Bonita Weis (z/p code: 1060) 819. William Welkowitz (z/p code: 22202) 820. Bruce White (z/p code: 95067) 821. Betsy Wolf (z/p code: 87571) 822. BENNIE WOODARD (zip code: 33881) 823. Heidi Brugger (zip code: 81321) 824. Byron Pierce (zip code: 17327) 825. Cat Ransom (zip code: 86326) 826. Chartis Tebbetts (zip code: 02025) Pipelines that service fossil fuels must not be built. Renewable sources need encouragement and the support of the government/people. Fracked gas is dangerous to the neighborhoods that it will travel through, and to our climate and future generations. There are plenty of jobs to be created by keeping this gas in the ground building the infrastructure for wind solar and bydro, for instance! 827. Charles Mullen (zip code: 44718-1070) 828. c lascala (zip code: 91942) 829. Colleen Lenhan (zip code: 98305) 830. Gordale Brown (*in factors*, 497,197,097,062, Cassaa (*in cole*, 1972,)627, Content Lemina (*in factors*, 6982, 933, 983, B31, Carol Rahbari (*in code*, 698197) 832, Carlos Cabeznd (*in code*, 29143) 833, Carol Cook (*in code*, 94402) 834, Catrol Rahbari (*in code*, 18197) 832, Carlos Cabeznd (*in code*, 2973) 836, Rande Mandelbatt (*in code*, 94402) Carroll Dartez (zip code: 77057) 838. Carol Devoss (zip code: 60174) 839. meade cadot (zip code: 03449) 840. Elaine Ciardello (zip code: 32502) 841. Sheila Suarez (zip code: 91320) 842. Ian Marshall (zip code: 91030) 843. Diane Calkins tan went (24 solit = 2005) (wr. Stena dui e z (pr. 1/22) (942, faith Marshall (24 solit) (942, faith Marshall (25 solit) (942, faith Marshall (25 solit) (943, 852. Camilla Bowman [zip code: 46052] Let's get into the 21st century and get away from these pipelines. We can do better with clean energy--solar, wind, biomass. This is the time. Let's take it. 853. Camille Hall Hall (*zip code: 97330-9118*) 854. Camille Jackson (*zip code: 97005*) 855. Barbara Campbell (*zip code: 77662-4816*) 856. Bonnie Mitchell (*zip code:* 27231) 857. Richard Blakemore (*ap cole: 9532)* 953. Burline Competence (*ap cole: 9721*) 859. Candy Bowman (*zip cole: 9522*) 1931. B60. Candace Batten (*zip cole: 9031*) 861. Candace Rocha (*zip cole: 9031*) 862. Candace LaPorte (*zip cole: 9031*) 861. code: 98315) 863. Candra Neff (zip code: 95370) 864. Candy Rocha (zip code: 90033) 865. Diana Sheen (zip code: 04530) 866. Karen Pike-Roberts (zip code: 13440) 867. Cheryi Williams (zip code: 60543) 868. Candice Barnett (zip code: 90405) 869. Carol Miller (zip code: 20158) 870. C Frantz (zip code: 95628) 871. Maria White (zip code: 97007) 872. Joan Noto Job A Lander (ap concerning) (ap concerning (ap concerning) (ap concer Waters, Air and Sea's! 876. Phil Tompetrini (zlp code: 34442) 877. Catherine Rivera (zlp code: 33418) 878. Virgnia Caraco (zlp code: 29020) 879. Carol Fly (zip code: 78727) 880. Carina Chadwick (zip code: 91107) 881. Carole Knoles (zip code: 97365) 882. Carl Grenadier (zip code: 48025) 883. Carl Kaiserman (zip code: 32951) Keep it in the ground 884. Carla Bloom (zip code: 49685) 885. Carleen Greenman (zip code: 24059) 886. F. Carlene Reuscher (zip code: 92626) 887. Carl Green (zip code: 74462) 888. Patricia Carlton (zip code: 87505) 889. Carol Ducey (zip code: 91107) I know you're not listening because you continue to build these pipelines in the face of continued " accidents " that have caused thousands of lives to be disrupted and the health of as many to be affected. I'm writing because I'm hoping that this round of emails will stir that unfamiliar feeling for the welfare of the citizens of this country. Concern that is greater than the desire for profits . Carol Maghakian (zip code: 29588) 891. Carol Patton (zip code: 94708) 892. Carol Savary (zip code: 94131)
 Carol Lind (zip code: 94117) 894. Carol Woodruff (zip code: 07005) 895. Carole McElhannon (zip code: 30605) 695. Carole Mark (up code: 6021) for set of the administration of an oligarchy. Now, we are placing big business but we can encourage renewables and create jobs at the same time and in the end continue our life on earth. 897. Carol Gold [zip code: 94930] 898. Carol Gottesman (zip code: 44425) 899. Carol Hinkelman (zip code: 14616) 900. Caroline Wallace (zip code: 29412) 901. Carol J. Loomis (zip code: 97233) 902. Caroli Marston (zip code: 06234) 903. Carol Myers Myers (zip code: 11572) 904. Carol Roberts (zip code: 93086) 905. Carol Rovce (zip code: 06810) 906. Carol Newman [zip code: 97102] 907. Carol Wyndham (c) (2003) Carol Wolf Carol May (c) (2013) Carol May (c) (2013) Caroly J. Ridpath ridpath (zip code: 9562) 910. Carolyn Yaughan (zip code: 3585) 968. Carolyn J. 911. Carolyn Moser (zip code: 55749) There have been too many pipelines exploding and Guusing sever personal and property damage. Stop approving gas pipelines which cause devastating damage and climate impact 912. Carrie Darling (zip code: 85022) 913. A. McDonald (*zip code: 86336*) 914. Carroll Campbell (*zip code: 39531*) 915. Ann Carroll Henry (*zip code: 97034*) 916. Kevin Carroll (*zip code: 86826*) 917. Carson Montethi (*zip code: 27609*) 918. Marian Carter (*zip code: 97031*) 919. Carrol Walker (*zip code: 02152*) 920. Carrol Cowin (*zip code: 91361*) 921. Carrol Deter (*zip code: 4366*) 922. Carro Grave

Carlo (ap code: 94702) 923. Andrew Gutierrez (zip code: 94707) 924. Casey Danson (zip code: 90049) 925. Charles Wieland (zip code: 94583) 926. Cassandra Zampini (zip code: 9139) 927. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Zampini (zip code: 94583) 927. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Zampini (zip code: 94583) 927. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94583) 926. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94584) 927. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94584) 928. T. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94584) 928. T. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassidy (zip code: 94584) 928. T. Cassandra Bogue (zip code: 30088) 928. T. Cassidy Cassady (zip code: 94584) 928. T. Cassandra Bogue (zip code: 30088) 928. T. Cassady (zip code: 94584) 928. T. Cassandra Bogue (zip code: 30088) 928. T. Cassady Cassady (zip code: 94584) 928. T. Cassady (zip code Sector 3000/ Educational a Lamping Laplocate. 257(5) 3927. Cassantia a bugue (ap Cuee: 30009/2061. Lassady Lassady Lassady Cassady Cassady Cassady Lassady Lass Lassady Las

#### CO31 – Oil Change International (cont'd)

this is wrong 938. micheal stewart (zip code: 48433) 939. Cathi Woodward (zip code: 80401) 940. Gordon Illg (zip code: 80228) 941. Catherine Whiteside (zip code: 77450) 942. Cathy Nelson (zip code: 07010) 943. cathy strickler (zip code: 22801) 944. sandra l lawrence (zip code: 78028)

945. Kathleen Maher (zip code: 07712) Please stop enabling the dying fossil fuel industry. They are determined to squeeze out every last cent of profit no matter how many deaths they cause. 946. Cecelia Nelson (zip code: 32763) Guess WE won't be happy till WE DESTROY the AIR, LAND, WATER... The EARTH & all

Globalin INNOCENT animals) of us... SHAME ON US.
 947. jeanne sheats (zip code: 15239) 948. Lynne C. (zip code: 27529) 949. Linda Smith (zip code: 97537) 950. Charles

Banks (zip code: 91356) 951. Carol Barre (zip code: 28412) 952. Carol Raschick (zip code: 80701)

953. Carmen Druke (zip code: 77008) 954. Connie Jones (zip code: 30316) 955. Cara Morris (zip code: 11104) 956. C. Bower (zip code: 85715)

957. C DeBeer (zip code: 08055) 958. Suzanne Smith (zip code: 95476)

959. Charles Brexel Sr. (zip code: 30188-3558) \* As of 6/13/16, according to a new forecast by Bloomberg New Energy Finance, the use of nat gas, coal and oil will be in a terminal decline by 2025 and "There will be No Golden Age of Gas. \* According to data from same forecast, by 2027, 'building new wind farms and solar fields will often be cheaper than running the existing coal and gas generators." \* Given above three points and more info, it is extremely imprudent and harmful to waste money on fracked gas pipelines and

nat gas power plants. \* In 2015, about 90% of all installed, new electrical power in world was solar and wind power. \* Trends are perfectly clear that

world is now, quickly, installing only solar and wind. 960. Craig Brown Brown (zip code: 55431) 961. Carol Taggart (zip code: 94025) 962. Connie Colvin (zip code: 11369) 963.

Crista Doty (zip code: 94928) 964. Costa Chitouras (zip code: 2144)

965. Chrissy Hoffman (zip code: 94705) No more gas/oil pipelines! Stop building them today! Anyone who tries has been purchased by big oil!!

966. Clarice Corell (zip code: 94110) 967. Charles Cotter (zip code: 27042) 968. Clyde Williams II (zip code: 97267) 978. Cecelia McCarty (zip code: 92128) HOW MANY TIMES DO WE HAVE TO TELL YOU - NO MORE FRACKING, NO MORE PIPELINES AND NO MORE BOMB TRAINS???

979. Cecelia Samp (zip code: 60176) 980. cecile leneman (zip code: 94704) 981. Cecilia Brown (zip code: 94611) 982. Oceanah D'amore (zip code: 97540) 983. Caolan Eder (zip code: 22181)

Geenlan D andre (Lap Cone: 57-36) 7963. Calcan Lufe (20 Cole: 22163) 984. Christine Smith (zip code: 39263) 985. Charlotte Gallardo (zip code: 96631) 986. Charles Jenkins (zip code: 37830) 987. Cella Kutcher (zip code: 32624) 988. Cella O Kelley (zip code: 3661) 998. Cella Calmilli (zip code: 1028) 990. cerio ellas (zip code: 3662) 991. Deb Keegan (zip code: 54703) 992. Mary

Cellucci (zip code: 19008) 993. Claude Cernuschi (zip code: 02467) 994. Theresa Shiels (zip code: 94019) 995. Carol Steinhart (zip code: 53726) Pipelines break. Pipelines spill. Pipelines encourage further production of climate-

destroying fuels that we dare not use. We should not build any more pipelines. Ever. 996. Edith Trygstad (zip code: 58104) 997. Cheryl Fahlman (zip code: 20879) 998. Charles Feldman (zip code: 02903) 999.

Colleen Ingerman (zip code: 08046) 1000. carl fischer (zip code: 35226) 1001. Chuck Fisher (zip code: 94611) 1002. Catherine Noyce (zip code: SP2 8JP) 1003. Clndy Spoon (zip code: 76207) 1004. patricia a locke (zip code: 75901) 1005. Charles Happel Happel (zip code: 46224) 1006. Christina Hoagland (zip

code: 81501) 1007. Gayle Janzen (zip code: 98133) It is appalling that the US govt pretends like it wants to curb climate change, yet over

and over again it continues to help the fossil fuel industry frack, drill and mine everywhere. Putting in dozens of gas pipeline across the eastern US would be yet another giveaway to the gas industry as it would encourage more and more fracking while putting hundreds of communities at risk of exploding gas

pipelines. GAS IS NOT A CLEAN ENERGY, so please quit trying to increase this dirty, toxic industry. If you really think fracking is benign, then you'd be more than happy to live right next to a fracking site, correct??

1008. christine gladish (zip code: 91024)

1009. Carol Gloor (zip code: 61074) Permits should be going to solar and wind facilities, and environmentally sound river dams, not to pipelines with the last squeezed fossil fuel running through them. What will our children think, never mind our grandchildren? 1010. robert ostrow (zip code: 27278) 1011. Charlie Graham (zip code: 97124) 1012. Margaret Gyuro (zip code: 85730)

1013. Chad Leming (zip code: 70114)

1014. Stephen Dempsey (zip code: 19330-1773) 1015. john seeburger (zip code: 98501) 1016. Joyce Harvey (zip code: 27856) 1017. Charles Huber (zip code: 21157)

1018. Corinne Italiano (zip code: 11563) 1019. Charleen Steeves (zip code: 90290) 1020. Christopher Aycock (zip code: 94116)

1021. Charlene Woodcock (zip code: 94709-1315) When we know it is the mining, transport, and burning of fossil fuels that drives climate change, we must CEASE to facilitate the oil corporations' destruction of our habitat. No more oil/gas pipelines! 1022. Charlene Davies Davies (zip code: 99201) 1023. Charles Byrne (zip code: 60540) 1024. Charles Olmsted (zip code: 80634)

1025. Charles Price (zip code: 07002) 1026. Charlie Burns (zip code: 6850)

1027. Charles Berger (zip code: 80503) Wanting a future for my grandchildren. Thank you.

1028. Charlie Bergstedt (zip code: 94133)

1029. Charlie Donnes (zip code: 59101) Between the groundwater damage caused by fracking, transportation dangers, and the climate change accelerated by burning the fracked gas, any fracked gas facilitation is unconscionable

#### CO31 – Oil Change International (cont'd)

1030. Charlotte Sutherland (zip code: 98007) 1031. Charlotte Vardan (zip code: 90028) 1032. William Koch (zip code: 97330) 1033. Eric Schelhagen (zip code: 75229) 1034. Charles Gilliland (zip code: 32821) 1035. Elliot Chase (zip code: 80220 1036. Carol Hatfield (zip code: 46227) 1037. Noel Crim (zip code: 85375) 1038. Claudia Heilke (zip code: 46304) 1039. Cheryl Young [zip code: 75206) 1040. Cherle Warner (zip code: 99163) 1041. Cheryl Bourguignon (zip code: 59802) 1042. Cheryl Whittaker whittaker (zip code: 19348) 1043. Cheryn English (zip code: 93109) Also, no taking of private citizens land by eminent domain. 1044. Deanne Swaringen (zip code: 63389) 1045. Carmen Andrews (zip code: 33027) 1046. Chester Gustalson (zip code: 55340) 1047. Chester Mahan (zip code: 4772) 1048. Mark S Smith (zip code: 30328) 1049. Chestan Warner (zip code: 63126) 1050. Cherri Cowan (zip code: 80538) 1051. Ed Covington (*zip* code: 77584) 1052. don wiltsie (*zip* code: 12477) 1053. Chip Sharpe Sharpe (*zip* code: 95524) 1054. Andrea Chisari (*zip* code: 32780) 1055. Chioe Barbier (*zip* code: NW10 1005. Chip that by Chip code: 30287 Sector Marca Chiban Carlo C 1064. Chris Monti (zip code: 44039) 1065. Christopher Ebert (zip code: 94708) 1066. Christopher Miller (zip code: 33574) 1067. Chris Dietrich (zip code: 9517) 1068. chris boernke (zip code: 98244) 1069. Chris Worcester (zip code: 96160) 1070. Chris Leacock (zip code: V85 5B3) 1071. chris danne (zip code: 32608) 1072. Christopher Long (zip code: 92592) 1073. Chris O'Connell (zip code: 50640) 1074. Chris Unite (ap code: 52606) 56150) 1075. Christopher Riff (zip code: 60657) 1076. christel bel (zip code: 21403) 1077. Chris Evans (zip code: 80020) 1078. Christiane Meyer (zip code: 83709) 1079. Christianna Nelson (zip code: 11217) 1080. Christine Macpherson (zip code: 12018) 1081. Christine beaudry (zip code: 02453) 1082. Christopher Riti (zip code: 80218) 1083. Christopher Sessa (zip code: 85202) 1084. Christopher Loch (zip code: 55405) 1085. Chris Scholl (zip code: 07753) 1086. Christopher Tuch (zip code: 07830) 1087. Christy Anderson (zip code: 97213) 1088. Chris Schmitthenner (zip code: 20659) 1089. I Wyatt (zin code: 97814) 1090. Chrystal Schivell (zip code: 08540) 1091. Charles Gaulke (zip code: 53029) 1092. Chuck Aragon (zip code: 94550) 1093. Charles Bouscaren (zip code: 92398) 1094. Charles Ellenberger (zip code: 98031) 1095. Louise Quigley (*zip* code: 02184) 1096. Charles Levin (*zip* code: 02184) 1096. Charles Levin (*zip* code: 1027) 1097. Chuck Massoud-Tastor (*zip* code: 13413) 1098. Chuck Oatman (zip code: 17518) 1099. Jean Chun (zip code: 90045) 1100. Carrie Mullen (zip code: 10962) 1101. Anne Henry (zip code: 34210) 1102. cindy curran (zip code: 04008) The planet is already too warm...stop this madness 1103. Dr. C. Grace (zip code: 95501) 1104. Lucinda Utesch (zip code: 80241) 1105. Clndy Bushway (zip code: 34953) 1106. Cynthia Campbell (zip code: 13320) Fracked gas is not the bridge to the future it is a very costly mistake 1107. Cindy Lance (zip code: 96822) 1108. Cindy Mannhalter (zip code: 85123) 1109. Citaly Eichacker (*zip code: 1312*) 1109. Citaly Eichacker (*zip code: 1172*) 1110. Cynthia Wuerth (*zip code: 47630*) 1111. Carolyn Harding (*zip code: 43209*) 1112. Cinzia Paganuzzi (zip code: 90405) 1113. Charlene Perry (zip code: 28805) 1114. Charles Comer (zip code: 22842) 1115. C.Jean Boomershine (zip code: 50322) 1116. Courtney Stefano (zip code: 10805) 1117. Colleen & Joe - Working Families OMeara (zip code: 55411) 1118. Rita Salner (zip code: 92284) 1110. Kital Salmer (ap (oue: 52204) 1119. Carol) Junczewski (2p oue: 60546) There need to be brakes put on all these pipeline projects! 1120. Cheryl Kallenbach (2ip code: 83555) Fracking pollutes ground water - proven fact. Fracking causes earthquakes - Ask Oklahoma. Fracked gas adds to global warming - no questions there. So - you want to tell me again why you are thinking about approving any more pipelines ?? ? 1121. Clinton Chamberlain (zip code: 75224) 1122. Chad Johnson (zip code: 90806) 1123. courtney keppelman (zip code 92651 24201/ 1124. Cyndi Kerr (zip code: 34207) Stop this insanity - how anyone thinks fracing is safe is beyond me. The process literally will tear this planet up and cause inhabitable conditions on this earth. 1125. Cynthis Rester (zip code: 63142-1608) 1126. Charles Keuler (zip code: 54130) 1127. Kevin Grady (zip code: 22980) 1128. Art Stroede (zip code: 53216) 1129. Carol Klekow (zip code: 56069) 1130. Carol Kodner (zip code: 3520) 1133. Charleen Kubiota (zip code: 35216) 1132. Claudia Kuehn (zip code: 1959) 1130. Carol Kuehper (zip code: 3559) 1131. Charleen Kubiota (zip code: 9461) 1132. 1135. Claire McCowan (zip code: 1959) 1130. Carol Kuehper (zip code: 3402) 1134. Claire Hall (zip code: 14564)

I plan to get rid of all my gas appliances because I'm that opposed to fracking. 1137. Clairone Delaney (zip code: 20708)

#### CO31 – Oil Change International (cont'd)

1138. Christina Lane (zip code: 80123) As a Colorado resident, I see how quickly fracking wells are going up and it reminds me how little the industry is regulated. I avoid living in areas where I know the gas and chemicals used can contaminate drinking water and feel horribly for those who live near wells. In 2016, United States citizens should not have to be thinking about where they are living because of the possibility of contaminated water. Lastly, the constant expansion of pipelines is

taking away the rights of too many people for the profit of too few. 1139. Barbara Clark (zip code: 55127) 1140. Clark Peters (zip code: 06340) 1141. Ted Clark (zip code: 30507) 1142. Jude

Clark Warnisher (zip code: 93402) 1143. Claude Guillemant (zip code: 21093) 1144. (Laude Lingen (zip code: 78745) 1145. Claude Richner (zip code: 64089) 1146. (Lardyn Massey (zip code: 62301) 1147. Joint Cal Cal (zip code: 78661) 1148. (Cartchen Cals (zip code: 98227) 1149. MarxyAnn Nellis (zip code: 18237) 1150. Carol Blaney (zip code: 92373) 1151. Christopher Lee (zip code: 60626-2676) 1152. James Cleek (zip code: 75081) 1153. Bruce L Wallace Wallace (zip code: 92084-4207) 1154. robert clemens (zip code: 11558) 1155. Richard Clemens

(a) data the second state of the second sta new pipelines for carbon fuels, it is knowingly thwarting this necessary climate protection. Therefore, FERC is wantonly abetting carbon energy companies to control the energy supply while endangering life on the planet. FERC is a rogue agency.

1157. Clive Smith (zip code: 07901) 1158. Cindy Moeckel (zip code: 06278) 1159. Carol Neill (zip code: 66223) more fracking = more pollution + more earthquakes!

1160. George Summers (zip code: 98144) 1161. Don Cloud (zip code: 34235) 1162. Lawrence Lintner (zip code: 33954) Stop poisoning our water and land 1163. Lawrence Lintner (zip code: 33954) No more fossil fuels!

1164. Chris Lumpkin (zip code: 22401) 1165. Wendi Myers (zip code: 34683) 1166. Charlene Maker (zip code: 02837) 1167. Cristina Malconison (zip code: 04103) 1169. Charles Marslett (zip code: 78660) 1169. Claudia Martins (zip code: 3015) 1170. Cheryl McColley (zip code: 5371) 1171. Colleen mwilliams (zip code: 78660) 1169.

1172. Clare Deucher (*zip code:* 01430) It is time that FERC stopped working for oil/gas company interests, and started representing the needs and desires of the nation's citizens.

1173. Carol DiPirro (zip code: 03054) 1174. Christopher Ware (zip code: 94539) 1175. Cynthia Merkey (zip code: 34476) 1176. Christine Harris (zip code: 48152)

1177. Constance Mitchell (zip code: 28804) Let's quit the gas business and focus on renewables! Too many dangers with getting, moving and using fossil fuels. Period! 1178. martin niemi (zip code: 99824) 1179. Carol Mock (zip code: 94536) 1180. Cindy Moczarney (zip code: 60707)

Charles Mental Mental (2017) (2

33433) 1186. Matthew Franck (zip code: 08904) 1187. Lowell Huber (zip code: 54732) 1188. Suzanne Pruden (zip code: 98465) 1189. Jean G. Cochran (zip code: 91767-2075) 1190. Courtney England (zip code: 77043) 1191. Marcia Halligan Halligan (zip code: 54665) 1192. Elan Morin (zip code: 97477)

1193. daniel cohen (zip code: 11360) 1194. Carolyn Kendall (zip code: 17543) 1195. Steve Coker (zip code: 90034) 1196. Paul Cole (zip code: 33460) 1197. Colette Slade (zip code: 48103) 1198. Colin Fiske (zip code: 95519) 1199. Colin Kay (zip code: 60477) 1200. Jason Fish (zip code: 95355)

T201. Colleen McMullen (zip code: 84741) 1202. Colleen Carter (zip code: 91387) 1203. Collin Rees (zip code: 68845) 1204. Richard Kite (zip code: 12345) 1205. Judy Price (zip code: 43614)

1206. Joyce Cotter (zip code: 30033) 1207. Johni Prinz (zip code: 98520) 1208. Paula Neville (zip code: 14626-1345) 1209. ronald brown (zip code: 80501-5504) 1210. KM Smith Smith (zip code: 46256)

1211. LuMarion Conklin (zip code: 86005) Have you heard those in power to make change??? Science tells us Global

Warming needs immediate attention if we intend to survive the life, on this beautiful planet, that we have been accustomed to. 1212. Constance Lombardo (zip code: 28806) 1213. Constance Engle (zip code: 28739) 1214. Constance Fiske (zip code:

59634) 1215. Bruce Blackwell (zip code: 32608) 1216. Patty Martin (zip code: 78633) 1217. Joy & Mike Cook (zip code: 30143) 1218. robert luke (zip code: 95603) 1219. Joelle Cooper (zip code: 13042) 1220. Katherine Cooper (zip code: 45385)

1221. Carolyn Cooper (zip code: 19138-2115) 1222. Ann Davldson (zip code: 60613) 1223. Patty Corbett (zip code: 59801) 1224. Bruce Smith (zip code: 48216)

1225, Johanna Miller (zip code: 29455) 1226. Corrine DiMarco (zip code: 32812) 1227. Corinna Hasbach (zip code: 89502) 1228. Constantine Bogios (zip code: 94597) 1229. Gérard COUCHOUD (zip code: 91120) 1230. Sammy Low (zip code: 982923

1231. mike schuster (zip code: 98244) 1232. John Coughlin (zip code: 60546) 1233. Brad Davis (zip code: 25438) 1234.
William Sosa (zip code: 93033) 1235. Yves Decargouet (zip code: 95458) 1236. Dick And Muriel Cowing (zip code: 97267) 1237. Carol J. Painter (zip code: 14850)

1238. Carole Pappas (*ap code: 48439*) 1239. Carol Pennington (*zip code: 78652*) 1240. Chas Griffin (*zip code: 27376*) 1241. Carol Plantamura (*zip code: 92121-1905*)

1242. donald taylor (zip code: 95628) 1243. Cynthia Loewy (zip code: 11104)

1244. Christine Popowski (zip code: 55408) 1245. carole gathman (zip code: 94949)

1246. Craig Provost (zip code: 84103) 1247. Conrad Prybe (zip code: 60631)

1248. Phillip J Crabill (zip code: 75068)

1249. Craig James (zip code: 80004) Enough!

#### CO31 – Oil Change International (cont'd)

1250. Craig Parker (zip code: 76137) 1251. Craig Officer (zip code: 60649) 1252. Dr. Craig Coelho Coelho (zip code: 02915) 1253. Craig Peariso (*zip* code: 8370) 1254. Carina Ramirez (*zip* code: 79907) 1255. Lawrence altman (*zip* code 02141) 1256. Cynthia Bauer (*zip* code: 15229) 1257. Kurt Haumesser (*zip* code: 85712)

255. Robert Elliot (*Jp*: orde: 1022) 1257, Nat Trannesset (*Jp*: Orde: 25712) 1258. Robert Elliot (*Jp*: orde: 89109) like all addicts. Americans need to stop living in denia & stop using their substances of choice & we MUST force ourselves to make the break from fossil fuel to alternatives, post haste. 1259. Sandra Lynn (*Ip*: orde: 78620) 1260. Chiby Cretser (*Jp*: orde: 95589) 1261. Kathleen Cridge (*Jp*: orde: 95975)

1262. Colleen McGlone (ap code: 3455) 1263. Dena Radley (ap code: 24590) 1264. F Cronshaw (ap code: 37059) 1265. Clare kosenfield (ap code: 3053) 1266. Boh Haugen (ap code: 55422) 1267. C S (ap code: 10025) 1266. Casis Saverino (ap code: 3530) 1266. Our Sayers (ap code: 3072) 1270. Carol Berkowitz (ap code: 3349) 1271.

Cyprience Schroeppel (zip code: 98303) 1272. Cheryl Rawson Rawson (zip code: 98116) Do the right thing--Stop shilling for these greedy corporations that have suppressed clean energy for over 100 years. They have destroyed the planet, bought off politicians and change is imperativeembrace it!

enanata no in a strategic strateg

1277. Carolyn Summers (zip code: 10706) 1278. CT Bross Bross (zip code: 94597) 1279. Chris B. (zip code: 90746) 1280. Christine Telega (zip code: 32110) Please stop this. The sooner we start working on other ways of producing energy the better There

are jobs that will be created and a whole new industry that will require supply businesses and other forms of employment. We should be moving FORWARD, not back into the 18th century. Our land and water is finite.

1281. CYNTHIA FEINBERG [zip code: 72227] 1282. Craig Todd [zip code: 45324] 1283. Calum Traveler [zip code 80401] 1284. Dr William M Smith Jr [zip code: 33042] 1285. Victor Vuyas [zip code: 94109]

1286. Carmen Redding (zip code: 21206) 1287. Marcia Curry (zip code: 78641) 1288. Curtis Eckstein Eckstein (zip code: 54311)

1289. Curtis Hageland (zip code: 98221) Fighting the climate crisis will cost billions. Failing to fight the climate crisis will cost untold trillions, and billions of people will die. Our Earth will suffer unimaginably, important and iconic animal species will become extinct, our descendants will revile us for doing nothing while our only home burns. DO SOMETHING, NOW!

Decome examit, Gon descritanta e winner des do i douis junction y mine dor my more dorms. Do Some Firito, NOVI 1290. Anna Cashiman (zip code: 49024) 1291. Vic Burtion (zip code: 6413) 1292. Caroline Dulley (zip code: 37209) 1293. Catherine OBrien (zip code: 37145) 1294. Lynn Armstrong (zip code: 94530) 1295. Carrie Walker (zip code: 5301) 1296. Chris Washington (Washington (zip code: 10019) 1297. Wesley Wolf (zip code: 60010) 1298. Christine Wight (zip code: 1024)

Stop the non-renewable nonsense. It is entirely unethical. It represents a bunch of hoodlums ignoring worldwide goals and agreements for which we are accountable. I'm not speechiess, I am insulted at the insufferable audacity of immature govt actions. Stop it.

1299. Conrad Willeman (zip code: 01950-3124) 1300. Christopher Wilson (zip code: 05150) 1301. Celeste Winterberger (zip code: 27616) 1302. Sandra Boylston (zip code: 32773)

Carlos J. J. La Carlos J. J. Santa Buyes and Buyes an 56101) 1312. Don Bush (zip code: 90066) 1313. Dacia Murphy (zip code: 85295) 1314. Dwight Cope (zip code: 37694) 1315. Deb Fritzler (zip code: 24521) 1316. Dagny SanMiguel (zip code: 95815) 1317. Karen Dahn (zip code: 45701) 5.36) Table Lebertine (Laprode: 9352) [1316. Dagny salimitikus (2p code: 3563) [317. Kareh Dani (2p code: 45/07]) 1316. David A Lawrence (ap code: 97560) 1319. Norman Haussner (2p code: 31630) 1320. Dale Lacognata (2p code: 45/07) 46256) [321. Dale Lacognata (2p code: 46030) 1322. Dale Mattock (2p code: 35065) 1226) 1323. dave alexander (2p code: 96766) 1324. Dale Mattock (2p code: 35065) 1226)

1326. Dalton Valerio (zip code: 87107) 1327. Doug McGee (zip code: 98204) 1328. Laura Dame (zip code: 12983) 1329. Dennis Nagel (zip code: 80304) 1329. Dennis Rager (*zip code: 80504*) 1330. Dan Streiffert (*zip code: 96030*) 1331. Dan Brennan (*zip code: 07073*) 1332. Dana Beck (*zip code: 74631*)

1333. Lilli Ross (zip code: 10024) 1334. Mark Peltan (zip code: 48035)

1335. Sandy Rasich (zip code: 87507) No more leaky pipelines, exploding trains, fracked water supplies, leave it in the ground.

1336. Robert Bruckman (zip code: 19380) 1337. Debra McCullough (zip code: 60563) 1338. Ann Distin (zip code: 00000) I am so concerned about the change in the weather we are already experiencing and feel that this whole projects *boowly* of antity of the safety can be assured and further investigation into free energy is looked at more thoroughly 1339. Daniel Wilkinson (*zip code: 90800*) 1340. kay morgan (*zip code: 9814*) 1341. Daniel Freese (*zip code: 5547*) 1342.

Dan Dowdall (zip code: 96761) 1343. Daniel Schlagel (zip code: 10036) 1344. Danielle Donaldson (zip code: 80305) 1345. Dan Dowidil (zp code: 3767) 1.095. Damet Stanger (zp code: 10036) 1.394. Dameter Dominison (zp code: 00303) 1.345. daniel hoser (da code: 37461) 1.346. Bent driskell (zip code: 33461) 1.347. Daniel North (zp code: 33461)

1347. Daniel Norin (2a) code: 15702/170581: tues are now observe compared with preserved code of an area of the preserved of the pres 1357. Darcy Schreiner (zip code: 48158)

#### CO31 – Oil Change International (cont'd)

1358. Ron Yanuszewski (zip code: 19966) 1359. Gail Tinsley (zip code: 93117) 1360. Darlene Hissem (zip code: 76234) 1361. Diana Rothman (zip code: 95060) 1362. Anne Golub (zip code: 19056) 1363. Daryl Denning (zip code: 14830) 1364. Dan Schwartz (zip code: 18014) 1365. Sally Kille (zip code: 43560)

1366. David A. smith (zip code: 92617) 1367. D E SMITH (zip code: 55432) 1368. Dale Shero (zip code: 32034) 1369. Deborah Auer Auer (zip code: 96145) 1370. Kelly Reed Daulton (zip code: 93465) 1371. David Dorn (zip code: 94551) 1372. David Allington (zip code: 49333) 1373. David Goodlin (zip code: 05661) 1374. David Allen (zip code: 14867-9769) 1375. Dave Clemens (zip code: 17847) 1376. David Doering (zip code: 94109) 1377. Dave Weinkauf (zip code: 16406) 1378. David Zaccagnino (zip code: 91786) This country needs to transition to being completely powered by clean/renewable/solar energy ASAP

Gilbert (zip code: 10954-2527) 1381. David Bursky (zip code: 19096)

Gilbert (ap. code: 10994-2527) 1340.1 David Surisky (ap. code: 19096) 1382, David Greene (ap. code: 15642) 1383. Helen Gill (ap. code: 22151) 1384. David Jackson (ap. code: 98204) 1385. David Levy (ap. code: 94133) 1386. David Turnbull (ap. code: 94609) 1387. David Scharf (ap. code: 90039) 1388. David Boggeman (ap. code: 59718) 1389. David Stetler (ap. code: 94024) 1380. david Landskron (ap. code: 32884) 1391. David Neuendorff (ap. code: 45263) 1392. Davie Saborg (ap. code: 94598) 1393. David Neulin (ap. code: 20132) 1394. Sharon Davidson (ap. code: 45263) 1395. David Zebker (ap. code: 94102) 1396. Jacquellne D. Davis (ap. code: 96926) 1397. Dave Locab (ap. code: 45267) Joseph (zip code: 68505) 1398. Dawn Albanese (zip code: 60007)

1399. Dawn Malone Malone (zip code: 98148) 1400. Peter Dachs (zip code: 98125) 1401. David Braun (zip code: 94619) 1402. David Ball (zip code: 01060)

1403. Debra Barnhardt (zip code: 55422) No more lip service- the actions of the federal government must align with stated

goals. 1404. Donald Cooney (zip code: 87505) 1405. Dan Crawford (zip code: 24018) 201 roly future depends upon reducing fossil fuel use. Pipelines go in the wrong direction. **1406. Deirdre Brownell** (*zip code:* 91504) **1407. Dana Beebe** (*zip code:* 98106)

1408. David Kagan (zip code: 17740) It is clear that we need to END hydraulic fracturing as a source of the nation's energy. It

is too damaging to the environment in a number of ways, and dangerous to human health. 1409. Barbara Kwasnik (*xip code: 7834*) 1410. Diane Bolman (*zip code: 94949*) 1411. David Nelson (*zip code:* 

85715) 1412. Dorothy Boxhorn (zip code: 53188)

1413. DeLane Bredvik (zip code: 80:00) 1414. David Vigil (zip code: 81089) 1415. Dotty Caldwell (zip code: 04476) 1416. Deborah Cheek (zip code: 61054) 1417. Dorian Carli-Jones (zip code: 10029) 1418. Dori Grasso (zip code: 21030) 1419. Diane Chatigny (zip code: 01950) 1420. David Arntson (zip code: 98012) 1421. Diane Petrillo (zip code: 05518) 1422. Daniel Podell (zip code: 95404) 1423. Donna Crane (zip code: 96007) 1424. Robin Gorges (zip code: 5602) 1425.

deborah cady (zip code: 6042) "It is Horrifying that we have to fight Our Own Government to save the Environment." Ansel Adams 1426. G wagner (zip code:

80226) 1427. Donette Erdmann (zip code: 53081) 1428. Dan Degooyer (zip code: 2144)

1429. Danielle J (zip code: 84017) 1430. Dan Doepker (zip code: 44883)

1431. Dianne Douglas (*zip code: 85042*)
 1432. daniel chauvin (*zip code: 85029*) ALL pipelines leak. Just look to Kinder Morgan. All their pipes are leaking all the time.

