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## APPENDIX 1C

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- **1C1 – Non-Landowner, Federal, State and Local Agency Contact List**
- **1C2 – Updated Agency Correspondence**
- **1C3 – NEXUS Public and Agency Participation Plan**
- **1C4 – Ohio Natural Gas Market Study**

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**APPENDIX 1C1**

**Non-Landowner, Federal, State and Local Agency Contact List**

**NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts**

Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>FEDERAL</b>								
<b>FERC</b>	Office of Energy Projects Division of Gas-Environment and Engineering Gas Branch 1	Joanne Wachholder, FERC Project Manager	TBD	Joanne.Wachholder@ferc.gov	FERC Office of Energy Projects Division of Gas- Environment and Engineering Gas Branch 1 888 First Street, NE Washington, D.C. 20426 office 6J-06	12/17/14 introductory meeting		
<b>USACE</b>	Pittsburgh District (Northern Pittsburgh District)	Matt Mason, Regulatory Branch	(412) 395-7129	Matthew.R.Mason@usa ce.army.mil	Pittsburgh District Corps of Engineers William S. Moorhead Federal Building 1000 Liberty Avenue Regulatory Branch, Suite 2200 Pittsburgh, PA 15222	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter from Buffalo District
<b>USACE</b>	Pittsburgh District	Tyler Bintrim	(412) 395-7115	Tyler.j.bintrim@usace.army.mil	Pittsburgh District Corps of Engineers William S. Moorhead Federal Building 1000 Liberty Avenue Regulatory Branch, Suite 2200 Pittsburgh, PA 15222	1/14/15 Introductory meeting		
<b>USACE</b>	Huntington District	Mark Taylor, Chief, Energy Resources	(304) 399-5610	MARK.A.TAYLOR@usace.army.mil	Huntington District Regulatory Division 502 8th Street Huntington, WV 25701	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter from Buffalo District
<b>USACE</b>	Buffalo District	Mark Scalabrino Ohio Regulatory Chief	(716) 879-4327	mark.w.scalabrino@usace.army.mil	Buffalo District Office 1776 Niagara St. Buffalo, NY 14207	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter

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Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
USACE	Buffalo District	Shawn Blohm Regulatory Project Manager	(330) 923- 8214	<a href="mailto:Shawn.U.Blohm@usace.army.mil">Shawn.U.Blohm@usace. army.mil</a>	Buffalo District-Stow Field Office 110 Graham Road Circle Stow, OH 44224	1/14/15 Introductory meeting		
USACE	Detroit District	Stanley F. Cowton, Jr., Regulatory Project Manager	(313) 226- 2219	stanley.f.cowton@usace .army.mil	USACE, Regulatory Office 477 Michigan Avenue, 6th Floor Detroit, Michigan 48226-2550	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter from Buffalo District
USFWS	East Lansing Michigan Field Office	Chris Mensing, Fish and Wildlife Biologist	(517) 351- 8316	chris_mensing@fws.gov	East Lansing Field Office 2651 Coolidge Road East Lansing, MI 48823	10/14/14 via phone	10/14/14 via email	10/14/14 via email
USFWS	East Lansing Michigan Field Office	Burr Fisher, Wildlife Biologist	(517) 351- 8286	Burr_fisher@fws.com	East Lansing Field Office 2651 Coolidge Road East Lansing, MI 48823	09/22/14 via letter	09/22/14 via email	12/3/14 via letter
USFWS	Ohio Field Office	Angela Boyer, Endangered Species Coordinator	(614) 416- 8993 x22	angela_boyer@fws.gov	U.S. Fish and Wildlife Service Ohio Field Office 4625 Morse Rd, Suite 104 Columbus, OH 43230	09/18/14 via letter	09/18/14 via email	10/9/14 via letter
USFWS	Region 3	Jeff Gosse, Regional Energy Coordinator	(612) 713- 5292	<a href="mailto:jeff_gosse@fws.gov">jeff_gosse@fws.gov</a>	U.S. Fish and Wildlife Service, Region 3 5600 American West Blvd. Bloomington, MN	5/22/15 Via phone	5/22/15 Via email	5/22/15 Via email
NPS	Midwest Region	Mark Weekly, Deputy Regional Director	(402) 661- 1526	Mark_Weekley@nps. gov	National Park Service 601 Riverfront Drive Omaha, NE 68102-4226	10/31/14 via letter	10/31/14 via FedEx	

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<b>USEPA</b>	NEPA Implementation Section	Kenneth A. Westlake, Chief	(312) 886-2910	westlake.kenneth@epa.gov	U.S. Environmental Protection Agency, Region 5 77 West Jackson Boulevard Chicago, Illinois 60604-3590	10/31/14 via letter	10/31/14 via FedEx	11/06/14 via phone
<b>NMFS</b>	Office of Protected Resources	Donna Wieting, Director, Office of Protected Resources	(301) 427-8400	NA	National Marine Fisheries Service 1315 East-West Highway Silver Spring, MD 20910	10/31/14	10/31/14 via FedEx	

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<b>STATE – OHIO</b>								
OEPA	Central	Mike Mansour	(614) 644-3694	mike.mansour@epa.ohio.gov	Ohio EPA Central Office	12/09/14 meeting	12/09/14 meeting	
OEPA	Central	Dave Morehart	(614) 644-3601	dave.morehart@epa.ohio.gov	Ohio EPA Central Office	12/09/14 meeting	12/09/14 meeting	
OEPA	Northeast District	Ed Fasko	(330) 963-1161	ed.fasko@epa.ohio.gov	Ohio EPA Northeast District Office	12/10/14 meeting	12/10/14 meeting	
OEPA	Northeast District	Jana Gannon	(330) 963-1261	jana.gannon@epa.ohio.gov	Ohio EPA Northeast District Office	12/10/14 meeting	12/10/14 meeting	
OEPA	Northeast District	Kevin Fortune	(330) 963-1152	kevin.fortune@epa.ohio.gov	Ohio EPA Northeast District Office	12/10/14 meeting	12/10/14 meeting	
OEPA	Akron Regional Air Quality Management District	Sean Vadas	(330) 923-4891	svadas@schd.org	Akron Regional Air Quality Management District	12/10/14 meeting	12/10/14 meeting	
OEPA	Akron Regional Air Quality Management District	Kelly Kanoza	(330) 812-3954	kkanoza@schd.org	Akron Regional Air Quality Management District	12/10/14 meeting	12/10/14 meeting	
OEPA	Akron Regional Air Quality Management District	Duane LaClair	(330) 923-4891	dlaclair@schd.org	Akron Regional Air Quality Management District	12/10/14 meeting	12/10/14 meeting	
OEPA	Toledo Division of Environmental Services	Matt Stanfield	(419) 936-3938	matthew.stanfield@toledo.oh.gov	Toledo Division of Environmental Services	12/17/14 meeting	12/17/14 meeting	
ODNR	Office of Real Estate	John Kessler, P.E. Assistant Chief	(614) 265-6621	john.kessler@dnr.state.oh.us	Ohio Department of Natural Resources, Office of Real Estate 2045 Morse Rd., Columbus, OH 43229-6605	09/18/14 via letter	09/18/14 via email	10/31/14 letter via email

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Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
ODNR	Division of Wildlife	Nathan Reardon, Compliance Coordinator	(614) 265-6741	<a href="mailto:Nathan.reardon@dnr.state.oh.us">Nathan.reardon@dnr.state.oh.us</a>	ODNR - Division of Wildlife 2045 Morse Road, Bldg. G Columbus, OH 43229-6693	10/14/14 Introductory meeting		
ODNR	Ohio Coastal Management Program ODNR Office of Coastal Management	Steve Holland, MPA Federal Consistency Administrator	(419) 609-4104	steven.holland@dnr.state.oh.us	ODNR Office of Coastal Management 105 West Shoreline Drive Sandusky, Ohio 44870	12/02/14 via email and phone	12/02/14 via email	12/02/14 via email and phone
SHPO	Ohio Office of Historic Preservation	Mark Epstein, Department Head, Resource Protection and Review	(614) 298-2000	mepstein@ohiohistory.org	Ohio Historic Preservation Office 800 E. 17th Avenue Columbus, Ohio 43211-2474	11/5/14 via letter	11/5/14 via US mail and email	
<b>STATE - MICHIGAN</b>								
MDNR	Wildlife Division	Lori Sargent	(517) 284-6216	sargentl@michigan.gov	Michigan Department of Natural Resources P.O. Box 30180 Lansing, MI 48909-7680	09/22/14 via letter	09/22/14 via email	09/23/14 via email
MDNR	Wildlife Division	Daniel Kennedy, Endangered Species Coordinator	(517) 284-6194	kennedyd@michigan.gov	Michigan DNR, Wildlife Division P.O. Box 30444 525 W. Allegan Lansing, MI 48909-7944	11/14/14 Via email	11/14/14 Via email	11/14/14 Via email
MDNR	Wildlife Division	Karen Cleveland All-Bird Biologist	(517) 284-6160	clevelandk1@michigan.gov	Michigan DNR, Wildlife Division P.O. Box 30444 525 W. Allegan Lansing, MI 48909-7944	10/23/14 Via phone and email	10/23/14 Via phone and email	10/23/14 Via phone and email

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MDNR	Wildlife Division	Zach Cooley, Wildlife Biologist for Monroe and Wayne Counties	(734) 379-9692	cooleyz@michigan.gov		11/3/14 Introductory meeting		
MDNR	Wildlife Division	Kristen Bissell, Wildlife Biologist for Lenawee and Washentaw Counties	(517) 522-4097	bissellk@michigan.gov		11/3/14 Introductory meeting		
MDNR	Wildlife Division	Sue Tangora, Statewide Invasive Species Coordinator	(517) 284-6223	<a href="mailto:tangoras@michigan.gov">tangoras@michigan.gov</a>		11/14/14 Via email	11/14/14 Via email	
MNFI	Natural Features Inventory	Michael A. Sanders, Rare Species Review Specialist	(517) 284-6200	sander75@msu.edu	Michigan State University Extension 3rd Floor Constitution Hall 525 W. Allegan St. Lansing, MI 48933	09/23/14 via letter	09/23/14 via email	10/09/14 letter via email
MDEQ	Jackson District Office	Ms. Katherine David	(517) 780-7021	DAVIDK@michigan.gov	301 E. Louis Glick Highway Jackson, Michigan 49201	12/18/14 via letter	12/18/14 via FedEx	
SHPO	Michigan Office of Historic Preservation	Brian D. Conway, State Historic Preservation Officer	(517) 373-1630	Conwayb1@michigan.gov	Michigan State Housing Development Authority 702 W. Kalamazoo St. P.O. Box 30740 Lansing, Michigan 48909-8240	12/4/14 via letter	12/4/14 via letter	
<b>TRIBES</b>								



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Tribe	Absentee-Shawnee Tribe of Indians of Oklahoma	Joseph Blanchard, Cultural Preservation Director Tribal Historic Preservation Officer	(405) 275-4030, ext 203	joseph.blanchard@astribe.com	Absentee-Shawnee Tribe of Indians of Oklahoma 2025 S. Gordon Cooper Drive Shawnee, OK 74801	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation	Michael Wiggins, Chairman	(715) 682-7111	hrmanager@badriver-nsn.gov	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation P.O. Box 39 Odanah, WI 54861-0039	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation	Edith Leoso, Tribal Historic Preservation Officer	(715) 682-7111		Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation P.O. Box 39 Odanah, WI 54861-0039	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bay Mills Indian Community	Levi Carrick, Sr., Chairman	(906) 248-3241		Bay Mills Indian Community 12140 W. Lakeshore Drive Brimley, MI 49715	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bay Mills Indian Community	Paula Carrick, Tribal Historic Preservation Officer	(906) 248-8458	paulacarrick@baymills.org	Bay Mills Indian Community 12140 W. Lakeshore Drive Brimley, MI 49715	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe	Kevin Leecy, Chairman	(218) 757-3261	kevin.leecy@boisfortensn.gov	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe P.O. Box 16 Nett Lake, MN 55772	12/11/14 via letter	12/11/14 via USPS certified mail	

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Tribe	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe	Rosemary Berens, Tribal Historic Preservation Officer	(218) 757-3261	rozeberens@yahoo.com	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe P.O. Box 16 Nett Lake, MN 55772	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Chippewa-Cree Indians of the Rocky Boy's Reservation	Bruce Sunchild, Chairman	(406) 395-4282	bsunchild@yahoo.com	Chippewa-Cree Indians of the Rocky Boy's Reservation 31 Agency Square Box Elder, MT 59521	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Chippewa-Cree Indians of the Rocky Boy's Reservation	Alvin Windy Boy, Tribal Historic Preservation Officer	(406) 352-3077	alvin@nei-yahw.com	Chippewa-Cree Indians of the Rocky Boy's Reservation P.O. Box 230 Box Elder, MT 59521	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Citizen Potawatomi Nation	John Barrett, Chairman	(405) 275-3121	rbarrett@potawatomi.org	Citizen Potawatomi Nation 1601 S. Gordon Cooper Drive Shawnee, OK 74801	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Citizen Potawatomi Nation	Kelli Mosteller, Tribal Historic Preservation Officer	(405) 878-5830	kelli.mosteller@potawatomi.org	Citizen Potawatomi Nation 1601 S. Gordon Cooper Drive Shawnee, OK 74801	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Nation	C.J. Watkins, Vice President	(405) 247-2448		Delaware Nation P.O. Box 825 Anadarko, OK 73005	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Nation	Tamara Francis-Fourkiller, Cultural Preservation Director	(405) 247-2448, ext 1180	tfrancis@delawarenation.com	Delaware Nation P.O. Box 825 Anadarko, OK 73005	10/28/14 via letter	10/28/14 via USPS certified mail	

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Tribe	Delaware Tribe of Indians	Paula Pechonick, Chief	(918) 336-5272		Delaware Tribe of Indians 170 N Barbara Ave Bartlesville, OK 74003	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Tribe of Indians	Dr. Brice Obermeyer, Director, Tribal Historic Preservation Office	(620) 341-6699	bobermeyer@delawaret.ribe.org	Delaware Tribe of Indians Roosevelt Hall, Room 212 1200 Commercial Street Emporia, KS 66801	10/28/14 via letter	10/28/14 via USPS certified mail	11/17/14 via letter
Tribe	Eastern Shawnee Tribe of Oklahoma	Glenna J. Wallace, Chief	(918) 666-2435	gjwallace@estoo.net	Eastern Shawnee Tribe of Oklahoma P.O. Box 350 Seneca, MO 64865	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Eastern Shawnee Tribe of Oklahoma	Robin Dushane, Tribal Historic Preservation Officer	(918) 666-2435, ext 247	r.dushane@estoo.net	Eastern Shawnee Tribe of Oklahoma 12705 South 705 Road Wyandotte, OK 74370	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Fond du Lac Band of the Minnesota Chippewa Tribe	Karen Driver, Chairwoman	(218) 878-2612	karendriver@fdlrez.com	Fond du Lac Band of the Minnesota Chippewa Tribe 1720 Big Lake Road Cloquet, MN 55720	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Fond du Lac Band of the Minnesota Chippewa Tribe	LeRoy Defoe, Tribal Historic Preservation Officer	(218) 878-7129	leroydefoe@fdlrez.com	Fond du Lac Band of the Minnesota Chippewa Tribe 1720 Big Lake Road Cloquet, MN 55720	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Forest County Potawatomi	Harold Frank, Chairman	(715) 478-7200		Forest County Potawatomi 5416 Everybody's Rd Crandon, WI 54520	10/28/14 via letter	10/28/14 via USPS certified mail	

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Tribe	Forest County Potawatomi	Melissa Cook, Tribal Historic Preservation Officer	(800) 960-5479, ext 7248	melissa.cook@fcpotawatomi-nsn.gov	Forest County Potawatomi Cultural Center, Library & Museum 8130 Mishkoswen Drive PO Box 340 Crandon, WI 54520	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Grand Portage Band of the Minnesota Chippewa Tribe	Norman Deschampe, Chairman	(218) 475-2277	norman@grandportage.com	Grand Portage Band of the Minnesota Chippewa Tribe P.O. Box 428 Grand Portage, MN 55605	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Grand Portage Band of the Minnesota Chippewa Tribe	Mary Ann Gagnon, Tribal Historic Preservation Officer	(218) 475-0111	maryann@grandportage.com	Grand Portage Band of the Minnesota Chippewa Tribe P.O. Box 428 Grand Portage, MN 55605	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Grand Traverse Band of Ottawa and Chippewa Indians	Derek J. Bailey, Chairperson	231-534-7750	derek.bailey@gtindians.com	Grand Traverse Band of Ottawa and Chippewa Indians 2605 North West Bayshore Drive Suttons Bay, MI 49682	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Hannahville Indian Community	Kenneth Meshigaud, Chairperson	(906) 466-2932		Hannahville Indian Community N14911 Hannahville B1 Rd Wilson, MI 49896	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Keweenaw Bay Indian Community	Donald Shalifoe, Sr. Ogimaa	(906) 353-6623	tcchris@kbic-nsn.gov	Keweenaw Bay Indian Community 16429 Beartown Road Baraga, MI 49908	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Keweenaw Bay Indian Community	Chris Chosa, Tribal Historic Preservation Officer	(906) 353-6272		Keweenaw Bay Indian Community 16429 Beartown Road Baraga, MI 49908	12/11/14 via letter	12/11/14 via USPS certified mail	

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Tribe	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin	Michael Isham, Jr. Chairman	(715) 634-8934	terrikay@cheqnet.net	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin 13394 West Trapania Road, Building No. 1 Hayward, WI 54843	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin	Jerry Smith, Tribal Historic Preservation Officer	(715) 634-8934		Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin 13394 West Trapania Road, Building No. 1 Hayward, WI 54843	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin	Tom Maulson, President	(715) 588-3303		Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin P.O. Box 67 Lac du Flambeau, WI 54538	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin	Melinda Young, Tribal Historic Preservation Officer	(715) 588-2139		Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin P.O. Box 67 Lac du Flambeau, WI 54538	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac Vieux Desert Band of Lake Superior Chippewa Indians	Alan Shively, Chairman	(906) 358-0137	jim.williams@lvdtribal.com	Lac Vieux Desert Band of Lake Superior Chippewa Indians P.O. Box 249 Watersmeet, MI 49969	12/11/14 via letter	12/11/14 via USPS certified mail	

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Tribe	Lac Vieux Desert Band of Lake Superior Chippewa Indians	Giiwegiizhigook way Martin, Tribal Historic Preservation Officer	(906) 358-4577	gmartin@lvdtribal.com	Lac Vieux Desert Band of Lake Superior Chippewa Indians P.O. Box 249 Watersmeet, MI 49969	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Leech Lake Band of the Minnesota Chippewa Tribe	Carrie Jones, Chairwoman	(218) 335-8200		Leech Lake Band of the Minnesota Chippewa Tribe 115 6th Street NW Suite E Cass Lake, MN 56633	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Leech Lake Band of the Minnesota Chippewa Tribe	Gina Lemon, Tribal Historic Preservation Officer			Leech Lake Band of the Minnesota Chippewa Tribe 115 6th Street NW Suite E Cass Lake, MN 56633	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan	David Sprague, Chairman	(616) 681-8830	dsprague@mbpi.org	Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan P.O. Box 218 Dorr, MI 49323	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Miami Tribe of Oklahoma	George Strack, Tribal Historic Preservation Officer	(918) 542-1442	gstrack@miamination.com	Miami Tribe of Oklahoma P.O. Box 1326 Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Mille Lacs Band of the Minnesota Chippewa Tribe	Melanie Benjamin, Chief Executive	(320) 532-4181		Mille Lacs Band of the Minnesota Chippewa Tribe 43408 Oodena Drive Onamia, MN 56359	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Mille Lacs Band of the Minnesota Chippewa Tribe	Natalie Weyaus, Tribal Historic Preservation Officer	(320) 532-7450		Mille Lacs Band of the Minnesota Chippewa Tribe 43408 Oodena Drive Onamia, MN 56359	12/11/14 via letter	12/11/14 via USPS certified mail	

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Tribe	Minnesota Chippewa Tribe	Norman Deschampe, President	(218) 335-8581		Minnesota Chippewa Tribe P.O. Box 217 Cass Lake, MN 56633	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Miami Tribe of Oklahoma	Douglas Lankford, Chief	(918) 542-1445	info@miamination.com	Miami Tribe of Oklahoma P.O. Box 1326 Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Nottawaseppi Huron Band of the Potawatomi	Homer Mandoka, Chairman	(269) 729-5151	hmandoka@nhbpi.com	Nottawaseppi Huron Band of the Potawatomi 2221 1 1/2 Mile Road Fulton, MI 49052	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Nottawaseppi Huron Band of the Potawatomi	Jeff Chivis, Tribal Historic Preservation Officer	(269) 704-8416	jchivis@nhbpi.com	Nottawaseppi Huron Band of the Potawatomi 1485 Mno-Bmadzewen Way Fulton, MI 49052	12/16/14 via letter	12/16/14 via USPS certified mail	12/4/14 via email and letter
Tribe	Ottawa Tribe of Oklahoma	Ethel Cook, Chief	(918) 542-6162	adawetribe@sbcglobal.net	Ottawa Tribe of Oklahoma P.O. Box 110 Miami, OK 74354	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Ottawa Tribe of Oklahoma	Rhonda Dixon, Tribal Historic Preservation Officer	(918) 542-6162	dixon_rhonda@sbcglobal.net	Ottawa Tribe of Oklahoma P.O. Box 110 Miami, OK 74354	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Peoria Tribe of Indians of Oklahoma	John P. Froman, Chief	918-540-4155	jfroman@peoriatribe.com	Peoria Tribe of Indians of Oklahoma P.O. Box 1527 Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	11/7/14 via letter
Tribe	Pokagon Band of Potawatomi Indians	Matthew J. Wesaw, Chairman	(517) 719-5579	matthew.wesaw@pokagonband-nsn.gov	Pokagon Band of Potawatomi Indians P.O. Box 110 Dowagiac, MI	10/28/14 via letter	10/28/14 via USPS certified mail	