1433. Don Dumond (zip code: 97403) 1434. Dorothy Dwight (zip code: 60626)

1435. Elizabeth Banwell (zip code: 07731) fossil fuels need to be left in the ground== sustainable energy and birth control are needed for a sound planet and human survival

1436. Deanka Grisham Grisham (zip code: 30236) 1437. Sue E. Dean Dean (zip code: 85266) 1438. Amy Nelson Nelson (zip code: 95035)

1439. Deb Lincoln (zip code: 50322) 1440. Deb Lincoln (zip code: 50322) 1441. Debra Cook (zip code: 32904) 1442. Debbie Bonnet (zip code: 33176) 1443. debbi pratt (zip code: 99199) 1444. Deborah Cook (zip code: 02025) 1445. Deborah Goodman (zip code: 02446) 1446. Debble Lynch (zip code: 33957) 1447. Debra Hoven (zip code: 18064) 1448. Debl Darnell (zip code: 38565) 1449. Debra Combs (zip code: 30033) 1450. Deborah Lipman (zip code: 2906) 1451. Deborah Parker (zip code: 08638) 1452. deborah frankel (zip code: 90049) 1453. DEBORAH SMITH (zip code: 73112)

LAGREE 1454. Deborab Bernhardt (zip code: 81082)

1455. Deborah Colotti (zip code: 95472)

1456. Deborah Fexis (zip code: 3290) 1457. Deborah Stacy (zip code: 06825) We simply must do everything humanly possible to reverse climate change.

 Jaso Berbardi Skeliner (ap. code: 28227)
 Jaso Berbardi Skeliner (ap. code: 28227)
 Jaso Bohr Jiekenan (ap. code: 28227)
 Jaso Dan Diekenann (ap. code: c2002)
 Jaso Danb (ap. code: 80542)
 Jaso Danb (ap. code: Schoultz (zip code: 71929) 1465. Daniel Higgins (zip code: 02170)

1466. Dawn Wilson (zip code: 97202) Stop burying your heads in the wells! We have a responsibility to humankind and the 2400. Dawn in Isou (ap tota: 7207) stop durying your nears in the versity we have a laptonistomity to humanizing and the planet to make changes NOW, because you (WP) won't get a second chance.
1467. Jon Drucker (zip code: 19143) 1468. Nancy Henderson (zip code: 01773)
1469. Dorothy Anderson (zip code: 23165) When we know better, we are requiried morally and intelligently to do better. We

DO NOT have the right politically or for profit to destroy the only planet we have. What makes us think we have the power or politically or moral right to do so?

1470. Del Hardesty (zip code: 22306) 1471. George Ball (zip code: 90301) 1472. Danny Ellsworth (zip code: 92111) 1473. Del Gomes (zip code: 06489)

1474. Tim DeLong (zip code: 50312) 1475. Priscilla Rocco (zip code: 92626) 1476. Mary Nelson (zip code: ) 1477. Denia Price (zip code: 13104)

#### CO31 – Oil Change International (cont'd)

1478. Denise Thomas (zip code: 55118-2243) 1479. DENISE KASTNER (zip code: 46356) 1480. Denise Fogel (zip code: 55409

1481. Denise Kobylarz (zip code: 07440) We need LESS fracking and pipelines and more energy spent on safer solutions. The fossil fuel industry's only concern is their bottom line - not the safety of people and certainly not their destruction of ecosystems and the environment.

1482. Dennis Desmarais (zip code: 06033) 1483. dennis b (zip code: 94087) 1484. Dennis Kent (zip code: 96726) 1485.

Dennis Yee (zip code: 85250) 1486. Dennis Alanen (zip code: 55113) 1487. Kathy Dervin (zip code: 94707) 1488. Tom Smith (zip code: 92105) 1489.

Dan LeMleux (zip code: 54311) 1498. Don Gawronski (zip code: 53207) 1499. Dlck Gray (zip code: 81401) 1500. Daniel Thayer (zip code: 87144) 1501.

Marc Silverman [zip code: 90068-3071] 1502. Thereas Owens [zip code: 95501] 1505. Debra heatherly [zip code: 60047] 1504. Domingo Hermosillo [zip code: 98117] 1505. Donna Herrandez [zip code: 65616] 1506. Dianne Herrick [zip code: 14564

1507. Denis Langhans (zip code: 98502) 1508. Deborah Howe (zip code: 32819) 1509. David Holmes (zip code: 33407) 1510. Darcia hurst (zip code: ARLINGTON) 1511. Don Hyatt (zip code: 43221) 1512. Smith (zip code: 55109) 1513. DIA REDMAN (zip code: 55411)

1514. Diana Gazzola (zip code: 3541) 1515. Diana Gazzola (zip code: 10033) 1515. Diana Smith (zip code: 9241) 1516. Diana Smith (zip code: 97759) Please, NO MORE pipelines)

1517. D. ROWE (zip code: 90403) 1518. Diana Munch (zip code: 48033) 1519. diana sue (zip code: 39564) Please helpbys help you.

1520. Diane Wesson (zip code: 91945)

1521. Diane Brown (zip code: 55109) 1522. D Berl (zip code: 18080)

1523. Diane Hoffman (zip code: 06514)

1524. Diane Huffine (zip code: 80435)

1525. Diane Luck (zip code: 97212) We need CLEAN ENERGY, not dirty coal. Please don't allow any more pipelines! Filsz Maine Novak (zip code: 92103) 1530. Dick Dierks (zip code: 50210) 1528. Diane Vandliver (zip code: 60440) 1529.

Dickman (zip code: 13850) 1533. Diana Crowson (zip code: 87031) 1534. Diego Almora (zip code: 91423) 1535. Judith Shane (zip code: 48840) 1536. S. Robertson (zip code: 01545) 1537. Diana Gordon (zip code: 13126) 1538. Tristan Barber Barber (zip code: 75650) 1539. Ian Murray (zip code: 95405) 1540. DIRK REED (zip code: 95073) 1541. Dirk Faegre (zip code: 4607) 1542. Samuel

LaSalle (ap. code: 83703-7017) 1543. Jennifer Cox (zip code: 42222) 1544. Patricia Dishman (zip code: 37221) 1545. Joyce schwartz (zip code: 32714) 1546. k \* (zip code: 60618) 1547. Tim

Baxter (zip code: 36606) 1548. Debble Sierchio (zip code: 34655)

1549. LINDA K DIVITTORIO (zip code: 02645)

1550. James & Yvonne Tittle (zip code: 10462-2461) 1551. Dennis Ivy (zip code: 30305-2104)

1552. Dawn Demaske (zip code: 55106)

1553. donald hnatowich (zip code: 02446)

1554. Alex Oshiro (zip code: 96822)

1355. david sorkin (zip code: 0551) 1356. Dorothy Varellas (zip code: 94124) No fracking, no clean fresh water for fracking, no more oil! We need to save our

planet! 1557. Donald Wilson (zip code: 19111) 1558. David Kalb (zip code: 13068) 1559. David Kallechey (zip code: 30308) 1560. David Kannersteln (zip code: 19444) 1561. david kissinger (zip code: 08330)

1562. David Klingel (zip code: 48169-9016)

1563. K Lyle (zip code: 98335) 1564. Daniel Marks (zip code: 44122)

1565. Donald Laghezza (zip code: 11375)

1566. donna dombrowski (zip code: 54407) 1567. Diane Millican (zip code: 98033)

1568. Dorothea Leicher (zip code: 16914-7610) If we don't keep it in the ground our children won't have q worled to live in (just living hell)

1569. Terry S.c. (zip code: 93455) 1570. Diane Yanas (zip code: 92313) 1571. Darlene Young (zip code: 55414) 1572. Dean Webb (zip code: 98199) 1573. Dena Maguire Young (zip code: 30533) 1574. David Cobb (zip code: 32257) 1575. Barbara Mason (zip code: 95008) 1576. Diane Bernardi (zip code: 60068) 1577. Dorothy Jackson (zip code: 6550) 1578. Debra

mesodi (ap. Gué: 2006) 1570. Unano bertariu (ap. Gué: 80069) 1577. Dorodny Jackson (ap. Gué: 2006) 1578. Debra Greenberg (ap. Gué: 7506) 1579. Donna Amrii (ap. Gué: 25571) 1580. Mary Schultz (ap. Gué: 3466) 1581. Denise Tschann (ap. Gué: 37520) 1582. Donald Nelson (ap. Gué: 21133) 1580. Dorothy Rockin (ap. Gué: 3466) 1584. Donald Ned (ap. Gué: 35727-3568) 1595. Dorothy Rockin (ap. Gué: 3466) 1584. Donald Ned (ap. Gué: 35727-3568) 1596. Dorothy Rockin (ap. Gué: 3466) 1584. Donald Ned by ND pipelines approved. We MUST reach our climate goals and more pipelines and fracking are not compatible with these goals

#### CO31 – Oil Change International (cont'd)

1586. Douglass Reeves (zip code: 10003) 1587. Stan Miller (zip code: 63343) 1588. Jonathan Hartman (zip code: 33069) 1589. Robert Gabriel (zip code: 98506) 1590. Diane O'Donnell [*zip code: 10301*] Keep it in the ground! 1591. Patricia Sanitate (*zip code: 97448*) 1592. Kayleigh Wilson (*zip code: L4M 1Z4*) 1593. Kathleen Alexander (*zip code:* 77007) 1594. Mark Miser (zip code: 48879) 1595. Loretta Herger (zip code: 85351-3186) 1596. Leigh Hart (zip code: 27514) 1597. Dollie Moir (zip code: 85546) 1598. Lois Kaufmann (zip code: 32960) 1599. Dolores Arndt (zip code: 79423) 1600. Dolores Zieser (zip code: 52001) 1601. Don van Rhyn (zip code: 06878) 1602. DONALD ALTER (zip code: 94611) 1603. Don Patterson (zip code: 21012) 1604. Donald Munn (zip code: 98208) 1605. Donald Dimock (zip code: 97361) 1606. Donald Shaw (zip code: 33703-3418) 1607. Donald Seeger (zip code: 40214) 1608. David Horne (zip code: 78209) basta! nomasno! 1609. Joanne Linden (zip code: 07016) 1610. Donna Becker (zip code: 30327) 1611. Don Barth (zip code: 23005) 1612. Donna Kerpelman (*zip code: 21093*) **1613.** donna panza (*zip code: 95949*) **1614.** donna b (*zip code: 33604*) We are having earthquakes because of fracking, STOP! Protect our environment before it becomes unable to sustain human life 1615. Donna Blue (zip code: 40502) 1616. Donna Carr, M.D. Carr, M.D. (zip code: 92024-2241) 1617. Donna D'Arco (zip Mars Jonnia Jane (2); Onlina D. Mars Jonnia Varia, mark (2017), Mark ( 1626. Donald Hunt (zip code: 85143) 1627. Donald J. Shaw (zip code: 13210-2704) 1628. Don Grierson (zip code: 90046) 1629. Don Vergara (zip code: 06907) 1630. Don Der (zip code: 37043) 1631. dorinda kelley (zip code: 97220) 1632. Doris J. Katzen Katzen (zip code: 95001-1284) 1633. Dorothy Edwards (zip code: 33020) 1634. Dorothy Lambert (zip code: 37202) 1635. Dorothy Roeder (zip code: 85050) 1636. Dorothy Stoner (zip code: 60103) 1637. Elaine Doough Johnson (zip code: 53538) 1638. dorlan canallzo (zip code: 34655) 1639. William, Margaret Holcomb and FAMILY (zip code: 28782-4547) 1640. David Osterhoudt (zip code: 92688) 1641. Peri Doubleday (zip code: 72207) 1642. Douglas Luithly (zip code: 80537) 1643. Douglas Godfrey (zip code: 01833) 1644. Doug Ross (zip code: 1910) 1645. Michaels Patricia (zip code: 80525) 1646. Debbie Peters, ID (zip code: 10471) 1647. david ashbaugh (zip code: 4832-0175) 1648. David Passmore (zip code: 95421) 1649. DuWayne F, Paulick (zip code: 14606) 1650. dan pedrick (zip code: 18414) 1651. Don Hon (zip code: 55418) 1652. Charlotte Pirch (zip code: 92708) 1653. David Plum (zip code: 44685) 1654. David Miller (zip code: 02130) 1655. Dennis Pocekay (zip code: 94952) 1656. Darlene Townsend (zip code: 99202) 1657. Mike Ferguson (zip code: 56001) 1658. Thaddeus Sonnenfeld (zip code: 97801) 1659. Sandra Sobanski (zip code: 11218) 1660. Linda McKlinji (záp code: 80001) 1661. Dragos Alexandru (záp code: 11303) 1662. A. Obermeier (záp code: 87123-5785) 1663. Debie Rasmussen (záp code: 95966) 1664. Deborah Barnes (záp code: 74023) 1665. William Kildall, Ed. D. (zip code: 98362) 1666. Clifford Rot (zip code: 60123) 1667. Daphne Figueroa (zip code: 92107) 1668. Andrea Stilwell (zip code: 95409) 1669. Cinthia Davey (zip code: 54638) 1670. Emily Rothman (zip code: 87110) 1671. Donna Etheridge (zip code: 27607) Keep it in the ground. This current economic model is not sustainable and will come crashing down eventually, sooner rather than later. Wake up! Greed is making you stupid. 1672. David R. Hirst (zip code: 98401) 1673. Danielle Rice (zip code: 32789) 1674. carol fertig (zip code: 14424) 1675. Derek Monroe (zip code: 99501) 1676. Dr. Cynthia lewis (zip code: 93465) 1677. Mr & Mrs Dennis Roderigues (zip code: 33781) 1678. Dro Green (zip code: 01851) 1679. Stephen Urcluoil (zip code: 08883) 1680. David Quinn (zip code: 30033) 1681. mary Snow (zip code: 32118) As a nation, we should be building our renewable infrastructure. Methane is 21 times more potent a greenhouse gas than carbon dioxide over the short term and 86 times more in the long term. WHY would we want to build carbon pipelines and not transmission lines for solar and wind? Thin film solar should be mass produced and sold at the low cost its originator, Stan Ovshinski, made possible. Gasoline from crude oil, coal and MTR, methane and its extreme extraction method, fracking, are retro and archaic. Fossil fuels stink! 1682. Donald Ruehlow (zip code: 53821) 1683. Lena Guyot (zip code: 13337) Other modern countries have demonstrated that fossil fuel energy is not only backward, but something that can be replaced by renewable energy strategies, so why is the US clinging to the stupidity of the last century? 1684. Duane Grindstaff Grindstaff (zip code: 98042-5706) 1685. Julie Viergutz (zip code: 44109) Greedy oil and gas companies cannot be allowed to destroy our environment. No more fracking! 1686. S. Deirdre Sandstrom (zip code: 97214) 1687. D Schoech (zip code: 76012) 1688. Ruth Darden (zip code: 98115) code: 24018) 1693. Daniel Stillwaggon (zip code: 97215) 1694. David Stirling (zip code: 01890) 1695. Susan Torres (zip code: 10512)

1696. Dee Storms (zip code: 21210) Fracking in Pennsylvania polluted the water that a relative had in her home, and she had to buy bottled water until she was able to sell the property for almost nothing. Bnded up living in a trailer until she died, hearthroken. The FRRC and other agencies need to stop this proposed new fracked gas pipelinae.
 1697. David P Tapscott (zip code: 01569) 1698. Donna Thelander (zip code: 97211-4849) 1699. dawn turner (zip code:

1701. Monica DuClaud (zip code: 94107) Fracked gas is NOT clean fuel. The extraction process is highly toxic and dangerous.

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21921) 1700. Duane Welsch Welsch (zip code: 91711)

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If we are to have a livable future (your too!), you must move away from fracking. 1702. Alleen McEvoy (zip code: 14892) 1703. C K K (zip code: 53147) 1704. Dulce Manzini (zip code: 33186) 1705. Susan Dunham (zip code: 01098) 1706. Rachel Leweke (zip code: 22802) 1707. Sister Luanne Durst (zip code: 54601) 1708. Dunnant (27) cole: 2029 1 rob. Active Lewise (28) cole: 2202 1 rob. States Lemine Outs (28) cole: 3703 1 rob. Duskey Malloyr (24) cole: 3033 1 rob 1717. Donald will electronic 20720 [17:15. Dwayne minat (207206: 20720] 1716. FairIcla Betton (207206: 20023) 1717. Donald will electronic 20720 [17:16. FairIcla Betton (207206: 20023) 1717. Donald will electronic 20720] 1717. Donald will electronic 20720 [17:16. FairIcla Betton (207206: 20720) 1717. Donald will be an an use of fossil fossil fairIcla the government must broaden its prespective and include this reality in the consideration and situp of new fossil fuel infrartstructure. There is no other value alternative. 1718. Donglas Whitebet (207206) 20719. David Woldhams (207207) 2720. David Gurarie (201206) 2723. David State (201207) 2720. David Gurarie (201207) 272. Donana Cosgrove (201207) 2720. David Gurarie (201207) 2723. Donana Cosgrove (201207) 2720. David Gurarie (201207) 27 1712 J 1721 Using Joang Lap Cole: 74027 J 120 Jennier Ander Lap Cole: 74027 J 120 Jennie Cong Cole (ap Cole: 3404) 1725. Evan Skallerud (ap code: 34040) 1725. Evan Skallerud (ap code: 32962) 1727. Earl Williams (ap code: 94571) 1728. ethan Sullivan (ap code: 73047) 1729. Ernest Canning (ap code: 34571) 1728. 91362) 1730. Eleanor Anderson-Miles (zip code: 94804) 1731. John Earl (zip code: 35401) 1732. Etta Rohin (zip code: 93312) 1733. Mha Atma 5. Khalsa Khalsa (zip code: 90035-3314) 1734. Dianne Burns (zip code: 93921) 1735. Stephanie Scherr (zip code: 03447) 1736. jeanne clark (zip code: 11795) 1737. Kelth Johnson (zip code: 53573) 1738. Emily Alma (zip code: 95928) The house is burning down - we've got to stop this firci 1739. Anita Moloney Moloney (zip code: 27278) 1740. Eric Ashlev (zip code: 33334) 1741. Elaine Benjamin (zip code: 91901) 1742. Eric Bindler (zip code: 32803) 1743. Elaine Cefola (zip code: 92056) 1744. Elaine Chaback (zip code: 12477) 1745. Ellen Jahos (zip code: 3602) 1746. Ellen Henry (zip code: 14534) 1747. Edna Cabcabin Moran (zip code: 94501) 1748. Elaine Neth (zip code: 19462) 1749. eco Actors (zip code: 234052) 1750. Scott A. Weir, PhD (Economics) (zip code: 27704) Remember, for a planet undergoing rapid warming due to the well-understood greenhouse effect, natural gas, specially gas obtained by intensive use of fracking, is NOT an alternative to fossil fuels, jout as for an alcoholic beer is not and alternative to miskey. In both cases, the addict just uses more. Track, josta ski on a notionic user huor and atternative to winskey. In oom cases 1751. Dave Searles (zip code: 53520-1760) 1752. Edward Dombroski (zip code: 05465) 1753. Edward Armm (zip code: 07849-1779) I am a disabled veteran and I vote 1754. ed davie (zip code: 97116) 1755. Ed Bruner (zip code: 63379) 1756. Edward Goral (zip code: 91020) 1757. Edward Day (zip code: 32829) 1758. Edgar Kyle (zip code: 24018) The proposed pipelines would be extremely destructive to natural areas and private property simply to line the pockets of wealthy people. Most or all of the gas is designated for export, so it would not benefit US citizens. Gas will more scarce within a decade or so, especially if we can reduce or eliminate fracking. The destructive pipelines Citizens: Gas wan more science within a decade of any capacity in the science of the science would be for naight.
1759, Muriel Edgerton (zip code: 19436) 1760. Edward Hubbard (zip code: 53705) 1761. Edith Ortenberg (zip code: 9403) 1762. Edith Frank (zip code: 1947) 1764. Edith Quevedo (zip code: 92504-94033) 1762. Edith Frank (zip code: 1074) 1765. Edith Ogelia (zip code: 93111) 1764. Edith Quevedo (zip code: 92504-3494) 1765. Jacqueline Scully-clark Scully-Clark (zip code: 7062) 1766. Kathleen Edith (zip code: 3506) 1770. 1767. Edna Mosig (zip zode: 68847) 1768. Ed Perry (zip zode: 78132) 1769. Edquna Thompson (zip zode: 53668) 1770. Edmund Skowronski (zip zode: 18360) 1771. Bob Jordan Jordan (zip zode: 63112) 1772. edward Goldberg (zip zode: 11372) 1773. Esther Weaver (zip code: 12528) 1774. Judith Edwards (zip code: 60096) 1775. Edward McGraw (zip code: 1776. Edwin Hurwitz (zip code: 80305) We are already in danger of blowing past the limits of CO2 emissions that would cause irreparable harm to human life on our planet. As the father of a 4 year old, I hate the idea of having to explain to him in 15 years why we didn't do all we could to keep the carbon in the ground. There is no reason to build this infrastructure except to protect the short term profits of a few at the cost of everyone's future. We should be investing in renewable infrastructure or at the very least infrastructure that is convertible to use for renewables. o na che very teast initiasticultie (table is convertible) to use for renewantes. 1777. Edwinn Nucción (zip code: 10710-5002) 1778. Ed Norris (zip code: 1735) 1779. Edward Wolfsohn (zip code: 28804) 1780. Edwin (Nicolos) (zip code: 27070) 1781. Est estable (zip code: 13846) 1782. Edwin (Nicolos) (zip code: 2130) 1783. Est Etable the farright Enright (zip code: 85251-7005) 1784. Elizabeth Seltzer (zip code: 1303) 1783. Est Etable the farright Enright (zip code: 85251-7005) 1785. Kellik Morin (zip code: 3715) 1786. Marcía Miller (zip code: 3345) 1785. Kellik Morin (zip code: 3715) 1786. Marcía Miller (zip code: 3345) T87. Elaine Fischer (zip code: 24018-2625) ALL pipelines LEAK!
 T88. Erica Frank (zip code: 98284) 1789. Eileen Cohen (zip code: 94702) 1790. Esther Garvett (zip code: 33186) 1791. Gerritt and Elizabeth Baker-Smith (zip code: 18301) 1792. Melissa Katterson (zip code: 15081) 1793. Emily McDonald (zip code: 67215) 1794. Evelyn Griffin (zip code: 82523) 1795. Ed Gruver (zip code: 17601) 1796. Elke Hoppenbrouwers (zip code: 06512) 1797. John Ehrman (zip code: 32456) 1798. GRETCHEN EICK (zip code: 67203) Fracking has produced numerous small earthquakes affecting my Wichita, KS home. Plaster falls off the walls, nalls come up from the floor boards. I viewed a documentary on fracking and am very concerned about the long Lerm damage to people 1799. Eileen Thompson (zip code: 22153) Please honor our commitments to the Paris Accord -- and to ourselves.

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1800. Elleen Rence (zip code: 97215) 1801. Elleen Macmillan (zip code: 94549) 1802. Elleen Brown (zip code: 19074) 1803. Kerry Leonard (zip code: 53072) 1804. Eliza Anderson (zip code: 05/94) 1805. Eric Nilsson (zip code: 95926) 1806. Earle Kasregis (zip code: 04275) 1807. Lyn Younger (zip code: 95111) 1808. Elleen Chieco (zip code: 97520) 1809. Edward K Fujimoto (2010) (2010 elaine edell (zip code: 91362) 1818. Elaine Wunderlich (zip code: 20904) 1819. Elaine Wilson (zip code: 90501) 1820. Elaine Becker (zip code: 24018-2625) We ALL need Clean Water and Clean Airl We MUST focus on Clean Renewables like Solar & Wind power! 1821. Elaine Golden (zip code: 07305) 1822. Dorothy Laub (zip code: 33884) 1823. M. Struble (zip code: 19146) 1824. Ernest Cooper (zip code: 46203) 1825. Eugene Combs (zip code: 44120) 1826. Edward Colley (zip code: 98926) 1827. Kelley Matthews (zip code: 85749) 1828. eleanor arons (zip code: 10001) 1829. Eleanor Weisman (zip code: 16335) 1830. Teleanor Doviso (zip code: 94012) 1831. Elena ALFANDARI SCILLA (zip code: 17552) 1832. Elen Roth (zip code: 52556) 1833. Elena ennouri (zip code: 94012) 1831. Elena ALFANDARI SCILLA (zip code: 17552) 1832. Ellen Roth (zip code: 52556) 1834. j chenoweth (zip code: 95969) 1835. Erma Lewis (zip code: 11204) 1836. Erma Lewis (zip code: 11204) 1837. Eric Lezotte [zip code: 80220] 1838. Elfie Elms [zip code: 25414] 1839. Cris G (zip code: 20152) 1840. Lacey Hoover (zip code: 33157) 1841. Elihu Cohen (zip code: 13212) 1842. Eliot Brown (zip code: 81435) 1843. Lisa Armendarez (zip code: 92703) 1844. Donald Goppert (zip code: 13157) Please have respect for the environment and all life and stop the pipelines. 1845. Liz Baum (zip code: 65804) 1846. Elizabeth Lowry Lowry (zip code: 96105) 1847. Elizabeth Watts White (zip code: 11563) 1848. Elizabeth Stancliffe (zip code: 66049) 1849. Elizabeth Lyle (zip code: 28743) 1850. Elizabeth Bettenhausen (zip code: 93428) 1851. Elizabeth Kiernan (zip code: 6877) 1852. Elizabeth Hegarty Hegarty (zip code: 11225) 1853. E Lopex (zi code: 32750) 1854. Elaine Mayer (zip code: 55901) 1855. Eleanor Rosapapan (zip code: 90278) 1856. Ellen Bardo (zip code: 17756) 1857. Ellen McNeirney (zip code: 20814) 1858. Ellen Berkman (zip code: 20176) Which came first the chicken or the egg ? so also which came first the pipeline or the fracking ? You can't have one without the other ! 1859. Ellen Dionna (zip code: 17315) 1860. Ellen Johnson (zip code: 01119) Just say 'NO'.' 1861. Ellen Kennedy (zip code: 16505) 1862. Ellen Moyer (zip code: 01085) 1863. Ellen Winer (zip code: 90025) 1864. Ellen Zapf (zip code: 13606) 1865. ellen zapf (zip code: 13606) 1866. Elliot Daniels (zip code: 22206) 1867. elliot clymer (zip code: 80211) 1868. Susanne Ellis (zip code: 94112) just can't understand why this isn't obvious to all 1869. Eric Moore (zip code: 85718) 1870. E Robbins (zip code: 19087) 1871. Eloise Swenson (zip code: 06804) These pipelines will encourage fracking, further damaging the environment. This anti-earth corporate greed is a here-today ignore-tomorrow attitude that has a day of reckoning awaiting all life on this planet in the not so distant future. There is a price to be paid for plundering earth's resources and not caring how much damage is inflicted on the planet in the process. Stop these pipelines. P,ease. 1872. Eloise Nelson (zip code: 80303) 1873. Esther Racoosin (zip code: 14850) 1874. Steve Wise (zip code: 30317-2325) 1875. Elsie Rhodes (zip code: 13326) 1876. Eric Luu (zip code: 60091) 1877. David Elwell (zip code: 20011) 1878. Eileen Mahood-Jose Mahood-Jose (zip code: 7643) 1879. Edward Mainland Lot / Lot Emily Hall Hall (zip code: 35209) 1890. Emily Willoughby (zip code: 98188-3250) 1891. Emily Decker (zip code: 49006) 1892. Emily Yang (zip code: 91007) 1893. Elisabeth Hart (zip code: L1[1b7) 1894. Erika Mohos (zip code: 08558) 1895. Emily Dickinson-Adams (zip code: 06093) 1896. eric vance (zip code. 85051) 1897. Kris Aaron (zip code: 80907) 1898. Emma Myles (zip code: 48207) 1899. Eric Norris (zip code: 60649-2732) Fracking is bad for the environment. Fracking pipelines encourage fracking. Pipelines that leak or burst are bad for the environment. Stop fracking. Stop building pipelines that encourage fracking. 1900. E. Dantuono (*zip code: 07302*) 1901. Justin McCullough (*zip code: 92104*) 1902. Norma Raymond (*zip code:* 78749) 1903. Mark Spevak (zip code: 92808) 1904. Gail Richardson (zip code: 59715) 1905. Enzo Bard (zip code: 11510) 1906. Ellen O'Connor (zip code: 22206) 1907. Elizabeth Handler (zip code: 13205) 1908. Ellen Poist (zip code 19118) 1909. Paul Epperson (zip code: 34983-3436) 1910. Ellen Stauffer (zip code: 47401) 1911. Julia Marie Gillett Gillett (zip code: 81432) 1912. Elizabeth Rahn (zip code: 57004) 1913. Ernst Strahm (zip code: 98006) 1914. Eric Lambart (zip code: 97217) 1915. Eric Fosburgh (zip code: 98112) 1916. Eric Dickson (zip code: 33021) 1917. Eric Andersen (zip code: 54130) 1918. ERIC POLCZYNSKI (zip code: 81147) 1919. Eric Voorhies (zip code: 96746) 1920. Erik Nielsen (zip code: 05036)

#### CO31 – Oil Change International (cont'd)

1921. Erik Husoe (zip code: 92675) 1922. Erik Schnabel (zip code: 94134)

1921. bink flusse (*pip code: 2509*) (2922, brik Scnnabel (*pip cade: 94134*) 1923. Karl Hamann (*pip code: 55066*) (2016) salready the hottext year on record. Field workers in this country are dying, occanic corals are bleaching, and ice sistes are melting at an unprecedented rate 1924. errite boyd (*pip code: 28091*) 1925. Errite Fielder (*pig code:* V/67183) 1926. Errite Loreen (*pip code: 96281*) 1927. Ellen Taylor (*pip code: 20910*) FERC needs to radically pivot to ensure that the U.S. meets its commitments under the code to the second seco

1928. Liz Garratt (zip code: 46234) 1929. rhoda seidler (zip code: 91436) 1930. Erynn Marshall (zip code: 24333) 1931. Elizabeth Scadova (zip code: 3060) 1932. elisabeth hoffman (zip code: 21029-1233) 1933. Billie Lee Langley (zip code:

90501

1934. Juanita Romero (zip code: 76106) Pipelines are a disaster for the climate, as well as huge risks to communities threatened by explosive pipelines and fracking dangers. 1935. ed sousa (zip code: 04921) 1936. E.S. Schloss (zip code: 10120) 1937. Sigrid Asmus (zip code: 98199) And what is the fossil fuel industry going to do when the temperature, day and night, is

110 degrees and no food can be grown? That is the real price of fracking, and the time to refuse to pay it is now -- before any leasing, drilling, or pipellines are put in place. I urge you to align your energy policy with climate science, not unaccountable fossil fuel energy interests. We need sustainable energy right now -- there is no Planet B.

1938. John Essman (zip code: 95448) 1939. Kathryn Johnson (zip code: 76201) 1940. E Moreno (zip code: 10977) 1941. Ed Werth (zip code: 78216) 1942. Sheryl Groenenberg (zip code: 00831) 1943. Ellen Wolfe (zip code: 10027) 1944. Eugenc Majerowicz (zip ende: 90008) 1945. Edward La Londe (zip Oude: 3047) 3765. Linei wonie (zip Eude: 10027) 1947. Edbard Halerowicz (zip ende: 90008) 1945. Edward La Londe (zip Oude: 34746-7820) 1946. Evan Oktober (zip Code: 34715) 1947. Evan McDermit (zip Code: 92832) 1948. Evanne Christian (zip Code: 0626) 1949. Yazmin Gonzalez (zip Code: 350706) 1950. Eve Bittel bitte (zip Code: 8756) 1951. Evelyn Gomez (zip Code: 82674)

1952. April Armstrong (zip code: 70816) 1953. Lowell Palm (zip code: 43160) 1954. Ellen Wasfi (zip code: 19904) 1955. Ellen Williams (zip code: 98110)

1956. Ernie Williams (zip code: 98110) We've made a commitment to protect the climate, fracking is in direct opposition. I urge you to stop projects like Rover and NEXUS.

1957. Wynne Ewing (zip code: 30501) 1958. Bruce Dreyer (zip code: 53221) 1959. Beatriz Pallanes (zip code: 92704) 1960. Jessica Lavish (zip code: 85603) Fracking should be BANNED. What isn't everyone getting about CLIMATE CHANGE?? It's my planet too...we're supposed to be making decisions to SAVE the planet, not DESTROY it even faster. I VOTE NO on any more fracking. 1961. Jennifer Lowans (zip code: 17222) 1962. Laurel Leslie (zip code: 96734) 1963. Michele Langston (zip code: 72076)

1964. Wallace Rhine (zip code: 5542) 1965. Jeanine Fair (zip code: 53578) 1965. Hentifer Weiss (zip code: 72076) 1967. Francis Mastri (zip code: 5542) 1968. Fann Harding (zip code: 20009) 1969. Elizabeth Farkas (zip code: 85776) 1970. Qayyum Johnson (zip code: 94965)

1971. Alonna Farrar [zip code: 92083] 1972. Dana Thomas (zip code: 94114) 1973. Blaise Brockman (zip code: 91007) 1974. Kate Kenner (zip code: 2130) 1975. Fay Bracken (zip code: 34108) 1976. Fay Coulouris (zip code: 80111) 1977. Faye Soares (zip code: 95726) 1978. fay forman (zip code: 10001) 1979. Fazilat Ahmadi (zip code: 92592) 1980. Frances Carpenter (zip code: 02903) 1981. Fred Welty (zip code: 44024)

1982. William Huggins (zip code: 89183) Without changing our energy system, we will never meet the targets we need to keep the planet from warming too quickly. As a parent, I would like to leave this place better than it was when I was born Please work toward a much more rapid transition to clean energy.

1983. Sharon Lee (zip code: 99508) No fracked gas pipelines. They are destructive to the environment and escalate climate change

Dange 1984. F Maria Elias (zip code: 60517) 1985. Felicia Dale (zip code: 98271) 1986. Felicity Devlin (zip code: 98406) 1987. Maggie Schafer (zip code: 60301) WE SHOULD NOT HAVE TO CONSTANTLY FIGHT THESS PIELINE 100 ACT LIKE THIS YOUR COUNTY AND YOURS ALONE AND IT IS NOT YOU SAW THE OVERWHIELMING OPPOSITION TO KXL AND YOU ARE SEEING IT AGAIN TO OTHERI THIS COUNTRY AND ITS RESOURCES BELONG TO THE PEOPLE - OUR RIGHTS ARE NOT YOUR TO WHORE AWAY!

1988. Carmen Sanchez (zip code: 35014) 1989. Sondra Sparapani (zip code: 32033) 1990. Greg Allbee (zip code: 76021) 1991. John DuBois (zip code: 98057) 1992. Linda S. Hamilton (zip code: 05445) 1993. Ferold Torchenot (zip code: 21045) 1994. Miguel Silva (zip code: 06055) 1995. Frances Ciolino (zip code: 07646)

1996. Frank McRae (zip code: 90010)

1997. Laurie Stoff (zip code: 85044) 1998. faith franck (zip code: 89135)

1999. Franz von Hirschmann, MBA (zip code: 98374) Building more pipelines will just enrich the kleptocrats by ruining our planet

2000. Frenzela Gregory (zip code: 48202) 2001. Frances Hoenigswald (zip code: 19143-1869) 2002. Phillip Randall (zip code: 91367) 2003. Scott Finamore (zip code: 34433) 2004. Fiona Priskich (zip code: 90210) 2005. Tammarra Walden (zip code: 85201) 2006. Monica Firely (zip code: 34236) 2007. Deborah Parkor (zip code: 98229) 2008. Quentin Fischer (zip code: 24018) 2009. Lori Rose (zip code: 25064)

2010. Mike Lepore (zip code: 91711) 2011. George Casner (zip code: 85023) 2012. nancy hh (zip code: 98520) 2013. Cher Johnson (zip code: 55344) 2014. Jim Campagna (zip code: 94954) 2015. Josephine & Frank Tosiello (zip code: 49684)

Pointson (a) bode: 33497 6044, Jun (aufingdia (a) code: 94504 (2015, josepane & Frank 10steilo (a) grav code: 94604) 2016. Josephine and Frank Tosiello (a) roke: 49664 (2017, fred karison karison (a) roke: 98248) 2018. Frances Marvel (a) roke: 63399 (2019, Robert Bladger Fladger (a) roke: 97465) 2020, cate remer (a) roke: 45403 (2021, Kathleen Broderick (a) roke: 49755) 2022. Rose Leather (a) roke: 50460 (2023, Phillip Wood (a) roke: 99133) 2024. FRED KAIN (a) roke: avd 7376 (2020) Harrill Simring (a) roke: 33009) 2026. Beth Wegner (a) roke: 61554) 2027 Ferable Washertsche (a) roke: avd 7376 (2020) 2027. Frankle Winchester (zip code: 21045-4860) We need solar and wind energy, not oil pipelines or gas from fracking. Europe is doing it why can't we? We could if we got oil money out of politics. 2028. frances lynch (zip code: 01907) 2029. Frank and Aimee MAZUCA (zip code: 33813)

#### CO31 – Oil Change International (cont'd)

2030. Fred Bonnet (zip code: 96753) 2031. Francisco Dacosta (zip code: 08046) NA 2032. Fredrika Meitzen (ap code: 1732) 2033. Frant Molnar (ap code: 3551) 2034. Mir Scott (ap code: 64012) 2035. Floyd O Brien (ap code: 55204) 2036. Karen Hardin (ap code: 37743-2452) 2037. marge dakouzian (ap code: 13301) 2038. Redall Shaw (dp code: 72728) 2039. David Dzikowski (ap code: 13301) 2040. Rick Entree (ap code: 13301) Sylvia Forte (zip code: 67220) 2042. Patricia Lipmanson (zip code: 5) 2043. Olga Rose-Jones (zip code: 11236) 2044. Richard Ternes (zip code: 48846) 2045. Tamara Cain (zip code: 95826) 2046. Joel Carlson (zip code: 98516) Global warming fossil fuels must stay in the ground so we don't destroy life on earth in our current sixth great mass extinction. Almost all life on earth disappeared in previous mass extinctions. We must very quickly switch to renewable energy including solar and switch to renewable agriculture in order to sequester carbon in the soil and reverse climate change. Animal agriculture accounts for a lot of carbon pollution so that must be eliminated. Now is the time for action! 2047. Patricia Foxall (zip code: 44125) 2048. Jennifer Direnzo (zip code: 65464) 2049. Elisabeth Peterson (zip code: 55391) 2050. frank belcastro (zip code: 52001-6327) 2051. Francene Shed (zip code: 74076) 2052. Frances Blythe (zip code: 95620) 2053. Cheryl Frances (zip code: 79830) 2054. francie portnoy (zip code: 27410) 2055. frances hunt (zip code: 09128) 2056. Francine Larstein (zip code: 95076) 2057. w francis Elling (zip code: 19130) 2058. Francy Elkins (zip code: 55555) 2059. Fran Divine (zip code: 12561) 2060. Frank Adamick (zip code: 11377) 2061. Frank Hartig (zip code: 27704) 2062, Frankie Demarco (zin code: 10014) 2063. Frank Sennett (zip code: 59457) 2064. Francine Loft (zip code: 80403) Global warming is real - time to ego off fossil fuels 2065. Francine Cantor (zip code: 63141) 2066. Susan Wayne (zip code: 92354) 2067. FRED BERING (zip code: 53575) 2068. Fred Fall (zip code: 08034) 2069. Carson Miller (zip code: 44675) Stop building pipelines! Focus on renewable energy! 2070. Carter Miller (zip code: 44675) No gas pipelines! 2071. Frederica Huxley (zip code: 65203) 2072. Frederic Webster (zip code: 98112) 2073. Curt Frederick (zip code: 55011) If they aren't, then they should be barred permanently. Too many pipelines have intruded on people's lands and this also needs to be disallowed if anyone has valid objections to them on their property. Thanks for your considerations. 2074. Frederick Trost (zip code: 53020) 2075. Frederika Bain (zip code: 96822) 2076. Fred Geiger (zip code: 95060) 2077. R Kelly (zip code: 32162) 2078. John Fricovsky (zip code: 15211) 2079. Richard Friesenhengst (zip code: 43227-1405) 2080. John Peck (zip code: 04011) 2081. Eugene Kiver (zip code: 99004) 2082. Michael Cole (zip code: 80104) 2083. Deldra Caine (zip code: 33441) 2084. Florence Sandok (zip code: 55906) 2085. Francis Silder (zip code: 26149) I reside in the western section of WV, ground zero for Marcellus and Utica shale gas hydrofracturing. This area has become an energy sacrifice zone criss-crossed with thousands of pipelines. These pipelines add to water pollution through sedimentation. They fragment habitat for Threatened and Endangered Species such as the cerulean warbler. They also destroy rare plant habitat. These are just a few of my many concerns, especially when so many pipelines are being built with very little oversight. 2086. Francine Sutton (zip code: 66213) 2087. Fred Teal, Jr. (zip code: 20833) 2088. Elizabeth Tuminski (zip code: 06907) 2089. Michael Darling (zip code: 93225) 2090. Marion Geiges (zip code: 33021) 2091. REYNA BUTTON (zip code: 42262) 2092. Fran Clarida (zip code: 85044) 2093. frances h rogovin (zip code: 02493) 2094. Frances Waksler (zip code: 2140) 2095. Phil Matievic (zip code: 95954) 2096. Flo Wilder (*zip code: 4640*) 2097. Fay Wouk (*zip code: 80304*) 2098. Lawrence Wolfe K (*zip code: 85251*) You are evil to Frack in any form. Death to you for the destruction and death you broadcast. 2099. Greg Carpenter (zip code: 982821 2100. Betty J. Van Wicklen (zip code: 12189-2915) We need to stop using fossil fuels. Providing easy transport to trade centers and shipping it out of the country is not the answer - it will merely be burned elsewhere, compounding the problems we face. This is a true example of 'what goes around, comes around!' The pipelines are a little-disguised opportunity for the 'energy' companies to squeeze out a last bit of profit at the expense of public and environmental health. They've had 40 yrs. worth of lead time to develop and invest in clean energy and make their conversions to clean energy, but have chosen to ignore science and plain common sense, while lying to the public and obstructing every attempt to change our energy future hence our climate future, to something livable for the future of our planet. If they continue to act so irresponsibly regarding this huge problem, they should be made to pay for all the damage done by rising sea levels and the hugely damaging storms, floods and droughts resulting from the planet's struggle to deal with the problem itself! 2101. Gregory Rouse (zip code: 5444) 2102. John Gallagher (zip code: 11357) 2103. Gabriela Romanow (zip code: 2138) Stop supporting the use of fossil fuels! 2104. Gabriel Bobek (zip code: 10012) 2105. Robin Wieder (zip code: 11518) 2106. Mike Gaddis (zip code: 80130) 2107. Don Richardson (zip code: 28712) Let's instead work for survival of The People, not the profits of psychopaths 2108. Debbie Sequichie-Kerchee (zip code: 73527) 2109. Debbie McCarthy (zip code: 04966) 2110. Kimberly Jenkins (zip code: 20849) 2111. Grace Padelford (zip code: 90064) Cregory Penchoen (zip code: 98002)
 Cregory Henchoen (zip code: 98002)
 David Hand (zip code: 11772) No new pipelines until they clean up the existing methane leaks. Well Head Flaring, leaking wells, storage facilities etc

### CO31 – Oil Change International (cont'd)

21:	4. Clyde Alan Locklear (zip code: 97221) 2115. Christine Pritchard (zip code: 37748) 2116. Pamela Evans (zip code:
21	43) 2117. Kristen Gardner (zip code: 22046) 2118. alvaro garza (zip code: 95354) 9. barbara garofano (zip code: 96795) make sure Hillary receives this information please.
213	0. Garrick Stephens (zip code: 79843)
217	1. Garry Fay (zip code: 54082)
	2. Gary and judy Ewald (zip code: 13212)
212	3. gary schenkel (zip code: 06782) 4. GARY JONES (zip code: 91108)
213	(5. John gaspar Gaspar (zip code: 93535)
213	26. John Gasperoni (zip code: 94703)
212	27. Michael Mounteney (zip code: 4127) Time to dump the polluters, ignore the corrupt lobbying and get with the clean rgy program.
213	8. Lorelei Stierlen (zip code: 75075)
212	9. Annamay Waldman (zip code: 34982)
	60. Gina Gatto (zip code: 94546) 11. Tom Gauntt (zip code: 19020)
	<ol> <li>Cavin Calific (2) Code: 190207</li> <li>Cavin Dillard Dillard (2) code: 28711) Tired of fossil fuels. Stop it! Ocean turbines are the way to go.</li> </ol>
213	3. Gary Verville (zip code: 30188) 2134. Gayle B. Rosenberry Rosenberry (zip code: 21218-3525) 2135. Gay
Wil	liamson (zip code: 45013) 2136. Graciela Barajas Barajas (zip code: 92102) 2137. Gavin Bornholtz (zip code:
	<ol> <li>2138. Louise Rose Blume (zip code: 30527) 2139. Geoff Browne Browne (zip code: 07646)</li> <li>gwen irish (zip code: 1701) Clean energy and climate go together like bread and butter. Poisons are NOT wanted.</li> </ol>
214	1. Gerald Calnen (zip code: 06082) The time is long overdue to switch from fossil fuels to renewable energy sources. Our
glo	pal climate will not wait for us to make up our minds. No matter how it is examined, fracked gas is not clean gas. Please do
	allow the pipeline projects to continue.
266	<ol> <li>greg Yaroslow (zip code: 92373) 2143. George Chianese (zip code: 19144) 2144. george craciun (zip code: 33592- 0) 2145. G. D. (zip code: 19128) 2146. Gudrun Dennis (zip code: 32653) 2147. Gerard Dupin (zip code: 75016) 2148.</li> </ol>
Gw	en Nordquist (zip code: 80228) 2149. Jerry Mastriano (zip code: 11375) 2150. Eugene Chin (zin code: 60103-1235)
21!	1. Eugene Bunch Bunch (zip code: 94501) 2152. Gene Lawson (zip code: 98036) 2153. Gene King (zip code:
539	70) 2154. g h g (zip code: 98630) 2155. gennady shvartser (zip code: 11235) 2156. George Davis (zip code: 50) 2157. Geoff Fisher (zip code: 55416) 2158. Geoffrey Pruitt (zip code: 63111) 2159. Geoffrey Saign (zip code:
551	16) 2160. William Geoghegan (zip code: 87505)
21	1. George Anderson (zip code: 22305) 2162. George Kaufer (zip code: 10579) 2163. George Nagorny (zip code: 19380)
210	<ol> <li>Georgia Braithwaite(zip code: 86326) 2165. Georgia Johnston (zip code: 97008) 2166. Gary Purcell (zip code: 48042)</li> <li>Gerald Dalzell Dalzell (zip code: 7070) 2168. Geri Collecchia (zip code: 33027)</li> </ol>
21	i9. Alessandro Piergentili (zip code: 01100) No more pipelines
21	0. Gerton Westerop (zip code: 34112) 2171. Gilda Fusilier (zip code: 95831) 2172. G G Johnson (zip code: 20009) 2173.
21'	vard & Gail Laurson (zip code: 80235-2979) 2174. Gary Granat (zip code: 81526-8654) /5. Gary Greif (zip code: 54301) 2176. gail stamps (zip code: 47713)
nat	aral gas might be a "clean" source of energy, but fracking for it isn't safe or clean. <b>2177. gary stillwell</b> ( <i>zip code:</i>
554	38) 2178. Geoffrey Guttmann (zip code: 76107) 2179. Garret Hammond (zip code: 60515)
211	10. G Hardiman (zip code: 30084) 11. Lisa Gherardi Gherardi (zip code: 95032) 2182. Matthew Heizman (zip code: 90042) 2183. glenn hough (zip code:
274	03) 2184. Virginia Mudd (zip code: 87565)
21	5. Corinne Dowling (zip code: 94110) 2186. Peter Mounier (zip code: 93443) 2187. Robert Gifford (zip code:
605	19) 2188. Lorri Goldman (zip code: 92833) 2189. Michael Denton (zip code: 94578-3806) 2190. Gillian Anderson (zip
coa 21	e: 95407) 2191. Gillie Guest (zip code: Hr2 8ba) 12. Ginger Ikeda (zip code: 80304) 2193. Virginia Davis (zip code: 98072) 2194. virginia broadbeck (zip code: 22960-
271	5) 2195. Gisele Germain (zip code: 85045-1724) 2196. janet forman (zip code: 10011) 2197. Rebecca Stewart (zin code:
958	33) 2198. Scott Coppola (zip code: 97405) 2199. Giuliana Mazzeo (zip code: 11563) 2200. James Gramm (zip code:
	03) 2201. Janice Diugosz (zip code: 08722) 22. Greg Kimber (zip code: 04984)
	3. Gladys Eddy-Lee (zip code: 92115)
	4. Michael Glasheen (zip code: 99615)
	15. Hal Forsen (zip code: 92672) NO 16. Glenn Ross (zip code: 95502) GET IT DONE NOW
220	17. Glenn Freeman (zip code: 49546-7633) 2208. Glenna Gray (zip code: 97131) 2209. Glenn Moss (zip code:
744	47) 2210. Glenn Gawinowicz (zip code: 19075) 2211. Glenn Thureson Thureson (zip code: 98116) 2212. Glen Zorn (zip
cod	e: 98712)
22.	3. George M Lewis (zip code: 93402) 4. Georgia Libbares (zip code: 60611)
	15. Gloria Linda Maldonado (zip code: 94062)
22	6. Georgia Mattingly (zip code: 80504-3908)
22	17. Gloria Alvarado (zip code: 77099)
22	18. Gloria Stacholy (zip code: 33134) KEEP IT IN THE GROUND!!! WE SAY HELL NO!!!! 19. Gloria Morrison (zip code: 79772) 2220. Glorlamarie Amalfitano Amalfitano (zip code: 92111) 2221. Peter Wong
(zi)	code: 94131)
22	2. Gordon MacAlpine (zip code: 80517) 2223. Gerhardus Malherbe (zip code: 06625) 2224. Judith Dove (zip code:
210	37) 2225. Gary Massing (zip code: 94121)

#### CO31 – Oil Change International (cont'd)

2226. Gregg Matson (zip code: 95624) 2227. Gary C Meixsell (zip code: 18072) 2228. Gina Caracci (zip code: 32926) 2229. George Milkowski (zip code: 60645) 2230. G Nimic (zip code: 22191) 2231. Warren Salyer (zip code: 92232) 2232. Gary Williamson (zip code: 62220) 2233. Gary Neely (zip code: 98532) 2234. Pat Long (sip code: 95625) 2235. Diane Pryor (sip code: 49058) 2236. Steven Solomon (sip code: 90046) 2237. Martha Strother (sip code: 70204) 2338. Judy McBride (sip code: 49175) Stop the fracing. I want my grandchildren to be able to grow up with out you destroying the world. Do not pass anything that allows you to make money on the well being of this country. 2239. jane goldman (zip code: 94019) 2240. Michele Johnson (zip code: 10598) 2241. Jeffrey Gomes (zip code: 02914) 2242. Heide Coppotelli (zip code: 28718) 2243. Gina Paisley (zip code: 95476) 2244. Randy Howe (zip code: 61350) 2245. David Brooks (zip code: 93438) 2246. Thomas Hoffman (zip code: 24134) 2247. Gordon Morrison (zip code: 01366) 2248. Gordon Harwell-Spaulding (zip code: 97230) 2249. Amanda Gordon (zip code: 32773) 2250. Tracey Fleming (zip code: 76116) 2251. Steve Gould Gould (zip code: 10014) 2252. Pat and Gary Gover (zip code: 36532) 2253. Gall DuFresne (zip code: 03461) 2254. Greyson Pannill (zip code: 01096) 2255, Grace Burson (zip code: 3264) 2256. George Quasha (zip code: 12507) 2257. Alexandra Grazlano (zip code: 91360) 2258. Donna Gasharro (zip code: 54914) 2259. Grace Adams (zip code: 06226) Keep it in the ground to give everyone's grandchildren and great grandchildren an good chance at life. 2260. Grace Leal (zip code: 85719) 2261. Grace Weston (zip code: 97217) 2262. Gracie Roberson (zip code: 22963) We need to stop future investments in fossil fuels and divert our energy investment efforts toward clean, renewable energies. PLEASE---no more pipelines! 2263. Grace Wong (zip code: 33023) 2264. Karen Johnson (zip code: 03458) 2265. Margaret Stapleton (zip code: 93003-60921 2266. Dorothy Anderson (zip code: 2191) FERC has an unusual power. It can save us all from the pollution and global warming of pipelines. Please use your power for good. 2267. Barbara Arlen (zip code: 97330) 2268. Mary Lou Church (zip code: 81201/30575) 2269. Arda Pounds (zip code: 68504) We have to stop postponing the inevitable! Please reject the building of any more pipelines that carry fracked fuel! This is about our global commitment and responsibility as well as about the safety and well being of our own country and citizens. Just do the right thing: NOW! 2270. Star Star (zip code: 03878) you can't save the world AFTER it's too late!!!! you can only DOOM humanity with malice of forethought!!! 2271. Tim Owens (zip code: 65712) 2272. Brian Pierce (zip code: 54311) 2273. Grant Rich Rich (zip code: 54609) 2274. Gregory Duncan (zip code: 6304) 2275. Ann Kristal (zip code: 3216) 2276. Gregory Malueg (zip code: 53511) 2277. Dit elwards (zip code: 54973) 2278. Chelsea Pierles (zip code: 33613) 2279. Janet Tab (zip code: 67565) 2280. Louella Green (zip code: 70058) 2281. Drew Hudson (zip code: 29201) 2282. Ellen Darden (zip code: 24060) 2283. Thomas Rummel (zip code: 92104) 2284. Bruce Greene (zip code: 18822) 2285. JIII Greer (zip code: 64866) 2286. Glenda Kohlhafer-Regan (zip code: 23322) 2287. Gregg Sparkman (zip code: 94301) 2288. Greg Meyer (zip code: 63139) 2289. G K (zip code: 55044) code: 93012) 2299. Carl griffith [zip code: 61726) 2300. linda stewart [zip code: 33914] 2301. Chris Grimley Grimley [zip code: 19454] 2302. john cabe [zip code: 37771] 2303. Robert Oestreicher [zip code: 53551) 2304. Gary Marshall (zip code: 19522) 2305, Gregory Boll (zin code: 49878) 2306. Mark Grossman (zip code: 94301) 2307. Nancy Kean (zip code: 48183) 2308. David Bolman (zip code: 45856) 2309. Antonio Martinez (zip code: 91902) 2310. George Schneider (zip code: 92105) 2311. Scott Scott (zip code: 98122) Do the right thing! 2312. Greg Sells (zip code: 78741-6942) 2313. Glenda Lilling (zip code: 10573) 2314. George Stimpson (zip code: 19103) 2315. Earl Gregg Swen III (zip code: 36089) 2316. glenn Embrey (zip code: 90278-2533) 2317. Thomas Prost (zip code: 463231 2318. Gerson Lesser, M.D. (zip code: 10471) we have only one planet and are fast making it unlivable. We must do every single thing to reduce and potentially reduce use of fossil fuels. 2319. Ralph Notaro Notaro (zip code: 07067) 2320. Chris Hahn (zip code: 92653) 2321. Michael McCrorey (zip code: 15642) 2322. Gunnar Sievert (zip code: 5482) 2323. Anita Gunsallus (zip code: 55940) 2324. J. Barry Gurdin (zip code: 94122) 2325. Georgiann Young (zip code: 49085) 2326. Sue Nuccio (zip code: 13206-3146) This is our only home! Wake up!! 2327. Guy Amsler [zip code: 72202] 2328. G.W. Cheney [zip code: 28607] 2329. George Weinkotz [zip code: 11001-1923] 2330. George Wilder [zip code: 34102] 2331. gary larson [zip code: 99362]

#### CO31 – Oil Change International (cont'd)

2332. Glenn Wright (zip code: 13820-2703) Keep the pipelines away from farms and away from residential places. In other words: KEEP THEM UNBUILT

2333. Strouse Glen (zip code: 89415) 2334. Gwyn Williams (zip code: 95476) 2335. Ellen Brouillet (zip code: 3901) 2336. A. M. Brehm (zip code: 63626) 2337. Jena Reld (zip code: 92592) 2338. Heldl Bean (zip code: 92663-2615) 2339. Helen Templeton (zip code: 47714) 2340. Herman Diaz (zip code: 2130)

2341. Harriet Dresing (zip code: 28401)

2342. Curtis Hagerman (zip code: L4M 41.1) We can breathe, eat, or drink money. Making profits on the degradation of our life sustaining resources is a mistake we as a species can no longer make.

2343. charles haggin (zip code: 58000) 2344. Deb Hahn (zip code: 75240) 2345. c s S (zip code: 34609) 2346. Holly Kukkonen Kukkonen (zip code: 52240) 2347. Zack Hall (zip code: 70068) 2348. Nalet Kahokialu (zip code: 5727) 2349. Ms. Harley Schastlan-Lewis (zip code: 95823) 2350. Maureen Hamel (zip

code: 29926) 2351. Janet Handford (zip code: 02893) 2352. Henry Newhouse (zip code: 97429) 2353. Edward Hanson (zip code: 80022) 2354. Hans Huang (zip code: 94577) 2355. richard hansen (zip code: 93535) 2356. STEPHEN HANSEN (zip code: 93401) 2357. Alice Hanson (zip code: 55104) 2358. Mark Feldman (zip code: 95401) 2359. Paul McCullough (zip code: 48357) 2360. Sandra Guillen (zip code: 3516)

2361. Gene Fox (zip code: 27948) 2362. C. Bosio (zip code: 92649) 2363. Howard Donaghy (zip code: 98366) 2364. Harmon Greenblatt (zip code: 70125)

2365. Jacquelyn Downing (zip code: 97473) We Must Keep Doing All We Can To Stop This Insane Profiteering Destruction Of

Our Whole Environment////// 2366. William Layman (zip code: 22939) 2367. Regina Milione (zip code: 19462) 2368. James Keats (zip code: 1119) 2369.

2306. within a synthetic cap code: 2002
 2370. Lisa Harrison (zp code: 26025) Do your job, FERCI Stop being the rubber stamp of the fossil fuel industry. Say NO to all

fracked gas pipelines, compressors, and power plants!

Ignorant greedy people will persist, persist, persist till the planet kills us. 2373. Marry Cortsover (zip code: 10122-6125) 2374. Barry North (zip code: 11229) Ignorant greedy people will persist, persist, persist till the planet kills us. 2373. Cynthia Hart (zip code: 13158) 2374. Brenda

other efforts 2380. Haydee Felsovanyi (zip code: 94060) 2381. Haydn Huntley Huntley (zip code: 96768) 2382. Bishop Dansby (zip

code: 22832) 2383. Heather Benac (zip code: 49004) 2384. Helen Bryenton (zip code: 37917) 2385. Harold Copeland (zip code: 77263) 2386. Herb Evert (zip code: 53527) 2387. Harold Dickherber (zip code: 65203) It's time again for the US to lead, to do our part I moderating climate change and,

boot marker breaches (a) oues outsoft a some span to the 0.50 read, to the up part investigation of the marker breaches and the outperfully avoid climate disasters. It is critical for our own security.
2398. D Smith (a)e ode: 10001/2389. Harvey Metzger (z)e ode: 3437) 2390. Dana Rockwell (z)e ode: 02816) 2391. S
richie (z)e ode: 94602/2392. Leonard Hearne (z)e ode: 98223/2393. ed atkins (z)e ode: 9306/2394. Brenda Barbour (z)e ode: 80533/2395. Ms. Linda A. Heath (z)e ode: 44044/2396. Hector Quiles (z)e ode: 34759/2397. held uppgard (zip code: 55417) 2398. Heike Brown (zip code: 79938) 2399. carol heiman (zip code: 67601) BE RESPONSIBLE FOR YOUR ACTIONS!

2400. HARVEY Eisen (zip code: 20814) 2401. shawn heiser (zip code: 94132) 2402. Helen Greer (zip code: 85705-1465) 2403. Helen Smith (zip code: 49071) 2404. Helen Rynaski (zip code: 87571) 2405. Helgaleena Healingline (zip code: 53716) 2406. Sherie Helstien (zip code: 10044)

2407. Mercedes Lackey (zip code: 74017) 2408. Marguerite Boyens (zip code: 30033) 2409. Sarah Kennedy (zip code: 3076) 2410. Heather Mack (zip code: 17522) 2411. Carmen Hendershott (zip code: 10011) 2412. Dawn Hendry (zip code: 801271

2413. Henri Bowman (zip code: 24401) 2414. Henry Frank (zip code: 19153) 2415. John Herberg (zip code: 97405) 2416. Timothy Allen (zip code: 5404) 2417. Hermina Kann (zip code: 97128) 2418. Ramiro Herrera (zip code: 55037) 2419. Trevor Herrick (zip code: 11222) 2420. Jeff Crane (zip code: 80524) 2421. Holly Utz (zip code: 21030) 2422. Judy Buelow (zip code: 54937) 2423. Manmeet toor (zip code: 90024) 2424. Wm

2421. Holly Utz (zip zode: 21030) 2422. Judy Buelow (zip zode: 54937) 2423. Manmeet toor (zip zode: 90024) 2424. Wm Scott (zip zode: 15033) 2425. Heizkiah Johnson III (zip zode: 31721) 2426. Herbert Farkas (zip zode: 65068) 2427. Hod Gray (zip zode: 93109) 2428. HOLLY Cohen (zip zode: 15509) 2429. Hal Glidden (zip zode: 90225) 2430. Heather Haverfield (zip zode: 93260) 2431. HENRY H. WESTMORELAND MD (zip zode: 12594) 2432. Christine Weise (zip zode: 25601) 2433. Doug and Jan Parker (zip zode: 81323) 2434. Abo Schrock (zip zode: 9540) 2435. Sue Hightower (zip zode: 23212) 2436. Hilary Emberton (zip code: 9545) 2437. Hilary Jones (zip zode: 9540) 2438. Hilary Mulligan (zip zode: 9547) 2439. Wilds Falow (zip ode: 92752) 2440. Krither terms (zip zode: 9540) 2438. Hilary Mulligan (zip zode: 55667 2439. Hilda Foley (zip code: 92705-2258) 2440, Kathy Grant (zip code: 59789) 2435. Filat y Molingau (zip code: 92705-2258) 2440, Kathy Grant (zip code: 59539) 2441. Itob good (zip code: 6692) 2442. Hillary Coby (zip code: 60504) No more Fracking, no more pipelines and no more bomb trains. What kind of world do we want to leave to our children and grandchildren? I want mine to have clean air and drinkable water!

2443. Martha Johnson (zip code: 19732) 2444. John Passante (zip code: 07620) 2445. Laura Magzis (zip code: 3301) 2446. r dean James (zip code: 72034) 2447. Hitomi K (zip code: 30096)

<sup>1</sup> usen jones (2) Code: 22039/2447, mitotin K (2) Code: 30076) 2448. Derek Johnson (2) code: 21350/2449, Hardid Brown (2) code: 77573) 2450. Harry Conrow (2) code: 8108) 2451. Harlan Lebo (2) code: 90530/2452. Herbert Sayas (a) code: 70115) 2453. Henry Lahey (2) code: 3233/2454. Howard Lanus (2) code: 3283/2453. Howard Lepzellett (2) code: 10462/2456. Henry Lahey (2) code: 37033) 2454. Howard Lanus (2) code: 3283/2453. Howard Lepzellett (2) code: 10462/2456. Henry Lahey (2) code: 70451) 2457. Helen Huyffer (2) code: 03402/2458. Hilary Malyon (2) code: 7365) 2459. Heather Johnston (2) code: 93656) 2460. Helen Mendoxa (2) code: 13490/2461. Huguett Monar (2) code: 93015)

2462. Helen Simpkins (*abc code: 07419*) 2463. Heletor Amar of *ap code: 39015*) 2464. Terri Rose (*abc code: 37502*) 2465. Natalie Van Leekwijkk (*zbr code: 607419*) 2463. Heteror Amar of *(ap code: 37205*) 2464. Terri Rose (*abc code: 37502*) 2465. Natalie Van Leekwijkk (*zbr code: 60844*) 2466. Fred Hohtweg (*zbr code: 22206*) 2469. Janes Holman (*zbr code: 60148*) 2470. Joel Quaintance Quaintance (*zbr code: 7402*) 2461. Holly Mosher (*zbr code: 22266*) 2469. Janes Holman (*zbr code: 60148*) 2470.

#### CO31 – Oil Change International (cont'd)

2472. Cheryl A Gross (zip code: 34232) 2473. Stephanie Joyner (zip code: 21228) 2474. Hope Carr (zip code: 11209) 2475. S Slayton (zip code: 98031)

2476. Tim Hopwood (zip code: 94043) 2477. Oren Horst (zip code: 36125) 2478. Richard Houle (zip code: 97221) 2479. Ryan Houlette (zip code: 2140) 2480. steve kent (zip code: 45011) 2481. Howard Cohen (zip code: 94306) 2482. Susan Porter (zin code: 18428)

2483. Hans-Peter Heinrich (zip code: 60435) 2484. William Phillips (zip code: 27330) 2485. Michelle Hofmann (zip code: 97203) 2486. Jean Johnston (zip code: 79912) 2487. Harold Holtzinger (zip code: 17402) 2488. Robin Harper (zip code: 98277)

2489. Robert Turner (zip code: 10710) 2490. Henry Schlinger (zip code: 91501) 2491. Howard J. Seigel (zip code: 97215) 2492, Veronica Stein (zip code: 10992)

2493. Hugh Sutherland (zip code: 93117) We should divert our focus to renewable infrastructure first, then determine if and be wording the provide from forsil fuels. Delaying that approach performs and the two mode ministricture instruction are ensured to move the performance of the pe

2500. Paul Hunrichs (zip code: 92071) 2501. Leah Hunt (zip code: 84664) 2502. Adrienne Hochberg (zip code: 33477) 2503. David Hurley (zip code: 21015) 2504. Robert Miller (zip code: 85254) 2505. Huxley Coulter (zip code: 96011) 2506.

Lloyd Guptill [zip code: 72790] 2507. Helen Dickey (zip code: 94530] 2508. Holly Gardner (zip code: 7520) 2509. Beverly Foster (zip code: 19087) 2510. Herbert W. Myers (zip code: 94025-6542) 2511. Helen Yeomans (zip code: 66212) 2512. Susan Jacques (zip code: 87501) 2513. Arlene Aughey Aughey (zip code: 7663) 2514. Jeff Wells (zip code: 92115-2112 obsta jaques (cap code: 951) 2513; Artener Righes Angles (2) Code: 7653 2514; Jen Wein (2) Code: 92115-1777 2515, James Cooke (cap code: 97106) 2516. Suzanne Peña (cap code: 9285) 2517. R. Brent Palmer Palmer Palmer (zip code: 22963) 2518. Iana Jones (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Ieva Berzins (zip code: 2000 (2000) 2518. Jana Jones (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 2000) 2518. Jana Jones (zip code: 2000) 2518. Jana Jones (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 2000) 2518. Jana Jones (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 83615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Ben Goodin (zip code: 93615) 2520. Jeva Berzins (zip code: 94901) 2519. Benzins (zip code: 93615) 2520. Jeva

15216) 2521. Ibrook Tower (zip code: 17404) 2522. michael daveiga (zip code: 94518) 2523. elizabeth bartholomew (zip code: 50613) 2524. Judi Batchelor (zip code: 32162) The gas, oil, coal, nuclear, diesel industry contaminate what we need to live now and in

the future. That is a fact. All fossil fuel and nuclear industries and processes chemically contaminate what we need to live. Same people don't destroy what you need to sustain life only profit over people corporations do. If you want to continue all forms of life you better see the urgency to immediately transfer to only clean energy sources. Why? Do you want to live? What about your kids, grandkids and their needed life sustaining resources. The Chinese are coming to the USA because their pollution is so bad, that is what she said on TV. You want to see how China destroyed their life sustaining resources go to China, look at the deaths, contaminated water, on and on. No regulations, dump, pollute and contaminate what we need to live happens daily through the next government permit approval process. Soon we will be another polluted chemically contaminated country with people dying. 2525. Ilana Dworin (zip code: 10019)

2526. David LeRoy (zip code: 4240) Companies who intend to profit from their dangerous gas pipelines need to be stopped NOW! Our citizenry is more important than the profits for polluting fossil fuel companies!!!! 2527. Gail Roberts Roberts (zip code: 91980) 2528. Igor Tandetnik (zip code: 11375) 2529. John and Cathy McClellan (zip

code: 63116) 2530. Laura Sungenis (zip code: 18709) 2531. Inderjit Jaipaul (zip code: 19342) 2532. Michael Robertson (zip code: 46166) 2533. I Kessler (zip code: 95448) 2534.

Eugene Seymour [zip code: 13683] 2535. Debra Moore (zip code: 48420) 2536. Ilmariuen Vogel (zip code: 02539) FRACKING DESTROYS WATER AND CONTAMINATES PERMANENTLY THE FRACTURED SHALE AND THE ADJACENT AQUIFERS. GAS AND FOSSIL FUEL EXTRACTION CONTAMINATE THE AIR, THERE IS NO RATIONALE TO JUSTIFY THE RISK. WE HAVE SOLAR NOW.

2537. Ilona James (zip code: 97544) 2538. Bonnie Fletcher (zip code: 33713) 2539. Kathy Moseley Moseley (zip code: 60647)

2540. Mike Alperin (zip code: 95005)

2541. Dodle 'Shepard (zip code: 91505)

2542. Susan Bailey-Pruc (zip code: 44333)

2543. A Wilson (zip code: 60628) 2544. Christopher Panayi (zip code: 10101)

2545. David White (zip code: 04609) I own a small auto repair shop 2546. Mary Browne (zip code: 32081) 2547. Michael Carter (zip code: 97215) 2548. Connie Lippert (zip code: 29672) 2549. Indira Smith (der pode: 90092) 2550. Troy Windsor (zip code: 94601) 2551. Sharon Powell (zip code: 5604) 2552. susan

silberberg (zip code: 80540) 2553. Susan Tatsul-D'Arcy (zip code: 95063) 2554. Chris Daum (zip code: 59870) If we cannot guarantee the safety of these communities and the surrounding area that must live with the pipeline, then they should not be built. 2555. jack Ingersoll (zip code: 54664) 2556. Ingrid Wolf (zip code: 49525) 2557. Ingvid Christensen (zip code: 2624)

2558. KV (zip code: 46383) 2559. E, (zip code: 60618) 2560. Margot Borden (zip code: 85254)

2561. Frances Burke (zip code: 2114) No fracking you'll destroy the planet EARTH Stop 2562. Andrés Steinmetz (zip code: 95502) 2563. Ada Khoury (zip code: 28787) 2564. Gale Wallach (zip code: 11743) 2565. Marshel Copple (zip code: 90602) 2566. Raquel Buxton (zip code: 77093) 2567. Ira Gerard (zip code: 60177) 2568. Irene Kibsio (zip code: 8107)

2569. Elaine Ragsdale (zip code: 60504) We all know this has everything to do with large profits and nothing to do with energy savings for the people. The only thing the fossil fuel industry cares about is lining their pockets. And it will NEVER be enough money...they will destroy what they need to get the profits they want.