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Tribe	Pokagon Band of Potawatomi Indians	Mike Zimmerman, Tribal Historic Preservation Officer	(269) 782-9602	michael.zimmerman@pokagonband-nsn.gov	Pokagon Band of Potawatomi Indians P.O. Box 110 Dowagiac, MI	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Prairie Band of Potawatomi Nation	Steve Ortiz, Chairman	(785) 966-4000		Prairie Band of Potawatomi Nation 16277 Q Road Mayetta, KS 66509	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Quechan Tribe of the Fort Yuma Indian Reservation	Mike Jackson, President	(760) 572-0213		Quechan Tribe of the Fort Yuma Indian Reservation P.O. Box 1899 Yuma, AZ 85366	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin	Rose Gurnoe-Soulier, Chairperson	(715) 779-3700	webmaster@redcliff-nsn.gov	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin 88385 Pike Road, Hwy 13 Bayfield, WI 54814	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin	Larry Balber, Tribal Historic Preservation Officer	(715) 779-3650		Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin 88385 Pike Road, Hwy 13 Bayfield, WI 54814	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Red Lake Band of Chippewa Indians	Floyd Jourdain, Chairperson	(218) 679-3341		Red Lake Band of Chippewa Indians P.O. Box 550 Redlake, MN 56671	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Saginaw Chippewa Indian Tribe of Michigan	Dennis V. Kequom, Chief	(989) 775-4000	dkequom@sagchip.org	Saginaw Chippewa Indian Tribe of Michigan 7070 East Broadway Road Mt. Pleasant, MI 48858	10/28/14 via letter	10/28/14 via USPS certified mail	



**NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts**

Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Saginaw Chippewa Indian Tribe of Michigan	William Johnson, Curator	(989) 775-4730	wjohnson@sagchip.org	Ziibwing Center of Anishinabe Culture and Lifeways 6650 East Broadway Road Mt. Pleasant, MI 48858	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Sault Ste. Marie Tribe of Chippewa Indians of Michigan	Aaron Payment, Chairperson	(906) 635-6050	aaronpayment@saulttribe.net	Sault Ste. Marie Tribe of Chippewa Indians of Michigan 523 Ashmun Street Sault Ste. Marie, MI 49783	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Seneca-Cayuga Tribe of Oklahoma	LeRoy Howard, Chief	(918) 542-6609, ext 19		Seneca-Cayuga Tribe of Oklahoma 23701 South 655 Road Grove, OK 74344	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Seneca-Cayuga Tribe of Oklahoma	Paul Barton, Tribal Historic Preservation Officer	(918) 787-7979	pbarton@sctribe.com	Seneca-Cayuga Tribe of Oklahoma 23701 South 655 Road Grove, OK 74344	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Seneca Nation of Indians	Beverly Cook, President			Seneca Nation of Indians 90 O:hi'yoh Way Salamanca, NY 14779	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Seneca Nation of Indians	Melissa Bach, Tribal Historic Preservation Officer	(716) 945-1790, ext 3580	melissa.bach@sni.org	Seneca Nation of Indians 90 O:hi'yoh Way Salamanca, NY 14779	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Shawnee Tribe	Ron Sparkman, Chairperson	(918) 542-2441	ronded@gmail.com	Shawnee Tribe P.O. Box 189 South Highway 69A, Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Shawnee Tribe	Kim Jumpers, Tribal Historic Preservation Officer	(918) 542-2441	kim.jumper@shawnee-tribe.com	Shawnee Tribe P.O. Box 189 South Highway 69A, Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	

**NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts**

Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Sokaogon Chippewa Community	Garland McGeshick, Chairman	(715) 478-7504	gaye.graham@scc-nsn.gov	Sokaogon Chippewa Community 3051 Sand Lake Road Crandon, WI 54520	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	St. Croix Chippewa Indians of Wisconsin	Stuart Bearheart, Chairman	(715) 349-2195	annb@stcroixtribalcenter.com	St. Croix Chippewa Indians of Wisconsin 24663 Angeline Avenue Webster, WI 54893	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Tonawanda Band of Seneca Indians of New York	Darwin Hill, Chief	(716) 542-4244	toseneca@aol.com	Tonawanda Band of Seneca Indians of New York P.O. Box 795 7027 Meadville Road Basom, NY 14013	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Turtle Mountain Band of Chippewa Indians of North Dakota	Richard McCloud, Chairman	(701) 477-2600		Turtle Mountain Band of Chippewa Indians of North Dakota P.O. Box 900 Belcourt, ND 58316	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	White Earth Band of Minnesota Chippewa Tribe	Erma Vizenor, Chairman	(218) 983-3285	desiraes@whiteearth.com	White Earth Band of Minnesota Chippewa Tribe P.O. Box 418 White Earth, MN 56591	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	White Earth Band of Minnesota Chippewa Tribe	Renee Lampi, Tribal Historic Preservation Officer	(218) 983-3263		White Earth Band of Minnesota Chippewa Tribe P.O. Box 418 White Earth, MN 56591	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Wyandotte Nation	Billy Friend, Chief	(918) 678-2297		Wyandotte Nation 64700 E. Highway 60 Wyandotte, OK 74370	10/28/14 via letter	10/28/14 via USPS certified mail	

**NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts**

Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>Tribe</b>	Wyandotte Nation	Sherri Clemons, Tribal Historic Preservation Officer	(918) 678- 2297, ext 244	sclemons@wyandotte.org	Wyandotte Nation 64700 E. Highway 60 Wyandotte, OK 74370	10/28/14 via letter	10/28/14 via USPS certified mail	
<b>LOCAL</b>								
<b>CLG</b>	Washtenaw County Historic Preservation	Melissa Milton- Pung, Historic Preservation Planner	(734) 222- 6878	miltonpungm@ewashtenaw.org	Washtenaw County Office of Community & Economic Development 110 N. Fourth Ave. Ann Arbor, MI 48107	10/27/14 via letter	10/27/14 via USPS certified mail	
<b>MWCD</b>	Muskingum Watershed Conservancy District	Boris E. Slogar, P.E., M.P.M. Chief Engineer	(330) 556- 4816 (866) 363- 8500	TBD	Muskingum Watershed Conservancy District 1319 Third St. NW PO Box 349 New Philadelphia, OH 44663- 0349			

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**APPENDIX 1C2**

**Agency Correspondence**

**[PUBLIC]**

## **1C2 –Agency Correspondence**

**FEDERAL**

**Agency Correspondence**

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6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

October 30, 2014

Ms. Donna Wieting  
Director, Office of Protected Resources  
National Marine Fisheries Service  
1315 East-West Highway  
Silver Spring, MD 20910

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
NMFS, Office of Protected Resources**

Dear Ms. Wieting,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1.

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October of 2014 and has scheduled meetings in Michigan for early November.

As depicted on Figure 1, the current pipeline route is proposed in the vicinity of Lake Erie and Lake Saint Clair. We are interested in obtaining from the National Marine Fisheries Service any comments or concerns you may have on the proposed Project during this early stage of development so that we can take them into consideration as we proceed with the regulatory permitting process.

NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify,

evaluate and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings and documented continuing efforts to identify and address concerns under the direction of the FERC. The public will also have the opportunity to comment on the NEXUS draft environmental resource reports prior to filing the formal FERC application.

By initiating this early agency consultation and involvement, NEXUS intends to assist those agencies that have coordination obligations with the FERC described in its recent order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application for NEXUS is currently planned to be filed in the last quarter of 2015. All other agency applications will be filed in a similar time frame. NEXUS currently plans that the proposed Project facilities will be fully operational by November 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can be provided upon your request.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



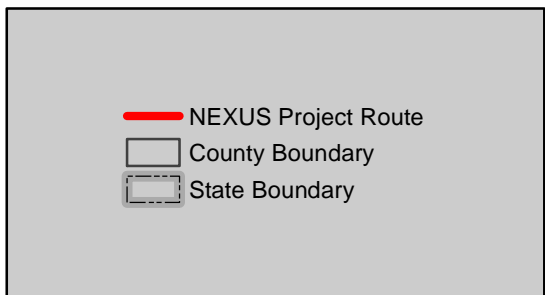


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

October 30, 2014

Mr. Mark Weekly  
Deputy Regional Director, Midwest Region  
National Park Service  
601 Riverfront Drive  
Omaha, NE 68102-4226

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
NPS, Midwest Region**

Mr. Weekly,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1.

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October of 2014 and has scheduled meetings in Michigan for early November.

As depicted on Figure 1, the current pipeline route is proposed approximate 12.75 miles south of the Cuyahoga National Park in Summit County, Ohio. We are interested in obtaining from the National Park Service any comments or concerns you may have on the proposed Project during this early stage of development so that we can take them into consideration as we proceed with the regulatory permitting process.

NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify,

evaluate and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings and documented continuing efforts to identify and address concerns under the direction of the FERC. The public will also have the opportunity to comment on the NEXUS draft environmental resource reports prior to filing the formal FERC application.

By initiating this early agency consultation and involvement, NEXUS intends to assist those agencies that have coordination obligations with the FERC described in its recent order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application for NEXUS is currently planned to be filed in the last quarter of 2015. All other agency applications will be filed in a similar time frame. NEXUS currently plans that the proposed Project facilities will be fully operational by November 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can be provided upon your request.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



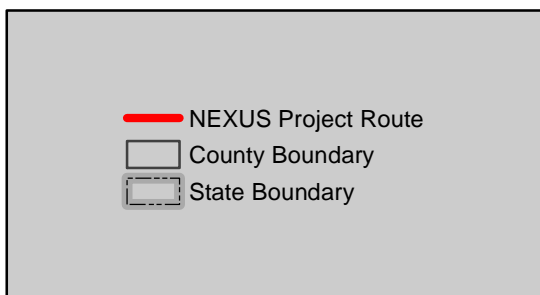


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074  
207.879.1930 PHONE  
207.879.9293 FAX  
www.trcsolutions.com

October 30, 2014

Mr. Mark Scalabrino  
Ohio Regulatory Chief  
U.S. Army Corps of Engineers  
Buffalo District Office  
1776 Niagara Street  
Buffalo, New York 14207

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
USACE Buffalo District**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1. The following table summarizes the counties crossed in each U.S. Army Corps of Engineers (USACE) District along with estimated crossing distances.

NEXUS USACE Districts Crossed			
USACE District	State	Miles	Counties
Huntington	OH	59	Columbiana, Medina, Stark, Summit, Wayne, OH
Pittsburgh	OH	9	Columbiana, Stark, OH
Buffalo	OH	131	Erie, Fulton, Lorain, Lucas, Medina, Sandusky, Wood, OH
Detroit	MI	46	Lenawee, Monroe, Washtenaw, MI
NEXUS total miles		245	

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October of 2014 and has scheduled meetings in Michigan for early November. NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the

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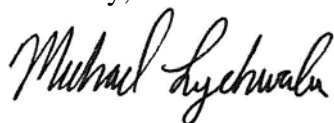
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To help facilitate the consultation process, TRC will be requesting a meeting to discuss the general scope of the proposed Project and the consultation process with the USACE moving forward. This meeting will be the first of many opportunities to participate in the development and review of the Project. We will be contacting you soon and hope to schedule a meeting at your earliest convenience. Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can also be provided at that time. Because the Project also traverses jurisdictional boundaries of the Detroit, Huntington, and Pittsburg USACE Districts, TRC will be contacting those Districts to initiate communications.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



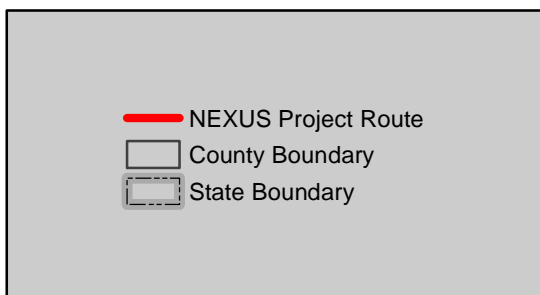


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074  
207.879.1930 PHONE  
207.879.9293 FAX  
www.trcsolutions.com

October 30, 2014

Mr. Stanley F. Cowton, Jr.  
Regulatory Project Manager  
U.S. Army Corps of Engineers, Regulatory Office  
477 Michigan Avenue, 6th Floor  
Detroit, Michigan 48226-2550

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
USACE Detroit District**

Dear Mr. Cowton,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1. The following table summarizes the counties crossed in each U.S. Army Corps of Engineers (USACE) District along with estimated crossing distances.

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NEXUS total miles		245	

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October of 2014 and has scheduled meetings in Michigan for early November. NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early



cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify, evaluate and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings and documented continuing efforts to identify and address concerns under the direction of the FERC. The public will also have the opportunity to comment on the NEXUS draft environmental resource reports prior to filing the formal FERC application.

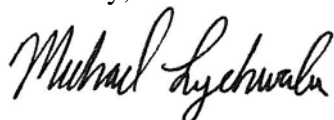
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To help facilitate the consultation process, TRC will be requesting a meeting to discuss the general scope of the proposed Project and the consultation process with the USACE moving forward. This meeting will be the first of many opportunities to participate in the development and review of the Project. We will be contacting you soon and hope to schedule a meeting at your earliest convenience. Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can also be provided at that time. Because the Project also traverses jurisdictional boundaries of the Buffalo, Huntington, and Pittsburg USACE Districts, TRC will be contacting those Districts to initiate communications.

Please feel free to contact me if you have any questions, or if you require additional information, by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



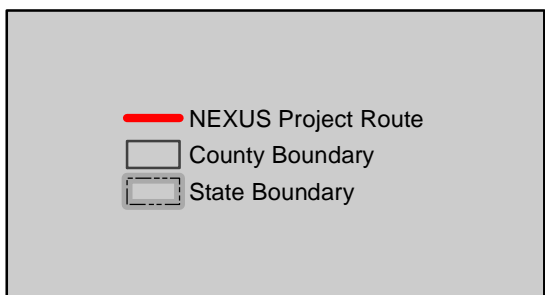


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

www.trcsolutions.com

October 30, 2014

Mr. Mark Taylor  
Chief, Energy Resources Huntington District  
U.S. Army Corps of Engineers  
Regulatory Division  
502 8th Street  
Huntington, West Virginia 25701

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
USACE, Huntington District**

Dear Mr. Taylor,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1. The following table summarizes the counties crossed in each U.S. Army Corps of Engineers (USACE) District along with estimated crossing distances.

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If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



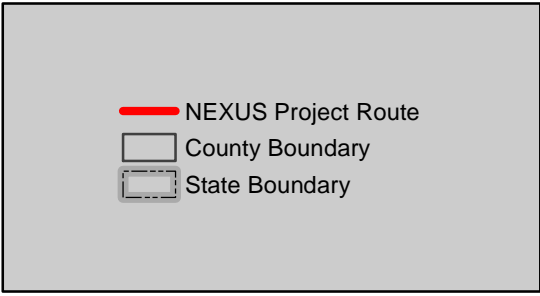


Figure 1 - Project Overview Map  
 NEXUS Pipeline Project

**NEXUS**  
 GAS TRANSMISSION

9/11/2014



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074  
207.879.1930 PHONE  
207.879.9293 FAX  
www.trcsolutions.com

October 30, 2014

Mr. Matt Mason  
U.S. Army Corps of Engineers, Pittsburgh District  
William S. Moorhead Federal Building  
1000 Liberty Avenue  
Regulatory Branch, Suite 2200  
Pittsburgh, Pennsylvania 15222

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
USACE Pittsburgh District**

Dear Mr. Mason,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1. The following table summarizes the counties crossed in each U.S. Army Corps of Engineers (USACE) District along with estimated crossing distances.

NEXUS USACE Districts Crossed			
USACE District	State	Miles	Counties
Huntington	OH	59	Columbiana, Medina, Stark, Summit, Wayne, OH
Pittsburgh	OH	9	Columbiana, Stark, OH
Buffalo	OH	131	Erie, Fulton, Lorain, Lucas, Medina, Sandusky, Wood, OH
Detroit	MI	46	Lenawee, Monroe, Washtenaw, MI
NEXUS total miles		245	

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October of 2014 and has scheduled meetings in Michigan for early November. NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including

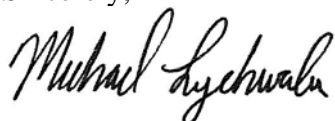
federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify, evaluate and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings and documented continuing efforts to identify and address concerns under the direction of the FERC. The public will also have the opportunity to comment on the NEXUS draft environmental resource reports prior to filing the formal FERC application.

By initiating this early agency consultation and involvement, NEXUS intends to assist those agencies that have coordination obligations with the FERC described in its recent order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application is currently planned to be filed in the last quarter of 2015. All other agency applications will be filed in a similar time frame. NEXUS currently plans that the proposed Project facilities will be fully operational by November 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

To help facilitate the consultation process, TRC will be requesting a meeting to discuss the general scope of the proposed Project and the consultation process with the USACE moving forward. This meeting will be the first of many opportunities to participate in the development and review of the Project. We will be contacting you soon and hope to schedule a meeting at your earliest convenience. Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can also be provided at that time. Because the Project also traverses jurisdictional boundaries of the Detroit, Huntington, and Buffalo USACE Districts, TRC will be contacting those Districts to initiate communications.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)  
Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project





**DEPARTMENT OF THE ARMY**  
BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO

December 30, 2014

Regulatory Branch

SUBJECT: Nexus Gas Transmission, LRB-2014-1329

Mr. Michael Lychwala  
TRC  
6 Ashley Drive  
1<sup>st</sup> Floor  
Scarborough, ME 04074

Dear Mr. Lychwala:

This is in reference to your October 30, 2014 letter to the United States (U.S.) Army Corps of Engineers (Corps) concerning NEXUS Gas Transmission, LLC's joint venture with Spectra Energy and DTE Energy Co. to construct a 245 mile 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. Your proposed project will be located within multiple Corps districts with regulatory responsibilities in Ohio and Michigan. We understand that you have contacted those districts.

Section 404 of the Clean Water Act (CWA) requires that a Department of the Army permit be obtained prior to the discharge of dredged and/or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act (RHA) of 1899 requires that a Department of the Army permit be obtained for any work in, on, over or under a navigable water.

Based on the project description, the Corps anticipates the proposed project will require authorization under Section 404 of the CWA and/or Section 10 of the RHA. Given that we will likely have regulatory authority over a portion of the proposed work, the Corps welcomes your request for a pre-application meeting.

As stated, the proposed project will cross within multiple Corps districts that are located within the Great Lakes and Ohio River Division and include the Corps Buffalo, Detroit, Huntington and Pittsburgh Districts. In the State of Michigan, the Michigan Department of Environmental Quality (MDEQ) will be the responsible permitting agency having assumed the Section 404 Clean Water Act program from the Corps. Since it appears that the majority of the proposed project is located within the Buffalo District, I have designated Mr. Shawn Blohm as the Corps' point-of-contact for this project. Mr. Blohm can be reached by phone at (330)-923-8214, or at the following email address, [shawn.u.blohm@usace.army.mil](mailto:shawn.u.blohm@usace.army.mil).

The Buffalo District will facilitate the coordination with other Corps districts to ensure


consistency, where possible, on permit requirements, the permit process, and permit decision timeframes. However, each Corp District will retain the responsibility for permitting, compliance and enforcement within their district regulatory boundary.

Additional members of the Corps review team will be:

Ms. Gina Nathan, Detroit District, (313) 226-5383, Processing No. LRE-2014-00895  
Ms. Audrey Richter, Huntington District, (304) 399-5257, Processing No. LRH-2014-1098  
Mr. Tyler Bintrim, Pittsburgh District, (412) 395-7115, Processing No. LRP-2014-1134

We look forward to meeting with TRC to further discuss this proposed project. If you have any questions, please contact Mr. Blohm at (330) 923-8214.

Sincerely,

  
for Diane C. Kozlowski  
Chief, Regulatory Branch

CF:  
Ms. Suzanne Chubb, CELRD  
Mr. John Konik, CELRE  
Ms. Ginger Mullins, CELRH  
Mr. Scott Hans, CELRP



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

October 30, 2014

Mr. Kenneth A. Westlake, Chief  
NEPA Implementation Section  
U.S. Environmental Protection Agency  
Region 5  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
EPA, Region 5**

Dear Mr. Weekly,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1.

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October of 2014 and has scheduled meetings in Michigan for early November.

We are interested in obtaining from the Environmental Protection Agency any comments or concerns you may have on the proposed Project during this early stage of development so that we can take them into consideration as we proceed with development of the Project.

NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify, evaluate and attempt to resolve issues and concerns prior to the filing of formal project

applications. This process will require multiple agency meetings, public meetings and documented continuing efforts to identify and address concerns under the direction of the FERC. The public will also have the opportunity to comment on the NEXUS draft environmental resource reports prior to filing the formal FERC application.

By initiating this early agency consultation and involvement, NEXUS intends to assist those agencies that have coordination obligations with the FERC described in its recent order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application for NEXUS is currently planned to be filed in the last quarter of 2015. All other agency applications will be filed in a similar time frame. NEXUS currently plans that the proposed Project facilities will be fully operational by November 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can be provided upon your request.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Kathleen Miller, TRC



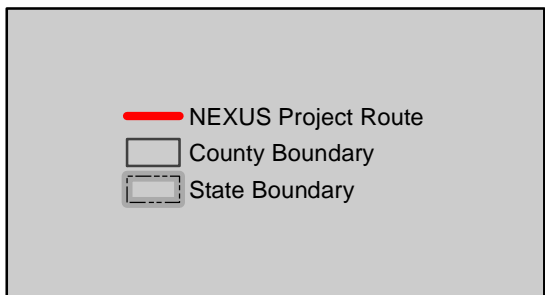


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



## Telephone Contact Log

NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project

DATE: November 6, 2014

THIS CONVERSATION TOOK PLACE BETWEEN: TRC and Virginia Laszewski, USEPA NEPA Coordinator			
Agency/Organization/Individual Contacted		TRC Representative	
Name / Title:	Virginia Laszewski	Name / Title:	Mike Lychwala, NEXUS Project Manager
Agency/Organization:	USEPA NEPA Coordinator	Office Location:	TRC Scarborough Maine Office
Address:	laszewski.virginia@epa.gov	Subject of Call:	NEXUS Gas Transmission Receipt of Initial Introduction Letter
Phone:	312-886-7501	CC:	Kathleen Redmond-Miller, TRC Matt Barczyk, Spectra

### THE FOLLOWING WAS DISCUSSED:

Ms. Laszewski called to confirm receipt of the NEXUS project introductory letter sent on October 31, 2014 and had some general questions about the project and its planned regulatory compliance schedule.