2570. Iris Meltzer (zip code: 44240) 2571. Alexa McMahan (zip code: 92649) 2572. Shefena Kong (zip code: 60616) 2573. Irwin Hoenig Hoenig (zip code: 20726) 2574. Mrs IB Pickering (zip code: 44122) 2575. Irwin Schpok Schpok (zip code: 08759-7031) 2576. Isabelle Segadelli (zip code: 45387)

#### CO31 – Oil Change International (cont'd)

2577. Beth Lewis (zip code: 37221) There is simply nothing more important than cutting our greenhouse gas emissions. We have no choice 2578. Joyce Lewis (zip code: 98282) 2579. Susan Hampel (zip code: 98245) 2580. Steven Fedorko (zip code: 98260) 2581. Julia Steed Mawson (zip code: 03076) Keep it in the ground ... analyze the need properly and support renewable energy 2582. Issie Ryans (zip code: GU212BQ) 2583. Brianna Kohlenberg (zip code: 98390) 2584. Martino Mendine (zip code: 80904) 2585. Gundolf Matheus (zip code: 03149) 2586. Pamela Magathan (zip code: 90068) 2587. Ivan Huber Huber (zip (a) 50 - 61 - 2005. (minut matters (a) fooe. (517-) 2500. rainet maganian (2) fooe. 3006) 2501. (Van noer (2) food: 3006) 2500. (rainet maganian (2) food: 3006) 2500. (rai [zip code: 87106] 2594. Jean cameron (zip code: 77845) 2595. Julianna Riley (zip code: 94608) 2596. Judy Genandt (zip code: 60118-3038) 2597. Jennifer Ho (zip code: 96720) 2598. James Stagnitta (zip code: 80012) 2599. Jim Jones (zip code: 44275) 2600. Robert Nieves (zip code: 37215) 2601. J Luika (zip code: 46143) 2602. Javier Aguilar (zip code: 61802) 2603. Janice Banks (zip code: 30225) 2604. Judit Beltz (zip code: 46350) 2605. Jane Boyajian (zip code: 92032) 2606. Jack Gegner (zip code: 3023) 2606. Jack Stage (zip code: 37215) 2601. Jack Stage (zip code: 37215) 2606. Jack Stage (zip code: 37215) 2607. Jack Stage (zip code: 37215 21045) 2607. Jacqueline Edwards (zip code: 01730) 2608. Jack Schonewolf (zip code: 19130) 2609. Audrey Skowronski (zip code: 32566) 2610. Jack Cogswell (zip code: 02719) 2611. Jack Kincaid (zip code: 94546) 2612. Jackie Demarais (zip code: 76049) 2613. jacki masar (zip code: 3732) 2614. jacki Mohr (zip code: 37470) 2012. jacki providna tak (zi (252) 2616. Blaine Sorensen (zip code: 4733) 2614. jacki Mohr (zip code: 3913) 2615. Danielka Jackson (zip code (252) 2616. Blaine Sorensen (zip code: 4733) 2617. Julie Coker (zip code: 76226) 2618. P.Jacquelyn Schmidt (zip code: 3726) 2619. jacqueline Pornici (zip code: 08540) 2620. Jackie Hanser (zip code: 48017) 2621. jacqueline wurn (zip code: 80302) 2622. Laura Vadaj (zip code: 44147) 2623. Jay Howell (zip code: 14850) 2623. Jay Howen (*ap coae: 14050*) 2624. Justin Barnett (*cia coae: 81657*) Life over death and money over people is your policy. You pander to the Devil for \$\$\$\$\$5 and then lie to the public so you can cover up the real dangers. BURN baby Burn, all you wicked, evil greedy FUCKS!! 2625. Hillar gestes (*siz nocis: 6030*) 2626. An anonymous spiper (*iar noce 22903*) 2627. Jake W (*zip code: 01070*) FERC, there is nowhere to hide. We stopped the pipeline in Massachusetts, we'll stop them everywhere. everymetre. 2628. Julie Kloper (zip code: 95050) 2629. Lester and Judy Hoyle (zip code: 97523) Please do this for your grandchildren and everyone's future. 2630. Joanne Kondratieff (zip code: 74801) 2631. Jared Mabie (zip code: 92264) 2632. Barbara Root (zip code: 95519) 2633. James Perkins (zip code: 90037) 2634. James Dawson (zip code: 95618) Please act now before its to late to stop runaway climate change and we will rapidly switch to an all renewable/sustainable energy system that will actually benefit everyone. 2635. James Dixon (zip code: 26764) 2636. james brewer (zip code: 72936) 2637. James Balder (zip code: 21053) 2638. James Berge (zip code: 50448) 2639. James Dwyer (zip code: 91711) 2640. Jameseric McGee (zip code: 90621) Renewables, carbon blobs. 2641. James Lowe (z/p code: 78653) 2642. Jim Marsden (z/p code: 55109-4843) 2643. Mary Derbick-Johnson (z/p code: 60707) 2644. James Ashtraft (z/p code: 95025) 2645. Jan Robinson (z/p code: 94109) 2646. Janice Stephens (z/p code: 5518) 156) 2647. jan Thomas (zip code: 62966) 2648. janace henry (zip code: NOA1HO) We don't need anymore environmental disaters. What will future generations have to look forward to. No water or land. Only destruction of mother earth. All in the name of money! BS!!!!! 2649. Joseph DeMarco (zip code: 07420) We don't need another process to wreck our planet. 2650. Barbara Harper (zip code: 95012) 2651. Judith gatland gatland (zip code: 02300) 2652. Stephen Mudrick (zip code: 65203) 2653. Jane Kusel (zip code: 20175) 2654. Jane Wood (zip code: 5010) 2053. Steption multi fix (zip code: 65203) 2653. Jane Kusel (zip code: 20175) 2654. Jane Wood (zip code: 65108) 2655. Jane Woods (zip code: 2408) 2659. Jane Barch Resses (zip code: 34949) 2659. Jane Barch Resses (zip code: 2412) 2660. Janeen Portcher (zip code: 8401) Burch Pesses (zip code: 9712) 2660. Janeen Portcher (zip code: 8401) 2661. Jane Foran (zip code: 4101) The ego of "The Masters of the Universe" set knows no bounds. How many CEOs and COOS of the fossil fuel corporations live anywhere near a cool mine, open pit mine, fracking well, pipeline or train rails that carry any of the extracted foundation that holds this planet together? Most likely, not even 1% of the aforementioned 1%! Yet many of us do live in proximity to these operations. Not by choice we may be subjected to explosions, fires, poisoned water and air. I have to one ap solution is an inclusion performance of the solution of the solution of the solution of the provided and an inclusion of the solution of the solutio 2668. Janet Spain (*zip code: 81122*) 2669. Janet beatty (*zip code: 93401*) 2670. Janet King (*zip code: 02482*) 2671. Janet Wyatt (zip code: 81504) The future of our planet is more important than money for a few millionaires . There are jobs in clean energy to absorb the lossof work from new pipelines. We need to be thinking forward and not backward or greedy. 2672. Janet Zimmerman (zip code: 10969) 2673. Jan Garrett (zip code: 42104-3809) Do not encourage the growth of extractive methods that put climate at risk and transportation modes that put communities at 2674. Jan Modjeski (zip code: 29576) 2675. Jerome Zornesky (zip code: 07450) 2676. Jaanice Minott (zip code: 2007 Hain Nuonesa (Leip Leip 2010) 2015; Jer Unite San Leip 2010 (2015) 2015, Jean Leip Manie Vander (Leip Code: 2010) 2015, Jean Columbia (Leip Code: 2010) 2015, Jean Columbia (Leip Code: 2010) 2680, Janie Lucas (Leip Code: 2010) 2680, Janie Celserman (Leip Code: 3017) 2680, Janie

#### CO31 – Oil Change International (cont'd)

code: 34667) 2686. Jared Laiti (zip code: 95835) 2687. Jared Cornelia (zip code: 19804) 2688. Jared Howe (zip code: Context 2018 (2019) 2000 (2018) 2018 (2018) 2017 (2018) 2017 (2018) 2018 (2 2697. Jason Steadmon (zip code: 89005) 2698. Soretta Rodack (zip code: 10003) 2699. Jason Weekley (zip code: 98607) 2700. Jane Augram (zip code: 33549) 2701. Javier Andre (zip code: 91801) 2702. Francisco J. Velez (zip code: 10475) 2703. L'OU faite suigram (ally 10de 3597) FVO Fabrier anna (alge tober 3100) 2702 Francischer Volge 2 (alge 10de 379) 2703. Javier Rivera (alge node 1121) 2704, Joseph Walstrum (alge tober 31234) 2705. Gusti Bogok (alge node 3031) 2705. Javier Rivera (alge node 3055) 2707. Janet Kunn (alge tober 31234) 2705. Gusti Bogok (alge node 3031) 2709. James Lobdell Lobdell (alge node 3594) 2710. Javin Chase (alge code: 62566) 2711. Jameson McDonnell (zip code: 19148) 2712. Jay Rutherdale (zip code: 95826) 2713. Jay Schelman (zip code: 60660) 2714. Jay Rozner (zip code: 33442-2445) 2715. Jason Collins Collins (zip code: 32068) 2716. Richard Johnson (zip code: 98227) 2717. James Bachman (zip code: 2720. Jay Barr (zip code: 33702) 2721. Julia Bazar (zip code: 94705) 2722. James Bothenek (zip code: 12054) 2723. John Davis (zip code: 24201) 2724. Mary Beattle (zip code: 85351) 2725. Joanna Behrens Behrens (zip code: 83127) 2726. Judy Beeman (zip code: 76088) 2727. Jasmine Wolf (zip code: 06238) 2728. Judith Bluhm (zip code: 98092) 2729. Janice Mohn (zip code: 22602) 2730. Jerilyn Bodemar (zip code: 95076) We must stop fracking and oil trains & pipelines that endanger our land, our waters and our health. Invest instead in renewable energy. 2731. JAMES BOISSONNAULT (*zip code: 22301*) 2732. Jeanette Redmond (*zip code: 98221*) 2733. James Broehl (zip code: workingfam) Stop fracking and building pipe lines 2734. Jim Brown Brown (zip code: 13206) 2735. Jeffrey Brown (zip code: 60643) 2736. Janls Todd (zip code: 08550) 2737. Joe Buhowsky (zip code: 94582-4865) 2738. Jeanne Busacco (zip code: 27712) 2739. Jonathan Carlson (zip code: 87106) 2740. John Carr (zip code: 32118) 2741. Joseph Catania (zip code: 93728) 2742. K Castelluccio (zip code: 60185) 2743. Joseph Fell (zip code: 06770) 2744. James A Clark Jr (zip code: 80911) 2745. John Cooper (zip code: 96772) 2746. Janet Campbell (zip code: 97330) 2747. John Markowitz (zip code: 10024) 2748. James Nelson (zip code: 87825) 2749. J nelson (zip code: 51537) 2750. Jason husby (zip code: 55412) 2751. Jeffrey Cohen (zip code: 1969) 2752. Jeffrey Collins (zip code: 27514) 2753. Jared Collins (zip code: 46545) 2754. Judy Commons (zip code: 95821) 2755. James Connolly (zip code: 95926) 2756. John Cooper (zip code: 17837) 2757. Joanne Corey (zip code: 13850) It makes no sense to build new fossil fuel infrastructure at a time when we must phase out all fossil fuels - including methane - as rapidly as possible. 2758. Jeanne Clougher (zip code: 33584) We do not have any choice, it's this or negligently destroy our beautiful world. There are no If's about it and I don't care what reasons are given or whose legacy we are concerned about, the earth comes firs 2759. Joseph Pitt (zip code: 24128) 2760. [ulia Cranmer (zip code: 08088) 2761. John Servello (zip code: 76208) 2762. John Csaszar (zip code: 19522) 2763. Julie Sears (zip code: 75080) 2764. judith cohen (zip code: 98112) 2765. John Wiesner (zip code: 94546) 2766. Joseph I. Doran (zip code: 03768) 2767. James Davis (zip code: 30504) 2768. She'ree Choy (zip code: 11234) 2769. John de Haan (zip code: 14468) 2770. Javier Del Valle (zip code: 90640) 2771. Joel Meza (zip code: 94121) Joer Netza (2010): 94(23)
 Z772, Joanna Dewey (27) cole: 91/11) Please, think of the grand and great grand children.
 Z773, Jon Hayenga (aip code: 55976) 2774. John Diamond (2ip code: 23606)
 Z775, Jacaby Dhinbefre (2ip code: 1001) 2776. Dariene Jakusz (2ip code: 54407) 2777. Jeff Perzynski (2ip code: 98027-7309) 2778. Jody Schulman (2ip code: 21073) 2779. Jerry Whitley (2ip code: 28263)
 Z780. Joann Eckstut (2ip code: 21247) 2781. Jean Starket (2ip code: 92632)
 Z780. Joann Eckstut (2ip code: 21247) 2779. Jean Starket (2ip code: 92632) jeanie harvey (zip code: 48080) 2784. Jean Pauley (zip code: 98112) 2785. Phyllis Miller (zip code: 02115) 2786. Jeanne Jebow (zip code: 39553) 2787. Jeanne Pryor (zip code: 95409) 2788. Jeannie Roberts (zip code: 53705) 2789. Jean Schwinberg (zip code: 98105-4230) 2790. Noel Eaves (zip code: 96080) 2791. James Barrington (zip code: 06412) We don't need a larger carbon footprint, polluted well water or sink holes. gas pipelines such as the PG&E pipeline that just exploded in California 2792. Jeffrey Bains (zip code: 32159) 2793. Jeremy Baptist (zip code: 66207) 2794. Joan Berger (zip code: 48193) Do not approve additional 2795. Jan Cowan (zip code: 63301) 2796. Jed Manwaring (zip code: 95405) 2797. Jeffery Green (zip code: 60423) 2798. jeffrey gordon (zip code: 26501) 2799. Jeff Komisarof (zip code: 20854) 2800. Jeffrey DeCristofaro (*zip code: 28804*) 2801. Jeffrey Kramer (*zip code: 80027*) the only pipelines we need are for water 2002. Jeffrey Luckay (zip code: 44221) 2803. Jeanne Fratto (zip code: 97202) 2804. Jean Glassman Glassman (zip code: 02476) 2805. Jo Hewitt Hewitt (zip code: 46201) 2806. Kendra Waddell Waddell (zip code: 85730-1713)

#### CO31 – Oil Change International (cont'd)

2807. James Klein (zip code: 78411) This remains a vexing problem primarily due to industry's ability to curry favor with elected officials. The corrupting influence of money in our political system is undermining our democratic traditions and discouraging Americans from voting and/or running for office. This ominous development may well end our experiment in representative democracy unless we alter this decades-long trend. For the sake of the republic, we must amend the US Constitution to state that corporations are not people (and do not have constitutional rights) and money is not speech (and thus can be regulated by state and/or federal campaign finance laws). Short of accomplishing this, no other reform of significance will be achieved. The moneyed interests will turn any reform to their benefit, often at the expense of the nation as a whole.

2808. Jennifer Kardiak (zip code: 10003) 2809. Jennifer Cohen (zip code: 60173-5739) 2810. Jenni Kelley (zip code: 93453) 2811. Jenette Downing (zip code: 05081)

2812. Jennifer Lake (zip code: 84123) 2813. Jen H (zip code: 32405) 2814. jen Bradford (zip code: 91977) 2815. Jennie Lee (zip code: 26101) 2816. ] S (zip code: 07047)

2817. Jennifer Schaafsma (zip code: 21409) 2818. Jennifer Talarico (zip code: 8108) 2819. Jennifer Thomson (zip code: 17837) 2820. J K (zip code: 94080) 2821. Jenny Churchill (zip code: 61356)

2822. jenny england (*zip code:* 91350) 2823. jens Muhle (*zip code:* 92037) 2823. Janet Rexroth (*zip code:* 92512)

2825. Jeriene Walberg (zip code: 97701) 2826. jeri pollock (zip code: 91001)

ZB27. MARY R0JESKI (*zip code: 90405*) What do you want your child to inherit??
 ZB28. Jerome Roth (*zip code: 85281*) 2829. Jerome Roth (*zip code: 85281*) 2830. Jerome Schaack Schaack (*zip code: 85281*)

80230

2831. Jerry Jorgenson (zip cude: 75023) Fossil fuels belong in the ground, not in pipelines. We must get off of fossil fuels if we are to have a future.

2832. Jerry Carow (z/p code: 89046) 2833. Jerry Lewis (z/p code: 73071) 2834. Jerry Landau (z/p code: 05301) 2835. Jerry Levesque (z/p code: 90275) 2836. Jeanne Erite (z/p code: 95926) 2837. Jessea Greenman (z/p code: 94609) 2838. JESSE COUNTERMAN (z/p code: 51104) 2839. Jesse Kozak (z/p code: 92024)

 2840. Jessica Bader [aip code: J119/2035, Jesse Rozan (apt toue: 24047)
 2840. Jessica Bader [aip code: 10016] 2841. Jessical Loiterero (api code: 86011) 2842. Jessamine Belland (aip code: 49719)
 2843. Jessica Bader [aip code: 46201] 2844. Jorge estomba (aip code: 33178) 2845. Jeanette McCalliser (aip code: 53219) 2846. Will Bownder (aip code: 10076) 2841. Jayre (aip code: 55616) 2846. JN (aip code: 35055) 2849. J
 Alexander (aip code: 20781) 2850. Joan Yater (aip code: 22308) 2851. Jez Creek (aip code: 1051NI) 2852. Joe Atkinson (aip code: 22308) 2851. Jez Creek (aip code: 1051NI) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 2018) 2852. Joe Atkinson (aip code: 2018) 2851. Jez Creek (aip code: 201 code: 72901)

2853. Jeanne Friedman (zin code: 10024)

2854. Joyce Stoffers (zip code: 85351)

2855. Jerome Hossli (zip code: 60607)

2856. Jean Goetinck (zip code: 85746) We must stop destroying the planet. We have no other place to live.

2857. John Hainly (zip code: 70806) 2858. Jillian Fiedor (zip code: 59101)

2859. Joe Files (zip code: 85120) Stop fracking, right fracking now!!!

2860. Janile Fillmore (zip code: 97006) 2861. John Francis (zip code: 22903) 2862. j trinkaus (zip code: 12846) 2863. John Fritz (zip code: 48103) I am 77 years old, have a Ph D in Physics and have been talking about the climate crisis for more than 5 years. I live in Ann Arbor, MI. Atmospheric CO2 is 33% greater than it have been for 800,000 years. LET'S WAKE UP AND STOP THIS INSANITY

2864. Jerl Fonté (zip code: 90277) 2865. Joe G (zip code: 17111) 2866. Janice Haynes (zip code: 97760) 2867. Gina Rosati (zip code: 03054) 2868. Judy Joseph (zip code: 11229) 2869. Jean Kuhn (zip code: 07921) 2870. Janet Glover (zip code:

2871. John Nickum (zip code: 85268) 2872. Joseph Goble (zip code: 61455) 2873. John Golowich (zip code: 20102) Climate change is real and we have to get serious about it. 2874. Jane Graham (zip code: 80526) 2875. Jeffrey shurtleff (zip code: 94066) 2876. Jeffrey Hemenez (zip code: 94583) 2877. John Hammel (zip code: 38401) 2870. James Rainbolt (zip code: 52632) 2879. Jeanne Held-Warmkessel (zip code: 19454) 2880. James Cleland (zip code: 4756)

Cole: J9349 (2006) Jallies Utenau (ap 1002: 77-20)
 Z881. Joyce Herzikg (zip code: 63137) 2882. Jonathan Gottlieb (zip code: 01760) 2883. Jane Maddock (zip code: 84109)
 Z884. Janes Mulder (zip code: 12590) 2885. John Ruhl (zip code: 0822-5600) 2886. Jason Hollington (zip code: 32605)
 Z887. Joseph Shulman (zip code: 92115) 2888. Juan Huey-Ray (zip code: 98112) 2889. Jill Weston (zip code: AL7 4NQ)
 Z890. Jill Madigan (zip code: 55272) 2803. Jill Brothers (zip code: 19146) 2894. Jim Lambeth (zip code: 29036) 2895. Jim

Sisk (zip code: 33029)

Sisk (apr cone: 33022) 2896, James Adcosk (zip code: 78750) 2897, James P Picardi James Picardi (zip code: 1370) 2898, James Amory (zip code: 13760) 2899, James Brunton (zip code: 33612) 2900, Jim Clapp (zip code: 55671) 2901, James Corrigan (zip code: 53005 2902, James Sterner (zip code: 1024) 2903, James Hughes (zip code: 02141) 2904, James & April Thompson Thompson (zip code: 28739-4720) 2905, James Keenan (zip code: 19050) 2906, James Kunz (zip code: 28560) 2907, Jim Charles March (zip code: 20250) 2905, James Keenan (zip code: 19050) 2906, James Kunz (zip code: 28560) 2907, Jim Magill (zip code: 65284) 2908. James McConnell (zip code: 85308) 2909. Paul L (zip code: 07660) 2910. Jim Snee (zip code:

2911. Jim Steltz (zip code: 37738) No addion infrastructure for moving natural gas can be reconciled with our existential imperative of stabilizing the climate and returning carbon dioxide to habitable levels. You must not approve any more pipelines, if you believe that keeping a habitable planet is part of FERC's mandate,

2912. Virginia Breza (zip code: 08638) 2913. Janet S Matthews (zip code: 11570) 2914. John Roney (zip code: 80920) 2915. JJ Chambers (zip code: 32541) 2916. Joseph Dimagglo (zip code: 21214)

#### CO31 – Oil Change International (cont'd)

2917. Janet Giamanco (zip code: 92105) Voting on the side of the greedy makes you one of the greedy. Do what's right for your fellow Americans and their children. 2918. Julie Griffith (zip code: 60174) 2919. Jacoul Conti (zip code: 96761) 2920. John Landers (zip code: 61467) 2921.

Jenelle Beckwith (zip code: 53536) 2922. Jan McKlm (zip code: 94070) 2923. John Neumelster (zip code: 10032) 2924. James Neu (zin code: 97404)

2925. Jen Messina (zip code: 89301) 2926. Jill Arteaga (zip code: 92879) 2927. Jeffrey Anne Jones (zip code: 91423) 2928, Jeffrey Jones (zip code: 20853) 2929. John Pederson (zip code: 94947) 2930. Johanna Moran (zip code: 74401) 2931. Jennifer Scott (zip code: 33908-6944)

2932. Jennifer Wittlinger (zip code: 80487) 2933. Jose Peña (zip code: 78526) 2934. James Katzen (zip code: 89169) 2935. Joan Kendall-Rozman (zip code: 49935)

2936. John Keevert (zip code: 14610) Global warming is already costing us billions because of fires, droughts, flooding and reduced yields of fish and farms. Don't exacerbate that by expanding fossil fuel infrastructure. 2937, james kerr (zip code: 9) 2938. Kathy Kestell (zip code: 99208) 2939. Jeanne Koopman (zip code: 02139) 2940.

Debra Orben (zip code: 18081) 2941. Kyle Quigley (zip code: 90094) 2942. Julie Squire (zip code: 64133) 2943. Janie Smieszek (zip code: 54234) 2944. Jeff Thomas (zip code: 22973) 2945. Jan Kutchen (zip code: 78209) 2946. Kenna Vincent (zip code: 67642) 2947. Jeanette Weis (zip code: 85302) 2948. Jim Luebke (zip code: 54935) 2949. Judith Lang (zip code:

22530 (2950, Joanna Welch (zp. oxde. 95307) 2951. John Helser (zp. oxde. 1005-6418) 2952. Jennetta Clark (zip: oxde. 94235) 2953. Janet Delanoy (zp. oxde. 78731-4824) 2954. Jessie Lederman (zp. oxde: 03302) 2955. John 5 (zp. oxde. 98133) 2956. Trank Lewis (zp. oxde. 28645) 2957. Jordan Humicut (zp. oxde. 30121) 2958. Joel Lewine (zp. oxde. 98133) 2956. Trank Lewis (zp. oxde. 28645) 2957. Jordan Humicut (zp. oxde. 30121) 2958. Joel Lewine (zp. oxde. 98133) 2956. Junice Fielding (zp. oxde. 84623) 2960. Jeane Harrison (zp. oxde. 30121) 2958. Joel Lewis (zp. oxde. 28260) 2962. Julie Munoz (zp. oxde. 84623) 2963. JIIN Icholas (zp. oxde. 1552) 2964. Lee Stewart (zp. code: 20770) 2965. Jan Weiland (zip code: 91359) 2966. Jeanne Carberg (zip code: 35035) 2967. Jeanifer Anderson (zip code: 78774) 2968. John Margeram (aip code: 1912) 2969. Julie Martinson Martinson (zip code: 96071) 114) 2970. Jane Kirk (zip code: 1504) Please, do ali in your power to stop the climate, human and animal life horrible abusements

caused by gas lines, hydraulic fracking etc. 2971. Joshua McKain (zip code: 02066) People, animals. and the environment over profits...for the few!

2972. John McKee (zip code: 4011) 2973. James Columbia (zip code: 93306)

 2974. Jessica Cresseveur (zip code: 04106)
 2975. James Melloh (zip code: 04106)
 The scientific evidence is clear. we cannot afford the climate damage these pipelines will encourage

2976. John Gavis (zip code: 2908) You mean the over 800 pipelinesarenot enogh? Enough is enough. 2977. Joan Wilson (zip code: 63670) 2978. James Hohlfeld (zip code: 85375) 2979. Jane Miller (zip code: 66227) 2980. Joann Koch (zip code: 06249) 2981. Janine Moore (zip code: 04901) 2982. Jeanne Moenk (zip code: 04024) 2983. James Geary (zip code: 00000) 2984. julie shames-rogan (zip code: 33437) 2985. James Mundy III (zip code: 90303) 2986. Joseph Naidhur (zip code: 61604) 2987. John Narby (zip code: 61623) 2988. Jan Novak (zip code: 87501) 2989. maurcen Bestick (zip code: 89503) 2990. Janet Noonen (zip code: 66204)

2991. James Norgrove (zip code: 32789-3340) WTF we have to sign petitions to get Democrats to act like Democrats and stop the oil pigs? Pipelines are bullshit. More oil that we don't need poisoning our water and soil. Great just great. 2992. Jan Novotny (zip code: 32250) 2993. Candie Glisson (zip code: 47906) 2994. Jenny Steward (zip code: 94553) 2995.

Joan Lubinsky (zip code: 44129) 2996. Joan Andersson (zip code: 90290) 2997. peter Mitchell (zip code: workingfam) 2998. Joan Earnshaw (zip code: 87415) 2999. Joanie Calem (zip code: 43214) 3000. Gloan jarvis (zip code: 97007) 3001. Joanie Vigh (zip code: 49508)

3002. Joan-Marie Bauman (zip code: 12701-4852) 3003. Joanna Katz (zip code: 94702) 3004. Joanne Thlelen (zip code: 92220) 3005. Joanne Zipay (zip code: 12553)

3006. JOANNE PARIS (zip code: 94103) 3007. Joanne Tenney (zip code: 92026) 3008. Joan Kolessar (zip code: 18080) 3009. Joann Ramos (zip code: 08830) 3010. Joan Peter (zip code: 98335) 3011. Joan Quinn (zip code: 92078) 3012. Joan Brandmeter (zip code: 55424)

3013. Joan Sitnick (zip code: 91436) 3014. Joanne Contl (zip code: 1257) 3015. jody guth (zip code: 97212) how many times must we say "NO!"

3016. Doris Wilson (zip code: 98034) 3017. jody jensen (zip code: 96051) 3018. joe Cuviello (zip code: 92075) 3019. Joseph Daniel (zip code: 29926) 3020. Joseph Kondrot (zip code: 20003) 3021. Joseph Gilbert (zip code: 93023) 3022. Joseph Guzman (zip code: 11421) 3023. Joseph Kucak MSW, LCSW (zip code: 53140) 3024. Joel Finley (zip code: 13669) 3025. Joel Moore (zip code: 39702) 3026. Joel Graves (zip code: 90019) 3027. Joel Libman (zip code: 60640) 3028. Joe Stoner (zip code: 01801) 3029. Joseph Wiesner (zip code: 53212) 3030. dan sabatinelli (zip code: 01756) 3031. John florack (zip code: 80525) 3032. John Fortier (zip code: 90277) 3033. John Comella (zip code: 19103-1432) 3034. John Davles (zip code: 00000) 3035. John Fraser (zip code: 06437) 3036. John Gamber (zip code: 66604-1740) 3037. John Holtzclaw (zip code: 94133) 3038. john Martin (zip code: 60429) 3039. Mary Bowman (zip code: 37909) 3040. loana Sfrengeu (zip code: 95747) 3041. John Schenck (zip code: 29926) 3042. Debbie Imhoff (zip code: 53704) 3043. John Byland (zip code: 02536) 3044. John Cort (zip code: 80516) 3045. JOHN GLEBS (zip code: 63116) 3046. John Farha (zip code: 67211) 3047. John Irwin (zip code: 19810) 3048. John Kyrk (zip code: 94109) 3049. John Martinez (zip code: 8032) 3050. John Weston (zip code: 53143) 3051. Johnny Gagnon (zip code: 10001) 3052. John Langevin (zip code: 80907) 3053. Johnny Wilson (zip code: 32601) 3054. John Hartig (zip code: 90036)

3055. Judy Johnston (zip code: 72032)

3056. John Sunde (zip code: 64501) Not just the pollution of burned fossils, nor even the fouling of our water tables from fracking, but we intend to guarantee increased pipeline fullures and catastrofic pollution disasters?!? 3057, john teague (zip code: 90254) 3058. John Peterkin (zip code: 86326) 3059. Joanne lediger (zip code: 10965) 3060. Jolle Misek (zip code: 60097) 3061. John Goulette (zip code: 48240) 3062. Jon rosenblatt (zip code: 8854) 3063. Jon

#### CO31 – Oil Change International (cont'd)

longsworth (zip code: 95001) 3064. Jønathan Lyons (zip code: 17844) 3065. Jon Rosenblatt (zip code: 08854) 3066. Donna Landers-George (zip code: 11801) 3067. Jon Nedbor (zip code: 12440) 3068. John Irby (zip code: 80907) 3069. Jon Fields (zip code: 11050) 3070. Jon Steenhoven (zip code: 95407) 3071. Jon

Wood (zip code: 53941) 3072. Sandra Joos (zip code: 97239) 3073. Jordan Hooley Hooley (zip code: 46540) 3074. Jorge gonzalez Gonzalez (zin code: 33178)

3075. pamela joseph (zip code: 06880) 3076. Joseph Lawson (zip code: 10023) 3077. Joseph Wenzel (zip code: 55042) 3078. Joseph Fysz (zip code: 08611) 3079. Carol Doty (zip code: 48809-2417) 3080. Joshua Angelus (zip code: 06710) 3081. Mary Zieser (zip code: 52001) 3082. Joslyn Baxter (zip code: 94118) 3083. Cornelia Teed (zip code: 98248) 3084. Joyce Dombourian (zip code: 70125)

3085. Joyce Browning (zip code: 71854-3520) It is time to leave fossil fuel in the ground--get smart on clean energy- and get super serious about cleaning up our Planet-- Fracking is destroying underground water, making it unfit to drink 3086. J. Martin Martin (zip code: 63116) 3087. Susan Castelli-Hill (zip code: 11747) 3088. Joy Chase (zip code: 53719) 3089. Patricia Kerekes (zip code: 3102)

Joyan J, Markin Reference (application 3106)
 Itis your job to stop the raping of our country's 3090. John Downing (ap code: 23220)
 3091. Julie Adelson (ap code: 90405) leave it in the ground - what dont you understand?
 3092. James Dante (ap code: 90403) leave it in the ground - what dont you understand?
 3094. Jerry persky (ap code: 90403) 3095. Louise Nota (ap code: 90303) 3096. Jeff Klein (ap code: 48390) 3097. Jay
 2094. Jerry persky (ap code: 90403) 3095. Louise Nota (ap code: 40303) 3096. Jeff Klein (ap code: 6547) 3090. Jacob

Pruess (zip code: 15213) 3101. Joanne Scott (zip code: 94131) 3102, jimmy phi (zip code: 94142) 3103. Joanne Sieck (zip code: 55906-8539) 3104. Jeremy Spencer (zip code: 94044-3318) 3105. John Teevan (zip code: 07701) 3106. Joyce Pusel (zip code: 27713)

3107. John wold (zip ocie: 5405) 3108. Julia Raven (zip code: 94945) 3109. Joseph Brown (zip code: 32141) 3110. James Bumgarner (zip code: 66064) 3111. Jason Reinhardt (zip code: 77025) 3112. James Hipp (zip code: 98226) 3113. Julio

Anderson (zip code: 90807) 3127, joseph Magid (zip code: 19096) 3128, lustin Small (ap. code: 1085) 3129, James Small (zip code: 37642) 3130. Rev. Jeonifer Marie Marcus, Sg., Marcus (zip code: 48307-1865) 3131. John McPeek (zip code: 27031) Gee whizt I shought we shircanned the Kura-Large Keister pipeline. Now these turkeys want to run another one through the KeyStone State, plus others besides? Let the industry frack itself!

3132. Janell Smith (zip code: 62074) 3133. Jennifer Spinach (zip code: 06410) 3134. Judd Stark (zip code: 85138)

3152. Jatteri Smith (2g) code: 5207/3 1133. jenniter Spinach (2g) code: 664(9) \$134. juid Stark (2g) code: 85138] 3153. Jeiffer St.Clair (2g) code: 43204) 3154. [5 kufflebaam (2g) code: 7673(3) 317. jennifer Suess (2g) code: 20874) 3138. Joan Butler (2g) code: 85042) 3139. [Thomas Ayres (2g) code: 97131) 3140. john anderson (2g) code: 07871) 3141. Jane Harada (2g) code: 97409) 3142. Janes Thomas (2g) code: 62702) 3143. Joe Tilley (2g) code: 43062) 3144. Jo Tioran (2g) code: 48224) 3145. Jackie Trygesesti (2g) code: 5506'94(6) 3146. Kathleen Markus-Walczak (2g) code: 44052) 3147. JII Sheridan (2g) code: 3352) 3148. Sharon Zayac (2g) code: 62670) 3149. Jude Mixrelli (2g) code: 2712) 3150. Judith Kemble (2g) code: 3352) 3148. Sharon Zayac (2g) code: 62670) 3149. Jude Mixrelli (2g) code: 2712) 3150. Judith Kemble (2g) code: 3452) 3148. Sharon Zayac (2g) code: 62670) 3152. Judith Palck-Madsen (2g) code: 3013) 3153. Judith Rost (2g) code: 8303 ) 3154. Judi Poulson (2g) code: 56031) 3155. Judith Bohler (2g) code: 56031) 3155. Judith Bohler (zin code: 17522)

3156. Judy Childers (zip code: 53714) 3157. Judy Moore (zip code: 59833) 3158. Judy Schriebman (zip code: 94903) 3159. Judy Lubow (zip code: 86504) 3160. Judy Robertson (zip code: workingfam) 3161. Judy Cohen (zip code: 52803) 3162. Judith Epstein (zip code: 55408) 3163. Judy Lindsey (zip code: 96746)

3164. Judy Rosembatt (ap code: 10025) New Judy Junusey (ap code: 10046) 3164. Judy Rosembatt (ap code: 10025) New Junusey (ap code: workingfam) 3167. Judy Peterson (zip code: 55729) 3165. Judith Gilbert (ap code: 07030) 3166. Judy McKinney (ap code: workingfam) 3167. Judy Peterson (zip code: 55729) 3168. Kevin West (ap code: 70723) 3166. Judy McKinney (ap code: workingfam) 3167. Judy Peterson (zip code: 55729) 3169. Kevin West (ap code: 70723) 3166. Judy King (ap code: 7079) 3170. Julia Meadows (ap code: 33710) 3171. Julia Morgan (zip code: 14850)

3172. Julia Dean (zip code: 95062) Chances are you members of FERC are older than I. You are older than my children too. We will be living with the potentially catastrophic results of decisions that Your Agency pushed onto us without regard. How is my family supposted to survive even thrive in a nation riddled with polluted water, oil train derailments, fracked communities? Plcase please please stop poisening my future! You hold the power for my family to survive.

3173. Julian and Alice Dewell (z/p code: 98199) 3174. Julianne Clark (zip code: 98133) 3175. Juliann Pinto (zip code: 19136) 3176. Julia Broad (zip code: 92804) 3177. Julie Mock (zip code: 52245) 3178. Julie Hoffer (zip code: 11201-4814) 3179. Julie Levine (zip code: 3029) 3160. Julie Dater (zip code: 2329) 317. Julie 1016 (zip code: 11201-4814) 3179. Julie Levine (zip code: 3029) 3180. Julie Dater (zip code: 2329) 3181. Julia Radwany (zip code: 4533) 3182. Joseph Dangelo (zip code: 11731) 3183. Florencio Selva (zip code: 2701) 3184. Jusi Valanki (zip code: 4533) 3155. Mich Mcharyte (zip code: 2702) 3186. Junia Mcharyte (zip code: 2702) 3187. Junia Mcharyte (zip code: 2702) 3186. Junia Mcharyte (zip code: 2702) 3187. Junia

70175/3187. Justin Singer (zip code: MSM 2V5/3188. James Vander Poel (zip code: 01532) 3189. Jill Vargas (zip code: 604416237) 3190. Joseph M. Varon (zip code: 11552) 3191. Jason Varvas Varvas (zip code: 61822-9361) 3192. Julia Vetrie (zin code: 91387)

 Jane Walls (zip code: 88423) 3194. Joe Rogers (zlp code: 78769) 3195. Joanne Watchie (zip code: 98116)
 3196. Helen Balley Bailey (zip code: 75070) 3197. Joseph WerzInski (zip code: 18938) 3198. Joe Wiederhold (zip code: 98229) 3199. James Reents (zip code: 56452) 3200. John Young (zip code: 18349)

3201. Jyrica Gough (zip code: 21403)

3202. Jean Poung Young Young (*ap code: 98382*) It seems so obvious: to reduce emissions from burning fossil fuels, one reduces the fossil fuel burned. It is NOT appropriate to enable the increased availability and decreased cost of fossil fuels. Our lives depend on this logic

#### CO31 – Oil Change International (cont'd)

3203. Jack Zellenga (zip code: 5651) 3204. d. scott (zip code: 89008) 3205. Kaitlyn Johnston (zip code: 11716) 3206. Karen Kindel (zip code: 44718) 3207. Katharine Pillsbury (zip code: 22461) 3208. Karlene Gunter (zip code: 14618-4861) 3209. Peter Townsend (zip code: 01721) 3210. Rose Dippel (zip code: 21111) 3211. Kathleen Clouthier (zip code: 54302) 3212. Kac Bender (zip code: 93536) Fracking endangers communities, air, water, and pipelines expand the land affected. It is a BAD idea. We need to stop investing in new fossil fuel infrastructure and instead invest in developing and expanding green energy technologies! 3213. Karen Bond (zip code: 33458) 3214. Kenneth Jenrow (zip code: 48858) 3215. Kay Johnson (*zip* code: 37430) 3214. Ka 3215. Kayen Akers (*zip* code: 97203) 3217. Lynn Wilbur Wilbur (*zip* code: 99835) 3218. kathryn alexandra (zip code: 98221) 3219. Doris Rhine (zip code: 60634-2456) 3220. Kelth LaPointe (zip code: 85206) 3221. Ken Mayer (zip code: 19540) 3222. Kimberly McKendell (zip code: 90807) Stata Minkel Kall (zip code: 10016)
 S223. Mahesha Silva (zip code: 10016)
 S224. Karen Angel (zip code: 85302)
 S225. Cort Brumfleld (zip code: 97220)
 S226. Fath Strailey (zip code: 9727)
 S226. Fath Strailey (zip code: 9727)
 S226. Fath Strailey (zip code: 9727) 3228. Kirk Ramble (zip code: 17404) 3229. Gayle Hebert (zip code: 90260) 3230. Kara Stewart (zip code: 53809) 3231. Karen Adams (zip code: 24010) Please do the right thing and stop this building NOW! 3232. Karen Melton (zip code: 19129) 3233. karen miller (zip code: 03071) 3234. karen Lilly (zip code: 95959) 3235. Karen Multer (zip code: 29645) 3236. Karen Kramarz (zip code: 48127) Please protect our climate from the oil industry. They will reap the income and we will be left with devastation. National de l'addettion de l'addettion de la constance de l Karen Stimson (zip code: 06477) 3244. Peter Jensen (zip code: 02720) 3245. Karin Braunsberger (zip code: 33704) 3246. Karin Ralph (zip code: 11740) 3247. Karl Janke (zip code: 18067) 3248. Karl Koessel (zip code: 95519) 3249. Karlen Harmlson (zip code: 95618) 3250. Karl Mortimer Mortimer (zip code: 05012) 3251. Karrie Vrabel (zip code: 55407) 3252. Karyn Barry (zip code: 02451) 3253. Kenneth Sanders (zip code: 33542) 3254. Kate Dougherty Dougherty (zip code: 55811) No, you mother fukers, NO!!! No more! 3255. Kate Taptiklis (zip code: 05010) 3256. Catherine Caron (zip code: 99207) Take climate change seriously! Keep the oil in the ground! 3257. Kathryn Slagle (zip code: 16511) 3258. Kat Haber (zip code: 99603) 3259. Katherine Fulton (zip code: 44215) 3260. Kathleen Kesson (zip code: 5641) 3261. Kathleen Ragan (zip code: 22304) 3262. Kathleen Kopp (zip code: 43202) 3263. kathleen Johnson (zip code: 28763) 3264. Kathryn Robertson (zip code: 33400) 3265. Kathryn Burns (zip code: 78727) Yes, these pipelines may create jobs, but what good are those jobs if they help make the planet unlivable? That's what's happening now, and we need to stop it. 3266. Kathryn Caldwell (zip code: 14) 3267. Kathryn La Rue (zip code: 94553) 3268. Kathryn Mahoney (zip code: 90039) 3240. Kathr yn canwer (car Oud: 19/3207 Kathry I at wei (ap Oud: 543.3) 3240. Kathr yn antonwr (car Oud: 503.3) 3250. Kathr y Macheney (car Oud: 503.3) 3253. Kathry Macheney (car Oud: 503.3) 3253. Kathry Olion (car Oud: 503.3) 3273. Kathr (car Oud: 503.3) 3273. Kathr (car Oud: 503.3) 3273. Kathr (car Oud: 534.3) 3273. Kathr (car Oud: 537.3) 3274. Kathreine Nolan (car Oud: 503.3) 3275. Kathr (car Oud: 566.3) 3276. Kathy Yeomans (zip code: 93001) 3277. Kathy Hart (zip code: 9752) 3278. Katie Shultz Walker (zip code: 97266) 3279. Katie and Bill Dresbach (zip code: 44054-0166) 3280. katrina gergely (zip code: 32503) 3281. Katherine Fulkerson (zip code: 5352) 3282. Kathleen Kuczynski Kuczynski (zip code: 92630) 3283. Robert Hirshorn (zip code: 34736) 3284. Kathleen Ebanez (zip code: 98802) 3285. K Scott (zip code: 76092) 3286. Kathryne Dummann (zip code: 97006) 3287. Sarah Forbes (zip code: 02048) 3288. Kathy AverIII (zip code: 19036) 3289. Kathleen Mullen (zip code: 98407) 3290. Tony Chapman (zip code: 93012) 3291. Tina Martin (zip code: 14611) 3292. Pricilla Smith (zip code: 85712) 3293. Kay Coll (zip code: 07102) 3294. K Bason (zip code: 50240) It is past time to move aggressively to clean energy.
 3295. Kathleen Bentley (zip code: 21234) 3296. Kenneth Blerman (zip code: 85745) 3297. Karen Bond (zip code: 85283) 3298. Ken Bossong (zip code: 20912) 3299. Ken Bowman (zip code: 32817 3300. Kathy Bregder (zip code: 95405)

CO31 – Oil Change International (cont'd)

3301. Kathleen Brown (zip code: 94109)
3302. Bruce Higgins (zip code: 30318)
3303. Kirstin Burt (zip code: 8011) 3304. Kirk Butler (zip code: 33614)
3305. Karen Christian (zip code: 05641) SAVE THE PLANET!!!
3306. Joyce Dixon [zip code: 75219-3710] 3307. Karen Christiansen [zip code: 80621] 3308. kris brinsky [zip code: 1010] 1010 [zip code: 1010]
15102) 3309. kathleen conner (zip code: 80247) 3310. Karen Deckel (zip code: 02532) 3311. kathleen brown (zip code: 48169) 3312. Katherine Hutchins Hutchins (zip code: 85050) 3313. Kelly King (zip code:
15666) 3314. Kerry Moore Moore (zip code: 98591) 3315. Karla Osuna (zip code: 11004) 3316. Kathleen Querner (zip
code: 45066) 3317. Kean Butterfield (zip code: 94550) 3318. Karen Greenspan (zip code: 10006) 3319. Kelth D'Alessandro (zip code: 48187) 3320. Kelth Robillard (zip code:
04282) 3321. Keith Wiljanen (zip code: 29492) 3322. Keith D'Alessandro (zip code: 48187) 3323. Kellie Smith Smith (zip
code: 03244) 3324. Kelli Gilbert (zip code: 80433) 3325. Cynthia Kelley (zip code: 83864) 3326. Kelli Lent (zip code: 94501) 3327. Kelsey Price (zip code: 97701) 3328.
Kelsey Sampson (zip code: 01522) 3329, Kelsey Hobbs (zip code: 01070) 3330, Keith Emery (zip code: 46219)
3331. Kenneth McCLintic (zip code: 90755) Keep it in the ground. Force energy and extraction companies to retool for green
energy, if they don't tax the hell out of them, fine them and then jail them. Jail any corporation who petitions to drill on Federal lands. Do it now!!!!
3332. Donna Bubb Bubb (zip code: 89052) No more pipelines anywhere!
3333. Kendra Holt (zip code: 20902) 3334. Ken Mundy (zip code: 90060) 3335. Ken Lesem (zip code: 5400) 3336. Ken Mauney (zip code: 27703) 3337. Kenneth Ruby Ruby (zip code: 03079-3667)
3338. Kenny Lewis (zip code: 01701)
3339. kenneth walters (zip code: 35205) 3340. Christine Rodgers (zip code: 74120)
3340.         Christine Rodgers (zip code: 74120)           3341.         kent lennox (zip code: 94134-2457)
3342. Kermit Easterling (zip code: 37033-2723)
3343. Rachel Watts (zip code: 70125) 3344. Lucia Kern (zip code: 80526)
3345. Kerry MacInnes (zip code: 94549)
3346.         Kerry Kuhn (ztp code: 60193)           3347.         Kristin Sullivan (ztp code: 80521)
3348. Keth Luke [ztp code: 34652]
3349. Kathleen DeVries (zip code: 95628)
What has been "passing" for clean energy is not now, nor was it ever clean and safe. Please do not allow any more of these pipelines to be built!
3350. Susan Welsford (zip code: 49441) Don't need it; don't want it!
3351. K Cook (zip code: BA16 0RP) 3352. Kevin Rapp (zip code: 84115) 3353. (Veteran USAF) oCuilinn (zip code: 79830) And there is nothing we could do to stop the 42" pipeline being built
through the pristine SW Big Bend of Texas Big oil & gas moguls prevail, governed by the Railroad commission of Texas. The
Robber Barons ride again! 3354. Kevin Chiu (zip code: 98033)
3355. Elena Polletta (zip code: 06776) Fracking is destroying our planet in addition to poisoning our water and causing
cancer. If you like life then you should support NO FRACKING end of story.
3356. Kevin Kinzler (zip code: 60062) 3357. Karen Raccio (zip code: 55311) 3358. Kara Graul (zip code: 77005) 3359. Karen Gupton (zip code: 37209) We are already behind in our commitment to provide cleaner air. We do NOT need
even a single new pipeline! Get serious about saving our earthunless of course you have another planet to move to
3360. Kathleen Hall (zip code: 96067) 3361. Kacy Harnedy (zip code: 03060) 3362. Carolyne Lampe (zip code: 96830) 3363. Florence Morris (zip code: 14609) 3364. Kathy Bradley Bradley (zip code: 29078) 3365. Kristina Helks (zip
code: 28607)
3366. KAREN JONES (zip code: 90291) Fracking is an environmental disaster, now and in the future. It is breaking our land apart, literally, and poisoning our most precious natural resource-our drinking water. Just say NO to fracking in all its forms.
Please. NOW!
3367. Katia lannacome (zip code: 14620) 3368. G. Fries (zip code: 99603)
We have to move toward non heat producing energy, put all effort there! 3369. Lou Ann Kilburg (zip code: 52001) 3370. john pasqua (zip code: 92025) STOP THE PIPELINES. CLIMATE CHANGE IS REAL NOW.
3371. Kim Rivers (zip code: 01201)
3372. Kimberly Duncan (zip code: 24015) Building all of the pipelines these fracking companies are asking for would be completely irresponsible a dangerous precident to set while we are all trying to meet our climate commitments. PLEASE say
NO to any and all pipeline requests!
3373. Kim Diment (zip code: 49738) 3374. k g (zip code: 98360)
3375. Kim Harrison (zip code: 33813)
3376. Kim Smith (zip code: 13039) 3377. Kim Pierce (zip code: 00000)
3377. Kim Pierce (zp coae: u7000) 3378. Kim Sellon (zp coae: 07974)
3379. Kim Young (zip code: 37082) Keep fossil fuels IN THE GROUND!!!!!!!!!
3380. Kim VonderHaar (zip code: 40059) 3381. Kindy Kemp (zip code: 98368) 3382. Judy king (zip code: 95762) 3383. Rob Roberto (zip code: 92071) 3384. Kinsey Service (zip code: 93117) 3385. Kirk Nason (zip code: 92648) 3386. kerry
kirkpatrick (zip code: 99801)

### CO31 – Oil Change International (cont'd)

3387. Karen I Todd (	zip code: 08530) The pipelines are affecting water supplies and people's health, right now! Additional
3388. Kirsten Lovett	ve to oil/gas companies to frack some moreand increase the number of earthquakes. (zip code: 34234) 3389. Elmone Kissling (zip code: 95503) 3390. Crystal Boles (zip code: 85009)
3391. Kristin Dubovs	ky (zip code: 60565) 3392. TABATURA JOB (zip code: 30039)
3393. Carolyn Kittle	(zip code: 88310) Do not sacrifice the environment, and the planet, on the altar of fossil fuel profits. (zip code: 95926-1475)
	[2]p code: 93920-1473] arrior-Davis [zin code: 91387]
3396. Kiwibob Glanz	man (zip code: 98115)
3397. Okiyo Ososaka	(zip code: 94606)
3398. Pamela Stearle 3399. Katy Kotiadis (	
3400. Kathleen Johns	
3401. Kathy Kane (zi	
3402. K Krupinski (z 3403. Kathy Kibbie (;	
3404. Kurt Kiebler (z	
3405. Kay King (zip c	ode: 61010)
3406. Kerry Klutka (:	
3407. Karen Malcolm 3408. Kathy Kroll (zij	
3409. Kristln VanHo	me (zip code: 14091)
3410. Kevin Wightma	
3411. KAREN LAAKA 3412. Mike Klarer (zi	NIEMI (zip code: 32534) PROTECT OUR PEOPLE AND OUR LANDS!!!
3413. Klaudia Englur	id (zip code: 91360) 3414. Kay Brainerd (zip code: 48111) 3415. KAREN COLLETT (zip code: 84010)
3416. Lea Morgan (zi	p code: 01201)
3417. Leigh Sands (zi	p code: 21629) 3418. Linda Klein (zip code: 90245-3259) 3419. Ken Lengel (zip code: 96073) 3420.
	er (zip code: 43220) 3421. Kathleen Levy (zip code: 33321) 3422. kelvin hobson (zip code: ibby (zip code: 03865) 3424. Diana Kliche (zip code: 90804) 3425. Michael & Carrie Kline (zip code:
WFP) 3426. Kathleen	Keske (zip code: 11215) 3427. Kim Nguyen (zip code: 95136) 3428. loren dawn (zip code:
85712) 3429. Kevin R	yan (zip code: 43614) 3430. Kathryn Samuelson (zip code: 5001) 3431. Kerwin Schaefer (zip code:
	ate (zip code: 84629) 3433. Kathi Squires (zip code: 05401) /aught (zip code: 37013) 3435. Kate MacDonald (zip code: 02138) 3436. Kevin Marckus (zip code:
	largulis (zip code: 17719) 3438. Kristine Cassar (zip code: 19702) 3439. Kristina Fukuda-Schmid
(zip code: 90230) 3440	). Kristina Lamons (zip code: 77008)
	(zip code: 80107) 3442. Katherine Kautz (zip code: 80233-2284)
No more oil spills!! 3 <b>443. Kristine Moy</b> (:	zin code: 48230)
3444. Kay Reinfried	(zip code: 17543)
	dock (zip code: 72737)
3446. Kiesha Pearsoi 3447. Donna Knipp (	
3448. k o [zip code: 63	
3449. JIII Cochran (zi	
	(zip code: 11967) Why are we not investing heavily in new infrastructure for renewable energy?
3451. Deboran Walsh 3453. William Karr (:	(zip code: 55082) 3452. Keith Milligan (zip code: 99212) zip code: 48075) we have one planet, rich bitch, poor bitch, it's a socialist system whereby if it goes down
	p! You're not going to destroy the poor people's part and leave the rich one okay. It will
all go down together. A	and you're not going to move to a new gated community. 3454. Sandra Koppel Koppel (zip code:
	"Rourke (zip code: 13316-6007) 3456. Bhawna Koul (zip code: 06851) zip code: 13326) 3458. Keith Everton (zip code: 23113) 3459. kathie piccagli (zip code: 94112) 3460.
	94559) <b>3461. Denise Kraemer</b> ( <i>zip code: 12463</i> ) <b>3462. Justin Kramer</b> ( <i>zip code: 33180</i> ) <b>3463. Joseph</b>
Kraus (zip code: 3230)	3) 3464. Paul Krauss (zin code: 85250)
3465. Evelyn Kirby (:	zip code: 94619) Our shared highest priority has to be promoting and enabling the use of renewable
	plutely necessary to save ourselves and our planet! The sooner we implement the policies to make this re successful we can be in solving climate change and guaranteeing our future.
3466. Dwight Krehbi	el (zip code: 67117) 3467. Kris Mydler (zip code: 80301) 3468. Rita Wise (zip code: 80615) 3469.
	code: 28711) 3470. Krista Lohr (zip code: 34232) 3471. Kristin Vyhnal (zip code: 80228) 3472.
Kristin Kokal (zip coa 3473. Kristin Kirk (zi	
3474. Kathleen Rema	
3475. Kenneth Miller	Miller (zip code: 60014)
3476. Kathleen Mohr	
3477. Kate Skolnick	(zip code: 11238) eman (zip code: 48035)
3479. karen scotese	
3480. keith Shatzel (	zip code: 33312 1971)
3481. Krista Slavin (a 3482. Kevin O'Carrol	
	r (zip code: 01966)

#### CO31 – Oil Change International (cont'd)

3483. David Speakman (zip code: 66046) Stat. Karen Sullivar (2p. code: 7859) Some people are hell bent on destroying our planet
 Stat. Karen Sweetland (zip code: 95008) 3486. Kate Sherwood (zip code: 11561) 3487. Kevin Zellmer (zip code: 53211) 3488. Kay OGrady (zip code: 60047) 3489. Jennifer McDermott (zip code: 55426) 3490. Katarzyna Kubzdela (zip code: 22124) 3491. Kunal Natu (zip code: 94024) 3492. Kurt Shaffer (zip code: 44111) 3493. Brian Kuru (zip code: 43202) 3494. Matthew Kurylo (zip code: 52804) 3495. John & Mary Kurzynski (zip code: 54162) 3496. Kelly Warner (zip code: 72016) 3497. Jackie Kwasnik (zip code: 29464) 3498. Kevin Watkins (zip code: 19971) 3499. Katherine Werner (zip code: 05673) 3500. Kimberly Wick (zip code: 97109) 3501. Kathleen Wilgus (zip code: 43204) 3502. Karl Kibler (zip code: 78664) 3503. Kevin Morris (zip code: 38347) 3504. Candace Batchelder (zip code: 42240) 3505. Kyle Bracken (zip code: 90066) 3506. Linda Qureshi (zip code: 02467) 2000 j. Saon. Linking or estil (ap. cone: vero) j. am sick of big oil (and big ag and big pharma) poisoning us and our environment..our health and that of the planet needs to be more important (urgent) and corporate greed! S508. Lorraine Reade (zip code: 20203) 3509. Sean Attri (zip code: 2155) 3510. Cassandta Treppeda (zip code: 10523) 3511. H. Kurt Kettelhunt (zip code: 3442) 3512. Larey Levitt (zip code: 34242) 3512. Soit 1. in and the termin (*Lip Usite: Jarvey JSL*: Lattor orderbuilt) (*Lip Usite: SvizeJ Ssl*), **Lattor Vertit** (*ap Usite: SvizeJ Ssl), Lattor Vertit (<i>ap Usite: SvizeJ Ssl), Lattor Vertit (<i>ap Usite: SvizeJ Ssl), La* see Florida & all constlines go under the sea? How soon do we want those rolling earthquakes to rattle the east & midwest, knowing they don't have earthquake stds. for their current buildings & structures? Besides the 3 ring circus in the political a norma use' point will our society database sums of the database society of the disobedience. Stop thinking of dollars and start thinking about their quality of life. Or lack theref... 3518. Lisa Winters (zip code: 98010) We need to stop destroying the planet RIGHT NOW! And stopping fracked gas & coal, & moving to renewables will be a good start. 3519. Jennifer minish (zip code: 85750) 3520. Lee F (zip code: 97219) 3521. Leah Leifer (zip code: 46240) 3522. Maealy Sarsy perminer inning (a) code: 50/30 Sac0. Let e (a) code: 50/30 Sac1. Let an (Letter (2)) code: 50/20 Sac2. Magaly Permander. (a) code: 94(2) Sac3. Marianan (Belja Contact (a) code: 50/37/90) Sac2. Silvio Fittipald (a) code: 91(4) Sac2. Allcia latison (a) code: 94501] Sac6. dennis love (a) code: 52/37/2) Sac7. LANA PROSER (a) code: 95/03] Sac2. Paul and Kathlen Lanctot (c) code: 94501] Sac6. dennis love (a) code: 92/37/2) Sac7. LANA PROSER (a) code: 95/03] Sac2. 12529) 3531. Ilyana landes (zip code: 94609) 3532. Connor Hansell (zip code: 84121) 3533. Patricia Dicoste (zip code: 11803) 3543. Robert Brown (z/p code: 98466) Pipelines are better than bomb trains; however, given the world situation, we really don't need this oil. We should go for sunshine and wind instead. Keep our air clean. 3544. Larry Lima [zip code: 95008] 3545. Lawrence Cohen [zip code: 20016] 3546. Linda Bray (zip code: 32827) 3547. Larry Hovekamp Hovekamp (zip code: 40218) 3548. Larry Lapuyade (zip code: 94979) 3549. larry koch (zip code: 87106) 3550. Larry Rosenberg (zip code: 96145) 3551. Larry Thompson (zip code: 68005) 3552. Larry Etscovitz (zip code: 03904) 3553. Pablo Moore (zip code. 61107) 3554. Robert Wallace (zip code: 90602) 3555. Linda Smith (zip code: 1612) 3556. Gabriel Rosas (zip code: 90502) 3557. Hank Ramirez (zip code: 92116) 3558. Nancy McCornick (zip code: 10065) 3559. Brandle Deal (zip code: 98021) 3560. Lauren Linda (zip code: 92637) 3561. Laura Herndon Herndon (zip code: 91505) 3562. Laura Paden (zip code: 91311) STOP. FRACKING. EVERYWIIERE!! 3563. Laura Robichek (zip code: 94089) 3564. Laura Muñoz (zip code: 11121) 3565. Laura Cralg (zip code: 98597) 3566. Laura Healy (zip code: 29414) 3567. Laura Lynch (zip code: 33084) 3568. Laura raforth (zip code: 14624) 3569. Laura seserman (zip code: 33446) 3570. Laura Koeninger (zip code: 95482) 3571. Laureen Mitchell (zip code: 90019) 3572. Laurel Scott (zip code: 92108) 3573. Laurel Kinde (zip code: 54725) 3574. Laurel Parce (*pip code: 21/01)* 3575. Laurence Nietwick (*pip code: 37/25)* 3574. Laurel Parce (*pip code: 1011)* (ST07 FHR INSANITY)
 3575. Lauren Bond (*pip code: 10118)* 3576. Laurences Skirvin (*pip code: 30180)* 35777. Laura DePreta (*zip code: 06903)* 3578. Lauri DesWarafis (*pin code: 30060)* 457975. Lauren Bond (*pip code: 48801)* 3580. R-Laurenta Tutihasi (a) code: 35623 (3361, Lattre Desvalata) (2p) code: 05397-05373 (537), Lattre Vanifuri (2p) code: 45607 (3360, K-Lattreane Luthan (100)) (2p) code: 5623 (3361, Micky & Dave K. (2p) code: 17722 (3382, Lavernee Logue (2p) code: 32505) (3383, Randall Webb (2p) code: 97210 (3384, Loone Batte (2p) code: 43123 (3385, Cindy Ewing (2p) code: 87540) (3366, Lynn Beagle (2p) code: 60002 (3387), Lisa bergerui (2p) code: 3616 (3386), Lisa Bierke (2p) code: 04609) (3589, Larry Bogolub (2p) code: 55105) (3590, Lauren Bouche (2p) code: 80603-9715) (3591, Lynne Brimecombe (2p) code: 46103) (3592, Lama Lane (2p) code: 92627) 3598. LD. Hieber (zip code: 44718) 3599. Lou Di Falco (zip code: 77834) 3600. Linda Orgel (zip code: 98520) 3601. LD Romcalli (zip code: 454718) 3599. Lou Di Falco (zip code: 77834) 3600. Linda Orgel (zip code: 95472) 3604. Peg LeClair (zip code: 1023-9471) 3605. marguery lea zusker (zip code: 7403) 3606. Linda Erwin (zip code: 63220) 3607. Lee Scarborough (zip code: 81221) 3608. Lee Bartell Bartell (zip code: 07030) 3609. lee bory (zip code: 03062) 3610. Cynthia Gecas (zip code: 94611) We are the stewards of our planet Earth. We don't need any more pipelines. Period. I oppose them all---they are destroying the climate, and are not safe for people or animals. Too many deaths. Too much 3611. Lee Davis (zip code: 95448-1492) 3612. Eileen Bergan (zip code: 93001)

CO31 – Oil Change International (cont'd)

3613. Lee Sides (zip code: 88203)
3614. Leslie Lakind (zip code: 87505)
3615. Lynne Thomson (zip code: 95662) 3616. Phyllis Satterfield (zip code: 66614)
3617. Robert Bauerlein (zip code: 85042)
3618. Leslie Harris ( <i>zip code: 12456</i> ) 3619. leigh miller ( <i>zip code: 54455</i> )
3620. Leigh Walker (zip code: 30306)
3621. Susan Wilson (zip code: 96031) 3622. Laura LaVertu LaVertu (zip code: 22303)
3623. Len Jennings (zip code: 55108)
3624. Lenora Roedner (zip code: 63012) 3625. Lenore Sheridan (zip code: 94703)
3626. Jane Murphy (zip code: 14775)
3627. William Heaton (zip code: 94102-3656) please stop this madness! 3628. leon demars (zip code: 85321) 3629. Leonard Rubin (zip code: 20012) 3630. Jennifer Graham (zip code: 33919)
3631. Lois Pryor (zip code: 94501) 3632. Ronald Le Le (zip code: 95116) 3633. Lenore Reeves (zip code: 60448)
3634. Linda Schmidt (zip code: 15044) 3635. Leslee Goodman (zip code: 98856) The longer we wait to take action on climate change, the greater the crisis we create
for our children, grandchildren, and other species.
3636. James and Leslee McPherson (zip code: 94403) 3637. Leslie Cassidy (zip code: 10020) 3638. Leslie G Baker (zip code: 94403) 3637.
3640. Leslie Bradford (zip code: 73170) 3641.   ALLEN LESLIE (zip code: 17609) 3642. Leslie Faris (zip code: 98133) 3643.
Phyllis a (zip code: 60202) 3644. Les Paul (zip code: 45750) 3645. Diane Palma (zip code: 46324) 3646. Beth Levin (zip code: 97213) 3647. Timothy
Taylor (zip code: 90064) 3648. Lewis Banells (zip code: 01604) 3649. William Facey (zip code: 1349) 3650. Laurel Facey
(zip code: 01349) 3651. Laura Fake (zip code: 19567) 3652. Lisa Lewis (zip code: 27529) 3653. Linda Gillaspy (zip code: 89506) We must act aggressively to give our children a habitable planet. Please help not
hinder this endeavor.
3654. Lynne Glaeske (zip code: 80237) 3655. Linda Greene Greene (zip code: 47468) 3656. Laura Silverman (zip code: 10994) 3657. Linda Thompson (zip code: 77074) 3658. Rev Linda Andrews (zip code: 97239)
3659. Linda Hansen (zip code: 97218) NO means no! No more oil spills, no more fracking, no more pipelines. Stop it down!
Shut it all down! Keep it in the ground! 3660. Lois Hayes (zip code: 18940) 3661. L.M. Holmes (zip code: 96817)
It's past time to retire fossil fuels.
3662. Linda Howed (zip code: 02478) I don't think enough attention has been given to the absolute trashing of the landscape where fracking occurs. It has been blown up, toxic chemicals injected to help release the gas have polluted water supplies.
Who would want to live in these places? For once we need to put "energy" aside and think of the natural world. Corporate
energy companies have extracted more and more, with little thought to the health of the planet. Will pipelines ever be judged safe? I doubt it.
3663. Dominic Libby (zip code: 03851)
3664. Libbie Botting (zip code: 14534) Of course they aren't safe ! Anyone paying attention knows how much harm has been done and surely would again.
aone ant sur ey word a sam. 3665. Libby bernan ( <i>zip</i> code: 40202)
3666. Libby Rice (zip code: 40516) We need to protect our Nation against abrogators that destroy our Nations Lands, Waters, Air and Sea's!
Air and Sea si 3667. Robert Liedike (zip code: 80002-3555) 3668. Kirk Ballin (zip code: 24153) 3669. Patsy Deerhake (zip code: 43214)
3670. Phyllis D'Anna (zip code: 94070-2161) 3671. Robert Crossetti (zip code: 19023) 3672. Rachel Lileet-Foley (zip code:
97225) 3673. Rachel Lileet-Foley (zip code: 97225) 3674. Lillian Anderson (zip code: 85351) 3675. Lillith Lascoue (zip code: 85004) 3676. Kym Waugh (zip code: 80203)
3677. Lisa Neste (zip code: 27265) 3678. Lily Bushman-Copp (zip code: 10003) 3679. Christopher Lima (zip code: 93003)
3680. Linda Immler (zip code: 20674) 3681. Lin Waldron (zip code: 92103) 3682. Linda Abbott (zip code: 10010) 3683. Linda Croxson (zip code: 22740) 3684. Linda Lewis (zip code: 20723) 3685. Edward Rubin (zip code: 02067) 3686. Linda
Bader (zip code: 52402) 3687. Linda Blanchard (zip code: 04103) 3688. Linda Kaplan (zip code: 38138) 3689. Linda Emme
(zip code: 94940) 3690. Linda Marshall (zip code: 29606) 3691. Linda Bennett (zip code: 49008) 3692. Linda Forsythe (zip code: V5C5Z4)
3693. linda littleton (zip code: 28705) This pipeline is just wrong. Why spend all the time and money for the summit in Paris
and do this? This is not what the American people want. 3694. Linda Carroll ( <i>zip code: 70118-4951</i> ) Fracking produces huge risks to public health and our climate and is unnecessary
in the age of green, clean energy.
3695. Llnda Pearce (zip code: 37027) 3696. Linda Marie (zip code: 32301) 3697. Linda Barker (zip code: 27949) 3698. Llnda Francisco (zip code: 48237) 3699. Linda Reilly (zip code: 98502) 3700. Linda Ricci (zip code: 2905)
3701. Linda Rudman (zip code: 10025-3569)
3702. Linda Kirsch (zip code: 95490) We already have all the proof we need that fracking and pipelines have done incredible damage to the environment and all who live on this planet. Money is never an excuse for destroying life.
3703. Linda Strode (zip code: 84129) 3704. Linda Silverman (zip code: 21157)
3705. Linda Tift (zip code: 37034) Reject any pipeline that could cause harm to our Climate. 3706. Linda Watts (zip code: 64870) 3707. Linda Zimmerman (zip code: 97405) 3708. Charles Andros (zip code: 03602)
or on annua reace (ap cours or or or or on an annua annuae man (ap cours, or roar) ar on chan is ruin os (ap cours, 03002)

#### CO31 – Oil Change International (cont'd)

3709. Henry Friedman (zip code: 19010) 3710. Lindsay Johnson (zip code: 32092) 3711. Lindsey Pfanstiel (zip code: 62278) 3712. GARY BRANT (*zip code: 32712*) 3713. Linda Linderman (*zip code: 33884*) 3714. Inda Klernan (*zip code: 45140*) 3715. Linda Provost (*zip code: 5401*) 3716. Lin Provost (*zip code: 98144*) 3717. Lisa Abramson (*zip code: 68008*) 3718. Lisa Hughes (zip code: 77550) 3719. Lisa Johnson (zip code: 78240) 3720. Lisa Cubeiro (zip code: 08050) 3721. Lisa Howell (zip code: 1520)

3722. L. Krausz (zip code: 94920) 3723. Lisha Doucet (zip code: 80549) 3724. talevich (zip code: 98118) 3725. Elizabeth MacKelvie (zip code: 54915)

3726. Deborah Little (zip code: 11720) I call on FERC and all federal agencies to move climate change to the top of any list of criteria for making decisions on fossil fuel infrastructure. We can't move off of these fuels unless we start moving off of them! We have international treaty obligations to meet.

3727. Cristina Fiorillo (ztp code: 10128) Please move forward with solar, wave and wind energy. We do not need detrimental sources of energy like fracking, oil, coal, nuclear. Our opportunity to stop some of the consequences of global warming is close to zero. Abandon energy that is putrid. Choose energy that enhances life.

3728. Lucille Seymour (zip code: 04005) 3729. Terry Vollmer (zip code: 63143) 3730. Elaine Livingston (zip code: 1) 3731. Liz Galst (zip code: 10011)

3732. Liz Zundel (zip code: 5641) 3733. Liz Schmidt (zip code: 97520) 3734. e p (zip code: 95482) 3735. Kate Ladd (zip code: 27916) 3736. Liz LaFour (zip code: 77482) 3737. Elizabeth Schwartz (zip code: 11106-4248) 3738. Elizabeth Vitale (zip code: 0611

3739. LIZ WALLACE (zip code: 98045) 3740. Elizabeth smith Smith (zip code: 64138) 3741. LYNDA CRUICKSHANK (zip code: 44515)

3742. Peter Holcomb (zip code: 98226) We need to put all of our resources into renewables and more effective and efficient use of energy, not pipelines. 3743. Edward Bielaus (zip code: 20852) 3744. Laurie Fraker (zip code: 92243) 3745. Lisa Fues (zip code: 22301) 3746. Lisa

Kagan (zip code: 12414) 3747. Lawrence Landherr (zip code: 55613) 3748. Ljubica Sefer-Stefancic (zip code: 10033) 3749. LEILA ISI(IK) (zip code: 96813) 3750. Lindsev Kilbourn (zip code:

24401) 3751. linda valenziano (zip code: 94553) 3752. Larry Lambeth (zip code: 65810) 3753. Lennie Leonard (zip code: 20607) 3754. Louis Levi (zip code: 17403) 3755.