Mr. Lychwala explained the project would be Federal Energy Regulatory Commission (FERC) jurisdictional and that NEXUS intends to participate in FERC's pre-filing process that will be initiated in December 2014 through the filing of a "pre-filing" request. He also explained the anticipated filing schedule for NEXUS' 7 c Application to FERC would be in November of 2015. Ms. Laszewski had some general questions about the project and the schedule and thanked TRC for the early contact.



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

September 22, 2014

Burr Fisher  
U.S. Fish and Wildlife Service  
East Lansing Field Office  
2651 Coolidge Road  
East Lansing, MI 48823

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses approximately 46-miles through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. NEXUS is investigating a study corridor as generally depicted on attached Figure 1.

Initial review of the potential pipeline corridor indicated that rare, threatened and/or endangered species may be present based on published county lists. Table 1 is attached and lists the rare, threatened and endangered species that have been previously identified in the counties traversed by the pipeline corridor. On behalf of NEXUS, TRC is requesting the assistance of the U.S. Fish and Wildlife Service (“USFWS”) to determine if any of these species are known to occur within the one-mile wide area under investigation. This information will assist us in determining a route to potentially avoid and minimize disruption to sensitive habitat and determine potential seasonal or species specific surveys that maybe required during permitting of the Project. Any further comments or survey guidance regarding rare, threatened, endangered or other important species is also welcomed.

To help facilitate the consultation process, TRC requests a meeting to discuss the general scope of the proposed Project and the consultation process with the USFWS moving forward. This meeting will be the first of many opportunities to participate in the development and review of these projects. We will be contacting you soon and hope to schedule a meeting within the next month. Additional information such as a GIS SHP files of the Project study corridor to aid in the review of the Project can also be provided at that time.

U.S. Fish and Wildlife Service  
September 22, 2014  
Page 2 of 3

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,

A handwritten signature in black ink that reads "Michael Lychwala". The signature is written in a cursive, flowing style.

Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Angela Gardner, TRC





Federally Listed Species Potentially Occurring Within/Near Nexus Project in Michigan			
Common Name	Scientific Name	Status	County Traversed By Project With Species Occurrence
Indiana bat	<i>Myotis sodalis</i>	Endangered	All Counties
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	Proposed Endangered	All Counties
Eastern massasauga	<i>Sistrurus catenatus</i>	Candidate	Lenawee, Washtenaw, Wayne
Poweshiek skipperling	<i>Oarisma powershiek</i>	Proposed Endangered	Lenawee, Washtenaw
Rayed bean	<i>Villosa fabalis</i>	Endangered	Lenawee, Monroe, Wayne
Red Knot	<i>Calidris canutus rufa</i>	Proposed Threatened	Monroe, Wayne
Karner blue butterfly	<i>Lycæides melissa samuelis</i>	Endangered	Monroe
Northern riffleshell	<i>Epioblasma torulosa rangiana</i>	Endangered	Monroe, Wayne
Snuffbox	<i>Epioblasma triquetra</i>	Endangered	Monroe, Washtenaw
Eastern prairie fringe orchid	<i>Platanthera leucophaea</i>	Threatened	Monroe, Washtenaw, Wayne
Mitchell's satyr butterfly	<i>Neonympha mitchellii mitchellii</i>	Endangered	Washtenaw

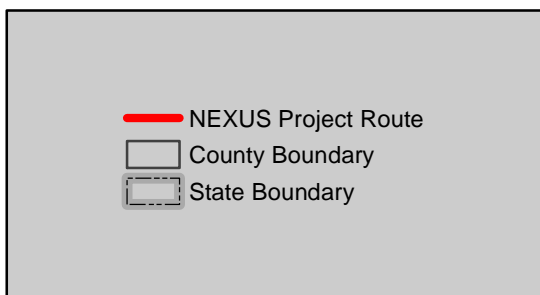


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**Gardner, Angela**

---

**From:** Mensing, Chris <chris\_mensing@fws.gov>  
**Sent:** Tuesday, October 14, 2014 3:52 PM  
**To:** Gardner, Angela  
**Subject:** Schedule meeting with USFWS - East Lansing Field Office, MI

Angela,

Thanks for talking with me this afternoon. As we discussed on the phone, we would gladly meet with you and other people involved with the NEXUS pipeline. Could you please send me some dates that would be most convenient for you? I'll forward it on to the appropriate people here to gauge their availability. In the meantime, we will provide a course review of the proposed route and let you know if any areas would require extra attention or additional surveys.

In the meantime, please feel free to contact me if you have any questions.

Sincerely,

Chris

\*\*\*\*\*

Chris Mensing, Fish and Wildlife Biologist  
U.S. Fish and Wildlife Service  
East Lansing Field Office  
2651 Coolidge Road, Suite 101  
East Lansing, MI 48823  
517-351-8316 (office)  
517-351-1443 (fax)  
[chris\\_mensing@fws.gov](mailto:chris_mensing@fws.gov)



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

September 18, 2014

Angela Boyer  
U.S. Fish and Wildlife Service  
Ohio Ecological Services Field Office  
4625 Morse Rd, Suite 104  
Columbus, OH 43230

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses approximately 199-miles through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton. NEXUS is investigating a study corridor as generally depicted on attached Figure 1.

Initial review of the potential pipeline corridor indicated that rare, threatened and/or endangered species may be present based on published county lists. Table 1 is attached and lists the rare, threatened and endangered species that have been previously identified in the counties traversed by the pipeline corridor. On behalf of NEXUS, TRC is requesting the assistance of the U.S. Fish and Wildlife Service (“USFWS”) to determine if any of these species are known to occur within the one-mile wide area under investigation. This information will assist us in determining a route to potentially avoid and minimize disruption to sensitive habitat and determine potential seasonal or species specific surveys that maybe required during permitting of the Project. Any further comments or survey guidance regarding rare, threatened, endangered or other important species is also welcomed.

To help facilitate the consultation process, TRC requests a meeting to discuss the general scope of the proposed Project and the consultation process with the USFWS moving forward. This meeting will be the first of many opportunities to participate in the development and review of these projects. We will be contacting you soon and hope to schedule this meeting within the next month. Additional information such as a GIS SHP files of the Project study corridor to aid in the review of the Project can also be provided at that time.

U.S. Fish and Wildlife Service  
September 18, 2014  
Page 2 of 3

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,

A handwritten signature in black ink that reads "Michael Lychwala". The signature is written in a cursive, flowing style.

Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Angela Gardner, TRC



**Table 1- Federally Listed Species Potentially Occurring Within/Near Nexus Project in Ohio**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Status</b>	<b>County Traversed By Project With Species Occurrence</b>
Indiana bat	<i>Myotis sodalis</i>	Endangered	All Counties
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	Proposed Endangered	All Counties
Kirtland's warbler	<i>Dendroica kirtlandii</i>	Endangered	Erie, Lake, Lorain, Lucas, Sandusky
Piping Plover	<i>Charadrius melodus</i>	Endangered	Erie, Lake
Red Knot	<i>Calidris canutus rufa</i>	Proposed Threatened	Erie, Lake, Lorain, Lucas, Sandusky
Eastern massasauga	<i>Sistrurus catenatus</i>	Candidate	Columbiana, Erie, Lucas, Sandusky, Wayne
Rayed bean	<i>Villosa fabalis</i>	Endangered	Lucas
Karner blue butterfly	<i>Lycaeides melissa samuelis</i>	Endangered	Lucas
Eastern prairie fringe orchid	<i>Platanthera leucophaea</i>	Threatened	Lucas, Sandusky, Wayne
Lakeside daisy	<i>Hymenoxys herbacea</i>	Threatened	Erie



Figure 1 - Project Overview Map  
NEXUS Pipeline Project



UNITED STATES DEPARTMENT OF THE INTERIOR  
U.S. Fish and Wildlife Service  
Ecological Services Office  
4625 Morse Road, Suite 104  
Columbus, Ohio 43230  
(614) 416-8993 / Fax (614) 416-8994



March 3, 2015

Angela Gardner  
TRC Solutions  
2801 Wehrle Drive, Suite 8  
Williamsville, NY 14221

Re: NEXUS Gas Transmissions, LLC, NEXUS Gas Transmission Project Survey Proposals

Dear Ms. Gardner,

TAILS#: 03E15000-2015-TA-0009

We have received your recent correspondence requesting our concurrence with your survey proposals for the eastern prairie fringed orchid (*Platanthera leucophaea*), Karner blue butterfly (*Lycaeides melissa samuelis*), and Mitchell's satyr (*Neonympha m. mitchellii*) for the subject project. NEXUS Gas Transmission, LLC is proposing to construct approximately 245 miles of 42 inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS project traverses approximately 199 miles through 11 counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton. We are providing comments for only the portion of the project that occurs in Ohio.

Your survey proposals are in response to our October 9, 2014 technical assistance letter. In our letter, we recommended that the portions of the project located in Wayne and Sandusky counties in Ohio be examined to determine if suitable habitat for the **eastern prairie fringed orchid** is present. This tall, showy orchid is found in wet prairies, sedge meadows, and moist road-side ditches. We understand that approximately 74% of the project area in Sandusky County and 32% of the project area in Wayne County have been surveyed for suitable habitat for this species and that the remainder of the project area in these counties will be surveyed for habitat in 2015. To date, no suitable habitat has been identified within the project area. If the remaining habitat evaluation finds that suitable habitat is present, we recommend that a plant survey for this species be conducted when the orchids are in bloom (late June through early July). At this time we do not have a Service-approved surveyor list for this species. Therefore, any botanist conducting the plant survey should provide their qualifications to this office for review and approval in advance of a survey.

In Ohio, the proposed project lies within the range of the **Karner blue butterfly** (*Lycaeides melissa samuelis*). However, due to the location, we do not anticipate adverse effects to this species and a survey for the species is not warranted in Ohio.



The Ohio portion of the project is not within the range of the **Mitchell's satyr** (*Neonympha m. mitchellii*). Therefore, a survey for the species is not warranted in Ohio.

In addition, we requested surveys for the **Indiana bat** (*Myotis sodalis*) and **eastern massasauga** (*Sistrurus catenatus*) on some portions of the project area. As explained in our October letter, a presence/absence survey for the Indiana bat would also serve as a presence/absence survey for the **northern long-eared bat** (*Myotis septentrionalis*) on some portions of the project. However, your recent correspondence did not include survey proposals for these species. Please note that we are aware that the 2015 Indiana bat summer survey protocol has not yet been released by the Service, therefore development of a bat survey proposal is not possible at this time. We anticipate that the protocol will become available in early April 2015. The results of requested surveys for the bats and massasauga will assist us in providing you with the appropriate conservation recommendations that can be incorporated into your project to streamline the section 7 consultation process between the Service and the lead federal action agency.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Endangered Species Act of 1973 (ESA), as amended, and are consistent with the intent of the National Environmental Policy Act of 1969 and the U. S. Fish and Wildlife Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department of Natural Resources due to the potential for the project to affect state listed species. Contact John Kessler, Environmental Services Administrator, at (614) 265-6621 or at [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us).

If you have questions, or if we may be of further assistance in this matter, please contact Angela Boyer at extension 22 in this office.

Sincerely,



Dan Everson  
Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW, [nathan.reardon@dnr.state.oh.us](mailto:nathan.reardon@dnr.state.oh.us)  
Jennifer Norris, ODNR-DOW, [jennifer.norris@dnr.state.oh.us](mailto:jennifer.norris@dnr.state.oh.us)  
Tameka Dandridge, FWS-ELFO, [tameka\\_dandridge@fws.gov](mailto:tameka_dandridge@fws.gov)

## Gardner, Angela

---

**From:** Jeff Gosse <jeff\_gosse@fws.gov>  
**Sent:** Thursday, May 21, 2015 4:18 PM  
**To:** Gardner, Angela  
**Cc:** Lychwala, Michael; Matt Barczyk  
**Subject:** RE: NEXUS Pipeline Project- MBTA Meeting Week of June 22nd

Angela,

I am sorry, the name I was trying to get was Dan Everson. I will check on availability that week and get back to you.

Jeff

Jeff Gosse  
Regional Energy Coordinator  
U.S. Fish and Wildlife Service, Region 3  
Telephone: 612-713-5138  
Cell: 612-750-5095  
Fax: 612-713-5292  
E-mail: [jeff\\_gosse@fws.gov](mailto:jeff_gosse@fws.gov)

---

**From:** Gardner, Angela [mailto:[AGardner@trcsolutions.com](mailto:AGardner@trcsolutions.com)]  
**Sent:** Thursday, May 21, 2015 3:13 PM  
**To:** [Jeff\\_Gosse@fws.gov](mailto:Jeff_Gosse@fws.gov)  
**Cc:** Lychwala, Michael; Matt Barczyk ([MBBarczyk@spectraenergy.com](mailto:MBBarczyk@spectraenergy.com))  
**Subject:** NEXUS Pipeline Project- MBTA Meeting Week of June 22nd

Jeff-

It was a pleasure speaking to you today. Please let me know besides Scott Hicks who else should be copied on the letter regarding migratory birds and the NEXUS Pipeline Project.

Also, we would like to have a meeting in your office the week of June 22<sup>nd</sup> to discuss the project and specifically migratory birds. Please let us know what day and time works best for all who will attend.

Kind Regards,

Angela

Angela Gardner  
Project Manager/Biologist



2801 Wehrle Drive Suite 8, Williamsville, NY 14221  
T: 716.204.9543 ext 15990 | C: 716.796.8071 | F: 716.204.9545

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6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

June 10, 2015

U.S. Fish and Wildlife Service Region 3  
Ecological Services  
Jeff Gosse- Federal Projects and FERC Coordinator  
5600 American Blvd. West, Suite 990  
Bloomington, MN 55437-1458

*Sent via email [jeff\\_gosse@fws.gov](mailto:jeff_gosse@fws.gov)*

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

Dear Mr. Gosse:

As you are aware, Spectra Energy Partners, LP (“Spectra” or “Spectra Energy”) and DTE Energy Company (“DTE” or “DTE Energy”), developers comprising NEXUS Gas Transmission, LLC (“NEXUS”), are seeking a Certificate of Public Convenience and Necessity (“Certificate”) from the Federal Energy Regulatory Commission (“FERC”) pursuant to Section 7(c) of the Natural Gas Act (“NGA”) authorizing the construction and operation of the NEXUS Gas Transmission Project (“NEXUS Project” or “Project”), including construction and operation of new greenfield facilities in Ohio and Michigan; and contracted firm capacity on existing systems in Illinois, West Virginia, Pennsylvania, and Indiana. The new greenfield pipeline will be constructed, owned and operated by NEXUS and will extend from Kensington, Ohio to the DTE Gas transportation system west of Detroit in Willow Run, Michigan. The new greenfield pipeline will be approximately 250 miles long and 36” in diameter and include the construction of four (4) compressor stations. All the compressor stations will be located within Ohio. See attached Figure 1 for a NEXUS Project Location Map.

In the fall of 2014, NEXUS requested information and met with staff from the Field Offices in Ohio and Michigan to introduce the project and obtain information on federally protected species. Both Field Offices submitted comments in writing on the proposed project under the authority of the Fish and Wildlife Coordination Act, the Endangered Species Act (ESA) and the Bald and Golden Eagle Protection Act (BGEPA). The Field Offices made recommendations to conduct surveys for the following species:

- Indiana bat;
- Northern Long-Eared Bat;

- Karner Blue Butterfly;
- Mitchell's Satyr;
- Poweshiek Skipperling;
- Eastern Prairie Fringed Orchid;
- Eastern Massasauga Rattlesnake;
- Rayed Bean Mussel;
- Northern Riffleshell Mussel;
- Snuffbox Mussel;
- Bald Eagles.

NEXUS has been coordinating with the Field Offices regarding proposed survey protocols and locations. Bat mist net surveys have been initiated and are expected to go through August 15<sup>th</sup>. NEXUS has been in contact with Chris Mensing, Bald Eagle Coordinator for Ohio and Michigan and an aerial nest survey was completed in April 2015. Surveys for the other species will also be initiated this summer as well. NEXUS will continue to coordinate with the Field Offices regarding the status of the surveys and the results upon completion of the surveys.

NEXUS is requesting from the Regional Office of the USFWS any further comments and recommendations beyond what the Field Offices have already provided regarding species protected under the ESA and BGEPA.

Furthermore, NEXUS is interested in consulting with the Regional Office on avoiding and minimizing adverse impacts on migratory birds under the protection of the Migratory Bird Treaty Act (MBTA). We have reviewed the Regional Lists of Birds of Conservation Concern. The project traverses Regions 13, 22, 23 and 28. A table of the species identified the BCC species occurring in the Regions traversed by the project and their habitat requirements is included as Table 1. Habitats for migratory birds including BCC's that occur within the proposed right-of-way (ROW) include forested areas and wetlands. Grasslands have been avoided particularly in the Oak Opening Region of southeast Michigan and northwest Ohio. The current NEXUS pipeline route is co-located with existing utility rights of way for approximately 55 percent of the proposed route; with an additional 38 percent of the route [that is not co-located with existing utilities], crossing agricultural land uses, resulting a total of 93 percent of the proposed pipeline route sited to avoid conversion of existing land uses. An estimated 405 acres of temporary impact to forested areas and 203 acres of permanent forested clearing would result with the currently proposed route. NEXUS is refining the pipeline route and is striving to reduce the impacts to forested areas and particularly large, high quality wetlands.

We are aware of the Memorandum of Understanding (MOU) between USFWS and FERC that was signed in 2011 to evaluate potential impacts to migratory birds and mitigate for unavoidable impacts. NEXUS is underway with the FERC review of the project and wishes to collaborate with the USFWS regarding migratory bird impacts and mitigation measures in this early stage of the FERC process.

We appreciate your time and attention to review the proposed project and any recommendations the Service may have. In addition, we look forward to the meeting scheduled with your office on June 26, 2015 to discuss the Project. If you have any questions regarding the project or the request herein, please contact me at TRC by calling (716) 796-8071 or via email at [agardner@trcsolutions.com](mailto:agardner@trcsolutions.com).

Sincerely,



Angela Gardner, TRC

cc: Matt Barczyk, NEXUS  
Mike Lychwala, TRC  
Scott Hicks, USFWS  
Dan Everson, USFWS

Attachments (2)

<b>Table 1- Bird of Conservation Concern in Regions Traversed By the NEXUS Pipeline Project</b>			
<b>Habitat</b>	<b>Common Name</b>	<b>Scientific Name</b>	
<b>Region 13- Lower Great Lakes/St.Lawrence Plain</b>			
<b>Forest-Deciduous</b>	Bald eagle	<i>Haliaeetus leucocephalus</i>	
	Canada warbler	<i>Cardellina cara</i>	
	Cerulean warbler	<i>Dendroica cerulea</i>	
	Peregrine falcon	<i>Falco peregrinus</i>	
	Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	
	<b>Forest-Shrub Shrubby Fields</b>	Black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>
		Blue-winged warbler	<i>Vermivora pinus</i>
	<b>Grasslands/Pastures</b>	Golden-winged warbler	<i>Vermivora chrysoptera</i>
		Henslow's sparrow	<i>Ammodramus henslowii</i>
	<b>Flooded Fields/Mudflats</b>	Upland sandpiper	<i>Bartramia longicauda</i>
Lesser yellowlegs		<i>Tringa flaripes</i>	
<b>Marshes/Wetlands</b>	Red knot	<i>Calidris canatus</i>	
	Whimbrel	<i>Numenius phaepus</i>	
	American bittern	<i>Botaurus lentiginosus</i>	
	Black-crowned night heron	<i>Nycticorax nycticorax</i>	
	Least bittern	<i>Ixobrychus exilis</i>	
	Pied-billed grebe	<i>Podilymbus podiceps</i>	
<b>Open Water/Shores</b>	Solitary sandpiper	<i>Tringa solitaria</i>	
	Short eared owl	<i>Asio flammeus</i>	
	Wood thrush	<i>Hylocichia mustelina</i>	
	Black tern	<i>Chidonias niger</i>	
	Buff-breasted sandpiper	<i>Tryngites subruficollis</i>	
	Common tern	<i>Sterna hirundo</i>	
	Horned grebe	<i>Podiceps auritus</i>	
	Hudsonian grebe	<i>Limosa haemastica</i>	
	Marbled godwit	<i>Limosa fedoa</i>	
	Semipalmated sandpiper	<i>Calidris pusilla</i>	
<b>Region 22-Eastern Tallgrass Prairie</b>			
<b>Forest-Deciduous</b>	Acadian flycatcher	<i>Empidonax virescens</i>	
	Bald eagle	<i>Haliaeetus leucocephalus</i>	
	Canada warbler	<i>Cardellina cara</i>	
	Cerulean warbler	<i>Dendroica cerulea</i>	
	Kentucky warbler	<i>Oporonis formosus</i>	
	Northern flicker	<i>Colaptes auratus</i>	
	Peregrine falcon	<i>Falco peregrinus</i>	
	Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	
	Rusty blackbird	<i>Euphagus carolinus</i>	
	Whip-poor-will	<i>Caprimulgus vociferus</i>	
	Wood thrush	<i>Hylocichia mustelina</i>	

<b>Forest-Shrub</b>	Bewick's Wren	<i>bewickii</i> ssp.
<b>Shrubby Fields</b>	Black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>
	Bell's vireo	<i>Vireo bellii</i>
	Blue-winged warbler	<i>Vermivora pinus</i>
	Golden-winged warbler	<i>Vermivora chrysoptera</i>
	Grasshopper sparrow	<i>Ammodramus savannarum</i>
<b>Grasslands/Pastures</b>	Field sparrow	<i>Spizella pusilla</i>
	Dickcissel	<i>Spiza americana</i>
	Henslow's sparrow	<i>Ammodramus henslowii</i>
	Smith's longspur	<i>Calcarius pictus</i>
<b>Flooded Fields/Mudflats</b>	Upland sandpiper	<i>Bartramia longicauda</i>
	Lesser yellowlegs	<i>Tringa flaripes</i>
	Red knot	<i>Calidris canatus</i>
<b>Marshes/Wetlands</b>	Whimbrel	<i>Numenius phaepus</i>
	American bittern	<i>Botaurus lentiginosus</i>
	Black-crowned night heron	<i>Nycticorax nycticorax</i>
	Least bittern	<i>Ixobrychus exilis</i>
	Pied-billed grebe	<i>Podilymbus podiceps</i>
	Prothonotary warbler	<i>Protonotaria citrea</i>
	Short eared owl	<i>Asio flammeus</i>
	Solitary sandpiper	<i>Tringa solitaria</i>
<b>Open Water/Shores</b>	Wood thrush	<i>Hylocichia mustelina</i>
	Black tern	<i>Childonias niger</i>
	Buff-breasted sandpiper	<i>Tryngites subruficollis</i>
	Common tern	<i>Sterna hirundo</i>
	Horned grebe	<i>Podiceps auritus</i>
	Hudsonian grebe	<i>Limosa haemastica</i>
	Marbled godwit	<i>Limosa fedoa</i>
	Semipalmated sandpiper	<i>Calidris pusilla</i>
	Short-billed dowitcher	<i>Lumnodromus griseus</i>
<b>Region 23-Prairie Hardwood Transition</b>		
<b>Forest-Deciduous</b>	Bald eagle	<i>Haliaeetus leucocephalus</i>
	Cerulean warbler	<i>Dendroica cerulea</i>
	Peregrine falcon	<i>Falco peregrinus</i>
	Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>
	Rusty blackbird	<i>Euphagus carolinus</i>
<b>Forest-Shrub</b>	Black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>
	Willow flycatcher	<i>Empidonax traillii</i>
<b>Shrubby Fields</b>	Blue-winged warbler	<i>Vermivora pinus</i>
	Brown thrasher	<i>Toxostoma rufum</i>
	Golden-winged warbler	<i>Vermivora chrysoptera</i>

<b>Grasslands/Pastures</b>	Bobolink Dickcissel Henslow's sparrow Upland sandpiper	<i>Dolichonyx oryzivorus</i> <i>Spiza americana</i> <i>Ammodramus henslowii</i> <i>Bartramia longicauda</i>
<b>Flooded Fields/Mudflats</b>	Red knot Whimbrel	<i>Calidris canutus</i> <i>Numenius phaeopus</i>
<b>Marshes/Wetlands</b>	American bittern Marsh wren Pied-billed grebe Solitary sandpiper Short eared owl	<i>Botaurus lentiginosus</i> <i>Cistothorus palustris</i> <i>Podilymbus podiceps</i> <i>Tringa solitaria</i> <i>Asio flammeus</i>
<b>Open Water/Shores</b>	Yellow rail Black tern Buff-breasted sandpiper Common tern Horned grebe Hudsonian grebe Marbled godwit Short-billed dowitcher	<i>Coturnicops noveboracensis</i> <i>Chionias niger</i> <i>Tryngites subruficollis</i> <i>Sterna hirundo</i> <i>Podiceps auritus</i> <i>Limosa haemastica</i> <i>Limosa fedoa</i> <i>Lumnodromus griseus</i>
<b>Region 28-Appalachian Mountains</b>		
<b>Forest-Deciduous</b>	Bald eagle Black-capped chickadee Canada warbler Cerulean warbler Kentucky warbler Louisiana waterthrush Northern saw-whet owl Olive-sided flycatcher Peregrine falcon Red crossbill Red-headed woodpecker Rusty blackbird Whip-poor-will Wood thrush Worm-eating warbler Yellow-bellied sapsucker	<i>Haliaeetus leucocephalus</i> <i>Poecile atricapillus</i> <i>Cardellina cara</i> <i>Dendroica cerulea</i> <i>Oporonis formosus</i> <i>Parkesia motacilla</i> <i>Aegolius acadicus</i> <i>Contopus cooperi</i> <i>Falco peregrinus</i> <i>Loxia curvirostra</i> <i>Melanerpes erythrocephalus</i> <i>Euphagus carolinus</i> <i>Caprimulgus vociferus</i> <i>Hylocichia mustelina</i> <i>Helmitheros vermivorum</i> <i>Sphyrapicus varius</i>
<b>Forest-Shrub Shrubby Fields</b>	Bewick's Wren Blue-winged warbler Golden-winged warbler Prairie warbler	<i>bewickii ssp.</i> <i>Vermivora pinus</i> <i>Vermivora chrysoptera</i> <i>Setophaga discolor</i>
<b>Grasslands/Pastures</b>	Henslow's sparrow	<i>Ammodramus henslowii</i>



<b>Flooded Swamplands Marshes/Wetlands</b>	Upland sandpiper Swainson's warbler Sedge wren Wood thrush	<i>Bartramia longicauda</i> <i>Limnothlypis swainsonii</i> <i>Cistothorus platensis</i> <i>Hylocichlea mustelina</i>
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**NEXUS Project Location Map**

**NEXUS**  
GAS TRANSMISSION

4/6/2015



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

**MAY 21 2015**

REPLY TO THE ATTENTION OF:

E-19J

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First St., N.E., Room 1A  
Washington, DC 20426

Re: EPA Scoping Comments – FERC Notice of Intent to Prepare an Environmental Impact Statement for the Planned NEXUS Gas Transmission (NEXUS) Project in Ohio and Michigan and Texas Eastern Appalachian Lease (TEAL) Project in Ohio. (FERC Docket Nos. PF15-10-000 and PF15-11-000)

Dear Ms. Bose:

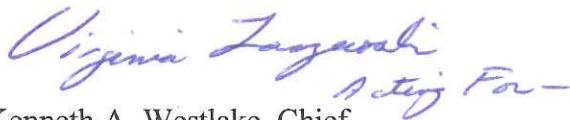
In accordance with our responsibilities under Section 309 of the Clean Air Act, the National Environmental Policy Act (NEPA), and the Council on Environmental Quality (CEQ) regulations for implementing NEPA, the United States Environmental Protection Agency (EPA) has completed its review of the Federal Energy Regulatory Commission's (FERC) Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS) for the NEXUS Gas Transmission (NEXUS) Project in Ohio and Michigan and Texas Eastern Appalachian Lease (TEAL) Project in Ohio.

To assist in the scoping process for this project, we have identified several issues for your consideration in the preparation of the EIS, including recommendations relating to the assessment of impacts to air and water quality, greenhouse gas emissions, indirect effects, climate change, public health and safety, environmental justice, biological resources, habitat and wildlife. Enclosed are our detailed comments and recommendations. When the Draft EIS (DEIS) is electronically filed with our Headquarters office, please send our Regional office one (1) paper copy and three (3) CDs of the DEIS.

EPA is willing to be a cooperating agency for FERC's EIS. As a cooperating agency, EPA agrees to provide project-related input in areas of our expertise subject to resource limitations. We agree to provide input on impact assessment methodologies; participate in coordination meetings via webinars/conference calls; and provide comment on preliminary information developed for the Draft EIS and Final EIS. Specifically, we look to provide comment on alternatives considered, anticipated impacts and mitigation. EPA requests FERC provide reasonable advance notice of upcoming webinars/conference calls and preliminary documents for our review so we may schedule this work accordingly.

If you 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](mailto:laszewski.virginia@epa.gov) or 312-886-7501.

Sincerely,



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

Enclosure

Cc: Joanne Wachholder, Project Manager, FERC, [joanne.wachholder@ferc.gov](mailto:joanne.wachholder@ferc.gov)  
Matt Munson, Regulatory Branch, USACE Northern Pittsburgh District,  
[Matthew.R.Mason@usace.army.mil](mailto:Matthew.R.Mason@usace.army.mil)  
Mark Taylor, Chief, Energy Resources, USACE Huntington District,  
[Mark.Taylor@usace.army.mil](mailto:Mark.Taylor@usace.army.mil)  
Mark Scalabrino, Chief, Ohio Regulatory, USACE Buffalo District,  
[mark.w.scalabrino@usace.army.mil](mailto:mark.w.scalabrino@usace.army.mil)  
Stanley F. Cowton, Jr., Regulatory Project Manager, USACE Detroit District,  
[Stanley.f.cowton@usace.army.mil](mailto:Stanley.f.cowton@usace.army.mil)  
Chris Mensing, Fish and Wildlife Biologist, USFWS East Lansing Michigan Field Office  
[Chris\\_mensing@fws.gov](mailto:Chris_mensing@fws.gov)  
Burr Fisher, Wildlife Biologist, USFWS Michigan Field Office, [Burr\\_fisher@fws.gov](mailto:Burr_fisher@fws.gov)  
Angela Boyer, Endangered Species Coordinator, USFWS Ohio Field Office,  
[angela\\_boyer@fws.gov](mailto:angela_boyer@fws.gov)  
Mike Mansour, OEPA Central Office, [mike.mansour@epa.ohio.gov](mailto:mike.mansour@epa.ohio.gov)  
Dave Morehart, OEPA Central Office, [dave.morehart@epa.ohio.gov](mailto:dave.morehart@epa.ohio.gov)  
Ed Fasko, Jana Gannon, Kevin Fortune, OEPA Northeast District, [ed.fasko@epa.ohio.gov](mailto:ed.fasko@epa.ohio.gov) ,  
[jana.gannon@epa.ohio.gov](mailto:jana.gannon@epa.ohio.gov) , [kevin.fortune@epa.ohio.gov](mailto:kevin.fortune@epa.ohio.gov)  
Sean Vadas, Kelly Kanoza, Duane LaClair, OEPA Akron regional Air Quality Management  
District, [svadas@schd.org](mailto:svadas@schd.org) , [kkanoza@schd.org](mailto:kkanoza@schd.org) , [dlaclair@schd.org](mailto:dlaclair@schd.org)  
Lindsay Taliaferro, Drinking and Groundwaters, UIC Program, OEPA,  
[Lindsay.taliaferro@epa.state.oh.us](mailto:Lindsay.taliaferro@epa.state.oh.us)  
John Kessler, P.E. Assistant Chief, Office of Real Estate, ODNR, [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us)  
Scudder D. Mackey, Chief, Ohio Coastal Management Program, ODNR,  
[scudder.mackey@dnr.state.oh.us](mailto:scudder.mackey@dnr.state.oh.us)  
Mark Epstein, Department Head, Resource Protection and Review, Ohio Office of Historic  
Preservation, [mepstein@ohiohistory.org](mailto:mepstein@ohiohistory.org)  
Andy Hartz, District Coordinator, Southeast Michigan District Office, Water Resources  
Division, MDEQ, [hartz@michigan.gov](mailto:hartz@michigan.gov)

Jennifer Vanportfleet, Wetlands, Water Resources Division, MDEQ  
[vanportfleetj@michigan.gov](mailto:vanportfleetj@michigan.gov)

Lori Sargent, Wildlife Division, MDNR, [sargentl@michigan.gov](mailto:sargentl@michigan.gov)

Michael A. Sanders, Rare Species Review Specialist, Natural Features Inventory, MDNR,  
[sander75@msu.edu](mailto:sander75@msu.edu)

Martha MacFarlane-Faes, Deputy State Historic Preservation Officer, Michigan Office of  
Historic Preservation, [FaesM@michigan.gov](mailto:FaesM@michigan.gov)

Brian D. Conway, State Historic Preservation Officer, Michigan Office of Historic Preservation,  
[conwayb1@michigan.gov](mailto:conwayb1@michigan.gov)

**EPA Scoping Comments**  
**For the Federal Energy Regulatory Commission (FERC)**  
**Notice of Intent (NOI)**  
**To Prepare an Environmental Impact Statement (EIS)**  
**For the Planned NEXUS Gas Transmission (NEXUS) Project in Ohio and Michigan and**  
**Texas Eastern Appalachian Lease (TEAL) Project in Ohio.**  
**(FERC Docket Nos. PF15-10-000 and PF15-11-000)**

**BACKGROUND**

In compliance with the National Environmental Policy Act of 1969 (NEPA), as amended, the Federal Energy Regulatory Commission (FERC) intends to prepare one Environmental Impact Statement (EIS) analyzing the impacts of both the NEXUS Gas Transmission (NEXUS) Project and the Texas Eastern Appalachian Lease (TEAL) Project. FERC's Notice of Intent (NOI) identifies the two projects are separate, but connected, interstate natural gas pipeline projects. NEXUS Gas Transmission, LLC (NEXUS) proposes to construct and operate NEXUS Project facilities in multiple counties in Michigan and Ohio. Texas Eastern Transmission, LP (Texas Eastern) proposes to construct and operate TEAL Project facilities in multiple counties in OH.

According to the NOI, the projects would provide up to 1.5 million dekatherms per day of natural gas to various market in the U.S. Midwest and Canada. The Project would tie into existing infrastructure and include capacity on existing pipeline systems to serve customers in Ohio and Michigan, as well as customers in Illinois (the Chicago area) and Ontario, Canada (the Dawn area). If approved NEXUS and Texas Eastern propose to commence construction in the first quarter 2017 and place facilities in service on November 1, 2017.

**PROJECT DESCRIPTIONS**

According to the NOI, NEXUS and Texas Eastern (the applicants) plan to construct and operate about 256 miles of interstate natural gas transmission pipeline and associated facilities in OH and MI.

NEXUS proposes to construct:

- about 200 miles of new 36-inch-diameter natural gas pipeline in Columbiana, Stark, Summit Wayne, Medina, Loraine, Erie, Sandusky, Wood, Lucas, and Fulton Counties, OH;
- about 50 miles of new 36-inch-diameter natural gas pipeline in Lenawee, Monroe, and Washtenaw Counties, MI;
- about 1.2 miles of new 36-inch-diameter interconnecting pipeline in Columbiana and Carroll Counties, OH;

- about 0.2 miles of new 30-inch-diameter interconnecting pipeline in Columbiana County, OH;
- install up to 130,000 horsepower (hp) of compression at four new gas turbine compressor stations, one each in Columbiana, Median, Sandusky, and Lucas Counties, OH;
- a total of 4 metering and regulation stations, three in Columbiana County, OH and one in Washtenaw County, MI; and
- various launchers, receivers, mainline valves, and other appurtenant facilities at assorted locations along the planned system in OH and MI.

Texas Eastern proposes to construct:

- about 4.5 miles of new 36-inch-diameter natural gas loop pipeline in Monroe County, OH;
- one new compressor station with 18,800 hp in Columbiana County, OH;
- additional 9,400 hp of compression and piping modifications at one existing compressor station (Colerain Compressor Station) in Belmont County, OH; and
- launchers, receivers, and various piping modifications at 2 existing regulating and receiver sites in Monroe County, OH.

## COMMENTS

**Additional Project components** – EPA is aware that interstate natural gas pipeline projects may include the construction and operation of communication towers and/or electricity supply lines.

Recommendation: In addition to the construction and operation of the pipelines, meter and regulator stations, compressor stations, inspection tools (e.g., smart pigs) launching/receiving facility locations and mainline valves facilities, we recommend the EIS identify and assess impacts associated with any Project-related electricity transmission lines, communication towers, access roads, contractor supply and staging yards and horizontal directional drill (HDD) facility locations that are needed for construction and/or operation of the Project.

**Pipeline Capacity** – The NOI indicates that the projects would provide up to 1.5 million dekatherms per day of natural gas to various market in the U.S. Midwest and Canada. The NOI does not disclose the amount of the 1.5 million dekatherms per day that each customer service area (i.e., Ohio and Michigan, Illinois (the Chicago area) and Ontario, Canada (the Dawn area) would receive.

Recommendation: We recommend the EIS compare the proposed amount of natural gas to be transported by the Project in a way that a typical layperson can relate to. For example, it may be helpful

to provide an estimate of the number of typical 3-bedroom homes that could be heated during one typical 24-hour winter day in the Great Lakes Region to the proposed amount (Bcf/d) of natural gas proposed to be carried by the Project

**Operating lifetime of the proposed Project** – The NOI does not disclose the NEXUS or TEAL Projects' expected operating lifetime.

Recommendation: We recommend the EIS identify the expected operating lifetime of the NEXUS and TEAL Projects, and discuss what typically happens to an interstate natural gas pipeline and its components once they reach the end of their expected lifetime and/or are no longer needed. We recommend the EIS identify the measures FERC requires interstate natural gas pipeline owners have in place to ensure that a proposed pipeline will be operated and decommissioned in a timely manner that protects human health and the environment.

**Project Alternatives** – The NOI does not identify the project alternatives that would be evaluated in the EIS.

Recommendations: We recommend the alternatives analysis discussion include consideration of the feasibility of using excess capacity in existing pipelines, other proposed interstate natural gas pipelines (e.g., Rover Pipeline), and/or using existing facility locations and rights of way.

**Affected Environment (MI/OH)** – To explain the proposal's impacts on various resources, the EIS will need to include a detailed characterization of the affected environments in MI and OH.

Recommendations: We recommend the EIS include detailed descriptions of the resources in the study areas for the proposed pipeline, associated facilities, access roads, contractor supply and staging areas, any needed communication towers, electricity supply lines, and existing and proposed new compressor and meter stations, supported with photos and figures/maps. The figures and maps should depict the various alternative pipeline routes, facilities and facility components in relation to the study area resources. Existing and proposed pipelines and other utility corridors in the study area should also be clearly identified and delimited in EIS figures.

**Clean Water Act (CWA) Section 404 permits and compliance with CWA Section 404(b)(1)**

**Guidelines** – The proposal will need a Clean Water Act (CWA) Section 404 permit from the U.S. Army Corps of Engineers (Corps) and in Michigan, from the Michigan Department of Environmental Quality, which has assumed the Section 404 program. Mitigation requirements under 40 CFR Section 230 address the replacement of unavoidable losses of wetland functions and values.

Recommendations: We recommend the EIS contain a level of information and analysis adequate to support compliance with the CWA, Section 404(b)(1) Guidelines, including alternatives and mitigation sequencing requirements (first avoid, then minimize, and finally compensate for those impacts that cannot be avoided or minimized). Direct, indirect and cumulative impacts analysis should be included



in the EIS. If mitigation banking is proposed, we recommend providing details of the proposed mitigation bank/s in the EIS.

**Surface Water and Groundwater Quality/Quantity** – The EIS will need to clearly describe water bodies, streams and ground water resources within the analysis areas.

Recommendations (Impaired Waters/401 Certification/TMDLs): Impacts of the various alternatives on water quality should address, but not be limited to, a water body's designated use and compliance with MI and OH, Water Quality Standards and CWA, Section 401 Water Quality Certifications. The EIS should also identify whether or not water bodies located in the various proposed project areas are listed by a state as impaired, and, if so, are part of a Total Maximum Daily Load (TMDL) plan. If impaired waters are identified, the EIS should identify the impairment/s and the reason/s for the impairment/s. The Project's impacts on TMDLs should be analyzed and disclosed in the EIS, and mitigation identified.

Recommendations (Drinking Water Supply, Well-head Protection Areas, Water Supply Intake, Springs and Karst Geology): We recommend giving special attention to work that would occur in or near an identified well head (drinking water) protection zone, or upstream of a drinking water intake. In addition, special attention should be given to how work is conducted in areas with karst geology where contaminants introduced into the karst system may travel underground for miles and show up in private and/or public drinking water supply wells, streams/rivers and/or springs used by people and/or livestock for drinking water. While the EIS would most likely not identify the specific locations of public and private drinking water supply intakes or wells, impacts to these resources should be evaluated and mitigation measures identified, if applicable.

#### Class V Permits

Class V injection well permits may be required for various types of projects. For example in Michigan such a permit could be required by EPA Region 5 if a Class V injection well is located within the karst region of the state, a sole source aquifer area, a state designated source water protection area for a public water supply, or anywhere untreated fluids discharged through a Class V well may otherwise endanger an underground source of drinking water. For example, if sinkholes will be modified for stormwater drainage for the proposed pipeline and/or its related facilities, they would be considered Class V wells under the Safe Drinking Water Act's Underground Injection Control (UIC) program.

Ohio has primacy for UIC. The Ohio contact is Lindsay Taliaferro at 614/644-2771. For Michigan, EPA, Region 5 is the agency that must be notified and would need to approve any Class V well construction. For additional information regarding EPA Class V permits and UIC program, contact Ross Micham of EPA's UIC Branch at 312/886-4237 or at [micham.ross@epa.gov](mailto:micham.ross@epa.gov).

Recommendations (Water Body – River/Stream Crossings): We recommend identifying and discussing details regarding the widths of proposed stream crossings and how these crossings will be accomplished. Where feasible, we recommend the use of directional drilling for all water crossings, including directional drilling of their associated floodplains, wetlands and unique wildlife habitats, such as riparian

forest land.

Recommendations (NPDES 402 Discharge Permits/402 Construction Permits/Hydrostatic Testing): The EIS should identify and discuss whether National Pollution Discharge Elimination System (NPDES) Clean Water Act Section 402 direct discharge and/or storm water construction permits may be required. We recommend the permitting agency and contact information for each state, as applicable, be disclosed in the EIS.