Matthew Harper (zip code: 75235) 3756. lori conley (zip code: 01027) 3757. Lloyd Hedger (zip code: 96403) 3758. Lloyd Richardson (zip code: 62711) 3759. Luis Lozano (zip code: 90803) 3760. Lynda West (zip code: 22044) 3761. Lara Manganaro (zip code: 01760) 3762. Leonora Mart2n del Campo (zip code: 53100) 3763. Lisa Mazzola (zip code:

33612) 3764. Linda Baumann (zip code: 95616) 3765. lois benstein (zip code: 85302) 3766. Linda Carlson (zip code 97487) 3767. Linda McClendon (zip code: 35016)

3768. Laura McGowan (zip code: 20711) Fracking is NOT the answer. It is NOT worth the risk. Water is our most precious resource. We cannot

resource, we cannot atford to endinger that resource. **3769. Linda Lee McEachron Taylor** (*zip code: 85746*) **3770. Linda Mellen** (*zip code: 92661*) **3771. Lawrence Mick** (*zip code: 45449*) **3772. Linda Middleton** (*zip code: 96622*) **3773. Linda Janota** (*zip code: 84223*) **3774. Lawrency Mick** (*zip code: 45549*) **3775. Linda Middleton** (*zip code: 76621*) **3775. Linda Minato** (*zip code:* 37223 3774. Latter ti pritery (ap cute: 37360, 3773. Notrey Saetta (ap vote: 3022) 3775. Lind Waine (ap code: 37273) 2775. Lind Waine (ap code: 37273) 2775. Lind Waine (ap code: 37273) 2775. Lind Waine (ap code: 37273) 3780. Latry Needleman (ap code: 37273) 3781. Laura Nelman (ap code: 37273) 3782. Lorl Murray (ap code: 37273) 3781. Laura Nelman (ap code: 37273) 3782. Lorl Murray (ap code: 37273) 3781. Laura Nelman (ap code: 37273) 3782. Lorl Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3782. Lorl Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3782. Lorl Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Lord Murray (ap code: 37273) 3783. Laura Nelman (ap code: 37273) 3783. Lord Murray (ap code: 372733) 37833. Lord Murr 85298) 3783. Linda Ng (zip code: 11354) 3784. Lewis Meyer (zip code: 33173) 3785. Lenny Oholsky (zip code: 80122) 3786. logan welde (zip code: 10009) 3787. Lois Schroff (zip code: 23451) 3788. Lois Zmitrovis (zip code: 24101) 3789. Lola Reed (zip code: 73160) 3790. susan dickerson (zip code: 2735-1542) 3791. Ricard Rosselló (zip code: 08024)

3792. Lonnie Albrecht (zip code: 33538) 3793. Roy Tansill (zip code: 78418) Fossil fuel profits are unimportant except to fossil fuel corporations and corrupt politicians bought by fossil fuel corporate bribes. Our planet's health trumps both 3794. John Lopez (zin code: 89509)

3795. Loraine Lundquist (zip code: 91343) Please keep fossil fuels in the ground for the sake of our future. My community recently experienced the worst gas blowout in the history of the country. These pipelines aren't promoting our interests, they are destroying them.

3796. L. Bagley Bagley (zip code: 87108) 3797. Loretta Larkin (zip code: 07304) 3798. Lori Gudmundson (zip code: 98227) 3799. Lori Visioli (zip code: 1876)

3800. Grace Busch (zip code: 34211) 3801. Lorna Soto (zip code: null) 3802. Lorne Stockman (zip code: 24401) 3803.

Lorraine D. Johnson (zip code: 98118-2851) 3804. Lorraine Williams (zip code: 52353) 3805. Lorraine Moore (zip code: 78210) 3806. Lorraine Weber (zip code: 79924) 3807. Lorene Wartick (zip code: 32117)

3808. Lorren James (zip code: 80007) 3809. Lorrie Ogren (zip code: 7)227 Jolo7. No the Warkt (zip tode: 22117) 3808. Lorren James (zip code: 80007) 3809. Lorrie Ogren (zip code: 5360) 3810. Linda Ostro (zip code: 9461) 3811. Henry Schwartzman (zip code: 4360) 3812. Ron Hamilton (zip code: 76201) 3813. Ilsa Lottes (zip code: 21117) 3814. Henret Jeschke (zip code: 30604) 3815. Louis LaBrunda (zip code: 07920-2636)

3816. Lindsay Conklin Conklin (*zip code: 48843*) 3817. Joyce heyn (*zip code: 92064*) 3818. Louis Blaut (*zip code: 11229*) 3819. Louise B ANGELIS (*zip code: 60026*) 3820. Sara Ryals (*zip code: 28356*)

3821. Elizabeth Barger (zip code: 38483) You cant breathe methane, you can't drink oil, and you can;t eat money, so why do you think fracking will do more than make some short term profits, the means of which that may kill you and your children? 3822. Lori Thomas (zip code: 91945) 3823. sharon chang (zip code: 70072) 3824. Leslie Patrick (zip code: 17844) 3825. Laura Kiholm (zip code: 85207) 3826. Linda Prostko (zip code: 49316) 3827. Lance Polya (zip code: 05465)

3828. Lois Battersby (zip code: 03813)

3829. Lee Margulles (zip code: 11790) 3830. Luis Sanchez (zip code: 33145)

3831. Linda Sue Barnes (zip code: 28395) Fracking needs to stop NOW. Please don't approve more pipelines. 3832. Lupe Sesma (zip code: 95130)

3833. Lenny Segel (zip code: 48331)

#### CO31 – Oil Change International (cont'd)

3834. Lynn Marie Sults (zip code: 48103) 3835. Leonard Veden (zip code: 63146) We don't need any Fracked Gas! 3836. Glenn Tetterton-Opheim (zip code: 28401) 3837. Laurel Tumarkin (zip code: 11201) 3838. Luc Le Noir (zip code: 07976) 3839. Linda Luccheso (zip code: 89135) 3840. Lucia Hall (zip code: 92117) 3841. Lucille Cecon (zip code: 06019) 3842. Lucinda Windsor (zip code: 76065) 3843. Diane Basile (zip code: 11746) 3844. Cassie Cooper (zip code: 97538) 3845. Lucy Horwitz (zip code: 90049) 3846. Aileen Orthner (zip code: 33540) 3847. Luise Perenne (zip code: 92708) There should not be any fracking activity happening Any where! 3848. Luis Fuentes (zip code: 92262) 3849. Luke Farrell (zip code: 72015) 3850. john frazier (zip code: 92024) 3851. k. eggers (zip code: 99101) It's WAY past time to start weaning ourselves from the dirty energy that has poisoned our planet and it's people for too long. Technology has advanced to the point where we can do this, now. Please do the job that FERC stands for. Thank you for listening! 3852. dianna sicilia (zip code: 22903) 3853. Lauren Baldwin (zip code: 92081) 3854. Luuk Van Hut (zip code: 10011-9191) 3855. Jacob R. Raitt Raitt (zip code: 06605) We are looking to protect our planet from those who willfully ravage it, in order bols, use a sustainable Earth for our great-grandchildren's great-grandchildren. 3856. Carole Smudin (zip code: 2324) 3857. Laura Gandolfo (zip code: 11385) 3858. Larry Andrews (zip code 2010) 2010 (2010) 20 97204) 3859. Lindsey Walker (zip code: 49770) 3860. Unda Dreschor (zip code: 80401-5108) 3861. Donna Smith (zip code: 19083) 3862. Lynda Barry (zip code: 96793-2641) 3863. Lynda Barondes (zip code: 85603) 3864. Lynda Lahue (zip code: 91356) 3865. Lynda McDaniel (zip code: 95472) 3866. Lynda Stiefel (zip code: 43452) 3867. Wylyn Hodnett (zip code: 23005) 3868. Lyn Lowry (zip code: 80501) These things aren't safe, don't have safeguards, destroy peoples' land and drinking water, shouldn't be allowed. 3869. Lynn C. Lang (zip code: 56303) 3870. Phil and Lynn Fischer (zip code: 94521) 3871. Lynn Bengston (zip code: 1007) 3872. Lynne Bannerman (zio code: 98103) 3873. Lynne Bailey (zip code: 12443) #1 .... THINK !!! We NEED sustainability and renewable energy sources NOW .... we are killing our own habitat if we don't switch ASAP #2 ... Stop building oil & gas pipelines #3 .. End ALL fracking #4 ... No approval for new gas-fired power plants #5 ... Phase out all Nuclear and Fossil-fired power plants 3874. Lynn Levine (zip code: 55416) 3875. Lynn Ricci (zip code: 54016) 3876. Lynn Spencer (zip code: 48124) 3877. lynn howard (zip code: 92109) past the tipping point folks.... 3878. Bill and Marilyn Voorhles (zip code: 04612) 3879. Carolyn Shaw (zip code: 06457) Our country is becoming riddled with pipelines. Why are we doing this, when we should be putting every single bit of energy...every resource...into wind, solar and hydroelectric energies that will give us a chance to survive as a species? 3880. Jennifer Waters (zip code: 85285) 3881. C Cass (zip code: 61615) 3882. Mike Jackson (zip code: 90503) 3883. Michael Moats (zip code: 60515) 3884. Michael Taylor (zip code: 80504) 3885. MaryAnn Denning (zip code: 14830) 3886. mary charles (zip code: 53704) 3887. Mary Chlopan (zip code: 32308) 3888. Matthew Hansen (zip code: 94904) 3889. Robert MacLuskie (zip code: 20715) 3890. Michael House (zip code: 94061) 3891. jason greenberg (zip code: 95010) 3892. Lynn Macy (zip code: 7016) 3893. Macyle Candela (zip code: 17316) 3894. Mirlam Chapman (zip code: 68124) 3895. james vinson (zip code 5055, matyle Cancela (24) code: 13310, 3594, mirtan Chapman (25) code: 50124, 3055, james vinson (25) code: 35213) 3896. Michael Camp (24) code: 36012940) 3897. Sam Asser[(16) code: 80915) 3898. Jon Madden (26) code: 33461) 3899. reyna garcia (26) code: 91768) 3900. Margaret Herten (26) code: 44135) 3901. Maggi Gilson (zip code: 27510) 3902. Margaret "Maggie" Larrick (zip code: 98166) 3903. Lawrence Crowley (zip code 800271 3904, Mary Ann Gilman (z/p code: 06438) 3905. Kathy Magne Magne (z/p code: 55105) 3906. Connie Tompkins (z/p code: 51503) 3907. Marcia Pauley (z/p code: 98370) 3908. Susan Pelakh (zip code: 32931) 3909. mike hlat (zip code: 14218) 3910. David Morris (zip code: 94618) 3911. Michael Kitchen (zip code: 49081) This is the only way.
3912. Peter Brooks (zip code: 040816) 3913. Sharon Cunningham (zip code: 04084) 3914. Linda Hart (zip code: 04084) 3914. 43616) 3915. Mair McNamara (zip code: 60010-1481) 3916. Mairi Meredith Meredith (zip code: 13690) 3917. Edith Mirante (zip code: 97202) 3918. gordon smith (zip code: 71901) 3919. Kathe Gardenias (zip code: 95926) 3920. Mike Albar (zip code: 08844) 3921. Mary Ann Leitch (zip code: 19147) No man may poison the people for his private profit. -- Theodore Roosevelt "The supreme reality of our time is the vulnerability of our planet." President John F. Kennedy "When a man must be afraid to drink freely from his country's river and streams that country is no longer fit to live in. "\_ Edward Abbey 3922. Michael Dorer (zip code: 94538) 3923. Maggie A. (zip code: 54301) 3924. Mary Allen (zip code: 68104) 3925. Stephen Green (zip code: 98233) 3926. Guillermina Aguirre (zip code: 80030) 3927. Marcia Frazee (zip code: 46011) 3928 Caroline Fox (zip code: 11725) 3929. FRANCOIS DE LA GIRODAY (zip code: 84093) 3930. Amanda Withrow (zip code: 90405) 3931. Mary Pilafian (zip code: 33156) 3932. Mary Mahoney (zip code: 02114-3247) think of the fallout - people first ahead of corporate greed 3933. Rang Ma (zip code: 05346) 3934. Ronald Matthews (zip code: 01752) 3935. Marc Stein (zip code: 80132)

#### CO31 – Oil Change International (cont'd)

3936. Marcia Hoodwin (zip code: 34238) 3937. Marci Levine (zip code: 90046) 3938. Marc Stoner (zip code: 97408) 3939. Mary Ann Dailey (zip code: 55109) 3940. Margie Koelling (zip code: 32935) 3941. Marle Garescher (zip code: 10591) 3942. Pj Boyce (zip code: 21227) 3943. margaret cole (zip code: 95070) 3944. Margaret T.M. Petkiewicz (zip code: 95125) 3945. Margery Bowser (zip code: 13066) 3946. Margean Kastner (zip code: 63146) 3947. Marge Schneider (zip code: 06084) 3948. Margaret Gallagher (zip code: 21015) 3949. MARGE FEAR (zip code: 44118) 3950. Margaret Hart (zip code: 13036) 3951. Margaret Sweeton (zip code: 67208) 3951. Margie Brickwe (*zip code: 7/209*) 3952. margie Arikawe (*zip code: 7/209*) 3953. Margie Borchers (*zip code: 3101*) 3954. Marjorie Williams (*zip code: 32079*) 3955. Laurence Margolis (zip code: 55345) 3956. Maria Cooper (zip code: 92657) 3957. Maria Duffield (*ip*) code: 33146)
 3958. Maria Socorro (*ip*) code: 39066()
 3959. Marian Cruz (*ip*) code: 39023) Oil/gas destroy and must stop this behavior. NO, No to pipelinel 3960. Marian Cooley [zip code: 4704] These pipelines are too dangerous for people and our environment 3961. Marian Feldman [zip code: 20878] 3962. Marian Hardin (zip code: 84915) 3963. Marl Dominguez (zip code: 95236) 3964. Marie Rourke (zip code: 681343796) 3965. Marilia Calafiori (zip code: 20520) 3966. Marilyn Grotzky (zip code: 80305) 3967. Marilyn Shepherd (zip code: 95570) 3968. Marilyn S. Underwood (zip code: 72641) 3969. Marina Adams (zip code: 10003) 3970. marina lenney (zip code: 93105) 3971. Marlano Marquez III (zip code: 94124) 3972. Jennifer Schaffer (zip code: 78702) 3973. Christina Maris (zip code: 87107) 3974. Marlan Gonzalez (zip code: 78248) 3975. Anthony Buch (zip code: 98115) 3976. Maritza Carrera (zip code: 80129) 3977. Mariu Suarez (zip code: 76123) 3978. Marjorle Wagner (zip code: 11218) 3979. Marjorie Cogan (zip code: 98115) 3980. Margarita Perez (zip code: 91342) 3981. Marjoric Short (zip code: 01960) 3982. Marjorie Rogalski (zip code: 3755) 3983. mark inda (zip code: 35572) 3984. Mark Beckwith (zip code: 9470) 3985. Mark Hollinrake (zip code: 10026) 3986. Mark Wirth Wirth (zip code: 98102) 3987. Mark Reback (zip code: 90042-1107) 3988. Mark Luneo (zip code: 44017-1997) 3989. Barbara Wood (zip code: 19135) The fossil fuel industry has spent millions trying to push fracked gas as a "clean" fuel But our new report on these pipelines shows that label is simply wrong. Any way you slice it, these pipelines would be a disaster for the climate, as well as huge risks to communities threatened by explosive pipelines and fracking dangers. Act now to demand that FERC and federal agencies protect the climate and communities everywhere from these fracked gas pipelines by aligning energy policy with climate science. 3990. Mark Baker (zip code: 11300) 3991. Mark Patten (zip code: 14219) 3992. Mark Holmgren Holmgren (zip code: 33705-3937) Do you even know how late in the game we are, climate-wise? There are other energy paths that create jobs and save our planet. This is addiction and status quo with fracking and fossil fuels. Get help: be the help. Please. Lack over Leep, be the emp reasons 3993. Michael Markit (zip code: 44111) 3994. Mark Leffler (zip code: 38041) this is very important 3995. Wayne Langford (zip code: 38044) 3996. mark wyzenbeek (zip code: 856239) 3997. Marlene Trondler (zip code: 65801) 3995. Marlene Miller (zip code: 3701) 3999. Marlene Hutchison (zip code: 76011) 4000. marle vane (zip code: 95831) We need to get off fossil fuels! 4001. Marly Wexler (zip code: 92103) 4002. Marni Ebersole (zip code: 12866) 4003. Michael and Amy Roberts (zip code: 04680) 4004. Mary Ann Rotondo (zip code: 19473) 4005. Christine Marquette (zip code: 12701) 4006. Elyse Ashton (zip code: 90069) 4007. Marrisha Abbot (zip code: 95006) 4008. Marsha Wiseltier (zip code: 11545) 4009. Margaret Silvers (zip code: 28756) 4010. marta langlois (zip code: 49323) 4011. Marta Hidegkuti (zip code: 60626) 4012. Martha F. Hoar (z) code: 05482) 4013, Martin Diedrich (zip code: 92627) 4014. g b martin (zip code: 94070) 4015. Martin Horwitz Horwitz (zip code: 94122) 4016. Martin Riley (zip code: 92683) 4017. Martin Fogel (zip code: 7044) 4018, Bill Martens (zip Cole 6060 0019. MARY COLINE (spr ode: 3203) 4020. Franciski roge (spr ode: 3403) 4021. Mary Helton (spr ode: 3402) 4022. Mary Crawford (spr ode: 3403) 4023. Mary Berbezat (spr ode: 6124) 4024. Mary Fortesan (spr ode: 3403) 4023. Mary Helton (spr ode: 3403) 4021. Franciski roge (spr ode: 3403) 4021. Fran mary boyle (zip code: 12208) 4028. Mary Ann Black (zip code: 62232-1003) 4029. m w (zip code: 87120) 4030. MaryAnna Foskett (zip code: 02476) 4031. Mary Dalley (zip code: 55109)
 4032. mary Raven (zip code: 03054) Picase, for the future of my children, scale back or eliminate the building of new pipelines and focus on renewable energy instead. We're the USA. If we can put a man on the moon in 1969 we can achieve energy independence without new pipelines! 4033. Mary Burnley Burnley (zip code: 97386) 4034. Mary Link (zip code: 01330) 4035. Mary Chase (zip code: 94947) 4036. Mary Gamson (zip code: 94610) 4037. mary e hunt (zip code: 13820) 4038. Mary Barbezat (zip code: 60125) 4039. mary ellen weiner (zip code: 06||||||||||482) 4040. mary fanelli (zip code: 10017) Add1. Mary D Barrow (zip code: 97201) 4042. Kristin Rall (zip code: 77497) 4043. Mary Malo (zip code: 53202) 4044. Mary Rodarte (zip code: 92371) 4045. Marylee Fithian (zip code: 55409) 4046. Mary McGaughey (zip code: 97030) We want, we must meet our climate goals. We must, therefore, totally divest from all oil energy.....using a timely, organized policy plan.

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4047. Mary McMahon (zip code: 19067) 4048. Mary Landrum (zip code: 42134) 4049. Mary Beckman (zip code: 10925) 4050. Dawn Mason (zip code: 17901) 4051. John Massman (zip code: 60002) 4052. LOUIS PALAZZINI PALAZZINI (zip code: 80011) 4053. Marsha StLouis (zip code: 98031) 4054. Ronald Sverdlove (zip code: 08540) 4055. matthleu claramunt (zip code: 83500) 4056. Matthew Eager (zip code: 11901) 4057. Oil Change International (zip code: 94610) 4058. Matthew Herrington (zip code: 48433) 4059. Matthew Reardon (zip code: 2144) 4060, patricia matthaei (zin code: 79830) 4061. Jennifer Fortin (zip code: 84103) 4062. Matthew Palmer (zip code: 90808) 4063. Maura McCarthy (zip code: 50441) 4064. Meredith West (zip code: 60622) 4065. Anne Rice (zip code: 40516) We need to protect our Nation against abrogators that destroy our Nations Lands, Waters, Air and Sea's! 4066. Maxine Clark Clark (zip code: 98310) 4067. Randy Maxfield (zip code: 97309) 4068. Gay Goden (zip code: 44119) 4069. Max Johnson (zip code: 46303) Seriously, cut the shit out. We don't need any more gas. We need to maximize sustainable and clean energies like solar, wind, and turbine. Yall know this, why do I have to say it? 4070. Mary Axle (zip code: 48357-3324) 4071. Mayellen Henry (zip code: 98008) We have nothing to gain by building these pipelines and way too much to potentially lose. Please don't do it without way more verification that they are not only safe, but necessary. 4072. Mays Swicord (zip code: 33037) 4073. robert mayton (zip code: 42303) 4074. Mojgone Azemun (zip code: 98225) 4075. Melissa Baird (zip code: 34683) Please do NOT do this! 4076. Mark Lloyd Baker (zip code: 85501) 4077. Mary B Bartlett (zip code: 46208) 4078. Barbara Davidson (zip code: 61604-5420) 4079. Margaret Blakley (zip code: 80120) 4080. Michael Diamond (zip code: 10128) 4081. Lynette Belew (zip code: 85224) 4082. Marilyn Lee (zip code: 35630) 4083. Mary Love (zip code: 40031) We need to keep fossil fuels in the ground, not build more pipelines. Instead of building new or repurposing old ones, the industry needs to repair and strengthen the pipelines they already have! 4084. Stuart Weiss (zip code: 80218) 4085. M B NEACE (zip code: 89145) 4086. Mike Bondar (zip code: 19805) 4087. Michael Bordenave (zip code: 93728) 4088. Mary Rand (zip code: 27546) 4089. Marlyn Britton (zip code: 03458) We don't need these. STOP them now. 4090. Monica Daigler (zip code: 14304) 4091. Mary Catherine Green (zip code: 53719) 4092. Carol Thompson (zip code: 15129) 4093. Marilyn Caplin (zip code: 33146) 4094. Michael Cate (zip code: 93921) 4095. Nina McBee (zip code 29621) 4096. Martin Becker (zip code: 34145) 4097. Crawford MacCallum (zip code: 87059) 4098. Karen McChrystal (zip code: 90403) 4099. Harrict McCleary (zip code: 55404) 4100. Elizabeth McCleary (zip code: 85048) 4101. James McConkey (zip code: 60115) 4102. john mccormick (zip code: 08260) 4103. Deborah McCoy (zip code: 98201) 4104. james mccrea (zip code: 302376) 4105. Gary McCuen (zip code: 97302-5209) 4106. Marge Dejack (zip code: 48189) 4107. tom harris (zip code: 08505) 4108. Michael Lillian (zip code: 02135) 4109. Marjorie Johnson (zip code: 11803) 4110. Michael Kemper (zip code: 94109) We need to be weaning ourselves of petroleum products not facilitating their use and the accidents attendant upon their recovery and transportation. 4111. Mary McLeod (zip code: 10027) 4112. Margare C. McHugh (zip code: 07871-1511) 4113. Rosalie McMenamin (zip code: 6022) 4114. Marilyn McMullen (zip code: 36391) 4115. Mari McShane (zip code: 15218) 4116. Maria Sherman (zip code: 93110) 4117. Matthew Skarin (zip code: 80920) 4118. Meredith Tucker (zip code: 60067) 4119. Mark McWhinney (zip code: 6757) 4120. Michelle Fuller (zip code: 80120) 4121. Melinda Armistead (zip code: 01930-1551) 4122. David Moore (zip code: 92308) Climate Change is real! Please; no more fracked gas pipelines. 4123. Myra Dewhurst (zip code: 33176) 4124. Manetric Douglas (zip code: 46219) 4125. Mark Wise (zip code: 22315) 4126. Richard Dykstra (zip code: 12771) 4127. Libby Earle (zip code: Ohio) What we need is oversight and repair of deteriorating existing pipe lines. lines **4128**. Raelyn Michaelson (zip code: 98168) **4129**. Sergio Rivera (zip code: 60634) **4130**. Martha Barrett (zip code: 75230) 50 tol) v L25 are go thread (ap) code: 67204 9132. Mariya Gouttan (ap tole: 70250) 4133. Justishe Bhangh (ap) code: 67204 9132. Mariya Gouttan (2) code: 50250 9133. Ballas Windham (z) code: 77204 9132. Mariya Gouttan (2) code: 50250 9133. Ballas Windham (z) code: 77204 9132. Mariya Gouttan (2) code: 50250 9133. Ballas Windham (z) code: 50250 9133. Ballas Windham (z) code: 50250 9131. Ballas Windham (z) code: 502 4139. RENATE DOLIN (zip code: 90265) 4140. Mehdie Vakili (zip code: 60085) 4141. Eleanor Snyder (zip code: 83467) When will enough be enough? 4142. Elizabeth Hunter (zip code: 85007) 4143. rich meler (zip code: 89434) 4144. Melanie Kuhn (zip code: 47906) 4145. Melanie Rising (zip code: 01605) 4146. Marilyn Lemons (zip code: 85213) 4147. Mel Ginsberg (zip code: 97520) 4148. Melvin Cheltlin (zip code: 94109) 4149. Dr. Mary Ellen Aguirre (zip code: 85713) How much more does the environment have to be poisoned before we stop the madness! allow this to go on the polluters should be required to pay ALL costs of cleanup and medical care for citizens subjected to their disastrous practices. 4150. Melody Kouba (zip code: 80015) 4151. Rosemary Jack (zip code: 60534) 4152. Javier Mendez (zip code: 96817-1200) 4153. Matthew Ennis (zip code: 05404) 4154. Carole Kronberg (zip code: 48223) #NoNeedForFossilFuels #KeepltInTheGround 4155. Morgan Peters (zip code: 90027) 4156. Andrea Fuhrman (zip code: 67410) 4157. Misty McIntyre (zip code: 94501)

#### CO31 – Oil Change International (cont'd)

4158. Ben Kloepper (zip code: 63125) It's not just the pipelines (though they're bad enough); it's also the way the gas they'll move is acquired. Fracking is frakking the environment. 4159. m pritchett (*zip code*: 94501) 4160. Melissa Paige (*zip code*: 10016) 4161. David Rice (*zip code*: 72903) Instead of being instance about more yew needs to be instane about cleaning, protecting and promoting our Nations Lands. Waters and Sea I: K's a no Brainer isn't it? Then get a BRAINI

4162. Mercy Drake (zip code: 85205) 4163. Meredith Ryan (zip code: 77339) 4164. Merel Schoen (zip code: 1183) 4165. Merrill Boone (zip code: 22203)

4166. Mary MacVicar (zip code: 43221) if we can't count on the fed agencies to protect the environment and our health,

where do we turn?????

wiele do we um erit erit (1) 4167. Christy Morrissey (zip code: 54911) 4168. Meryle A. Korn (zip code: 98226) 4169. Marsha Shaiman (zip code: 98122) 4170. Margaret Goodman (zip code: 19342) 4171. Patricia Moncada (zip code: 85712) Stop fracking our Mother Earth, this is destroying us all. Greed has taken over the

3603) 4175. Diane Puckett (prode: 3602) 4170. Januar Asmet Asmet (2010/2012) 9042/91145. Sharton Myton (2010/2012) 4176. marylee fahlstrom (zip code: 36429) 4177. Faye Bennett (zip code: 97214) 4178. Mary Dunn (zip code: 04101) 4179. Marguerita Denise Flowers (zip code: 36421) 4180. Michael Felmet (zip code: 27106)

4181. Douglas McCormick (zip code: 92679) 4182. Marie Fitzsimmons (zip code: 32256) 4183. Mary Ford (zip code: 64155) 4184. Melissa G Bailey (zip code: 08540) 4185. Mary Follis (zip code: 49009)

(a) Log vices released to have (z) constructions of vices vices vices (z) construction (z) construction (z) construction (z) vices vices vices (z) vices water pollution, climate change, biodiversity loss, social injustice, the destabilization of communities and the spread of disease." -- The World Watch Institute

www.cowspiracy.com/ 4188. Michael Iltis (zip code: 53715) 4189. Mark Glauth (zip code: 80863) 4190. Mark Molloy (zip code: 11238) 4191. Margaret Oakes (zip code: 89145) 4192. Mark Gotvald (zip code: 94523) 4193. Mike Griesmeyer (zip Code: 871101 4194. Susan Shaak (zip code: 19606)
 4195. MONICA TURPEN (zip code: 47446) 4196. Margaret Hadderman (zip code: 88061) 4197. Mark Halm (zip code)

4198. Mary OConnell (zip code: 15001) It must be someone's moral duty to protect the innocent. We are the innocent and we need your help to keep us safe. Do the right thing,

4199. Martha Keeley (zip code: 1938) 4200. Kelly Larkin (zip code: 1106) 4201. Marjorie Bridgers (zip code: 08106) 4202. Mary Helen Venos (zip code: 32312) 4203. Maria Dambrosio (zip code: 92203) 4204. Mia Dravis (zip code: 91730) 4205. Michelle Maher (zip code: 97103) 4206. Michael Stella (zip code: 3040) 4207. Michael Kahler (zip code: 66039) 4208. Michael Kavanaugh (zip code: 94115) 4209. Michael Michael Michell (zip code: 52404) 4210. Michaela Redden (zip code: 07648) 4211. Michael DeMoran (zip code: 34293) 4212. michael aman (zip code: 13224) 4213. Michael Shapiro (zip code: 34293) 4212.

33134) 4214. Michael Bromberg (zip code: 98102) 4215. Michael Carpenter (zip code: 54212) 4216. Michael J Rulon Rulon (zip code: 86005) 4217. Michael Prete (zip code:

85719) 4218. M. R. (*iii)* code: 30035) 4219. Jonathan Michael y Muon Auton (*iii)* 10d5: 30005) 4217. mcCale if Pete (*iii)* code: 31035) 4219. Jonathan Michael (*iii)* code: 31012) 4220. Michael Stuart (*iii)* code: 3111) 4222. Michael Boty (*iii)* code: 78734) 4223. Michael Boty (*iii)* code: 78734) 4223. Michael Stuart (*iii)* code: 330112 4225. Michael Boty (*iii)* code: 1754-2303 (*iii)* code: 1754-4230 (*iii)* code: 3111) 4225. Michael Boty (*iii)* code: 1754-4230. Michael Stuart (*iii)* point (*iii)* poi

code: 2007/) 4227. Michelle Inere (zip code: 32507) 4228. Michelle Jordan (zip code: 97520) 4229. Michelle Bentley (zip code: 20713) 4230. Michelle Morris (zip code: 76040) 4231. Mike Conlan (zip code: 98052) 4232. mary m. mason (zip code: 92649) 4233. Michael Malloy (zip code: 75039) 4234. Desiree Middleton Middleton (zip code: 33004) 4235. Mike Conatser (zip code: 84067)

4236. mihal C (zip code: 33132) 4237. Michael Klausing (zip code: 25143) 4238. Mike McCool (zip code: 1527) 4239. With a third (Tap) (ap to access 133) 4245. Michael Dohn (ap to access 4007) 4248. Michael Smith (ap code: 98002) 4248. Michael Elsenberg (ap code: 1763) 4246. Michael Dohn (ap code: 32766) 4247. Michael Smith (ap code: 98902) 4248. Michael Elsenberg (ap code: 2763) 4249. Michael George (ap code: 30566) 4250. Michael Baskell (ap code: 04074) 4251. Michael Callaway (ap code: 9766) 4252. Michael MacGuire (ap code: 98198) 4253. Michael Gelfer (ap code: 10579) 4254. Michael Elktus (ap code: 92054) 4255. Mike Bushaw (ap code: 45424) 4256. Mike Lundgren (ap code: 662051

4257. michael ann herring (zip code: 92612) 4258. Kimberly Frey (zip code: 19711)

4259. Phil and Mille Brady (*igi pode:* 4268) Stop fraction and all the dangerous activities connected with fracking. We need to go to renewal like wind and solar. We need to prevent our planet from the effects of pollution and climate change. 4260. James Miles (zip code: 33405) 4261. Chetna Pittea (zip code: UK) 4262. Mary Millard (zip code: 80439) 4263. Kerby Miller (zip code: 65203) 4264. Emily Busse (zip code: 80997) 4265. Lynda Armona (zip code: 30512) 4266. Michael

Kurland (zip code: 6250) 4267. Jennings Jennings (zip code: 55108) 4268. Maryrose Wilson (zip code: 17257) 4269 Yvonne pratt (zip code: 11772)

NOT NOW. NOT EVER !!!!!! 4270. Mindi Shank (zip code: 90405) 4271. Anne Reldt (zip code: 94560) 4272. Mariann Regan (zip code: 60824) 4273. Mirtam Baum (zip code: 91701) 4274. Mirtam Harian (zip code: 19103) 4275. Marylyn Irrgang (zip code: 56001) 4276. Michele Demers (zip code: 87505)

4277. Judith Sutton (zip code: 46032) 4278. Kelly McMahan (zip code: 87114) 4279. Mellssa Milano (zip code: 35406) 4280. Louis Salerno (dip code: 94501) 4281. mika stickford (zip code: 10012) 4282. Orva M Gullett (zip code: 43302) 4283. Mitch Wilson (zip code: 94179) 4284. Mallda Ticknor (zip code: 0475) 4285. mikzi Trank (zip code: 44274) 4286. Kathryn Rose (zip code: 80205) 4287. Susan Covey (zip code: 94306) 4288. Mary Al-Tukhaim (zip code: 1474) 4289. j D (zip code: 94941)