Recommendations (Hydrostatic Testing - Additives, Erosion/Sediment Control and Aquatic Nuisance/Invasive Species): We recommend the EIS disclose whether hydrostatic testing will be undertaken for the proposed pipelines. If applicable, details of testing methods should be included. We recommend the EIS identify the potential source waters, locations and amounts of water proposed for each hydrostatic test and proposed discharge locations. We recommend the EIS identify the types of chemical additives that may be used in hydrostatic testing and how these chemicals would be treated and properly disposed. We recommend disclosing potential impacts to water resources from erosion and/or spread of aquatic nuisance species associated with hydrostatic testing. We also recommend the EIS identify mitigation measures to protect upland and aquatic resources.

**Hazardous Materials** – Events such as construction equipment spills of hazardous or toxic materials could result in substantial adverse impacts to surface and ground water quality and aquatic habitats. The construction and operation of pipelines and their associated facilities can generate used oils and solvents from maintenance of compressors, and releases of fuel oils and other material stored onsite.

Recommendations: We recommend the EIS discuss the frequency or likelihood of such events, and describe spill prevention and spill and release response capabilities. We also recommend appropriate state-identified and FERC-identified Best Management Practices (BMPs) to reduce potential non-point sources of pollution from project proposed activities be designed into the project and identified in the EIS. We recommend the EIS describe these spill prevention measures and capabilities, along with any necessary emergency plan or mitigation of spills in emergencies for all sections of the pipeline and all construction and use phases of the pipeline's life.

Recommendations: We recommend the EIS identify whether the operator has a waste minimization plan for pipeline construction and operation and identify the measures in the plan that will be used to reduce uncontrolled releases of hazardous materials, such as the use of drip pans for compressors, and reduction of construction waste, including waste resulting from spraying of the pipe.

**Air Quality** – Impacts to air quality can occur from construction and operation of a natural gas pipeline and associated facilities. For example, air quality impacts may occur from the operation and maintenance of compressor stations required to push gases through pipe bores over considerable distances. Such risks include releases of oxides of nitrogen, metals, formaldehyde and BETX (benzene, ethyl benzene, toluene and xylenes) from combustion-powered compressors. The protection of air quality should be addressed in the EIS.

Recommendations (NAAQS, Hazardous Air Pollutants): The EIS should identify and discuss the potential impacts to air quality from construction and operation of the proposed project. The air quality analysis should address and disclose the project's potential effect on: 1) all criteria pollutants under the National Ambient Air Quality Standards (NAAQS), including ozone; 2) any significant concentrations of hazardous air pollutants; and 3) protection of public health. Mitigation measures should be identified. We recommend the project proponents pursue opportunities to use clean diesel equipment, vehicles and fuels in construction of the project, and that FERC identify and disclose any opportunities to utilize these measures in the EIS.

Recommendations (Permits): We recommend the EIS identify the state agencies and the agency contact information for the various air permits that may be required for operation of the Project, such as operation of new compressor stations.

**Indirect effects** – Both FERC and the Department of Energy (DOE) have recognized that an increase in natural gas exports will result in increased production.<sup>1</sup> However, FERC has concluded in previous NEPA analyses that the nature of natural gas supply and the pipeline system in the U.S. makes it difficult to predict accurately where the additional gas development activity will occur and thus concluded that it is not feasible to more specifically evaluate localized environmental impacts. DOE has released a study by the National Energy Technology Laboratory (NETL), entitled “Addendum to Environmental Review Documents Concerning Exports of Natural Gas from the United States<sup>2</sup>”. We note that NETL recognizes that many of the potential impacts will vary considerably by location depending where the production occurs due to differences in hydrology, geology, ecology, air quality, regulatory structure and other factors. Nonetheless, the Addendum provides the kind of conceptual level analysis of the types of impacts that are likely to occur from increased production.

Recommendations: We recommend the EIS consider the potential for increased natural gas production as a result of exporting natural gas through the NEXUS and TEAL Projects and the potential for environmental impacts associated with these potential increases. We recommend that the NETL study be considered as part of the decision making for this project and incorporated by reference in the EIS.

**Greenhouse gas emissions** – Previous FERC NEPA analyses have included a helpful discussion of the greenhouse gas (GHG) emissions associated with construction of the project, and annual emissions from the operation of the project. In addition to operational and construction emissions, there are also GHG emissions associated with the production, transport, and combustion of the natural gas that should be considered in the EIS. Because of the global nature of climate change, even where the ultimate end use

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<sup>1</sup> Effect of Increased Natural Gas Exports on Domestic Energy Markets, as requested by the Office of Fossil Energy. US Energy Information Administration. January 2012 ([http://energy.gov/sites/prod/files/2013/04/f0/fe\\_eia\\_lng.pdf](http://energy.gov/sites/prod/files/2013/04/f0/fe_eia_lng.pdf)) and Cameron LNG EIS, Appendix L (Response to Comments), p. L-36 (<http://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13530753>)

<sup>2</sup> Addendum to Environmental Review Documents Concerning Exports of Natural Gas from the United States. DOE. ([http://energy.gov/sites/prod/files/2014/05/f16/Addendum\\_0.pdf](http://energy.gov/sites/prod/files/2014/05/f16/Addendum_0.pdf))

of the natural gas occurs outside the US, additional greenhouse gas emissions attributable to the project would affect the US. Consistent with NEPA and CEQ regulations, because any such emissions contribute to climate change impacts in the US, it is appropriate to consider and disclose them in the EIS due to their reasonably close causal relationship to the project.

DOE has recently issued two documents that are helpful in assessing the GHG emissions implications of the project. They are the Addendum mentioned above, and NETL's recent report, entitled "Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States"<sup>3</sup>. While these reports focused specifically on Liquefied Natural Gas exports, they provide a helpful overview of GHG emissions from all stages of a project, from production through transmission and combustion. The GHG report also includes comparative analysis of GHG emissions associated with other domestic fuel sources and natural gas exports as they relate to other possible fuel sources in receiving regions. This information is helpful to decision makers in reviewing the foreseeable GHG emissions associated with the increased production and export of natural gas and how they compare to other possible fuels.

Recommendations: We recommend including GHG emissions associated with construction and annual emissions from operation in this DEIS. EPA also recommends both DOE reports be considered as part of the decision making process for this project and incorporated by reference in the EIS. FERC may also want to consider adapting this analysis to more specifically consider the GHG implications of the project. In addition, we recommend that the NEPA analysis address the appropriateness of considering changes to the design of the proposal to incorporate GHG reduction measures and resilience to foreseeable climate change. The draft and final EIS should make clear whether commitments have been made to ensure implementation of design or other measures to reduce GHG emissions or to adapt to climate change impacts.

**Methane Leakage** – 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.<sup>4</sup>

Recommendation: We recommend that the EIS describe best management practices that will be adopted to reduce leakage of methane associated with operation of the facility.

#### Climate Change Adaptation

Recommendations: EPA recommends that the DEIS include a discussion of reasonably foreseeable climate change that may affect the project over its lifetime in the "affected environment" section. If appropriate, EPA also suggests that the DEIS discuss any reasonable design alternatives that would enhance the project's preparedness and resilience to climate change effects.

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<sup>3</sup> Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States. DOE/NETL-2014/1649 (<http://energy.gov/fe/life-cycle-greenhouse-gas-perspective-exporting-liquefied-natural-gas-united-states>)

<sup>4</sup> [http://www.epa.gov/gasstar/methaneemissions/onshore\\_transmission\\_storage.html](http://www.epa.gov/gasstar/methaneemissions/onshore_transmission_storage.html)

**Noise** – Construction and/or operational activities from the pipeline and associated facilities, such as compressor stations, may cause an increase in local noise levels. Mitigation measures may include, but are not limited to, the use of noise barriers and sound-proofing structures, the placement of trees and shrubs, and the use of equipment that emit the lowest levels of noise possible.

Recommendations: We recommend the EIS identify and discuss the sources of short-term and long-term noise pollution and the mitigation measures that will be implemented.

**Community, Social and Economic Impacts** – There may be impacts to communities as well as social or economic impacts as a result of the construction and operation of the pipeline.

Recommendation: We recommend the EIS identify and address the social and economic impacts this project may have on communities. This would include, but is not limited to, identifying the number of outside workers that would be brought in to construct the project and duration of proposed construction and/or modification activities in the various communities. Impacts to roads due to project-related heavy equipment use and any extra law enforcement that may be necessary to maintain law and order.

**Environmental Justice (EJ) and Sensitive Receptors** – There may be environmental justice communities or other sensitive receptor locations (e.g., schools, day care centers, hospitals, etc.) near the proposed pipelines and associated facilities (e.g., compressor stations).

Recommendation: We recommend the EIS identify these communities and locations and if applicable, identify and evaluate the impacts of this proposal on them. This might include, but is not limited to, an assessment of risk of exposure to hazardous/toxic materials associated with pipeline and facility construction and operation, and air quality and noise impacts due to operation and/or modification of compressor station locations. We recommend identifying mitigation measures in the EIS.

**Pipeline System Safety** – The NOI identifies that the EIS will discuss public safety.

Recommendation: We recommend the EIS identify the maximum safe operating pressure or the proposed NEXUS pipeline and the pipelines it will be connecting to. The EIS should disclose the maximum volume of natural gas that can be safely transmitted in each of the pipelines and associated facilities that make up the Project. In addition, we recommend the EIS disclose the response times and capabilities of the emergency responders in the various communities along the proposed route to adequately respond to a major pipeline explosion/fire. Mitigation measures, such as NEXUS committing to fund training, staffing, and/or equipment for local emergency medical providers and/or firefighters should be identified in the EIS.

**Biological Resources, Habitat and Wildlife** – This proposed long linear pipeline project would impact a variety of habitats, including but not limited to, high quality wetlands, streams, forests and other habitats. The EIS should disclose how the proposed route and route variations/options have avoided impacts to these resources. Of particular concern are various resources found within the Oak Openings

and Singer Lake Bog areas in Ohio.

Recommendation (Baseline Information): We recommend the EIS provide baseline conditions of the habitats and populations of the covered species. It appears that substantial area of forest land would be converted into maintained pipeline right-of-way. Forests provide valuable habitat for wildlife and protect surface water and ground water quantity and quality, in part, by providing soil stabilization in a watershed. Core forest provides valuable breeding, feeding and resting areas for forest interior dwelling birds. In addition, trees capture and store carbon, keeping it out of the atmosphere where it contributes to accelerating climate change.

Recommendations (forests): We recommend the EIS assess and disclose impacts to the various habitats associated with the proposal. Assessment of impacts to forest should include but not be limited to disclosing the locations and the amount of forest fragmentation/forest edge produced and the amount of core forest that would be lost for each alternative evaluated in the EIS. If possible, we recommend alternatives be located to avoid forest fragmentation and loss of core forest. Where impacts cannot be avoided and minimized, EPA recommends the project proponents undertake voluntary mitigation for tree loss that is due to their proposal. We recommend a 1:1 replacement with native saplings in the watershed where the tree loss takes place.

Recommendation (petitioned, listed threatened and endangered species): We recommend that the EIS identify all petitioned and listed threatened and endangered species and critical habitat that might occur in the project area, and identify and quantify which species or critical habitat might be directly, indirectly, or cumulatively affected by each alternative and mitigate impacts to these species. In addition to FERC consulting with the U.S. Fish and Wildlife Service, we also recommend FERC coordinate with the various state agencies in MI and OH to ensure that current and consistent surveying, monitoring, and reporting protocols are applied in protection and mitigation efforts.

**Noxious Weeds and Exotic Species** – The spread of noxious weeds and exotic (non-indigenous) plants is a threat to biodiversity. Many noxious weeds can out-compete native plants and produce a monoculture that has little or no plant species diversity or benefit to wildlife. Noxious weeds tend to gain a foothold where there is disturbance in the ecosystem. Studies show that new roads and pipeline/utility rights of way can become pathways for the spread of invasive plants. Early recognition and control of new infestations is essential to stopping the spread of infestation and avoiding future widespread use of herbicides, which could correspondingly have more adverse impacts on biodiversity and nearby water quality.

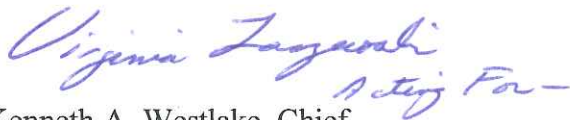
Recommendations: We recommend that a vegetation management plan be prepared and included in the EIS to address control of such plant intrusions during construction and operation. The plan should list the noxious weeds and exotic plants that occur in the resource areas. In cases where noxious weeds are a threat, EPA recommends the document detail a strategy for prevention, early detection of invasion, and control procedures for each species.

Document Content(s)

EPAscopingLTR-DocketsPF15-10andPF15-11.PDF.....1-12

If you 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](mailto:laszewski.virginia@epa.gov) or 312-886-7501.

Sincerely,



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

Enclosure

Cc: Joanne Wachholder, Project Manager, FERC, [joanne.wachholder@ferc.gov](mailto:joanne.wachholder@ferc.gov)  
Matt Munson, Regulatory Branch, USACE Northern Pittsburgh District,  
[Matthew.R.Mason@usace.army.mil](mailto:Matthew.R.Mason@usace.army.mil)  
Mark Taylor, Chief, Energy Resources, USACE Huntington District,  
[Mark.Taylor@usace.army.mil](mailto:Mark.Taylor@usace.army.mil)  
Mark Scalabrino, Chief, Ohio Regulatory, USACE Buffalo District,  
[mark.w.scalabrino@usace.army.mil](mailto:mark.w.scalabrino@usace.army.mil)  
Stanley F. Cowton, Jr., Regulatory Project Manager, USACE Detroit District,  
[Stanley.f.cowton@usace.army.mil](mailto:Stanley.f.cowton@usace.army.mil)  
Chris Mensing, Fish and Wildlife Biologist, USFWS East Lansing Michigan Field Office  
[Chris\\_mensing@fws.gov](mailto:Chris_mensing@fws.gov)  
Burr Fisher, Wildlife Biologist, USFWS Michigan Field Office, [Burr\\_fisher@fws.gov](mailto:Burr_fisher@fws.gov)  
Angela Boyer, Endangered Species Coordinator, USFWS Ohio Field Office,  
[angela\\_boyer@fws.gov](mailto:angela_boyer@fws.gov)  
Mike Mansour, OEPA Central Office, [mike.mansour@epa.ohio.gov](mailto:mike.mansour@epa.ohio.gov)  
Dave Morehart, OEPA Central Office, [dave.morehart@epa.ohio.gov](mailto:dave.morehart@epa.ohio.gov)  
Ed Fasko, Jana Gannon, Kevin Fortune, OEPA Northeast District, [ed.fasko@epa.ohio.gov](mailto:ed.fasko@epa.ohio.gov) ,  
[jana.gannon@epa.ohio.gov](mailto:jana.gannon@epa.ohio.gov) , [kevin.fortune@epa.ohio.gov](mailto:kevin.fortune@epa.ohio.gov)  
Sean Vadas, Kelly Kanoza, Duane LaClair, OEPA Akron regional Air Quality Management  
District, [svadas@schd.org](mailto:svadas@schd.org) , [kkanoza@schd.org](mailto:kkanoza@schd.org) , [dlaclair@schd.org](mailto:dlaclair@schd.org)  
Lindsay Taliaferro, Drinking and Groundwaters, UIC Program, OEPA,  
[Lindsay.taliaferro@epa.state.oh.us](mailto:Lindsay.taliaferro@epa.state.oh.us)  
John Kessler, P.E. Assistant Chief, Office of Real Estate, ODNR, [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us)  
Scudder D. Mackey, Chief, Ohio Coastal Management Program, ODNR,  
[scudder.mackey@dnr.state.oh.us](mailto:scudder.mackey@dnr.state.oh.us)  
Mark Epstein, Department Head, Resource Protection and Review, Ohio Office of Historic  
Preservation, [mepstein@ohiohistory.org](mailto:mepstein@ohiohistory.org)  
Andy Hartz, District Coordinator, Southeast Michigan District Office, Water Resources  
Division, MDEQ, [hartza@michigan.gov](mailto:hartza@michigan.gov)



Jennifer Vanportfleet, Wetlands, Water Resources Division, MDEQ  
[vanportfleetj@michigan.gov](mailto:vanportfleetj@michigan.gov)

Lori Sargent, Wildlife Division, MDNR, [sargentl@michigan.gov](mailto:sargentl@michigan.gov)

Michael A. Sanders, Rare Species Review Specialist, Natural Features Inventory, MDNR,  
[sander75@msu.edu](mailto:sander75@msu.edu)

Martha MacFarlane-Faes, Deputy State Historic Preservation Officer, Michigan Office of  
Historic Preservation, [FaesM@michigan.gov](mailto:FaesM@michigan.gov)

Brian D. Conway, State Historic Preservation Officer, Michigan Office of Historic Preservation,  
[conwayb1@michigan.gov](mailto:conwayb1@michigan.gov)

**EPA Scoping Comments**  
**For the Federal Energy Regulatory Commission (FERC)**  
**Notice of Intent (NOI)**  
**To Prepare an Environmental Impact Statement (EIS)**  
**For the Planned NEXUS Gas Transmission (NEXUS) Project in Ohio and Michigan and**  
**Texas Eastern Appalachian Lease (TEAL) Project in Ohio.**  
**(FERC Docket Nos. PF15-10-000 and PF15-11-000)**

**BACKGROUND**

In compliance with the National Environmental Policy Act of 1969 (NEPA), as amended, the Federal Energy Regulatory Commission (FERC) intends to prepare one Environmental Impact Statement (EIS) analyzing the impacts of both the NEXUS Gas Transmission (NEXUS) Project and the Texas Eastern Appalachian Lease (TEAL) Project. FERC's Notice of Intent (NOI) identifies the two projects are separate, but connected, interstate natural gas pipeline projects. NEXUS Gas Transmission, LLC (NEXUS) proposes to construct and operate NEXUS Project facilities in multiple counties in Michigan and Ohio. Texas Eastern Transmission, LP (Texas Eastern) proposes to construct and operate TEAL Project facilities in multiple counties in OH.

According to the NOI, the projects would provide up to 1.5 million dekatherms per day of natural gas to various market in the U.S. Midwest and Canada. The Project would tie into existing infrastructure and include capacity on existing pipeline systems to serve customers in Ohio and Michigan, as well as customers in Illinois (the Chicago area) and Ontario, Canada (the Dawn area). If approved NEXUS and Texas Eastern propose to commence construction in the first quarter 2017 and place facilities in service on November 1, 2017.

**PROJECT DESCRIPTIONS**

According to the NOI, NEXUS and Texas Eastern (the applicants) plan to construct and operate about 256 miles of interstate natural gas transmission pipeline and associated facilities in OH and MI.

NEXUS proposes to construct:

- about 200 miles of new 36-inch-diameter natural gas pipeline in Columbiana, Stark, Summit Wayne, Medina, Loraine, Erie, Sandusky, Wood, Lucas, and Fulton Counties, OH;
- about 50 miles of new 36-inch-diameter natural gas pipeline in Lenawee, Monroe, and Washtenaw Counties, MI;
- about 1.2 miles of new 36-inch-diameter interconnecting pipeline in Columbiana and Carroll Counties, OH;

- about 0.2 miles of new 30-inch-diameter interconnecting pipeline in Columbiana County, OH;
- install up to 130,000 horsepower (hp) of compression at four new gas turbine compressor stations, one each in Columbiana, Median, Sandusky, and Lucas Counties, OH;
- a total of 4 metering and regulation stations, three in Columbiana County, OH and one in Washtenaw County, MI; and
- various launchers, receivers, mainline valves, and other appurtenant facilities at assorted locations along the planned system in OH and MI.

Texas Eastern proposes to construct:

- about 4.5 miles of new 36-inch-diameter natural gas loop pipeline in Monroe County, OH;
- one new compressor station with 18,800 hp in Columbiana County, OH;
- additional 9,400 hp of compression and piping modifications at one existing compressor station (Colerain Compressor Station) in Belmont County, OH; and
- launchers, receivers, and various piping modifications at 2 existing regulating and receiver sites in Monroe County, OH.

## COMMENTS

**Additional Project components** – EPA is aware that interstate natural gas pipeline projects may include the construction and operation of communication towers and/or electricity supply lines.

Recommendation: In addition to the construction and operation of the pipelines, meter and regulator stations, compressor stations, inspection tools (e.g., smart pigs) launching/receiving facility locations and mainline valves facilities, we recommend the EIS identify and assess impacts associated with any Project-related electricity transmission lines, communication towers, access roads, contractor supply and staging yards and horizontal directional drill (HDD) facility locations that are needed for construction and/or operation of the Project.

**Pipeline Capacity** – The NOI indicates that the projects would provide up to 1.5 million dekatherms per day of natural gas to various market in the U.S. Midwest and Canada. The NOI does not disclose the amount of the 1.5 million dekatherms per day that each customer service area (i.e., Ohio and Michigan, Illinois (the Chicago area) and Ontario, Canada (the Dawn area) would receive.

Recommendation: We recommend the EIS compare the proposed amount of natural gas to be transported by the Project in a way that a typical layperson can relate to. For example, it may be helpful

to provide an estimate of the number of typical 3-bedroom homes that could be heated during one typical 24-hour winter day in the Great Lakes Region to the proposed amount (Bcf/d) of natural gas proposed to be carried by the Project

**Operating lifetime of the proposed Project** – The NOI does not disclose the NEXUS or TEAL Projects' expected operating lifetime.

Recommendation: We recommend the EIS identify the expected operating lifetime of the NEXUS and TEAL Projects, and discuss what typically happens to an interstate natural gas pipeline and its components once they reach the end of their expected lifetime and/or are no longer needed. We recommend the EIS identify the measures FERC requires interstate natural gas pipeline owners have in place to ensure that a proposed pipeline will be operated and decommissioned in a timely manner that protects human health and the environment.

**Project Alternatives** – The NOI does not identify the project alternatives that would be evaluated in the EIS.

Recommendations: We recommend the alternatives analysis discussion include consideration of the feasibility of using excess capacity in existing pipelines, other proposed interstate natural gas pipelines (e.g., Rover Pipeline), and/or using existing facility locations and rights of way.

**Affected Environment (MI/OH)** – To explain the proposal's impacts on various resources, the EIS will need to include a detailed characterization of the affected environments in MI and OH.

Recommendations: We recommend the EIS include detailed descriptions of the resources in the study areas for the proposed pipeline, associated facilities, access roads, contractor supply and staging areas, any needed communication towers, electricity supply lines, and existing and proposed new compressor and meter stations, supported with photos and figures/maps. The figures and maps should depict the various alternative pipeline routes, facilities and facility components in relation to the study area resources. Existing and proposed pipelines and other utility corridors in the study area should also be clearly identified and delimited in EIS figures.

**Clean Water Act (CWA) Section 404 permits and compliance with CWA Section 404(b)(1) Guidelines** – The proposal will need a Clean Water Act (CWA) Section 404 permit from the U.S. Army Corps of Engineers (Corps) and in Michigan, from the Michigan Department of Environmental Quality, which has assumed the Section 404 program. Mitigation requirements under 40 CFR Section 230 address the replacement of unavoidable losses of wetland functions and values.

Recommendations: We recommend the EIS contain a level of information and analysis adequate to support compliance with the CWA, Section 404(b)(1) Guidelines, including alternatives and mitigation sequencing requirements (first avoid, then minimize, and finally compensate for those impacts that cannot be avoided or minimized). Direct, indirect and cumulative impacts analysis should be included

in the EIS. If mitigation banking is proposed, we recommend providing details of the proposed mitigation bank/s in the EIS.

**Surface Water and Groundwater Quality/Quantity** – The EIS will need to clearly describe water bodies, streams and ground water resources within the analysis areas.

Recommendations (Impaired Waters/401 Certification/TMDLs): Impacts of the various alternatives on water quality should address, but not be limited to, a water body's designated use and compliance with MI and OH, Water Quality Standards and CWA, Section 401 Water Quality Certifications. The EIS should also identify whether or not water bodies located in the various proposed project areas are listed by a state as impaired, and, if so, are part of a Total Maximum Daily Load (TMDL) plan. If impaired waters are identified, the EIS should identify the impairment/s and the reason/s for the impairment/s. The Project's impacts on TMDLs should be analyzed and disclosed in the EIS, and mitigation identified.

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Recommendations (NPDES 402 Discharge Permits/402 Construction Permits/Hydrostatic Testing): The EIS should identify and discuss whether National Pollution Discharge Elimination System (NPDES) Clean Water Act Section 402 direct discharge and/or storm water construction permits may be required. We recommend the permitting agency and contact information for each state, as applicable, be disclosed in the EIS.

Recommendations (Hydrostatic Testing - Additives, Erosion/Sediment Control and Aquatic Nuisance/Invasive Species): We recommend the EIS disclose whether hydrostatic testing will be undertaken for the proposed pipelines. If applicable, details of testing methods should be included. We recommend the EIS identify the potential source waters, locations and amounts of water proposed for each hydrostatic test and proposed discharge locations. We recommend the EIS identify the types of chemical additives that may be used in hydrostatic testing and how these chemicals would be treated and properly disposed. We recommend disclosing potential impacts to water resources from erosion and/or spread of aquatic nuisance species associated with hydrostatic testing. We also recommend the EIS identify mitigation measures to protect upland and aquatic resources.

**Hazardous Materials** – Events such as construction equipment spills of hazardous or toxic materials could result in substantial adverse impacts to surface and ground water quality and aquatic habitats. The construction and operation of pipelines and their associated facilities can generate used oils and solvents from maintenance of compressors, and releases of fuel oils and other material stored onsite.

Recommendations: We recommend the EIS discuss the frequency or likelihood of such events, and describe spill prevention and spill and release response capabilities. We also recommend appropriate state-identified and FERC-identified Best Management Practices (BMPs) to reduce potential non-point sources of pollution from project proposed activities be designed into the project and identified in the EIS. We recommend the EIS describe these spill prevention measures and capabilities, along with any necessary emergency plan or mitigation of spills in emergencies for all sections of the pipeline and all construction and use phases of the pipeline's life.

Recommendations: We recommend the EIS identify whether the operator has a waste minimization plan for pipeline construction and operation and identify the measures in the plan that will be used to reduce uncontrolled releases of hazardous materials, such as the use of drip pans for compressors, and reduction of construction waste, including waste resulting from spraying of the pipe.

**Air Quality** – Impacts to air quality can occur from construction and operation of a natural gas pipeline and associated facilities. For example, air quality impacts may occur from the operation and maintenance of compressor stations required to push gases through pipe bores over considerable distances. Such risks include releases of oxides of nitrogen, metals, formaldehyde and BETX (benzene, ethyl benzene, toluene and xylenes) from combustion-powered compressors. The protection of air quality should be addressed in the EIS.

Recommendations (NAAQS, Hazardous Air Pollutants): The EIS should identify and discuss the potential impacts to air quality from construction and operation of the proposed project. The air quality analysis should address and disclose the project's potential effect on: 1) all criteria pollutants under the National Ambient Air Quality Standards (NAAQS), including ozone; 2) any significant concentrations of hazardous air pollutants; and 3) protection of public health. Mitigation measures should be identified. We recommend the project proponents pursue opportunities to use clean diesel equipment, vehicles and fuels in construction of the project, and that FERC identify and disclose any opportunities to utilize these measures in the EIS.

Recommendations (Permits): We recommend the EIS identify the state agencies and the agency contact information for the various air permits that may be required for operation of the Project, such as operation of new compressor stations.

**Indirect effects** – Both FERC and the Department of Energy (DOE) have recognized that an increase in natural gas exports will result in increased production.<sup>1</sup> However, FERC has concluded in previous NEPA analyses that the nature of natural gas supply and the pipeline system in the U.S. makes it difficult to predict accurately where the additional gas development activity will occur and thus concluded that it is not feasible to more specifically evaluate localized environmental impacts. DOE has released a study by the National Energy Technology Laboratory (NETL), entitled “Addendum to Environmental Review Documents Concerning Exports of Natural Gas from the United States<sup>2</sup>”. We note that NETL recognizes that many of the potential impacts will vary considerably by location depending where the production occurs due to differences in hydrology, geology, ecology, air quality, regulatory structure and other factors. Nonetheless, the Addendum provides the kind of conceptual level analysis of the types of impacts that are likely to occur from increased production.

Recommendations: We recommend the EIS consider the potential for increased natural gas production as a result of exporting natural gas through the NEXUS and TEAL Projects and the potential for environmental impacts associated with these potential increases. We recommend that the NETL study be considered as part of the decision making for this project and incorporated by reference in the EIS.

**Greenhouse gas emissions** – Previous FERC NEPA analyses have included a helpful discussion of the greenhouse gas (GHG) emissions associated with construction of the project, and annual emissions from the operation of the project. In addition to operational and construction emissions, there are also GHG emissions associated with the production, transport, and combustion of the natural gas that should be considered in the EIS. Because of the global nature of climate change, even where the ultimate end use

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<sup>1</sup> Effect of Increased Natural Gas Exports on Domestic Energy Markets, as requested by the Office of Fossil Energy. US Energy Information Administration. January 2012 ([http://energy.gov/sites/prod/files/2013/04/f0/fe\\_eia\\_lng.pdf](http://energy.gov/sites/prod/files/2013/04/f0/fe_eia_lng.pdf)) and Cameron LNG EIS, Appendix L (Response to Comments), p. L-36 (<http://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13530753>)

<sup>2</sup> Addendum to Environmental Review Documents Concerning Exports of Natural Gas from the United States. DOE. ([http://energy.gov/sites/prod/files/2014/05/f16/Addendum\\_0.pdf](http://energy.gov/sites/prod/files/2014/05/f16/Addendum_0.pdf))

of the natural gas occurs outside the US, additional greenhouse gas emissions attributable to the project would affect the US. Consistent with NEPA and CEQ regulations, because any such emissions contribute to climate change impacts in the US, it is appropriate to consider and disclose them in the EIS due to their reasonably close causal relationship to the project.

DOE has recently issued two documents that are helpful in assessing the GHG emissions implications of the project. They are the Addendum mentioned above, and NETL's recent report, entitled "Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States"<sup>3</sup>. While these reports focused specifically on Liquefied Natural Gas exports, they provide a helpful overview of GHG emissions from all stages of a project, from production through transmission and combustion. The GHG report also includes comparative analysis of GHG emissions associated with other domestic fuel sources and natural gas exports as they relate to other possible fuel sources in receiving regions. This information is helpful to decision makers in reviewing the foreseeable GHG emissions associated with the increased production and export of natural gas and how they compare to other possible fuels.

Recommendations: We recommend including GHG emissions associated with construction and annual emissions from operation in this DEIS. EPA also recommends both DOE reports be considered as part of the decision making process for this project and incorporated by reference in the EIS. FERC may also want to consider adapting this analysis to more specifically consider the GHG implications of the project. In addition, we recommend that the NEPA analysis address the appropriateness of considering changes to the design of the proposal to incorporate GHG reduction measures and resilience to foreseeable climate change. The draft and final EIS should make clear whether commitments have been made to ensure implementation of design or other measures to reduce GHG emissions or to adapt to climate change impacts.

**Methane Leakage** – 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.<sup>4</sup>

Recommendation: We recommend that the EIS describe best management practices that will be adopted to reduce leakage of methane associated with operation of the facility.

#### Climate Change Adaptation

Recommendations: EPA recommends that the DEIS include a discussion of reasonably foreseeable climate change that may affect the project over its lifetime in the "affected environment" section. If appropriate, EPA also suggests that the DEIS discuss any reasonable design alternatives that would enhance the project's preparedness and resilience to climate change effects.

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<sup>3</sup> Life Cycle Greenhouse Gas Perspective on Exporting Liquefied Natural Gas from the United States. DOE/NETL-2014/1649 (<http://energy.gov/fe/life-cycle-greenhouse-gas-perspective-exporting-liquefied-natural-gas-united-states>)

<sup>4</sup> [http://www.epa.gov/gasstar/methaneemissions/onshore\\_transmission\\_storage.html](http://www.epa.gov/gasstar/methaneemissions/onshore_transmission_storage.html)



**Noise** – Construction and/or operational activities from the pipeline and associated facilities, such as compressor stations, may cause an increase in local noise levels. Mitigation measures may include, but are not limited to, the use of noise barriers and sound-proofing structures, the placement of trees and shrubs, and the use of equipment that emit the lowest levels of noise possible.

Recommendations: We recommend the EIS identify and discuss the sources of short-term and long-term noise pollution and the mitigation measures that will be implemented.

**Community, Social and Economic Impacts** – There may be impacts to communities as well as social or economic impacts as a result of the construction and operation of the pipeline.

Recommendation: We recommend the EIS identify and address the social and economic impacts this project may have on communities. This would include, but is not limited to, identifying the number of outside workers that would be brought in to construct the project and duration of proposed construction and/or modification activities in the various communities. Impacts to roads due to project-related heavy equipment use and any extra law enforcement that may be necessary to maintain law and order.

**Environmental Justice (EJ) and Sensitive Receptors** – There may be environmental justice communities or other sensitive receptor locations (e.g., schools, day care centers, hospitals, etc.) near the proposed pipelines and associated facilities (e.g., compressor stations).

Recommendation: We recommend the EIS identify these communities and locations and if applicable, identify and evaluate the impacts of this proposal on them. This might include, but is not limited to, an assessment of risk of exposure to hazardous/toxic materials associated with pipeline and facility construction and operation, and air quality and noise impacts due to operation and/or modification of compressor station locations. We recommend identifying mitigation measures in the EIS.

**Pipeline System Safety** – The NOI identifies that the EIS will discuss public safety.

Recommendation: We recommend the EIS identify the maximum safe operating pressure or the proposed NEXUS pipeline and the pipelines it will be connecting to. The EIS should disclose the maximum volume of natural gas that can be safely transmitted in each of the pipelines and associated facilities that make up the Project. In addition, we recommend the EIS disclose the response times and capabilities of the emergency responders in the various communities along the proposed route to adequately respond to a major pipeline explosion/fire. Mitigation measures, such as NEXUS committing to fund training, staffing, and/or equipment for local emergency medical providers and/or firefighters should be identified in the EIS.

**Biological Resources, Habitat and Wildlife** – This proposed long linear pipeline project would impact a variety of habitats, including but not limited to, high quality wetlands, streams, forests and other habitats. The EIS should disclose how the proposed route and route variations/options have avoided impacts to these resources. Of particular concern are various resources found within the Oak Openings

and Singer Lake Bog areas in Ohio.

Recommendation (Baseline Information): We recommend the EIS provide baseline conditions of the habitats and populations of the covered species. It appears that substantial area of forest land would be converted into maintained pipeline right-of-way. Forests provide valuable habitat for wildlife and protect surface water and ground water quantity and quality, in part, by providing soil stabilization in a watershed. Core forest provides valuable breeding, feeding and resting areas for forest interior dwelling birds. In addition, trees capture and store carbon, keeping it out of the atmosphere where it contributes to accelerating climate change.

Recommendations (forests): We recommend the EIS assess and disclose impacts to the various habitats associated with the proposal. Assessment of impacts to forest should include but not be limited to disclosing the locations and the amount of forest fragmentation/forest edge produced and the amount of core forest that would be lost for each alternative evaluated in the EIS. If possible, we recommend alternatives be located to avoid forest fragmentation and loss of core forest. Where impacts cannot be avoided and minimized, EPA recommends the project proponents undertake voluntary mitigation for tree loss that is due to their proposal. We recommend a 1:1 replacement with native saplings in the watershed where the tree loss takes place.

Recommendation (petitioned, listed threatened and endangered species): We recommend that the EIS identify all petitioned and listed threatened and endangered species and critical habitat that might occur in the project area, and identify and quantify which species or critical habitat might be directly, indirectly, or cumulatively affected by each alternative and mitigate impacts to these species. In addition to FERC consulting with the U.S. Fish and Wildlife Service, we also recommend FERC coordinate with the various state agencies in MI and OH to ensure that current and consistent surveying, monitoring, and reporting protocols are applied in protection and mitigation efforts.

**Noxious Weeds and Exotic Species** – The spread of noxious weeds and exotic (non-indigenous) plants is a threat to biodiversity. Many noxious weeds can out-compete native plants and produce a monoculture that has little or no plant species diversity or benefit to wildlife. Noxious weeds tend to gain a foothold where there is disturbance in the ecosystem. Studies show that new roads and pipeline/utility rights of way can become pathways for the spread of invasive plants. Early recognition and control of new infestations is essential to stopping the spread of infestation and avoiding future widespread use of herbicides, which could correspondingly have more adverse impacts on biodiversity and nearby water quality.

Recommendations: We recommend that a vegetation management plan be prepared and included in the EIS to address control of such plant intrusions during construction and operation. The plan should list the noxious weeds and exotic plants that occur in the resource areas. In cases where noxious weeds are a threat, EPA recommends the document detail a strategy for prevention, early detection of invasion, and control procedures for each species.

Document Content(s)

EPAscopingLTR-DocketsPF15-10andPF15-11.PDF.....1-12

**STATE OF OHIO**

**Agency Correspondence**

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6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

September 18, 2014

John Kessler  
Ohio Department of Natural Resources  
2045 Morse Rd, BLDG. G-3  
Columbus, Ohio 43229-6693

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses approximately 199-miles through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton. NEXUS is investigating a study corridor as generally depicted on attached Figure 1.

Initial review of the potential pipeline corridor indicated that rare, threatened and/or endangered species may be present based on published county lists. Table 1 is attached and lists the rare, threatened and endangered species that have been previously identified in the counties traversed by the pipeline corridor. On behalf of NEXUS, TRC is requesting the assistance of Ohio Department of Natural Resources (“ODNR”) to determine if any of these species are known to occur within the one-mile wide area under investigation. This information will assist us in determining a route to potentially avoid and minimize disruption to sensitive habitat and determine potential seasonal or species specific surveys that maybe required during permitting of the Project. Any further comments or survey guidance regarding rare, threatened, endangered or other important species is also welcomed.

TRC is also requesting any other applicable information from the ODNR such as state land and parkland locations along the Project corridor.

To help facilitate the consultation process with various departments within the ODNR, TRC requests a meeting to discuss the general scope of the proposed Project and the consultation

process with the ODNR moving forward. This meeting will be the first of many opportunities to participate in the development and review of these projects. We will be contacting you soon and hope to schedule this meeting within the next month. Additional information such as a GIS SHP files of the Project study corridor to aid in the review of the Project can also be provided at that time.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Angela Gardner, TRC

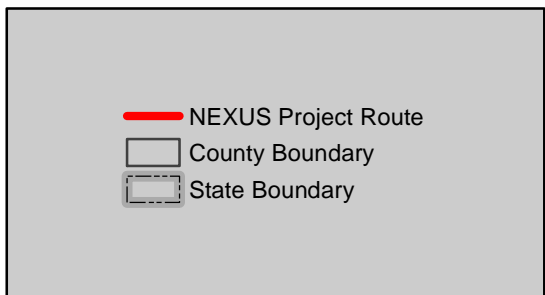


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

Table of Rare, Threatened, and Endangered Species to the State of Ohio With Occurrences in Counties Traversed by NEXUS

Common Name	Scientific Name	Columbiana	Stark	Summit	Wayne	Medina	Lorain	Erie	Sandusky	Wood	Lucas	Fulton
<b>Fish and Wildlife Species</b>												
Sharp-shinned Hawk	<i>Accipiter striatus</i>	SC		SC							SC	
Lake Sturgeon	<i>Acipenser fulvescens</i>						E	E			E	
Eastern Cricket Frog	<i>Acris crepitans</i>							SC		SC	SC	
Canada Darner	<i>Aeshna canadensis</i>										E	
Bachman's Sparrow	<i>Aimophila aestivalis</i>										X	
Blue-spotted Salamander	<i>Ambystoma laterale</i>										E	
Henslow's Sparrow	<i>Ammadramus henslowii</i>	SC										
Eastern Sand Darter	<i>Ammocrypta pellucida</i>									SC		
Green-winged Teal	<i>Anas crecca</i>			SI					SI		SI	
Gadwall	<i>Anas strepera</i>								SI		SI	
Seepage Dace	<i>Argia bipunctulata</i>		E									
Redhead	<i>Aythya americana</i>										SI	
Upland Sandpiper	<i>Bartramia longicauda</i>			E			E	E	E	E	E	
Silver-bordered Fritillary	<i>Boloria selene</i>										T	
American Bittern	<i>Botaurus lentiginosus</i>	E		E	E						E	
Cattle Egret	<i>Bubulcus ibis</i>										E	
Great Egret	<i>Casmerodius albus</i>										SC	
Hermit Thrush	<i>Catharus guttatus</i>			SI			SI					
Graceful Underwing	<i>Catocala gracilis</i>			E								
Longnose Sucker	<i>Catostomus catostomus</i>							E				
Lark Sparrow	<i>Chondestes grammacus</i>										E	E
Tiger Beetle	<i>Cicindela hirticollis hirticollis</i>							T				
Northern Harrier	<i>Circus cyaneus</i>									E		
Black Tern	<i>Chlidonias niger</i>			E					E		E	
Sedge Wren	<i>Cistothorus platensis</i>			SC	SC		SC	SC	SC		SC	
Spotted Turtle	<i>Clemmys gutta</i>	T	T	T			T	T			T	
Kirtland's Snake	<i>Clonophis kirtlandii</i>				T			T			T	
Star-nosed Mole	<i>Condylura cristata</i>			SC								
Tiger Spiketail	<i>Cordulegaster erronea</i>	SC				SC						
Eastern Hellbender	<i>Cryptobranchus alleganiensis</i>	E										
Purple Wartyback	<i>Cyclonaias tuberculata</i>										SC	
Unexpected Cynia	<i>Cycnia inopinatus</i>										E	
Cerulean Warbler	<i>Dendroica cerulea</i>				SC							
Magnolia Warbler	<i>Dendroica magnolia</i>					SI	SI					
Bobolink	<i>Dolichonyx oryzivorus</i>				SC							
Racket-tailed Emerald	<i>Dorocordulia libera</i>			E								
Loggerhead Shrike	<i>E</i>											
Snowy Egret	<i>Egretta thula</i>										E	
Blanding's Turtle	<i>Emydoidea blandingii</i>						T		T		T	T
Boreal Bluet	<i>Enallagma boreale</i>			T								
Marsh Bluet	<i>Enallagma ebrium</i>			T								
Lake Chubsucker	<i>Erimyson sucetta</i>			T	T							
Muskellunge	<i>Esox masquinongy</i>								SC	SC	SC	
Iowa Darter	<i>Etheostoma exile</i>		E	E								
Two-spotted Skipper	<i>Euphyes bimacula</i>						SC					