#### CO31 – Oil Change International (cont'd)

4290. Juan and Maria Balboa (zip code: 92583) 4291. Donna Barrett (zip code: 60089) 4292. marjorie clisson (zip code: 56390) 4293. Michael Frey (zip code: 93130) 4294. Maureen Fauss (zip code: 63129) we must stop fracking it will destroy our water and created earthquakes, it's time to Save the planet NOW!
 4295. Mary Jane Shanklin (zip code: 66783) 4296. Michael Kenny (zip code: 77041)
 4297. MEREDITH KATES (zip code: 66783) 4298. Michael Kenny (zip code: 20815) 4299. michael Lyons (zip code: 80232) 4300. Michael Montgomery (zip code: 33704) 4301. Martha Land Land (zip code: 94518-1324) 4302. Mitch Parkinen (zip code: 94553-3930) 4303. mark rist (zip code: 08050-2920) 4304. Mike Kane (zip code: 60411) 4305. Maren Kentfield (zip code: 85748) The climate impact is devastating. 4306. Mark Klenzynski (zip code: 60544) 4307. Marilyn Logan (zip code: 66208) 4308. Maxim Kolbowski-Frampton Kolbowski-Frampton (zip code: 10002) 4305 maxim roduvismer rainfun kunowski et aufuon (zip coa: 1002) 4309. Mark Kopi (zip code: 4865) Plesse stop this reckless destruction of our environment. No more pipelines please! 4310. Michael Marshall (zip code: 1274 k1) 4311. Manuela Kupfer (zip code: 35039) 4312. Mary Kushmer (zip code: 0766) 4313. Marcy Lachance (zip code: 4003) 4314. michael labey (zip code: 66624) 4315. Michael Lauren Desarbe DeSarbe (zip code: 52565) 4316. Marilyn Carse (zip code: 48103) 4317. Ellen Wade (zip code: 92107) 4318. marjorie leach Parker (zip code: 23464) 4319. Meaghan Leavitt (zip code: 33710) 4320. Michael Lewandowski (zip code: 27526) 4321. Mike Lyons (zip code: 95476) 4322. mindy maxwell (zip code: 2138) 4323. Marie-Louise Nordeman (zip code: 53293) 4324. Mary Carter (zin code: 13760) 4325. Michael Lowe (zip code: 32603) 4326. Mike Sherman (zip code: 98133) We need to focus on Clean, Renewable, and Sustainable energy, not 19th century technology. 4327. Mark Waltzer (zip code: 08003) 4328. Mike Lynxwiler (zip code: 63123) 4329. Mary Zack (zip code: 43086) 4330. Mark Mansfield (zip code: 14456) 4331. Marton Marsh (zip code: 53122) 4332. MIndy Thompson (zip code: 68236) 4333. Michele Biggane (zip code: 45069) 4334. Michael Brown (zip code: 85901) 4335. Marilyn McNabh (zip code: 66522) 4336. Marilee Nagy (zip code: 43230) 4337. Mary Price (zip code: 07002) 4338. Matt Geer Geer (zip code: 60480) 4339. Mildred Meyer (z/p code: 12440) If we ruin our water through various means of fracking and transportation of its products, we'll ruin the Earth - and we will no longer be able to survive on this Earth. 4340. Mary Flannelly (zip code: 94706) 4341. Merri Gelbard (zip code: 95459) 4342. Mark Messing (zip code: 49684) 4343. Marian MacCurdy (zip code: 1007) I once lived on land with a cross continental telephone cable on it. The cable broke and we arrived home one day to find a helicopter, police cars, contriles validacers, and hundreds of people clustered on our and we arrive contriles validacers, and hundreds of people clustered on our contriles validacers, and hundreds of people clustered on our contriles validacers, and hundreds of people clustered on our control validacers, and hundreds of people clustered on our land, digging it up, making a mess, and working 24 hours round the clock to fix this cable. What would this experience have been like if instead of a fiber optic cable it had been a gas line? I shudder to think. These lines break, we all know it. They must not be approved until it it proven they are safe. 4344. Margaret ONeill (*zip code: 03054*) Stop the insanity. If the pipeline doesn't benefit NH, we're not going to let them in! 4345. Michael Monroe (zip code: 02445) 4346. Martin Gachel (zip code: 60640) 4347. m may (zip code: 92008) 4348. mehry sepanlou (zip code: 90296) 4349. Marilyn Mueller (zip code: 30004) We cannot turn our country and planet into an eventual wasteland! 4350. Mary Mutch (zip code: 54601) 4351, Michael Webb (zip code: 45102) 4352. Martha Yoshida (zip code: 10024) 4353. David Clark (zip code: 95070) No new fossil energy. Leave what is left in the ground. 4354. Margaret Stein (zip code: 86326) 4355. Tim Burch (zip code: 4543) 4356. Michael Oblander (zip code: 73072) 4357. M Rangne (zip code: 10009) 4358. James Moffat (zip code: 98270) The science is clear. Fracking is death on many levels. 4359. MOHIB JIVAN (zip code: 90802) 4360. Marina Tonkonogy (zip code: 91302) 4361. Laurle Schick (zip code: 90211) 4362. Mark Molen (zip code: 84103) 4363. Kathryn Lezenby (zip code: 19147) Fracking destroys habitat, forests and farmland and pollutes waterways. It requires huge amounts of water when water is in short supply. We must not cause all this destruction for a fossil fuel when we need to be switching to renewables as quickly as possible. In stead of committing ourselves to future dependency on fossil fuels by investing in this infrastructure, we must invest in renewable energy. 4364. Molly Brown (zip code: 96067) Get real! We have to slow down climate change NOW! 4365. Mary Shaughnessy (zip code: 46217) 4366. Molly Hauck (zip code: 20895) 4367. Maria Mollenkopf (zip code: 78728) 4368. Susan Hurwitz (zip code: 07661) 4369. M Sullivan (zip code: 23238) 4370. Candice Shaffer (zip code: 05673) 4371. Laurel McDonnell (zip code: 78666) 4372. Armando A. Garcia (zip code 90723) 4373. mark nicholas (zip code: VOP 1H0) 4374. Tracy S Troth (zip code: 39208-5710) 4375. monique maas (zip code: 982219416) 4376. F. Michael Montgomery (zip code: 95403) 4377. Steph Cruz (zip code: 11432)

#### CO31 – Oil Change International (cont'd)

4378. Diana Saxon (zip code: 97301) 4379. Valerie Wasson (zip code: 44601) 4380. Mary Johannsen (zip code: 43 /6 Diata askuu (igi zoue: 2500): 70617 43 /7 Vaierte Wasson (20 Colie: 44007) 4300. MarY jonannsei (20 Colie: 45007) 4300. MarY jonannsei (20 Colie: 45007) 4303. Jason Morgan (20 Colie: 45007) 4304. MarK Smith (20 Colie: 45154) 4305. Mary Anne Orikh (20 Colie: 65077) 4385. Miela Morgan (20 Colie: 45077) 4385. Nella Morgan (20 Colie: 45154) 4305. Mary Anne Orikh (20 Colie: 65077) 4385. Miela Morgan (20 Colie: 45154) 4305. Mary Anne Orikh (20 Colie: 65077) 4385. Miela Morgan (20 Colie: 45174) 4305. Mary Colie: 45174 4305. Colie: 45174 4305. Colie: 45174 4305. Mary Colie: 45176 43174. Col 4395. Mary Gibbons (zip code: 48316) 4396. Marilyn Plerson (zip code: 67567) 4397. Marion Lakatos (zip code: 10520) 4398. Pepper Marts (zip code: 87104) 4399. Mark Polsky (zip code: 33021) 4400. Mary Fulton (zip code: 31406) 4401. Zachary Danko (zip code: 97232) 4402. Mark Roberts (zip code: 77339) 4403. Margery Race (zip code: 78741) 4404. Tony Dlaz (zip code: 46356) 4405. Daniel Miller (zip code: 79124) 4406. Devin Henry (zip code: 14802) 4407. Margaret Reiter (zip code: 18353) 4408. Mary Mary (zip code: 97520) 4409. Michele Reynolds (zip code: 48237) 4410. Bill Lindner (zip code: 94904) 4411. Michael Gach (zip code: 96753) 4412. Anthony Odonnell (zip code: 08831) 4413. MARCIA MAROON (zip code: 57042) Pipelines are being pushed all over South Dakota and we don't want them. XI was suppose to go through our county=thank God it was stopped. Only those who could profit personally were disappointed not caring at all about how it would effect others. 4414. Merilie Robertson (zip code: 91307) 4415. Mike Rolbeck (zip code: 95667) 4416. dc katten (zip code: 85331) NO MORE pipelines....they ARE NOT SAFE or RELIABLE: 4417. Brian Todd (zip code: 78628) 4418. Lindsey Caudill (zip code: 78749) 4419. Mr. Sherry Brown (zip code: 20002) 4420. Marta Santos (zip code: 07102) 4421. Andre Meaux (zip code: 27609) 4422. M Rute Correla (zip code: 07201) 4423. Michael Ryan (zip code: 95610) 4424. Marsha Lowry (zip code: 94803-1023) 4425. amy dingman (zip code: 87121) 4426. Alexandra Tumarkin (zip code: 10605) 4427. Krista UBRICK (zip code: 96122) 4428. Crystal Wilson (zip code: 45433) 4429. D.B. Pope [zip code: 20944] Premeditated mass murder for profit is still premeditated mass murder. 4430. Barbara Moore (zip code: 18017) 4431. Sonia Goldstein [zip code: 10011] 4432. Madeline Shaw (zip code: 18037) We are figting the CPV power plant and fracked gas Millenium pipeline in the Town of Wawayanda, Orange County NY for all of the reasons outlined here. How can NY support this industry when it bans fracking within the state??? WE ARE ALL AT RISK!!!! 4433. Melissa Simmons (zip code: 45211) 4434. lenore sivulich (zip code: workinafam) 4435. Michael Sixtus (zip code: 92071) 4436. Lilyana Srnoguy (zip code: 59715) 4437. Margaret Cole (zip code: 15129) 4438. Martha Spann (zip code: 28605) 4439. Michele Temple (zip code: 11377) 4440. Michael Rafaniello (*up code: 11215*) 4441. Marcia Tendick (*up code: 0432*) Please stop making decisions that imperil our planet! No more gas or oil pipelines! 4442. Marshall Mabie (*up code: 2230*) 4443. Francis Warnock (*up code: 19713*) These people are sick. 4444. Michael Tomczyszyn (zip code: 94132-3140) 4445. Mary O'Donnell (zip code: 08067) 4446. Sandra V Mueller Mueller (zip code: 59065-0126) 4447. Maria Scaglione (zip code: 08690) 4448. Kerry Burkhardt (zip code: 14031) 4449. Arlene Fisher (z/p code: 94605) 4450. Jean Knowlton Knowlton (z/p code: 48848-9608) We've already seen multiple wide-spread disasters from pipelines. It's rare to hear of trucks blowing up - may happen but it doesn't cause nearly the amount of damage that a burst pipeline 4451, Dorothy Muir (zip code: 30041) 4452. mukund sharma (zip code: 110029) 4453. Linda Mulder (zip code: 48167) 4454. Edna Mullen (*zip code: 55972*) 4455. Kim Mullins (*zip code: 19711*) 4456. Susan Mullins (*zip code: 07003*) 4457. Amanda Freitas (*zip code: 94707-1904*) 4458. Michelle Murphy (*zip code: 08619*) 4459. Jeffrey West (*zip code: 9546*) 4460. Amy Guskin (zip code: 19355) 4461. Dyan Muse (zip code: 77611) 4462. Gail Caswell (zip code: 94109) 4463. Robert Linzmeier (zip code: 60074) 4464. Linda Holt (zip code: 17073) Pipelines are not safe! 4465. Tara Schell (zip code: 22401) 4466. Mary Egglezos (zip code: 29223) 4467. Valerie Snyder (zip code: 97116) 4468. Matt Larson (zip code: 91104) 4469. Michael Violante (zip code: 33062) 4470. Mandi Woronowicz (zip code: 60513) Clean Energy!!!! And NO FRACKING! 4471. Margaret Wallace (zip code: 95076-9054) 4472. Marilyn Waltastl (zip code: 85138) 4473. mike washil (zip code: 15642) 4474. Maggie Wineburgh-Freed (zip code: 90041) 4475. m wilkinson (zip code: 79413) 4476. Mark Winslow (zip code: +47.5. maggie w incomget-reede (ap code: 90043) 4475. In wilkinson (ap code: 79413) 4476. Mark Winslow (ap code: 2212) 4477. Mirinda Leiva (ap code: 423) 4478. Miriam Rice (ap code: 42866) 4479. Martha Tack (ap code: 36092) 4480. Amy Christenson (ap code: 93955) 4481. Peter Kerr (ap code: 92086) 4479. Martha Tack (ap code: 36092) 4480. Amy Christenson (ap code: 93955) 4481. 4482. Robert Myers (zip code: 90740) 4483. Rosemary Murray (zip code: 19468) 4484. Maria Minerva (*zip code: 11710*) It's time to stop being subservient to big oil and do your Job.
4485. Denise Romesburg (*zip code: 85021*) 4486. Kate Harder (*zip code: 60137*) 4487. Mzd Brown (*zip code: 01752-3759*)

#### CO31 – Oil Change International (cont'd)

4488. M Kirby (zip code: 19129) We have only one planetary home. We must protect Earth's environment for the sake of future generation 4489. Nancy Havassy (zip code: 94611) 4490. Charles Jonaltis (zip code: 90046) 4491. Nancy & Tony Lopez (zip code: 10309) 4492. Noel Barnes (zip code: 98058) 4493. Beverly Edwards (zip code: 03084) 4494, nady corvers (zin code: 15047) 4495. Nadya Schmeder (zip code: 94559) 4496. Nadya Tichman (zip code: 94602) 4497. Naira Bribiesca Hueper (zip code: 66103) 4498. Ian Simmons (zip code: 96161) 4499. Nakia Lilly (zip code: 80526) 4500. Caressa Al-Khateeb (zip code: 34690) 4501. Neville Allum (zip code: 30033) 4502. Linda Hartman (zip code: 14072) 4503. Nancy Porter-Steele (zip code: 92020) 4504, Nancy Vann (zip code: 10566) 4505. Nancy Rinkenberger (zip code: 24483) 4506. Nancy Hauer (zip code: 55110) 4507. Nancy Hiestand (zip code: 95616) Now is the time to do the right thing for people and the environment. 4508. Nancy Furlow (zip code: 32118) 4509. Nancy G (zip code: 30067) 4510. Nancy Mead (zip code: 95060) 4511. Nancy Neumann (zip code: 55270) 4512. Nancy Hines (zip code: 98125) 4513. Nancy White (zip code: 99216) 4514. Nancy Pfeiler (zip code: 97304) 4515. Nancy Philips (zip code: 5055) 4516. Nancy Roessel (zip code: 32038) We have a to stop burning fossil fuel now!!! 4517. Nancy Stamm (zip code: 34945) 4518. NANCY SEYMOUR (zip code: 55401) 4519. Nancy Wall (zip code: 85716) We cannot continue to depend on fracked gas. The well-being of our future generations demands that we act now to stop fracking and invest in clean energy. 4520. Daniela JIMENEZ (zip code: 33141) 4521. N Rogin (zip code: 7041) 4522. Amelia Narigon (zip code: 60532) 4523. Chris Stiff (zip code: 23188) 4524. George Neste (zip code: 27265) 4525. nathalie camus (zip code: 11423) 4526. Nathan Allen (zip code: 33604) 4527. Nathanieł Lee-Ran (zip code: T3C1G8) 4528. Christine Nathanson (zip code: 94558) 4529. brad kalita (zip code: 97624) 4530. Chuck Hamilton (zip code: 37403) 4531. Dennis Balgemann (zip code: 33917-4407) It seems that both political parties still love their lucrative relationship to the fossil fuel industry. This is a game changer if these pipelines continue to be built, and if the oil companies continue to be given government subsidies. Climate change is an international problem, but it won't be solved if the United States remains culpable for contaminating the atmosphere with C012 4532. Phoebe Oaks (zip code: 97219) 4533. Natylie Baldwin (zip code: 94521) 4534. Paul Naylor (zip code: 27707) 4535. Naython Williams (zip code: 70124) 4536. Nicole Beck (zip code: 60612) Why the hell are we allowing the fossil fuel industry to run ramshackle all over the US (and the world) wreaking havoc and exacerbating climate change? 4537. NANCY brt (zip code: 68503) 4538. Friend B (zip code: 53143) 4539. DANIEL ATER (zip code: 28803) 4540. Linda Orr (zip code: 28734) 4541. Neil Cardew-Panning (zip code: 95714) 4542. Nancy Brothers (zip code: 12724) 4543. Sue Patterson (zip code: 28463) 4544. George Phillips (zip code: 27516) 4545. N Deif (zip code: 28743) 4546. August Umphred (zip code: 28624) 4547. Edward Savage (zip code: 24733) 4548. James Neely (zip code: 78756) 4549. Neil Bacher (zip code: 33407) 4550. Matthew Neill (zip code: 28801) 4551. Nelda McLaughlin (zip code: 87401) 4552. Brooke Prim (zip code: 8749) SICK AND TIRED IF THIS SHITL 4553. helen goodspeed (zip code: 10601) 4554. L Nelson (zip code: 95038) 4555. Enrique Baloyra Baloyra (zip code: 33161) 4556. Roark Vane (zip code: 95831) 4557. Roberto Romo (zip code: 94121) 4558. Nathaniel E. Perry (zip code: 99771) 4559. Nancy Robinson (zip code: 93555) 4560. barbara neri (zip code: 48169) 4561. Mary Mac Namara (zip code: 90210) 4562. D. Chalfin (zip code: 01702) 4563. Alyss Sanner (zip code: 93243) 4564. Mary Neveaux (zip code: 55345) 4565. Janc Stone (zip code: 84060) 4566. Nancy Woolley (zip code: 98382) 4567. Nezka Pfeifer (zip code: 18505) 4568. Neil Freson (zip code: 14467) 4569. Nadine Alfonso (zip code: 85211) 4570. Natalie Hanson (zip code: 48917) However, you MUST do MUCH more. We MUST keep ALL climate-changing fossil fuels in the ground! 4571. Nancy Brandt (zip code: 60611-2389) 4572. Nancy Hoffman (zip code: 89434) 573. Kevin Smith (zip code: 14218) 4574. Nick Gaetano (zip code: 92651) 4575. Nicolas Humphrey (zip code: 54301) 4576. Nicole Rosa (zip code: 60903) 4577. Nicola (zip code: 2762) 4578. Nicola Nelson (zp code: 84401) 4579. Nicola Nicola (zip code: 19625) 4580. Dinah Nieburg (zip code: 2023) 4501. Krista Nordstrom (zip code: 94114) 4583. Michele Nihtpall (zip code: 96717) 4584. Pamela Utterback (zip code: 19460) 4585. Caroline Themm (zip code: 10025) 4586. Nina Diamante (zip code: 90040) 4587. Nancy Bengtson (zip code: 86351) 4588. Brandon Lea (zip code: 92543) 4589. Joey Leftow (zip code: 10/04/0) 4590. Deborah Fobes (zip code: 03907) 4591. cynthia kent (zip code: 07109) 4592. Nick J (zip code: 92627) 4593. Nick Leon (zip code: 95125) 4594. Nancy Sullo (zip code: 80304) 4595. Linda Ogren (zip code: 4910) 4596. Nancy Krempa (zip code: 48350) 4597. Nancy Marshall (zip code: 19522) 4598, Nina Aronoff (zip code: 02130) 4599, Nadine LaVonne (zip code: 98107) 4600 Leigh Campbell-Earl (zip code: 48911-5471 ) 4601. Nancy Leys (zip code: 53216) 4602. Nicki Listerman (zip code: 66047) 4603. Nanlouise Wolfe (zip code: 95060) 4604. Nancy McLelland (zip code: 08043) 4605. Natalie Duleba (zip code: 95618)