Persius Dusky Wing	<i>Eynnys persius</i>											E	
Peregrine Falcon	<i>Falco peregrinus</i>		T	T				T				T	
Western Banded Killifish	<i>Fundulus diaphanus menona</i>			E					E	E			
Wilson't Snipe	<i>Gallinago delicata</i>	SI		SI				SI				SI	
Harlequin Darner	<i>Gomphaeschna furcillata</i>			T									
Plains Clubtail	<i>Gomphus externus</i>											E	
Sandhill Crane	<i>Grus canadensis</i>							E					
Bald Eagle	<i>Haliaeetus leucocephalus</i>	F	F	F	F	F	F	F	F	F	F	F	
Four-toed Salamander	<i>Hemidactylium scutatum</i>		SC	SC	SC			SC			SC		SC
Frosted Elfin	<i>Incisalia irus</i>											E	
Least Bittern	<i>Ixobrychus exilis</i>			T	T							T	
Dark-eyed Junco	<i>Junco hyemalis</i>			SI									
Chalk-fronted Corporal	<i>Ladona julia</i>			E								E	
Wavy-rayed Lampmussel	<i>Lampsilis fasciola</i>	SC						SC					
Creek Heelsplitter	<i>Lasmigona compressa</i>	SC			SC			SC			SC	SC	
Frosted Whiteface	<i>Leucorrhinia frigida</i>											E	
Eastern Pondmussel	<i>Ligumia nasuta</i>							E		E		E	
Black Sandshell	<i>Ligumia recta</i>							T				T	
Brown Pinion	<i>Lithophane semiusta</i>												E
Karner Blue Butterfly	<i>Lycaeides melissa samuelis</i>											E	
Purplish Copper	<i>Lycaena helloides</i>											E	
Bobcat	<i>Lynx rufus</i>			T									
River Redhorse	<i>Moxostoma carinatum</i>									SC	SC		
Greater Redhorse	<i>Moxostoma valenciennesi</i>								T			T	T
Indiana bat	<i>Myotis sodalis</i>			E	E	E							
Elfin Skimmer	<i>Nannothemis bella</i>			E									
Bigmouth Shiner	<i>Notropis dorsalis</i>						T	T					
Blackchin Shiner	<i>Notropis heterodon</i>		X										
Blacknose Shiner	<i>Notropis heterolepis</i>						X				X		
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>											T	
Threehorn Wartyback	<i>Obliquaria reflexa</i>							T		T	T	T	
Smooth Greensnake	<i>Opheodrys vernalis</i>			SC	SC								
Riffle Snaketail	<i>Ophiogomphus carolus</i>	T			T								
Mourning warbler	<i>Oporornis philadelphia</i>			SO									
Pugnose Minnow	<i>Opsopoeodus emiliae</i>			E									
Ruddy Duck	<i>Oxyura jamaicensis</i>			SI								SI	
Eastern Foxsnake	<i>Pantherophis gloydi</i>									SC		SC	
Channel Darter	<i>Percina copelandi</i>	T						T				T	
Round Pigtoe	<i>Pleurobema sintoxia</i>											SC	
Paddlefish	<i>Polyodon spathula</i>			T									
Sora Rail	<i>Porzana carolina</i>	SC		SC	SC					SC		SC	
Prothonotary Warbler	<i>Protonotaria citrea</i>			SC	SC							SC	
Caddisfly	<i>Psilotreta indecisa</i>	T											
King Rail	<i>Rallus elegans</i>											E	
Virginia Rail	<i>Rallus limicola</i>	SC		SC	SC					SC	SC	SC	
Eastern Massasauga	<i>Sistrurus catenatus</i>	E								E		E	
Brush-tipped emerald	<i>Somatochlora walshii</i>		E	E									
Mayfly	<i>Stenonema ithaca</i>	SC											

Common Tern	<i>Sterna hirundo</i>											E	
Western Meadowlark	<i>Sturnella neglecta</i>		SI						SI				
Badger	<i>Taxidea taxus</i>												SC
Eastern Box Turtle	<i>Terrapene carolina</i>				SC							SC	
Bewick's Wren	<i>Thryomanes bewickii</i>											E	
Winter Wren	<i>Troglodytes troglodytes</i>		SI		SI								
Fawnsfoot	<i>Truncilla donaciformis</i>								T			T	
Deertoe	<i>Truncilla truncata</i>								SC	SC		SC	
Barn owl	<i>Tyto alba</i>		T			Tr		T					
Folded Satyr	<i>Ufeus plicatus</i>												E
Golden-winged Warbler	<i>Vermivora chrysoptera</i>				X			X				X	
Rayed Bean	<i>Villosa fabalis</i>											E	
Canada Warbler	<i>Wilsonia canadensis</i>		SI		SI			SI					
<b>Plants</b>													
Northern Monkshood	<i>Aconitum noveboracense</i>				E								
American Sweet-flag	<i>Acorus americanus</i>		P				P		P	P			
Red Baneberry	<i>Actaea rubra</i>											T	
Mountain-fringe	<i>Adlumia fungosa</i>		T		T								
Gattinger's-foxtail	<i>Agalinis gattingeri</i>											T	
Small Purple-foxtail	<i>Agalinis purpurea var. parviflora</i>				E								
Skinner's-foxtail	<i>Agalinis skinneriana</i>										E	E	
Rock Serviceberry	<i>Amelanchier sanguinea</i>										T	T	
American Beach Grass	<i>Ammophila breviligulata</i>								T			T	
Western Rock-jasmine	<i>Androsace occidentalis</i>										E	E	E
Prairie Thimbleweed	<i>Anemone cylindrica</i>								T		T	T	T
Shale Barren Pussy-toes	<i>Antennaria virginica</i>		T										
Lyre-leaved Rock Cress	<i>Arabidopsis lyrata</i>		E								E	E	
Southern Hairy Rock Cress	<i>Arabis pycnocarpa var. adpressipilis</i>		P		P				P		P	P	
Western Hairy Rock Cress	<i>Arabis pycnocarpa var. pycnocarpa</i>								X	X			X
False Arrow-feather	<i>Aristida necopina</i>											E	
Purple Triple-awned Grass	<i>Aristida purpurascens</i>								P			P	P
Beach Wormwood	<i>Artemisia campestris</i>								T			T	
Blunt-leaved Milkweed	<i>Asclepias amplexicaulis</i>											P	P
Canada Milk-vetch	<i>Astragalus canadensis</i>											T	
Prairie Fern-leaved False Foxglove	<i>Aureolaria pedicularia var. ambigens</i>										E	E	
Prairie False Indigo	<i>Baptisia lactea</i>						P		P				
Twisted Teeth Moss	<i>Barbula indica</i>								E				
Swamp Birch	<i>Betula pumila</i>				T								
Limestone Rock Cress	<i>Boechera grahamii</i>											X	
Missouri Rock Cress	<i>Boechera missouriensis</i>											E	
Drummond's Rock Cress	<i>Boechera stricta</i>											E	
Leathery Grape Fern	<i>Botrychium multifidum</i>		E									E	
Least Grape Fern	<i>Botrychium simplex</i>											E	
Prairie Brome	<i>Bromus kalmii</i>											P	P
Bug-on-a-stick	<i>Buxbaumia aphylla</i>				T								
Limestone Savory	<i>Calamintha arkansana</i>								T	T		T	T
Wild Calla	<i>Calla palustris</i>			P	P								
Vernal Water-starwort	<i>Callitriche verna</i>		T			T							

Grass-pink	<i>Calopogon tuberosus</i>				T	T				T			T	
American Cuckoo-flower	<i>Cardamine pratensis var. palustris</i>				X									
Broad-winged Sedge	<i>Carex alata</i>				P	P				P				P
Pale Straw Sedge	<i>Carex albolutescens</i>	P			P				P					P
Northern Fox Sedge	<i>Carex alopecoidea</i>													E
Leafy Tussock Sedge	<i>Carex aquatilis</i>									T				T
Drooping Wood Sedge	<i>Carex arctata</i>				E									
Silvery Sedge	<i>Carex argyrantha</i>				T									
Wheat Sedge	<i>Carex atherodes</i>				P					P		P	P	P
Howe's Sedge	<i>Carex atlantica ssp. Capillacea</i>			T	T				T					
Golden-fruited Sedge	<i>Carex aurea</i>				P					P	P	P	P	P
Bebb's Sedge	<i>Carex bebbii</i>			P	P					P			P	P
Bicknell's Sedge	<i>Carex bicknellii</i>									T		T	T	
Tufted Fescue Sedge	<i>Carex brevior</i>									P				P
Brownish Sedge	<i>Carex brunnescens</i>				E									
Bush's Sedge	<i>Carex bushii</i>				T									
Thin-leaved Sedge	<i>Carex cephaloidea</i>				P	P								P
Field Sedge	<i>Carex conoidea</i>											T	T	T
Raven-foot Sedge	<i>Carex crus-corvi</i>												T	
Little Yellow Sedge	<i>Carex cryptolepis</i>									P				P
Lesser Panicked Sedge	<i>Carex diandra</i>				T									
Two-seeded Sedge	<i>Carex disperma</i>				E									
Yellow Sedge	<i>Carex flava</i>			P	P									
Handsome Sedge	<i>Carex formosa</i>												E	
Garber's Sedge	<i>Carex garberi</i>									E				
Slender Sedge	<i>Carex lasiocarpa</i>	P			P	P				P				P
Slender Sedge	<i>Carex lasiocarpa</i>			P					P					
Mud Sedge	<i>Carex limosa</i>									E				
Long's Sedge	<i>Carex longii</i>													E
Fire Sedge	<i>Carex lucorum</i>													E
Fernald's Sedge	<i>Carex merritt-fernaldii</i>													E
Midland Sedge	<i>Carex mesochorea</i>				T					T				
Few-Seeded Sedge	<i>Carex oligosperma</i>			T	T									
Pale Sedge	<i>Carex pallescens</i>				P									
Necklace Sedge	<i>Carex projecta</i>	T			T					T	T			
Northern Bearded Sedge	<i>Carex pseudocyperus</i>													E
Reflexed Bladder Sedge	<i>Carex retrorsa</i>													E
Hay Sedge	<i>Carex siccata</i>													E
Sprengel's Sedge	<i>Carex sprengelii</i>													T
Straw Sedge	<i>Carex straminea</i>	P			P					P	P			
Little Green Sedge	<i>Carex viridula</i>				T					T	T			T
Leather-leaf	<i>Chamaedaphne calyculata</i>			P	P									
Pipsissewa	<i>Chimaphila umbellata</i>	T			T									T
Northern Wood-reed	<i>Cinna latifolia</i>				E									T
Speckled Wood-lily	<i>Clintonia umbellata</i>	T			T									
Long-bracted Orchid	<i>Coeloglossum viride</i>									E				E
Sweet-fern	<i>Comptonia peregrina</i>													E
Bushy Horseweed	<i>Conyza ramosissima</i>									P	P	P	P	P

Spotted Coral-root	<i>Corallorhiza maculata</i>		P	P	P		P	P				
Early Coral-root	<i>Corallorhiza trifida</i>			E								
Bunchberry	<i>Cornus canadensis</i>			E								
Round-leaved Dogwood	<i>Cornus rugosa</i>			P			P	P			P	
Rock-harlequin	<i>Corydalis sempervirens</i>	T		T			T				T	
Northern Croton	<i>Croton glandulosus</i>										T	
Five-angled Dodder	<i>Cuscuta pentagona</i>									T		E
Pale Umbrella-sedge	<i>Cyperus acuminatus</i>										P	
Low Umbrella-sedge	<i>Cyperus diandrus</i>	P		P				P	P		P	
Schweinitz' Umbrella-sedge	<i>Cyperus schweinitzii</i>							T			T	
White's Lady's-slipper	<i>Cypripedium candidum</i>							E	E			
Showy Lady's-slipper	<i>Cypripedium reginae</i>			T								
Tennessee Bladder Fern	<i>Cystopteris tennesseensis</i>	P										
Tufted Hair Grass	<i>Deschampsia cespitosa</i>			P								
Crinkled Hair Grass	<i>Deschampsia flexuosa</i>				P							
Tansy Mustard	<i>Descurainia pinnata</i>							P	P	P	P	P
Prairie Tick-trefoil	<i>Desmodium illinoense</i>	X									X	
Sessile Tick-trefoil	<i>Desmodium sessilifolium</i>										T	T
Northern Panic Grass	<i>Dichanthelium boreale</i>				P			P			P	P
Commons' Panic Grass	<i>Dichanthelium commonsianum</i>										E	
Leiberg's Panic Grass	<i>Dichanthelium leibergii</i>									T		
Lindheimer's Panic Grass	<i>Dichanthelium lindheimeri</i>							T			T	
Southern Hairy Panic Grass	<i>Dichanthelium meridionale</i>				T			T			T	
Long-panicled Panic Grass	<i>Dichanthelium perlongum</i>										E	
Early Panic Grass	<i>Dichanthelium praecocius</i>										E	E
Narrow-headed Panic Grass	<i>Dichanthelium spretum</i>										E	
Carolina Whitlow-grass	<i>Draba reptans</i>							T			T	
Sphulcate-leaved Sundew	<i>Drosera intermedia</i>										E	
Male Fern	<i>Dryopteris filix-mas</i>				E							
Flat-stemmed Spike-rush	<i>Eleocharis compressa</i>							P		P	P	
Engelmann's Spike-rush	<i>Eleocharis engelmannii</i>										E	
Green Spike-rush	<i>Eleocharis flavescens</i>				T							
Caribbean Spike-rush	<i>Eleocharis geniculata</i>							E				
Ovate Spike-rush	<i>Eleocharis ovata</i>							E				
Few-Flowered Spike-rush	<i>Eleocharis quinqueflora</i>				T							
Slender Spike-rush	<i>Eleocharis tenuis</i>	T			T			T			T	
Green Spike-rus	<i>Eleocharis flavescens</i>				T			T				
Bearded Wheat Grass	<i>Elymus trachycaulus</i>				T						T	
Fireweed	<i>Epilobium angustifolium</i>		E								E	
Simple Willow-herb	<i>Epilobium strictum</i>	T	T	T								
Woodland Horsetail	<i>Equisetum sylvaticum</i>				P		P					
Variagated Scouring-rush	<i>Equisetum variegatum</i>				E						E	
Tawny Cotton-grass	<i>Eriophorum virginicum</i>			T	T	T						
Green Cotton-grass	<i>Eriophorum viridicarinaratum</i>			P	P							
Rattlesnake-master	<i>Eryngium yuccifolium</i>										P	
Seaside Spurge	<i>Euphorbia polygonifolia</i>							P	P		P	
Great Lakes Goldenrod	<i>Euthamia remota</i>								T		T	
Mountain Bindweed	<i>Fallopia cilinodis</i>				E							

Bog Bedstraw	<i>Galium labradoricum</i>	T	T										
Prairie Gentian	<i>Gentiana puberulenta</i>										E	E	
Soapwort Gentian	<i>Gentiana saponaria</i>											E	
Fringed Gentian	<i>Gentianopsis crinita</i>			P				P				P	P
Small Fringed Gentian	<i>Gentianopsis procera</i>		P	P				P				P	P
Bicknell's Crane's-bill	<i>Geranium bicknellii</i>											E	
Water Avens	<i>Geum rivale</i>			P									
Sharp-glumed Manna Grass	<i>Glyceria acutiflora</i>		P	P				P					
Round-fruited Hedge-hyssop	<i>Gratiola virginiana</i>								T				
Common Oak Fern	<i>Gymnocarpium dryopteris</i>	E						E	E			E	
Rough Pennyroyal	<i>Hedeoma hispida</i>								P	P	P	P	P
Plains Frostweed	<i>Helianthemum bicknellii</i>			P					P		P	P	P
Canada Frostweed	<i>Helianthemum canadense</i>			T							T	T	
Ashy Sunflower	<i>Helianthus mollis</i>								T				
Porcupine Grass	<i>Hesperostipa spartea</i>										E	E	E
Long-bearded Hawkweed	<i>Hieracium longipilum</i>												E
Canada Hawkweed	<i>Hieracium umbellatum</i>										T	T	
Beach-heather	<i>Hudsonia tomentosa</i>											X	
Northern St. John's-wort	<i>Hypericum boreale</i>		T	T									
Canada St. John's-wort	<i>Hypericum canadense</i>			E				E				E	
Least St. John's-wort	<i>Hypericum gymnanthum</i>							E					
Kalm's St. John's-wort	<i>Hypericum kalmianum</i>							T	T			T	
Leafy Blue Flag	<i>Iris brevicaulis</i>							T				T	
Alpine Rush	<i>Juncus alpinoarticulatus</i>							P	P			P	
Baltic Rush	<i>Juncus balticus</i>		P	P	P			P	P				
Diffuse Rush	<i>Juncus diffusissimus</i>							T				T	
Greene's Rush	<i>Juncus greenei</i>							T		T	T	T	T
Flat-leaved Rush	<i>Juncus platyphyllus</i>		E					E					
Ground Juniper	<i>Juniperus communis</i>			E				E					
June Grass	<i>Koeleria macrantha</i>											E	
Virginia Dwarf-dandelion	<i>Krigia virginica</i>										T	T	T
Tamarack	<i>Larix laricina</i>		P	P									
Yellow Vetchling	<i>Lathyrus ochroleucuc</i>							E				E	
Round-fruited Pinweed	<i>Lechea intermedia</i>		P	P	P			P				P	
Thyme-leaved Pinweed	<i>Lechea minor</i>										T	T	T
Leggett's Pinweed	<i>Lechea pulchella</i>		T	P	P						T	T	
Hairy Pinweed	<i>Lechea villosa</i>		P	P								P	P
Scaly Blazing-star	<i>Liatris squarrosa</i>			P								P	
Wood Lily	<i>Lilium philadelphicum</i>			E							E	E	
Old-field Toadflax	<i>Linaria canadensis</i>											E	
Drummond's Dwarf Bulrush	<i>Lipocarpa drummondii</i>											E	
Dwarf Bulrush	<i>Lipocarpa micrantha</i>								T			T	
Plains Puccoon	<i>Lithospermum caroliniense</i>										T	T	T
Wild Lupine	<i>Lupinus perennis</i>			P							P	P	P
Southern Woodrush	<i>Lusula bulbosa</i>	T		T									
Northern Appressed Club-moss	<i>Lycopodiella subappressa</i>											E	
Cow-wheat	<i>Melampyrum lineare</i>			T				T				T	
Bunchflower	<i>Melanthium virginicum</i>				T								

Buckbean	<i>Menyanthes trifoliata</i>				T	T							
Rock Sandwort	<i>Minuartia michauxii</i>								P			P	
Grove Sandwort	<i>Moehringia lateriflora</i>									P	P		
Dotted Horsemint	<i>Monarda punctata</i>										E	E	E
One-flowered Wintergreen	<i>Moneses uniflora</i>											X	
Plains Muhlenbergia	<i>Muhlebergia cuspidata</i>											E	
Bayberry	<i>Myrica pensylvanica</i>				E								
American Water-milfoil	<i>Myriophyllum sibiricum</i>			E				E	E	E			
Green Water-milfoil	<i>Myriophyllum verticillatum</i>				X								
Bullhead-lily	<i>Nuphar variegata</i>				E							E	
Cleland's Evening-primrose	<i>Oenothera clelandii</i>											E	
Oakes' Evening Primrose	<i>Oenothera oakesiana</i>								P			P	
Northern Adder's-tongue	<i>Ophioglossum pusillum</i>											E	
Common Prickly Pear	<i>Opuntia humifusa</i>								P		P	P	P
Balsom Squaw-weed	<i>Packera paupercula</i>								T	T			
Philadelphia Panic Grass	<i>Panicum philadelphicum</i>								E			E	
Tuckerman's Panic Grass	<i>Panicum tuckermanii</i>				E				E			E	
Downy White Beard-tongue	<i>Penstemon pallidus</i>												T
Coarse Smartweed	<i>Persicaria robustior</i>				P								
Long Beech Fern	<i>Phegopteris connectilis</i>	P			P		P	P					
Mountain Phlox	<i>Phlox latifolia</i>											E	E
American Reed Grass	<i>Phragmites australis ssp. Americanus</i>				P					P		P	
Mountain-rice	<i>Piptatherum racemosum</i>							P					
Lurking Leskea	<i>Plagiothecium latebricola</i>						T						
Yellow Fringed Orchid	<i>Platanthera ciliaris</i>											T	
Prairie Fringed Orchid	<i>Platanthera leucophaea</i>						T			T		T	
Small Purple Fringed Orchid	<i>Platanthera psycodes</i>	P				P						P	
Weak Spear Grass	<i>Poa saltuensis ssp. Languida</i>			P	P			P			P	P	
Rose Pogonia	<i>Pogonia ophioglossoides</i>				T	T						T	
Cross-leaved Milkwort	<i>Polygala cruciata</i>											E	
Gay-wings	<i>Polygala paucifolia</i>											E	
Racemed Milkwort	<i>Polygala polygama</i>											T	T
Balsam Poplar	<i>Populus balsamifera</i>											E	
Bowman's-root	<i>Porteranthus trifolius</i>	T											
Grass-like Pondweed	<i>Potamogeton gramineus</i>				E							E	
Floating Pondweed	<i>Potamogeton natans</i>				P				P			P	
Spotted Pondweed	<i>Potamogeton pulcher</i>				T								
Richardson's Pondweed	<i>Potamogeton richardsonii</i>				T				T				
Flat-stemmed Pondweed	<i>Potamogeton zosteriformis</i>			T	T								
Marsh Five-finger	<i>Potentilla palustris</i>			P	P	P						P	
Bushy Cinquefoil	<i>Potentilla paradoxa</i>								T			T	
Rough Rattlesnake-root	<i>Prenanthes aspera</i>								E				
Prairie Rattlesnake-root	<i>Prenanthes racemosa</i>								P	P	P	P	P
Canada Plum	<i>Prunus nigra</i>										E	E	
Sand Cherry	<i>Prunus pumila var. cuneata</i>											E	
Hairy Mountain-mint	<i>Pycnanthemum verticillatum var. pilosum</i>											T	T
Green-flowered Wintergreen	<i>Pyrola chlorantha</i>											E	
Early Buttercup	<i>Ranunculus fascicularis</i>	T							T		T	T	