### CO31 – Oil Change International (cont'd)

<ul> <li>4006. Scott Cuttrill <i>(ip code:</i> 87123-1309)</li> <li>4007. Norma Miller (<i>ip code:</i> 87123-1309)</li> <li>4008. Nikolaso Milanas (<i>ip code:</i> 8209)</li> <li>4008. Nikolaso Milanas (<i>ip code:</i> 8209)</li> <li>4010. Nanay Norme (<i>ip code:</i> 8207)</li> <li>4011. Nang Killgere (<i>ip code:</i> 9207)</li> <li>4011. Nang Killgere (<i>ip code:</i> 9207)</li> <li>4012. Nang Killgere (<i>ip code:</i> 9207)</li> <li>4013. Nang Killgere (<i>ip code:</i> 9207)</li> <li>4013. Nang Killgere (<i>ip code:</i> 9207)</li> <li>4014. Nang Killgere (<i>ip code:</i> 9207)</li> <li>4015. Neenee Barney Campbell Barney-Campbell (<i>ip code:</i> 9213-1279)</li> <li>4017. Narket Aalderon (<i>ip code:</i> 9213)</li> <li>4016. Neenee Barney Campbell Barney-Campbell (<i>ip code:</i> 9204)</li> <li>4020. Anyreta Aalderon (<i>ip code:</i> 9213)</li> <li>4021. Narket Aalderon (<i>ip code:</i> 9213)</li> <li>4023. Norreta Basandrello (<i>ip code:</i> 9203)</li> <li>4024. Narna Volk (<i>ip code:</i> 9203)</li> <li>4025. Norreta Marten (<i>ip code:</i> 9203)</li> <li>4026. Narna Volk (<i>ip code:</i> 9303)</li> <li>4026. Narna Volk (<i>ip code:</i> 9303)</li> <li>4027. Norreta Marten (<i>ip code:</i> 9303)</li> <li>4028. Narna Volk (<i>ip code:</i> 9303)</li> <li>4028. Narna Volk (<i>ip code:</i> 9303)</li> <li>4029. Narket Aalderon (<i>ip code:</i> 12304)</li> <li>4027. Norreta Marten (<i>ip code:</i> 12307)</li> <li>4028. Narna Volk (<i>ip code:</i> 9302)</li> <li>4029. Narket Aalderon (<i>ip code:</i> 12302)</li> <li>4028. Narna Volk (<i>ip code:</i> 9302)</li> <li>4029. Narket Aalderon (<i>ip code:</i> 12302)</li> <li>4021. Narket Aalderon (<i>ip code:</i> 12302)</li> <li>4025. Narna Volk (<i>ip code:</i> 9302)</li> <li>4024. Narna Volk (<i>ip code:</i> 9302)</li> <li>4024. Narna Volk (<i>ip code:</i> 9302)</li> <li>4025. Narna Narket (<i>ip code:</i> 9302)</li> <li>4025. Narna Narket (<i>ip code:</i> 9302)</li> <li>4029. Narket Aalderon (<i>ip code:</i> 12302)</li> <li>4029. Narket Aalderon (<i>ip code:</i> 9302)</li> <li>4029. Narket Aalderon (<i>ip code:</i> 9302)</li> &lt;</ul>	<ul> <li>4607. Norma Miller (pp code: 2970)</li> <li>4609. Natery Moore (<i>ap</i> code: 2376)</li> <li>4610. Natile Nassbaur (<i>ap</i> code: 2376-2537)</li> <li>4613. Natile Nassbaur (<i>ap</i> code: 2376-2537)</li> <li>4613. Natile Nassbaur (<i>ap</i> code: 2376-2537)</li> <li>4613. Note (<i>ap</i> code: 2376-2537)</li> <li>4614. Note (<i>ap</i> code: 2376-2537)</li> <li>4615. Note (<i>ap</i> code: 2376-2537)</li> <li>4615. Note (<i>ap</i> code: 2376-2537)</li> <li>4616. Nonene Ramyer Campbell Rampe-Campbell (<i>ap</i> code: 9613-1379)</li> <li>4617. Note (<i>ap</i> code: 2376-2537)</li> <li>4618. Nonene Ramyer Campbell Rampe-Campbell (<i>ap</i> code: 9613-1379)</li> <li>4619. Nonene Ramyer Campbell Rampe-Campbell (<i>ap</i> code: 9613-1379)</li> <li>4619. Nonene Ramper Campbell Rampe-Campbell (<i>ap</i> code: 9260)</li> <li>4620. Morace Addition (<i>ap</i> code: 33714)</li> <li>4620. Morace Addition (<i>ap</i> code: 33714)</li> <li>4621. Notene Ramper Campbell Rampe Campbell (<i>ap</i> code: 32704)</li> <li>4623. Norreen lassandreilo (<i>ap</i> code: 33714)</li> <li>4624. Norrae Additi (<i>ap</i> code: 33714)</li> <li>4624. Norreen Addition (<i>ap</i> code: 33714)</li> <li>4625. Norrae Addition (<i>ap</i> code: 33714)</li> <li>4626. Norrae Addition (<i>ap</i> code: 33714)</li> <li>4627. Norreen Nasandreilo (<i>ap</i> code: 33714)</li> <li>4628. Norrae Addition (<i>ap</i> code: 337214)</li> <li>4629. Norrae Addition (<i>ap</i> code: 337214)</li> <li>4630. Nutsin North (<i>ap</i> code: 43723)</li> <li>4630. Nutsin North (<i>ap</i> code: 43723)</li> <li>4631. Nutsin (<i>ap</i> code: 343234)</li> <li>4631. Nutsin (<i>ap</i> code: 34324)</li> <li>4631. Nutsin (<i>ap</i> code: 34324)</li> <li>4631. Nutsin North (<i>ap</i> code: 34334)</li> <li>4634. Nutsin North (<i>ap</i> code: 34334431)</li> <li>4634. Norma Rorth (<i>ap</i> code: 34334)</li> <li< th=""><th></th><th></th></li<></ul>		
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<ul> <li>4607. Norma Niller (<i>ip</i> code: 9317)</li> <li>4608. Nicolos Nillosa (<i>ip</i> code: 53276)</li> <li>4609. Nincy Norme (<i>ip</i> code: 53276)</li> <li>4610. Ratalle Nassakani (<i>ip</i> code: 52476)</li> <li>4611. Atalle Nassakani (<i>ip</i> code: 52476)</li> <li>4612. Mytski Powell (<i>ip</i> code: 52476)</li> <li>4613. Noel Ennwelt (<i>ip</i> code: 52476)</li> <li>4614. Noel Enryer (<i>ip</i> code: 52476)</li> <li>4615. Noel Ennwelt (<i>ip</i> code: 52476)</li> <li>4615. Noel Ennwelt (<i>ip</i> code: 52476)</li> <li>4616. Noene Enryer, Campbell Birney-Campbell (<i>ip</i> code: 56413-1377)</li> <li>4617. Noel Ennwelt (<i>ip</i> code: 52476)</li> <li>4618. Noel Enryer (<i>ip</i> code: 52476)</li> <li>4619. Awrketa Anderson (<i>ip</i> code: 52476)</li> <li>4619. Murketa Anderson (<i>ip</i> code: 52476)</li> <li>4620. Marketa Anderson (<i>ip</i> code: 52476)</li> <li>4621. Nara Poll (<i>ip</i>) (<i>ip</i>)</li></ul>	<ul> <li>4607. Norma Miller (pp code: 2970)</li> <li>4609. Natery Moore (<i>ap</i> code: 2376)</li> <li>4610. Natile Nassbaur (<i>ap</i> code: 2376-2537)</li> <li>4613. Natile Nassbaur (<i>ap</i> code: 2376-2537)</li> <li>4613. Natile Nassbaur (<i>ap</i> code: 2376-2537)</li> <li>4613. Note (<i>ap</i> code: 2376-2537)</li> <li>4614. Note (<i>ap</i> code: 2376-2537)</li> <li>4615. Note (<i>ap</i> code: 2376-2537)</li> <li>4615. Note (<i>ap</i> code: 2376-2537)</li> <li>4616. Nonene Ramyer Campbell Rampe-Campbell (<i>ap</i> code: 9613-1379)</li> <li>4617. Note (<i>ap</i> code: 2376-2537)</li> <li>4618. Nonene Ramyer Campbell Rampe-Campbell (<i>ap</i> code: 9613-1379)</li> <li>4619. Nonene Ramyer Campbell Rampe-Campbell (<i>ap</i> code: 9613-1379)</li> <li>4619. Nonene Ramper Campbell Rampe-Campbell (<i>ap</i> code: 9260)</li> <li>4620. Morace Addition (<i>ap</i> code: 33714)</li> <li>4620. Morace Addition (<i>ap</i> code: 33714)</li> <li>4621. Notene Ramper Campbell Rampe Campbell (<i>ap</i> code: 32704)</li> <li>4623. Norreen lassandreilo (<i>ap</i> code: 33714)</li> <li>4624. Norrae Additi (<i>ap</i> code: 33714)</li> <li>4624. Norreen Addition (<i>ap</i> code: 33714)</li> <li>4625. Norrae Addition (<i>ap</i> code: 33714)</li> <li>4626. Norrae Addition (<i>ap</i> code: 33714)</li> <li>4627. Norreen Nasandreilo (<i>ap</i> code: 33714)</li> <li>4628. Norrae Addition (<i>ap</i> code: 337214)</li> <li>4629. Norrae Addition (<i>ap</i> code: 337214)</li> <li>4630. Nutsin North (<i>ap</i> code: 43723)</li> <li>4630. Nutsin North (<i>ap</i> code: 43723)</li> <li>4631. Nutsin (<i>ap</i> code: 343234)</li> <li>4631. Nutsin (<i>ap</i> code: 34324)</li> <li>4631. Nutsin (<i>ap</i> code: 34324)</li> <li>4631. Nutsin North (<i>ap</i> code: 34334)</li> <li>4634. Nutsin North (<i>ap</i> code: 34334431)</li> <li>4634. Norma Rorth (<i>ap</i> code: 34334)</li> <li< td=""><td></td><td></td></li<></ul>		
<ul> <li>4608. Nicolas Milonas (<i>ipc ocide 2020</i>)</li> <li>4609. Nicolas Milonas (<i>ipc ocide 1247</i>)</li> <li>4611. Natale Nusskaum (<i>ipc ocide 1247</i>)</li> <li>4611. North (<i>ipc ocide 2237e-554</i>) Don't talk the talk (<i>i</i> you aren't goma wolk the walk.</li> <li>4613. Robert A. Meriz (<i>ipc ocide 2337e-554</i>) Don't talk the talk (<i>i</i> you aren't goma wolk the walk.</li> <li>4615. Noel Emsweller (<i>ipc ocide 13484</i>)</li> <li>4615. Noel Emsweller (<i>ipc ocide 13482</i>)</li> <li>4616. Noence Earney Campbell Enrore-Campbell (<i>ipc ocide 29613-1379</i>)</li> <li>4617. M. &amp; MUS. BRUCE REVES (<i>ipc ocide 13036</i>)</li> <li>4618. Noence Earney Campbell Enrore-Campbell (<i>ipc ocide 2976</i>) 4022. Michael North (<i>ipc ocide 23777</i>)</li> <li>4617. M. &amp; MUS. BRUCE REVES (<i>ipc ocide 13032</i>) 4621. Nora Polk (<i>ipc ocide 2776</i>) 4022. Michael Norden (<i>ipc ocide 23777</i>)</li> <li>4623. Marketa Anderson (<i>ipc ocide 43032</i>) 4623. Rohael (<i>ipc ocide 2776</i>) 4622. Michael Norden (<i>ipc ocide 23777</i>)</li> <li>4623. Marketa Anderson (<i>ipc ocide 43032</i>) 4624. Richard Tregidgo (<i>ipc ocide 1732</i>) 4625. sasan north (<i>ipc ocide 23777</i>)</li> <li>4637. Aromayn day (<i>ipc ocide 43027</i>) 4637. Roheer 1 Jakubic (<i>ipc ocide 2716</i>) 4635. Richael Ballow (<i>ipc ocide 2312</i>)</li> <li>4638. Kortin Schader (<i>ipc ocide 23927</i>) 4637. Roheer 1 Jakubic (<i>ipc ocide 2716</i>) 4635. Richael Ballow (<i>ipc ocide 23128</i>)</li> <li>4639. Ander A. Morti (<i>ipc ocide 43327</i>) 4637. Roheer 1 Jakubic (<i>ipc ocide 2017</i>) 4638. Michael Ballow (<i>ipc ocide 23128</i>)</li> <li>4639. Ander A. Morti (<i>ipc ocide 43328</i>) 4631 Phyllenes fail. Ceiting the oli in the first place through fracking makes our water <i>intel</i>. Ander and <i>ipc ocide 23208</i>, 4643. Narth Core and <i>intel</i> (<i>ipc ocide 23208</i>). 4651. Nich Marting (<i>ipc ocide 23208</i>)</li> <li>4644. Norm Corral (<i>ipc ocide 23208</i>). And <i>ipc ocide 23208</i>, 4653. Intel (<i>intel in coide 23208</i>).</li> <li>4644. Norm Corral (<i>ipc ocide 23208</i>). And <i>ipc ocide 23208</i>, 4653. Nichael Ballow (<i>idc ocide 23208</i>).</li> <li>4644. Norm Corral (<i>ipc ocide 23208</i>). And <i>ipc ocide</i></li></ul>	<ul> <li>4608. Nikolaos Minons (<i>ip</i>: oxde: 20209)</li> <li>4609. Nikolaos Minons (<i>ip</i>: oxde: 23705)</li> <li>4611. Natale Nikolaos Minor (<i>ip</i>: oxde: 2376-4551) Don't talk the talk if you aren't gonna walk the walk.</li> <li>4614. Note (Grygera (<i>ip</i>: oxde: 5376-4551) Don't talk the talk if you aren't gonna walk the walk.</li> <li>4614. Note (Grygera (<i>ip</i>: oxde: 5376-4551) Don't talk the talk if you aren't gonna walk the walk.</li> <li>4615. Noel Emsruit (<i>ip</i>: oxde: 2335)</li> <li>4616. Noene Emsrue; Campbell Barney-Campbell (<i>ip</i>: oxde: 94813-1379)</li> <li>4617. MK. &amp; MKS. BRUCE REVISZ: (<i>in</i>: oxde: 7009)</li> <li>4618. Once Emsrue; Campbell Barney-Campbell (<i>ip</i>: oxde: 92613-1379)</li> <li>4617. MK. &amp; MKS. BRUCE REVISZ: (<i>in</i>: oxde: 70109)</li> <li>4620. Marketa: Anderson (<i>ip</i>: oxde: 6336)</li> <li>4621. Norar Dolk (<i>ip</i>: oxde: 9262)</li> <li>4623. Marketa: Anderson (<i>ip</i>: oxde: 6326)</li> <li>4624. Narketa: Anderson (<i>ip</i>: oxde: 63376)</li> <li>4625. Norm Revent (<i>ip</i>: oxde: 63376)</li> <li>4626. Normany Gol (<i>ip</i>: oxde: 63377)</li> <li>4627. Tommyred Gol (<i>ip</i>: oxde: 63377)</li> <li>4637. Normayred Gol (<i>ip</i>: oxde: 63377)</li> <li>4638. Ukaha Varti (<i>ip</i>: oxde: 73707)</li> <li>4639. Tommyred Gol (<i>ip</i>: oxde: 73707)</li> <li>4630. Norma Jorn's (<i>ip</i>: oxde: 73707)</li> <li>4630. Norma Jorn's (<i>ip</i>: oxde: 73707)</li> <li>4630. Norma Jorn's (<i>ip</i>: oxde: 73707)</li> <li>4631. Normalyred Sile (<i>ip</i>: oxde: 73707)</li> <li>4631. Normalyred Sile (<i>ip</i>: oxde: 73707)</li> <li>4633. Normalyred Sile (<i>ip</i>: oxde: 73707)</li> <li>4634. Norm (<i>ip</i>: oxde: 73807)</li> <li>4635. Normalyred Sile (<i>ip</i>: oxde: 73707)</li> <li>4637. Normalyred Sile (<i>ip</i>: oxde: 73807)</li> <li>4638. Normalyred Sile (<i>ip</i>: oxde: 73807)</li> <li>4639. Normalyred Sile (<i>ip</i>: oxde: 73807)</li> <li>4630. Normal Normal (<i>ip</i>: oxde: 73807)</li> <li>4631. Normalyred (<i>ip</i>: oxde: 73807)</li> <li>4631. Normalyred Sile (<i>ip</i>: oxde: 73807)</li> <li>4633. Normalyred Sile (<i>ip</i>: oxde: 73807)</li> <li>4634. Normalyred (<i>ip</i>: oxde: 73807)</li> <li>4635. No</li></ul>		
<ul> <li>4609. Narey Moore (<i>ipc</i> code: 52765)</li> <li>4610. Narele Nusskawn (<i>ipc</i> code: 12747)</li> <li>4611. Narey Nigner (<i>ipc</i> code: 3837)</li> <li>4613. Nore fi, <i>Narele (<i>ipc</i> code: 3837)</i></li> <li>4614. Noel Groyera (<i>ipc</i> code: 3335)</li> <li>4616. Noence Barrey Campbell Barrey-Campbell (<i>ipc</i> code: 96813-1377)</li> <li>4617. Noel Enswelter (<i>ipc</i> code: 3336)</li> <li>4618. Noel Groyera (<i>ipc</i> code: 3337)</li> <li>4619. Noel Enswelter (<i>ipc</i> code: 3337)</li> <li>4619. Noel Enswelter (<i>ipc</i> code: 3368)</li> <li>4620. Nore 16. (<i>ipc</i> code: 3367)</li> <li>4619. Marketa Adheren (<i>ipc</i> code: 3367)</li> <li>4621. Nore Netler (<i>ipc</i> code: 3372)</li> <li>4623. Nore Netler (<i>ipc</i> code: 3372)</li> <li>4623. Nore Netler (<i>ipc</i> code: 3372)</li> <li>4623. Nore Netler (<i>ipc</i> code: 3472)</li> <li>4623. Nore Netler (<i>ipc</i> code: 3472)</li> <li>4624. Nore Netler (<i>ipc</i> code: 3472)</li> <li>4624. Nore Netler (<i>ipc</i> code: 3472)</li> <li>4625. Nore Netler (<i>ipc</i> code: 3472)</li> <li>4626. Norean Odel (<i>ipc</i> code: 3473)</li> <li>4627. Norean Netler (<i>ipc</i> code: 3472)</li> <li>4628. Netler (<i>ipc</i> code: 3472)</li> <li>4628. Netler (<i>ipc</i> code: 3472)</li> <li>4637. Anternagnet aby (<i>ipc</i> code: 4423)</li> <li>4628. Netler (<i>ipc</i> code: 3472)</li> <li>4638. Netle (<i>ipc</i> code: 3472)</li> <li>4637. Netler (<i>ipc</i> code: 3472)</li> <li>4638. Netle (<i>ipc</i> code: 3472)</li> <li>4639. Netle (<i>ipc</i> code: 3472)</li> <li>4639. Netle (<i>ipc</i> code: 3472)</li> <li>4639. Netle (<i>ipc</i> code: 3472)</li> <li>4641. Numer (<i>ipc</i> code: 3472)</li> <li>4642. Norean Netler (<i>ipc</i> code: 3472)</li> <li>4643. Numer (<i>ipc</i> code: 3472)</li> <li>4644. Numer (<i>ipc</i> code: 3472)</li> <li>4644. Numer (<i>ipc</i> code: 3472)</li> <li>4644. Numer (<i>ipc</i> code: 3472)</li> <li>4645. Netler (<i>ipc</i> code: 3472)</li> <li>4647. Numer (<i>ipc</i> code: 3472)</li> <li>4648. Numer (<i>ipc</i> code: 3472)</li> <li>4649. Numer (<i>ipc</i> code: 3472)</li> <li>4641. Numer (<i>ipc</i> code: 3472)</li> <li>4641. Numer (<i>ipc</i> code: 3472)</li> <li>4642. NUMAH ANGER (<i>ipc</i> code: 3472)</li> <li>4643. Annaffan Na</li></ul>	<ul> <li>4609. Natry Moore (<i>µp</i>: ode: 52705)</li> <li>4611. Natry Kligner (<i>µp</i>: ode: 79657)</li> <li>4611. Natry Kligner (<i>µp</i>: ode: 79657)</li> <li>4611. Natry Kligner (<i>µp</i>: ode: 79657)</li> <li>4613. Notel Grygers (<i>µp</i>: ode: 79657)</li> <li>4615. Notel Grygers (<i>µp</i>: ode: 79657)</li> <li>4615. Notel Grygers (<i>µp</i>: ode: 7970)</li> <li>4618. Michael Molder (<i>µp</i>: ode: 7970)</li> <li>4618. Michael Molder (<i>µp</i>: ode: 7970)</li> <li>4619. Konene Barnsy-Campbell Barney-Campbell (<i>µp</i>: ode: 99813-1379)</li> <li>4617. Note Ryskes (<i>µp</i>: ode: 7970)</li> <li>4618. Michael Molder (<i>µp</i>: ode: 7970)</li> <li>4618. Michael Molder (<i>µp</i>: ode: 7970)</li> <li>4619. Michael Molder (<i>µp</i>: ode: 7970)</li> <li>4620. Norma Odel (<i>µp</i>: ode: 7970)</li> <li>4631. Nore Planney (<i>µp</i>: ode: 7970)</li> <li>4633. Marken Andersona (<i>µp</i>: ode: 7970)</li> <li>4647. normayne day (<i>µp</i>: ode: 48324). 4628. Kikhard Trepidgo (<i>µp</i>: ode: 7752). 4623. Lack Milton (<i>µp</i>: ode: 79816)</li> <li>4636. Korth Schall (<i>µp</i>: ode: 49324). Add Sl. Matel Indonson (<i>µp</i>: ode: 5972). 4623. Lack Milton (<i>µp</i>: ode: 79817)</li> <li>4636. Korth Schall (<i>µp</i>: ode: 49324). 4623. Michael Balfour (<i>µp</i>: ode: 79817)</li> <li>4636. Korth Schall (<i>µp</i>: ode: 49324). 4637. Michael Shallor (<i>µp</i>: ode: 69022). 4638. Michael Balfour (<i>µp</i>: ode: 7323). 4648.</li> <li>4640. Nadine Aydt (<i>µp</i>: ode: 69024). Add Sl: Add Balfour (<i>µp</i>: ode: 59204)</li> <li>4642. Nadine Aydt (<i>µp</i>: ode: 69024). Add Sl: Add Balfour (<i>µp</i>: ode: 59217)</li> <li>4643. Nating Roberts' Monet (<i>µp</i>: ode: 5904)</li> <li>4644. Korth Schall (<i>µp</i>: ode: 69043). 4651. Hort Roberts Balfour (<i>µp</i>: ode: 59217)</li> <li>4644. Notalle Aydt (<i>µp</i>: ode: 69042). Add Klanner (<i>µp</i>: ode: 59217)</li> <li>4644. Notalle Aydt (<i>µp</i>: ode: 69042). Add Klanner (<i>µp</i>: ode: 59217)</li> <li>46</li></ul>	4607. Norma Miller (zip code: 94112) 4608. Nikolaos Milanas (zin code: 02090)	
<ul> <li>4611. Nancy Riggre (<i>i</i><sub>10</sub>; <i>ocie</i>, <i>9501</i>)</li> <li>4613. Robert A. Mertz (<i>lap ocie</i>, <i>5237</i>-67551) Don't talk the talk if you aren't gonna walk the walk.</li> <li>4614. Nool Gygreg (<i>lap ocie</i>, <i>5247</i>-67551)</li> <li>4615. Nool Gygreg (<i>lap ocie</i>, <i>5247</i>-67551)</li> <li>4617. Mole Gygreg (<i>lap ocie</i>, <i>5247</i>-67551)</li> <li>4618. Michael Molder (<i>lap ocie</i>, <i>5247</i>-67551)</li> <li>4618. Michael Molder (<i>lap ocie</i>, <i>5247</i>-67551)</li> <li>4619. Michael Molder (<i>lap ocie</i>, <i>5247</i>-6751)</li> <li>4619. Michael Molder (<i>lap ocie</i>, <i>5247</i>-6751)</li> <li>4619. Michael Molder (<i>lap ocie</i>, <i>5247</i>-6751)</li> <li>4620. Marketa Anderson (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4623. Marketa Anderson (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4623. Marketa Anderson (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4623. Marketa Anderson (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4624. Summer Lissandrello (<i>lap ocie</i>, <i>6252</i>-7572)</li> <li>4625. Morte Lissandrello (<i>lap ocie</i>, <i>6252</i>-7572)</li> <li>4627. mortson Kenpher (<i>lap cocie</i>, <i>5252</i>-7572)</li> <li>4628. Advanta Moltania, <i>lap ocie</i>, <i>5522</i>-7572</li> <li>4629. Michael Summer (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4639. Michael Summer (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4641. Nations, <i>Robiter (lap ocie</i>, <i>5252</i>-7572)</li> <li>4643. Nations, <i>lap ocie</i>, <i>5252</i>-7572</li> <li>4643. Nations, <i>lap ocie</i>, <i>5252</i>-7572</li> <li>4643. Nations, <i>lan ocie</i>, <i>112</i>-800</li> <li>4644. Nations (<i>lap ocie</i>, <i>5252</i>-7572)</li> <li>4645. Nations (<i>lap ocie</i>, <i>5262</i>-7572)</li> <li>4645. Nations (<i>lap ocie</i>, <i>5262</i>-7752)</li> <li>4645. Nations (<i>lap ocie</i>, <i>52</i></li></ul>	<ul> <li>411. Nancy Kligner (<i>ip</i>) <i>cide</i>: 39837)</li> <li>4612. Myuli Hawell (<i>ip</i>) <i>code</i>: 32655)</li> <li>4613. Robert A. Mettz (<i>ip</i>) <i>code</i>: 32657)</li> <li>4614. Noole Grygers (<i>ip</i>) <i>code</i>: 32657)</li> <li>4615. Noome Barnet (<i>ip</i>) <i>code</i>: 32667)</li> <li>4616. Noome Barnet (<i>ip</i>) <i>code</i>: 32677)</li> <li>4617. Mk. MRS. BRUCE BEVESX (<i>ip</i>) <i>code</i>: 70607)</li> <li>4618. Michael Molder (<i>ip</i>) <i>code</i>: 32671)</li> <li>4618. Michael Molder (<i>ip</i>) <i>code</i>: 32671)</li> <li>4619. Marketa Anderson (<i>ip</i>) <i>code</i>: 32670)</li> <li>4621. Nora Folk (<i>ip</i>) <i>code</i>: 32720)</li> <li>4630. Marketa Anderson (<i>ip</i>) <i>code</i>: 32670)</li> <li>4621. Nora Folk (<i>ip</i>) <i>code</i>: 32720)</li> <li>4633. Natreta Basandelio (<i>ip</i>) <i>code</i>: 32720)</li> <li>4633. Marketa Anderson (<i>ip</i>) <i>code</i>: 32720)</li> <li>4634. Natreta Basandelio (<i>ip</i>) <i>code</i>: 32720)</li> <li>4635. Natreta Basandelio (<i>ip</i>) <i>code</i>: 32720)</li> <li>4637. Marketa Anderson (<i>ip</i>) <i>code</i>: 32720)</li> <li>4638. Kevin Schader (<i>ip</i>) <i>code</i>: 32720)</li> <li>4639. Marketa Anderson (<i>ip</i>) <i>code</i>: 32720)</li> <li>4630. Nath Holmson (<i>ip</i>) <i>code</i>: 32720)</li> <li>4631. Marketa Marketa Anderson (<i>ip</i>) <i>code</i>: 32720)</li> <li>4633. Math Holmson (<i>ip</i>) <i>code</i>: 32720)</li> <li>4634. Kevin Schader (<i>ip</i>) <i>code</i>: 34720)</li> <li>4634. Kevin Schader (<i>ip</i>) <i>code</i>: 34720)</li> <li>4635. Kevin Schader (<i>ip</i>) <i>code</i>: 34720)</li> <li>4637. Marketa Ander (<i>ip</i>) <i>code</i>: 34720)</li> <li>4638. Kevin Schader (<i>ip</i>) <i>code</i>: 34720)</li> <li>4639. Marketa Ander (<i>ip</i>) <i>code</i>: 34720)</li> <li>4631. Naary Robert-Monet (<i>ip</i>) <i>code</i>: 33943)</li> <li>4639. Nathile Pooks (<i>ip</i>) <i>code</i>: 34720)</li> <li>4631. Naary Robert-Monet (<i>ip</i>) <i>code</i>: 39202)</li> <li>4631. Marketa Andera</li></ul>	4609. Nancy Moore (zip code: 53705)	
<ul> <li>4412. Myski Polent (<i>ip</i>) code: 22853)</li> <li>4413. Noel Grygera (<i>ip</i>) code: 23876-8561) Don't talk the talk (<i>if</i> you aren't goma walk the walk.</li> <li>4413. Noel Grower (<i>in</i>) (<i>ip</i>) code: 37185)</li> <li>4415. Noe Barney Campbell Barney-Campbell (<i>ip</i>) code: 96813-1379)</li> <li>4415. Noe Barney Campbell Barney-Campbell (<i>ip</i>) code: 96813-1379)</li> <li>4415. Noe Barney Campbell Barney-Campbell (<i>ip</i>) code: 97061 (<i>ip</i>) code: 97063 (<i>ip</i>) code: 97073 (<i>ip</i>) code: 970</li></ul>	<ul> <li>4612. Muyak Fowel (<i>ip</i>: code: 5265)</li> <li>4613. Nobert A. Mertz (<i>ap</i>: code: 5278-667) Don't talk the talk (<i>f</i> you aren't gonna walk the walk.</li> <li>4614. Noel Grygera (<i>ip</i>: code: 5313)</li> <li>4615. Noene Barney-Campbell Barriey-Campbell (<i>ip</i>: code: 96813-1379)</li> <li>4616. Noene Barney-Campbell Barriey-Campbell (<i>ip</i>: code: 96813-1379)</li> <li>4619. Koele Grygera (<i>ip</i>: code: 5213)</li> <li>4619. Gover Barney-Campbell (<i>ip</i>: code: 5213)</li> <li>4620. Marchet Anderson (<i>ip</i>: code: 5213)</li> <li>4621. Narrayle (<i>ip</i>: code: 5213)</li> <li>4623. horren lassmdrell (<i>ip</i>: code: 6223)</li> <li>4624. Narrayle (<i>ip</i>: code: 5213)</li> <li>4625. Norma Metz (<i>ip</i>: code: 6223)</li> <li>4626. Norma Odel (<i>ip</i>: code: 5223)</li> <li>4627. normayne day (<i>ip</i>: code: 46243)</li> <li>4628. Anarta Code: 1732)</li> <li>4628. Dana Netrik (<i>ip</i>: code: 5223)</li> <li>4627. normayne day (<i>ip</i>: code: 46243)</li> <li>4628. Anarta Code: 46243)</li> <li>4628. Anarta Code: 4628. Norma Odel (<i>ip</i>: code: 5221)</li> <li>4628. Michel Ballom (<i>ip</i>: code: 5221)</li> <li>4628. Michel Ballom (<i>ip</i>: code: 5221)</li> <li>4638. Michel Ballom (<i>ip</i>: code: 5223)</li> <li>4639. Nikki Posska (<i>ip</i>: code: 5323)</li> <li>4639. Nikki Posska (<i>ip</i>: code: 5323)</li> <li>4630. Nikki Posska (<i>ip</i>: code: 5323)</li> <li>4630. Nikki Posska (<i>ip</i>: code: 5323)</li> <li>4631. Anuthon Nattama (<i>ip</i>: code: 5323)</li> <li>4633. Nichel Ballom (<i>ip</i>: code: 5323)</li> <li>4634. Nathen Sattama (<i>ip</i>: code: 5323)</li> <li>4634. Nathen Sattama (<i>ip</i>: code: 5323)</li> <li>4635. Nicki Posska (<i>ip</i>: code: 5323)</li> <li>4634. Nathen Nattama (<i>ip</i>: code: 5323)</li> <li>4634. Nathen Nattama (<i>ip</i>: code: 5323)</li> <li>4635. Nicki Posska (<i>ip</i>: code: 5323)</li> <li>4634. Nathen Nattama (<i>ip</i>: code: 5323)</li> <li>4635. Nathan (<i>ip</i>: code: 5323)</li> <li>4634. Nathan Nattama (<i>ip</i>: code: 5323)</li> <li>4634. Nathan Nattama (<i>ip</i>: code: 5323)</li> <li>4635. Nathan (<i>ip</i>: code: 5323)</li> <li>4635. Nathan (<i>ip</i>: code: 5323)</li> <li>4634. Nattama (<i>ip</i>: code:</li></ul>		
<ul> <li>4614. Noel Grygera (<i>ip</i>, <i>code</i>. 3935)</li> <li>4615. Noenoe Birnwyl-Campbell Birney-Campbell (<i>ip</i>, <i>code</i>. 9613-1379)</li> <li>4617. NA: MIS. RRUCK RVISS (<i>ip</i>, <i>code</i>. 2708)</li> <li>4618. Michael Noider (<i>ip</i>, <i>code</i>. 2708)</li> <li>4620. Mirchet Anderson (<i>ip</i>, <i>code</i>. 2503) 4621. Nore Politic ip <i>code</i>. 2503) 4622. Michael Norden (<i>ip</i>, <i>code</i>. 2512)</li> <li>4623. Norrea Lassandrello (<i>ip</i>, <i>code</i>. 2503) 4621. Nore Politic ip <i>code</i>. 2503) 4625. Norm Knepher (<i>ap</i>, <i>code</i>. 2603) 4627. Approxed (<i>ip</i>, <i>code</i>. 2503) 4623. Norrea Lassandrello (<i>ip</i>, <i>code</i>. 2524)</li> <li>4626. Norma Odvice (<i>ip</i>, <i>code</i>. 2633) 4623. Kichard Tregidgo (<i>ip</i>, <i>code</i>. 2503) 4623. Sustan north (<i>ip</i>, <i>code</i>. 2604)</li> <li>4620. Market Anderson, <i>ip</i>, <i>code</i>. 26132) 4633. Attantiona (<i>ip</i>, <i>code</i>. 2012) 4635. Sustan north (<i>ip</i>, <i>code</i>. 2512)</li> <li>4630. Jana North (<i>ip</i>, <i>code</i>. 2512) 4631. Mtil Dohnos (<i>ip</i>, <i>code</i>. 2013) 4632. Ack Million (<i>ip</i>, <i>code</i>. 2512)</li> <li>4638. Kevin Schader (<i>ip</i>, <i>code</i>. 25303) 4637. Robert Jakubice (<i>ip</i>, <i>code</i>. 6022) 4639. Milchele Ballour (<i>ip</i>, <i>code</i>. 2512) 4639. Milki Poosla (<i>ip</i>, <i>code</i>. 25303) 4637. Nobert Jakubice (<i>ip</i>, <i>code</i>. 6022) 4639. Milchele Ballour (<i>ip</i>, <i>code</i>. 2512) 4643. Milki Poosla (<i>ip</i>, <i>code</i>. 25303) 4617. Politic <i>in</i>, <i>ip</i>, <i>code</i>. 25163) 4651. Nanor Noter (<i>ip</i>, <i>code</i>. 25303) 4621. Nanor Noter (<i>ip</i>, <i>code</i>. 25303) 4621. Noter Noter (<i>ip</i>, <i>code</i>. 2502) 4648. Milki Poosla (<i>ip</i>, <i>code</i>. 2502) 4649. Milki Poosla (<i>ip</i>, <i>code</i>. 2502) 4645. Normal Karling (<i>ip</i>, <i>code</i>. 2502) 4667. Milki Poosla (<i>ip</i>, <i>code</i>. 25163) 4651. Nanor Noter (<i>ip</i>, <i>code</i>. 2502) 4651. Nanor Noter (<i>ip</i>, <i>code</i>. 25163) 4664. Nanor Noter (<i>ip</i>, <i>code</i>. 2502) 4657. Nanor Milki Politica (<i>ip</i>, <i>code</i>. 25163) 4667. Nanor Scinter (<i>ip</i>, <i>code</i>. 25163) 4667. Nanor Scinter (<i>ip</i>, <i>code</i>. 25163) 4652. Nanor Milki Politica (<i>ip</i>, <i>code</i>. 25163) 4653. Nanor Sharer (<i>ip</i>, <i>code</i>. 25163) 4653. Nanor Sharer (<i>ip</i>, <i>code</i>. 25163) 4654. Nanor Scinter (<i>ip</i>, <i>code</i>. 25163) 4652. Nanor Scinter</li></ul>	<ul> <li>4615. Neel Grygera (<i>ip</i>: code: 3813)</li> <li>4616. Neel Banwier (<i>ip</i>: code: 3813)</li> <li>4617. N.R. MRS. BRUC EKVISZ (<i>ip</i>: code: 07097)</li> <li>4617. M.R. MRS. BRUC EKVISZ (<i>ip</i>: code: 07097)</li> <li>4618. Michael Multier (<i>ip</i>: code: 2712)</li> <li>4620. Marchen Adverse (<i>ip</i>: code: 0721)</li> <li>4621. Marchen Michael (<i>ip</i>: code: 0722)</li> <li>4623. Norren Iassandrelle (<i>ip</i>: code: 0622)</li> <li>4624. Norren Iassandrelle (<i>ip</i>: code: 0722)</li> <li>4625. Norran Glassandrelle (<i>ip</i>: code: 0622)</li> <li>4626. Anoran Odel (<i>ip</i>: code: 9223)</li> <li>4627. norranyne day (<i>ip</i>: code: 4623)</li> <li>4628. Norran Odel (<i>ip</i>: code: 9223)</li> <li>4627. norranyne day (<i>ip</i>: code: 4622)</li> <li>4628. Anart Odel (<i>ip</i>: code: 9224)</li> <li>4628. Anart Odel (<i>ip</i>: code: 9224)</li> <li>4629. Disan Sort (<i>ip</i>: code: 9243)</li> <li>4629. Disan Sort (<i>ip</i>: code: 9243)</li> <li>4630. Disan Sort (<i>ip</i>: code: 4623)</li> <li>4631. Matt Ploaks (<i>ip</i>: code: 4623)</li> <li>4633. Math Poaks (<i>ip</i>: code: 4523)</li> <li>4633. Math Poaks (<i>ip</i>: code: 4533)</li> <li>4641. Nancy Roberts Monet' (<i>ip</i>: code: 9263)</li> <li>4642. Nancy Roberts Monet' (<i>ip</i>: code: 2923)</li> <li>4643. Nancy Roberts Monet' (<i>ip</i>: code: 2923)</li> <li>4644. Norra (<i>ip</i>: code: 2033)</li> <li>4644. Norra (<i>ip</i>: code: 2033)</li> <li>4644. Norra (<i>ip</i>: code: 2033)</li> <li>4645. North MAAGE (<i>ip</i>: code: 2033)</li> <li>4644. Nore (<i>ip</i>: code: 2033)</li> <li>4645. North MAAGE (<i>ip</i>: code: 2033)</li> <li>4644. Nore (<i>ip</i>: code: 2033)</li> <li>4645. North (<i>ip</i>: code: 2033)</li> <li>4644. Nore (<i>ip</i>: code: 2033)</li> <li>4645. North (<i>ip</i>: code: 2033)</li> <li>4647. North (<i>ip</i>: code: 2033)</li> <li>4648. North (<i>ip</i>: code: 2033)</li> <li>4647. North (<i>ip</i>: code: 2033)</li> <li>4648. North (<i>ip</i>: code: 2033)</li> <li>4647. North (<i>ip</i>: code: 2033)</li> <li>4647. North (<i>ip</i>: code: 2033)</li> <li>4648. North (<i>ip</i>: code: 2033)</li> <li>4647. North (<i>ip</i>: code: 2033)</li> <li>4648. North (<i>ip</i>: code: 2033)</li> <li>4647. North (<i>ip</i>: code: 2033)<td>4612. Miyuki Poweli (zip code: 92655)</td><td></td></li></ul>	4612. Miyuki Poweli (zip code: 92655)	
<ul> <li>4615. Noel Emissible Cipcode: 381,521</li> <li>4615. Noel Emissible Terry Compbell Barrey-Compbell (<i>ap</i> code: 9883-1379)</li> <li>4617. MR. &amp; MRS. BRUCE REVESZ. (<i>ap</i> code: 07007)</li> <li>4618. Michael Molder (<i>ap</i>) code: 230707) we are sick and tirred of the criminals running our country - this includes YOU</li> <li>4620. Marcta Anderson (<i>ap</i> code: 23071) 4624. Cynthia Sakata (<i>ap</i> code: 3203) 4625. Norm Knepher (<i>ap</i> code: 43512)</li> <li>4623. norrec I lass and relia (<i>ap</i> code: 3203) 4624. Cynthia Sakata (<i>ap</i> code: 3203) 4625. Norm Knepher (<i>ap</i> code: 43617) 4624. Cynthia Sakata (<i>ap</i> code: 3202) 4623. Norm Nepher (<i>ap</i> code: 43617) 4624. Cynthia Sakata (<i>ap</i> code: 32017) 4632. Just MUITIN (<i>bp</i> code: 43617) 4634. Cynthia Sakata (<i>ap</i> code: 32017) 4632. Just MUITIN (<i>bp</i> code: 43617) 4631. Marr Polya (<i>ap</i>) 4630. Michel Ballow (<i>ap</i> code: 43617) 4631. Marr Polya 4631. Michel Ballow (<i>ap</i> code: 32122) 4633. Malk Houshs (<i>ap</i> code: 43629) 4631. Marr Ballow (<i>ap</i> code: 43617) 4640. Nadlne Aydt (<i>ap</i> code: 34637) 4631. Getting the oil in the first place through fracking makes our water and sol unade.</li> <li>4641. Namer Robert: Monel (<i>ap</i> code: 3903) 4114 a bout Polyton anti environmental pipelines.</li> <li>4641. Namer Robert: Monel (<i>ap</i> code: 3003) (Note Marling (<i>ap</i> code: 36047) 4663. mont sobe (<i>ap</i> code: 3708) 4662. Since 48741 4664. mont sobe (<i>ap</i> code: 3708) 4664. Code: 48741 4664. Nature Mark 4664. Nature Mar</li></ul>	<ul> <li>4415. Noel Emöwtler (<i>ip</i> code: 315)</li> <li>4415. Noel Emövet, Canpbell Barey-Campbell (<i>ip</i> code: 96813-1379)</li> <li>4417. MR. &amp; MRS. BRUCE REVESZ. (<i>ip</i> code: 7760)</li> <li>4419. Guy Fawkes (<i>ip</i> code: 2370) we are sick and tred of the criminals running our country - this includes YUU</li> <li>4420. Marketa Anderson (<i>ip</i> code: 43521)</li> <li>4423. norren lassandrelle (<i>ip</i> code: 6321) 4424. (<i>Vart</i>) bit (<i>ip</i> code: 23704) 4425. Norm Knepher (<i>ip</i>) code: 34374</li> <li>4423. norren lassandrelle (<i>ip</i> code: 6321) 4424. (<i>Vart</i>) bit (<i>ip</i> code: 73714) 4425. Norm Knepher (<i>ip</i>) code: 73714</li> <li>4423. Norren lassandrelle (<i>ip</i> code: 53723) 4424. (<i>Vart</i>) bit (<i>ip</i> code: 73714) 4425. Norm Knepher (<i>ip</i>) code: 73716</li> <li>4423. Norren lassandrelle (<i>ip</i> code: 73723) 4424. (<i>Vart</i>) bit (<i>ip</i> code: 73716) 4425. Norm Knepher (<i>ip</i>) code: 73716</li> <li>4423. Andre Y hand, Y hank (<i>ip</i>) code: 73723) 4423. Anary that johnson (<i>ip</i>) code: 73716) 4453. Jank Wilking (<i>ip</i>) code: 73723)</li> <li>4433. Nukit Posabs (<i>ip</i>) code: 74537) 4434. Formatrong William (<i>ip</i>) code: 73716) 4453. Inform Neralkowski (<i>ip</i>) code: 73723</li> <li>4439. Nikit Posabs (<i>ip</i>) code: 74373 4451. Poplenes fail. Cetting the oil in the first place through fracking makes our water and soil usafe.</li> <li>4441. Naury Robert-Monelr (<i>ip</i> code: 39620)</li> <li>4442. notRNA NCRR (<i>ip</i>) code: 20020. And it's about pollution all along the way and the increasing power of Multi-National Corporations. TOP (<i>ip</i>) code: 73724</li> <li>4444. Nucle Savage (<i>ip</i>) code: 73724 (<i>i</i>). Numer and environmental pipelines</li> <li>4444. Nucle Savage (<i>ip</i>) code: 73723 (<i>ib</i>). Numer and environmental pipelines</li> <li>4444. Nucle Savage (<i>ip</i>) code: 73723 (<i>ib</i>). Nucle Karling (<i>ip</i>) code: 53724 (<i>ib</i>). Savage (<i>ip</i>) code: 73704 (<i>ib</i>). Nucle Karling (<i>ip</i>) code: 53704 (<i>ib</i>). Nucle Karling (<i>ip</i>) code: 73704 (<i>ib</i>). Nucle Karl</li></ul>	4613. Robert A. Mertz (zip code: 25276-8561) Don't talk the talk if you aren't gonna walk the walk. 4614. Noel Grygera (zip code: 53406)	
<ul> <li>4017. WR. &amp; MKS. BRUCE REVESZ (pip code: 2700)</li> <li>4018. Michael Molder (gip code: 23700) we are sick and tired of the criminals running our country - this includes YOU</li> <li>4020. Markets Anderson (gip code: 6021) 4621. Nora Polls (gip code: 97206) 4622. Michael Norden (gip code: 43512)</li> <li>4623. norrea lassandrello (gip code: 6023) 4621. Nora Polls (gip code: 7732) 4625. Soorn Knepher (gip code: 1260)</li> <li>4620. Markets Anderson (gip code: 6023) 4624. Kitchard Tregidgo (gip code: 7732) 4625. Soorn Knepher (gip code: 1260)</li> <li>4627. normayne day (gip code: 4823.4) 4628. Richard Tregidgo (gip code: 77812) 4623. Lack Millon (gip code: 8121)</li> <li>4633. Atam Urbanic (gip code: 7124) 4634. Att tylhosin (gip code: 8121) 4633. Fran norskowski (gip code: 3061) 4633. Atam Urbanic (gip code: 1712) 4634. Atriston (gip code: 8121) 4633. Millon (gip code: 3212) 4639. Millor Horoshs (gip code: 5403) 4631. Pipelines fail. Getting the oll in the first place through fracking makes our water and sol unach.</li> <li>4640. Nudime Aprit (gip code: 2002) And (gi sobut pollution all along the way and the increasing power of Muli-National Corporations. STOPI STOPI</li> <li>4643. Num Kan Kange (gip code: 9202) 4645. Nick Marling (gip code: 9262) 4646. naomi sobo (gip code: 92103)</li> <li>4644. Norm Conrad (gip code: 9221) Howevirought gip tak could be askitad thing it is the air we breake and the ware we drink and crop irrigation quality and all this affects our leastita thing. It is the air we breake and the ware we drink and crop irrigation quality and all this affects our elastita thing. It is the air we breake and the ware we drink and crop irrigation quality and all this affects our elastita thing. It is the air we breake and the ware we drink and crop irrigation quality and all this affects our elastita thing. It is the air we breake and the ware we drink and crop irrigation quality and all this affects our elastita thing. It is the air we breake and dive water we drink and crop irrigation qua</li></ul>	<ul> <li>4017. WR. &amp; MES. BRUCE REVESZ (<i>inc code. 37009</i>)</li> <li>4018. Withele Molder (<i>inc code. 23108</i>)</li> <li>4020. Marketa Anderson (<i>inc code. 23108</i>)</li> <li>4020. Marketa Anderson (<i>inc code. 23018</i>)</li> <li>4027. Narreta lassandrello (<i>inc code. 0027</i>) 4624. Cynthia Sakata (<i>inc code. 37024</i>) 4625. Norm Knepher (<i>inc code. 3512</i>)</li> <li>4023. Andreta Anderson (<i>inc code. 3027</i>)</li> <li>4026. Anoma Odell (<i>inc code. 3028</i>)</li> <li>4027. normayne day (<i>inc code. 9028</i>) 4628. Kethard Treigido (<i>inc code. 37024</i>) 4625. Norm Knepher (<i>inc code. 3102</i>)</li> <li>4027. normayne day (<i>inc code. 9028</i>) 4628. Kethard Treigido (<i>inc code. 37024</i>) 4625. Norm Knepher (<i>inc code. 3102</i>)</li> <li>4036. Kevel Schader (<i>inc code. 9459</i>) 4437. Robert Jakubic (<i>inc code. 3708</i>) 704 4635. Kren norvalowski (<i>inc code. 3102</i>)</li> <li>4036. Kevel Schader (<i>inc code. 34937</i>) 4737. Robert Jakubic (<i>inc code. 3708</i>) 4635. Kren norvalowski (<i>inc code. 3103</i>)</li> <li>4036. Kevel Schader (<i>inc code. 3303</i>) 4937. Pholines fail. Getting the all in the first place through fracking makes our water and soil unade.</li> <li>4041. Naney Roberts-Monefr (<i>ing code. 39037</i>)</li> <li>4042. NoRMA NAGER (<i>ing code. 39037</i>)</li> <li>4043. NoRMA NAGER (<i>ing code. 39037</i>)</li> <li>4044. NoRMA NAGER (<i>ing code. 39037</i>)</li> <li>4045. Ken Gale (<i>ing code. 3923</i>)</li> <li>4057. Nicole Savage (<i>ing code. 3923</i>)</li> <li>4058. Here Balandy (<i>ing code. 39237</i>)</li> <li>4059. Here Savage (<i>ing code. 39237</i>)</li> <li>4054. Nicole Savage (<i>ing code. 39237</i>)</li> <li>4054. Nic</li></ul>	4615. Noel Emswiler (zip code: 38135)	
<ul> <li>4011. Michael Molacer (zip code: 2570)</li> <li>4020. Marketa Anderson (zip code: 5570)</li> <li>4021. Nar Polk (zip code: 2570)</li> <li>4023. Marketa Anderson (zip code: 45576)</li> <li>4023. Narketa Anderson (zip code: 45576)</li> <li>4023. Narketa Anderson (zip code: 45576)</li> <li>4023. Narman Gav (zip code: 45576)</li> <li>4024. Narman Gav (zip code: 45576)</li> <li>4025. Narma Gav (zip code: 45576)</li> <li>4027. Narman Gav (zip code: 45576)</li> <li>4028. Richard Tregidgo (zip code: 27272)</li> <li>4028. Richard (zip code: 2727)</li> <li>4030. Narma North (zip code: 35877)</li> <li>4031. Activ Than North (zip code: 35977)</li> <li>4032. Activ Than North (zip code: 35967)</li> <li>4042. NORMA NACER (zip code: 2002)</li> <li>4042. NORMA NACER (zip code: 39507)</li> <li>4043. Amudhan Nattama (zip code: 39507)</li> <li>4043. Amudhan Nattama (zip code: 39507)</li> <li>4044. North Contra (zip code: 3974)</li> <li>4041. Natumal (zip code: 3974)</li> <li>4053. Natumal (zip code: 3974)</li> <li>4054. Natumal (zip code: 3974)</li> <li>4054. Natumal (zip code: 3974)</li> <li>4054. Natumal (zip code: 3974)</li> <li>4055. Nattange (zip code: 3974)</li> <li>4056. Natumal (zip co</li></ul>	<ul> <li>411. Nichael Molder (<i>ip</i>, <i>code</i>, <i>2989</i>)</li> <li>421. Norma Pulk (<i>ip</i>, <i>code</i>, <i>2989</i>)</li> <li>423. Marketa Anderson (<i>ip</i>, <i>code</i>, <i>2989</i>)</li> <li>423. Norreen Lassandrello (<i>ip</i>, <i>code</i>, <i>29828</i>)</li> <li>424. Norna Pulk (<i>ip</i>, <i>code</i>, <i>29828</i>)</li> <li>425. Norma Medy (<i>ip</i>, <i>code</i>, <i>29828</i>)</li> <li>4267. Normayne day (<i>ip</i>, <i>code</i>, <i>29828</i>)</li> <li>4268. Kevin Schader (<i>ip</i>, <i>code</i>, <i>29828</i>)</li> <li>4268. Kevin Schader (<i>ip</i>, <i>code</i>, <i>29828</i>)</li> <li>4268. Kevin Schader (<i>ip</i>, <i>code</i>, <i>29439</i>)</li> <li>4268. Kevin Schader (<i>ip</i>, <i>code</i>, <i>20439</i>)</li> <li>4268. Kevin Schader (<i>ip</i>, <i>code</i>, <i>20431</i>)</li> <li>4269. Kevin Schader (<i>ip</i>, <i>code</i>, <i>20431</i>)</li> <li>4269. Kevin Schader (<i>ip</i>, <i>code</i>, <i>20431</i>)</li> <li>4269. Kevin Schader (<i>ip</i>, <i>code</i>, <i>20431</i>)</li> <li>4260. Kevin Schader (<i>ip</i>, <i>code</i>, <i>20431</i>)</li> <li>4261. Kevin Schader (<i>ip</i>, <i>code</i>, <i>2024</i>)</li> <li>427. Normer (<i>inc</i>, <i>code</i>, <i>2022</i>)</li> <li>428. Kevin Schader (<i>ip</i>, <i>code</i>, <i>2023</i>)</li> <li>4454. Norma (<i>ip</i>, <i>code</i>, <i>2024</i>)</li> <li>429. Numban Natamai (<i>ip</i>, <i>code</i>, <i>60021</i>). Nomer anti environmental pipelines</li> <li>4464. Norm Corra (<i>ip</i>, <i>code</i>, <i>2024</i>)</li> <li>4453. Numdhan Natamai (<i>ip</i>, <i>code</i>, <i>60021</i>). Nomer anti environmental pipelines</li> <li>4454. Norm Corra (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4453. Numdhan Natamai (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4454. Norm Corra (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4454. Norm Corra (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4453. Numban Natamai (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4454. Norm Corra (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4454. Norm Corra (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4454. Norm Corra (<i>ip</i>, <i>code</i>, <i>2042</i>)</li> <li>4454. No</li></ul>	4616. Noenoe Barney-Campbell Barney-Campbell (zip code: 96813-1379) 4617. MR. & MRS. BRICE REVESZ (zin code: 07009)	
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4695. Steven Hoffman (zip code: 21208) 4696. L Osborn (zip code: 97068) STOP HURTING YOUR GRANDCHILDREN AND OURS.	4695. Steven Hoffman (zip code: 21208) 4696. L Osborn (zip code: 97068) STOP HURTING YOUR GRANDCHILDREN AND OURS.	4694. James Baldwin (zip code: 4074)	
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**Companies/Organizations Comments**