Virginia Meadow-beauty	<i>Rhexia virginica</i>		P	P				P			P	
Pinxter-flower	<i>Rhododendron periclymendoides</i>	T										
White Beak-rush	<i>Rhynchospora alba</i>		P	P	P							
Tall Grass-like Beak-rush	<i>Rhynchospora recognita</i>										E	
Smooth Rose	<i>Rosa blanda</i>						P	P		P		P
Wapato	<i>Sagittaria cuneata</i>								T		T	
Grass-leaved Arrowhead	<i>Sagittaria graminea</i>										E	
Deer's-tonge Arrowhead	<i>Sagittaria rigida</i>		P	P	P			P	P		P	
Hoary Willow	<i>Salix candida</i>	P						P				
Blue-leaved Willow	<i>Salix myricoides</i>			P				P			P	
Bog Willow	<i>Salix pedicellaris</i>		E	E								
Slender Willow	<i>Salix petiolaris</i>			T						T	T	
Autumn Willow	<i>Salix serissima</i>	P	P	P								
Pitcher-plant	<i>Sarracenia purpurea</i>		T	T	T							
Scheuchzeria	<i>Scheuchzeria palustris</i>				E							
Olney's Three-square	<i>Schoenoplectus americanus</i>										E	
Smith's Bulrush	<i>Schoenoplectus smithii</i>							T				
Swaying-rush	<i>Schoenoplectus subterminalis</i>			E								
Few-flowered Nut-rush	<i>Scleria pauciflora</i>									P	P	P
Tall Nut-rush	<i>Scleria triglomerata</i>							P		P	P	P
Canada Buffalo-berry	<i>Shepherdia canadensis</i>			P			P	P				
Carolina Catchfly	<i>Silene caroliniana ssp. Pennsylvania</i>	T		T								
Atlantic Blue-eyed-grass	<i>Sisyrinchium atlanticum</i>										E	
Northern Blue-eyed-grass	<i>Sisyrinchium montanum</i>							T	T		T	
Narrow-leaved Blue-eyed-grass	<i>Sisyrinchium mucronatum</i>							T				
Showy Goldenrod	<i>Solidago speciosa</i>							T		T	T	T
Leafy Goldenrod	<i>Solidago squarrosa</i>			T			T	T				
Keeled Bur-reed	<i>Sparganium androcladum</i>			T								
Shore-growing Peat Moss	<i>Sphagnum riparium</i>		E	E								
Prairie Wedge Grass	<i>Sphenopholis obtusata var. obtusata</i>								T	T	T	
Shinning Ladies'-tresses	<i>Spiranthes lucida</i>			P			P	P	P		P	
Great Plains Ladies'-tresses	<i>Spiranthes magnicamporum</i>			P				P		P	P	
Hooded Ladies'-tresses	<i>Spiranthes romanzoffiana</i>		T									
Drummond's Aster	<i>Symphyotrichum drummondii</i>		T								T	
Bushy Aster	<i>Symphyotrichum dumosum</i>			T			T	T			T	
Lakeside Daisy	<i>Tetraneuris herbacea</i>							E				
Arbor Vitae	<i>Thuja occidentalis</i>						P					
False Asphodel	<i>Triantha glutinosa</i>		P	P								
Seaside Arrow-grass	<i>Triglochin maritimum</i>			T								
Marsh Arrow-grass	<i>Triglochin palustris</i>		P	P				P	P			
Three-birds Orchid	<i>Triphora trianthophora</i>									P		P
Rock Elm	<i>Ulmus thomasii</i>							P		P		P
Flat-leaved Bladderwort	<i>Utricularia intermedia</i>		T	T								
Lesser Bladderwort	<i>Utricularia minor</i>	T		T								
Small Cranberry	<i>Vaccinium oxycoccos</i>		T	T								
Prairie Ironweed	<i>Vernonia fasciculata</i>							E		E		
Missouri Ironweed	<i>Vernonia missurica</i>										E	
Highbush-cranberry	<i>Viburnum opulus var. americanum</i>		T	T								

Lance-leaved Violet	<i>Viola lanceolata</i>							P			P	
Northern Bog Violet	<i>Viola nephrophylla</i>							T	T			
Birdfoot Violet	<i>Viola pedata</i>											T
Wolffiella	<i>Wolffiella gladiata</i>			P	P							
Twisted Yellow-eyed-grass	<i>Xyris torta</i>							T			T	
White Wand-lily	<i>Zigadenus elegans</i>			P								
Wild Rice	<i>Zizania aquatica</i>			T	T						T	



**Office of Real Estate**  
*Paul R. Baldrige, Chief*  
2045 Morse Road – Bldg. E-2  
Columbus, OH 43229  
*Phone: (614) 265-6649*  
*Fax: (614) 267-4764*

October 31, 2014

Michael Lychwala  
TRC Solutions  
6 Ashley Drive  
1<sup>st</sup> Floor  
Scarborough, ME 04074

**Re:** 14-768; Nexus Gas Transmission Project

**Project:** NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Company is proposing to construct approximately 245 miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan.

**Location:** The project is located in Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton Counties, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

**Natural Heritage Database:** A review of the Natural Heritage Database produced the following comments.

The Natural Heritage Database has data within your project area and is included in the attached shapefiles. The review was based on the project area you specified in your request and performed using the shapefile you provided to us. Records searched date from 1980. This data is provided to inform you of features present within your project area. Additional comments on some of the features may be found in pertinent sections below. Data layers included are for data, sensitive species, managed areas, scenic rivers, and conservation sites.

Records included in the data layer may be for rare plants and animals, geologic features, high quality plant communities, and other ecological features. Fields included are scientific and common names, state and federal statuses (when applicable), date of most recent observation, and whether the record is located within a managed area or conservation site.

Statuses are defined as: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; A = species recently added to state inventory, status not yet determined; X = presumed extirpated in Ohio; FE = federal endangered, FT = federal threatened, FSC = federal species of concern, and FC = federal candidate species.

There are a few species considered as sensitive for which we do not give out an exact location. They are not within the data layer but are included in the sensitive species data layer which shows a general location.

The managed areas layer shows boundaries for state, federal, county, non-profit, private and sites under other types of ownership that are protected and managed for their natural resources. Please be aware that this layer may not be complete, and we are continually updating it as additional information becomes available to us.

The layer for scenic rivers shows the designated portions of state and national scenic rivers. Your project may cross a designated scenic river. Additional comments on this aspect will be forwarded in 7 to 10 days.

The conservation sites layer shows areas deemed by the Natural Heritage Program to be high quality natural areas not currently under formal protection. They may, for example, harbor one or more rare species, be an outstanding example of a plant community, or have geologically significant features, etc. These sites may be in private ownership and our listing of them does not imply permission for access.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although all types of plant communities have been surveyed, we only maintain records on the highest quality areas.

**Fish and Wildlife:** The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that best management practices be utilized to minimize erosion and sedimentation.

The ODNR Natural Heritage Database has multiple records within one mile of the proposed pipeline corridor for the spotted turtle (*Clemmys guttata*), a state threatened species. These records can be found within the provided "sensitive\_species" shapefile. Much of the pipeline corridor is within the range of the spotted turtle. This species prefers fens, bogs and marshes, but is also known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. The DOW recommends that a habitat suitability survey be conducted to determine if suitable spotted turtle habitat is present along the project route. The DOW recommends that the habitat suitability survey be conducted by one of the herpetologists from the provided "Approved Herpetologists" list. If suitable habitat is found to be present along the project route, the DOW recommends that a presence/absence survey be conducted. The results of any habitat suitability survey and any subsequent presence/absence survey can be submitted to Nathan Reardon, DOW Compliance Coordinator, at [nathan.reardon@dnr.state.oh.us](mailto:nathan.reardon@dnr.state.oh.us).

The ODNR Natural Heritage Database has multiple records within one mile of the proposed pipeline corridor for the Blanding's Turtle (*Emydoidea blandingii*), a state threatened species. These records can be found within the provided "sensitive\_species" shapefile. Much of the pipeline corridor is within the range of the Blanding's Turtle. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. Although essentially aquatic, the Blanding's turtle will travel over land as it moves from one wetland to the next. The DOW recommends that a habitat suitability survey be conducted to determine if suitable Blanding's turtle habitat is present along the project route. The DOW recommends that the habitat suitability survey be conducted by one of the herpetologists from the provided "Approved Herpetologists" list. If suitable habitat is found to be present along the project route, the DOW recommends that a presence/absence survey be conducted. The results of any habitat suitability survey and any subsequent presence/absence survey can be submitted to Nathan Reardon, DOW Compliance Coordinator, at [nathan.reardon@dnr.state.oh.us](mailto:nathan.reardon@dnr.state.oh.us).

The ODNR Natural heritage Database has records within one mile of the project site for the barn owl (*Tyto alba*), a state threatened species. These records can be found within the provided "sensitive\_species" shapefile. Impacts to barns, silos and other old and abandoned structures should be avoided to avoid impacts to this species.

The ODNR Natural Heritage Database has multiple records within one mile of the proposed pipeline corridor for the Indiana bat (*Myotis sodalis*), a state and federally endangered species. These records can be found within the provided "sensitive\_species" shapefile. Because these records have already established presence, additional presence/absence surveys are not warranted to detect probable absence within the capture buffers. The following species of trees have relatively high value as potential Indiana bat roost trees: Shagbark hickory (*Carya ovata*), Shellbark hickory (*Carya laciniosa*), Bitternut hickory (*Carya cordiformis*), Black ash (*Fraxinus nigra*), Green ash (*Fraxinus pennsylvanica*), White ash (*Fraxinus americana*), Shingle oak (*Quercus imbricaria*), Northern red oak (*Quercus rubra*), Slippery elm (*Ulmus rubra*), American elm (*Ulmus americana*), Eastern cottonwood (*Populus deltoides*), Silver maple (*Acer saccharinum*), Sassafras (*Sassafras albidum*), Post oak (*Quercus stellata*), and White oak (*Quercus alba*). Indiana bat habitat consists of suitable trees that include dead and dying trees with exfoliating bark, crevices, or cavities in upland areas or riparian corridors and living trees with exfoliating bark, cavities, or hollow areas formed from broken branches or tops. If suitable trees occur within the project area, the Division of Wildlife recommends that these trees be conserved. If suitable habitat occurs on the project area and trees must be cut, the Division of Wildlife recommends cutting occur between October 1 and March 31. If suitable trees must be cut during the summer months, the Division of Wildlife recommends a net survey be conducted between June 1 and August 15, prior to cutting. Net surveys should incorporate either nine net nights per square 0.5 kilometer of project area, or four net nights per kilometer for linear projects. If no tree removal is proposed, the project is not likely to impact this species.

The ODNR Natural Heritage Database has multiple records within one mile of the proposed pipeline corridor for the upland sandpiper (*Bartramia longicauda*), a state endangered bird. These records can be found within the provided "data" shapefile. Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP). If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 to July 31. If this type of habitat will not be impacted, the project is not likely to impact this species.

The ODNR Natural Heritage Database has records within one mile of the proposed pipeline corridor for the chalk-fronted corporal (*Ladona julia*), a state endangered dragonfly, the elfin skimmer (*Nannothemis bella*), a state endangered dragonfly, the marsh bluet (*Enallagma ebrium*), a state threatened damselfly,

and the racket-tailed emerald (*Dorocordulia libera*), a state endangered dragonfly. These records can be found within the provided “data” shapefile. Impacts to wetlands should be avoided and/or minimized to the fullest extent possible to avoid impacts these species.

The ODNR Natural Heritage Database has records within one mile of the proposed pipeline corridor for the plains clubtail (*Gomphus externus*), a state endangered dragonfly. These records can be found within the provided “data” shapefile. Impacts to medium to large size streams with sand and gravel substrates should be avoided and/or minimized to the fullest extent possible to avoid impacts this species.

The project is within the range of the lake sturgeon (*Acipenser fulvescens*), a state endangered fish and a federal species of concern, the spotted gar (*Lepisosteus oculatus*), a state endangered fish, the pugnose minnow (*Opsopoeodus emiliae*), a state endangered fish, the Iowa darter (*Etheostoma exile*), a state endangered fish, the mountain brook lamprey (*Ichthyomyzon greeleyi*), a state endangered fish, the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish, the pugnose minnow (*Opsopoeodus emiliae*), a state endangered fish, the lake chubsucker (*Erimyzon sucetta*), a state threatened fish, the Greater Redhorse (*Moxostoma valenciennesi*), a state threatened fish, the channel darter (*Percina copelandi*), a state threatened fish, and the bigmouth shiner (*Notropis dorsalis*), a state threatened fish.

Below (Table 1.) provides the in-water work restrictions and where they apply.

**Figure 1. Statewide In-Water Work Restriction Periods and Locations**

<u>Location</u>	<u>Restricted Period</u>
Percid streams (1)	March 15 – June 30
Salmonid streams (2)	September 15 – June 30
Other streams (3)	April 15 – June 30

1. Great Miami River (dam south of New Baltimore to mouth), Hocking River (lower section), Little Miami River (lower section), Maumee River (split dam at Mary Jane Thurston State Park and Providence Park in Grand Rapids to mouth), Maumee Bay, Muskingum River (Devola Dam No.2 off S.R. 60 north of Marietta to mouth), Ohio River (entire reach), Portage River (entire reach), Sandusky River (mouth to the first dam), Sandusky Bay, Scioto River (lower section), Toussaint River (entire reach).

2. Arcola Creek (entire reach), Ashtabula River (Hadlock Rd. to mouth), Ashtabula Harbor, Aurora Branch of the Chagrin River (RM 0.38 to mouth), Big Creek ((Grand River drainage basin) Girdled Road to mouth), Chagrin River (Chagrin Falls to mouth), Cold Creek (entire reach), Conneaut Creek (entire reach), Conneaut Harbor, Corporation Creek ((Chagrin River RM 0.27) entire reach), Cowles Creek (entire reach), Ellison Creek ((Grand River drainage basin) entire reach), Euclid Creek (entire reach), Grand River (dam at Harpersfield Covered Bridge Park (just upstream of the S.R. 534 bridge) to mouth), Fairport Harbor, Gulley Brook ((Chagrin River RM 5.54) entire reach), Indian Creek (entire reach), Kellogg Creek ((Grand River drainage basin) entire reach), Mill Creek ((Grand River drainage basin) entire reach), Paine Creek ((Grand River drainage basin) from Paine Falls to mouth), Rocky River (Cedar Point Rd. (East Branch-West Branch confluence) to mouth), Smokey Run ((Conneaut Creek RM 3.5) entire reach), Turkey Creek (entire reach), Vermilion River (dam at Wakeman upstream of the US 20 & SR 60 bridge to mouth), Ward Creek ((Chagrin River RM 1.0) entire reach), Wheeler Creek (entire reach), Whitman Creek (entire reach).

3. Class III Primary Headwater streams (watershed  $\leq$  1 square mile), EWH, CWH, WWH, or stream reaches with T &E species. Includes Lake Erie & bays not listed above. Special conditions (such as occurrence of T &E species) may mandate local variation of restrictions.

Note: To determine the defined beneficial use designation for a stream and project segment, refer to: [www.epa.state.oh.us/dsw/rules/3745\\_1.aspx#1use](http://www.epa.state.oh.us/dsw/rules/3745_1.aspx#1use).

The project is within the range of the rayed bean (*Villosa fabalis*), a state endangered and federally endangered mussel species, the eastern pondmussel (*Ligumia nasuta*), a state endangered mussel, and the threehorn wartyback (*Obliquaria reflexa*), a state threatened mussel. This project must not have an impact on freshwater native mussels in the project area. This applies to both listed and non-listed species. Per the Ohio Mussel Survey Protocol (2014), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 10<sup>2</sup> miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels (Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. This is further explained within the Ohio Mussel Survey Protocol. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, as a last resort, the DOW recommends a professional malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the Ohio Mussel Survey Protocol. Please submit any mussel assessment/survey to Nathan Reardon, DOW Compliance Coordinator, at [nathan.reardon@dnr.state.oh.us](mailto:nathan.reardon@dnr.state.oh.us). The Ohio Mussel Survey Protocol (2014) can be found at:

<http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/licenses%20&%20permits/OH%20Mussel%20Survey%20Protocol%20-%20April%202014.pdf>

The project route is within the range of the eastern massasauga (*Sistrurus catenatus*), a state endangered species and a federal candidate snake species. The eastern massasauga uses a range of habitats including wet prairies, fens, and other wetlands, as well as drier upland habitat. The DOW recommends that a habitat suitability survey be conducted to determine if suitable Eastern massasauga habitat is present along the project route. The DOW recommends that the habitat suitability survey be conducted by one of the herpetologists from the provided "Approved Herpetologists" list. If suitable habitat is found to be present along the project route, the DOW recommends that a presence/absence survey be conducted. The results of any habitat suitability survey and any subsequent presence/absence survey can be submitted to Nathan Reardon, DOW Compliance Coordinator, at [nathan.reardon@dnr.state.oh.us](mailto:nathan.reardon@dnr.state.oh.us).

The project is within the range of the eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), a state endangered species and a federal species of concern. This long-lived, entirely aquatic salamander inhabits perennial streams with large flat rocks. In-water work in hellbender streams can reduce availability of large cover rocks and can destroy hellbender nests and/or kill adults and juveniles. The contribution of additional sediment to hellbender streams can smother large cover rocks and gravel/cobble substrate (used by juveniles), making them unsuitable for refuge and nesting. Projects that contribute to altered flow regimes (e.g., by increasing areas of impervious surfaces or modifying the floodplain) can also adversely affect hellbender habitat. Due to the location, and that there is no in-water work proposed in a perennial stream known to contain the eastern hellbender, this project is not likely to impact this species.

The project is within the range of the blue-spotted salamander (*Ambystoma laterale*), a state endangered species. Due to the location, this project is not likely to impact this species.

The project is within the range of the black bear (*Ursus americanus*), a state endangered species. Due to the mobility of this species, this project is not likely to impact this species.

The project is within the range of the American bittern (*Botaurus lentiginosus*), a state endangered bird. Nesting bitterns prefer large undisturbed wetlands that have scattered small pools amongst dense vegetation. They occasionally occupy bogs, large wet meadows, and dense shrubby swamps. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the sandhill crane (*Grus canadensis*), a state endangered species. Sandhill cranes are primarily a wetland-dependent species. On their wintering grounds, they will utilize agricultural fields; however, they roost in shallow, standing water or moist bottomlands. On breeding grounds they require a rather large tract of wet meadow, shallow marsh, or bog for nesting. If grassland, prairie, or wetland habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 to September 1. If this habitat will not be impacted, the project is not likely to have an impact on this species.

The project is within the range of the trumpeter swan (*Cygnus buccinator*), a state endangered bird. Trumpeter swans prefer large marshes and lakes ranging in size from 40 to 150 acres. They like shallow wetlands one to three feet deep with a diverse mix of plenty of emergent and submergent vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 to June 15. If this habitat will not be impacted, the project is not likely to have an impact on this species.

The project is within the range of the Kirtland's warbler (*Setophaga kirtlandii*), a state endangered and federally endangered bird species. This species migrates through Ohio in the spring and fall, traveling between its breeding grounds in Michigan, Wisconsin, and Ontario and its wintering grounds in the Bahamas. Migration is energetically demanding for birds of all species. During stop-over, birds are often faced with the need to acquire food in a short period of time, in unfamiliar surroundings, and while avoiding predators and competing with other migrants and resident birds for limited resources.

While migration occurs in a broad front across the entire state, approximately half of all observations in Ohio have occurred within 3 miles of the shore of Lake Erie. During migration, individual birds usually forage in shrub/scrub or forested habitat and may stay in one area for a few days. Because so much of the southern Lake Erie shoreline is already developed, and stopover habitat is already so fragmented, the DOW recommends that this stopover habitat, (i.e. shrub/scrub or forested area), within three miles of the shoreline be preserved whenever possible. If clearing of suitable habitat cannot be avoided, to preclude adverse effects to Kirtland's warblers, clearing within 3 miles of the shoreline of Lake Erie should be avoided from April 22<sup>nd</sup> – June 1<sup>st</sup>, and from August 15<sup>th</sup> – October 15<sup>th</sup>.

The project is within the range of the piping plover (*Charadrius melodus*), a state endangered and federally endangered bird species. This species does not nest in the state but does utilize stopover habitat as it migrates through the region. Therefore, the project is not likely to have an impact on this species.

The project is within the range of the common tern (*Sterna hirundo*), a state endangered bird. The preferred nesting sites of common terns are natural or man-made islands that are free of mammalian predators and human disturbance. They will also utilize mainland beaches and dredge disposal areas but only when islands are unavailable. The common tern nests in colonies. Their eggs are laid in a grass-lined depression in the sand. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to August 1. If no wetland habitat will be impacted, the project is not likely to impact this species.

The project is within the range of the king rail (*Rallus elegans*), a state endangered bird. Nests for this species are deep bowls constructed out of grass and usually hidden very well in marsh vegetation. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to August 1. If no wetland habitat will be impacted, the project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus cyaneus*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 15 to August 1. If this habitat will not be impacted, the project is not likely to impact this species.

The project is within the range of the lark sparrow (*Chondestes grammacus*), a state endangered bird. This sparrow nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. These summer residents normally migrate out of Ohio shortly after their young fledge or leave the nest. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to June 30. If this habitat will not be impacted, the project is not likely to impact this species.

The project is within the range of the black tern (*Chlidonias niger*), a state endangered bird. The black tern prefers large, undisturbed inland marshes with fairly dense vegetation and pockets of open water. They nest in various kinds of marsh vegetation but cattail marshes are generally favored. Nests are built on top of muskrat houses or on top of floating vegetation. If this type of habitat will be impacted, construction should be avoided in this habitat from April 1 to June 30 to reduce impacts to this species. If this type of habitat will not be impacted, the project is not likely to impact this species.

The project is within the range of the purplish copper (*Lycaena helloides*), a state endangered butterfly. Due to the location, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the Karner blue (*Lycaeides Melissa samuelis*), a state endangered and federally endangered butterfly. Due to the location, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the Canada darner (*Aeshna canadensis*), a state endangered dragonfly, the Hine's emerald (*Somatochlora hineana*), a state and federally endangered dragonfly, the seepage dancer (*Argia bipunctulata*), a state endangered dragonfly, and the brush-tipped emerald (*Somatochlora walshii*), a state endangered dragonfly. Impacts to wetlands should be avoided and/or minimized to the fullest extent possible to avoid impacts to these species.

The project is in the range of the Persius dusky wing (*Erynnis persius*), a state endangered butterfly, the karner blue (*Lycaeides melissa samuelis*), a state and federally endangered butterfly, and the frosted elfin

*(Incisalia irus)*, a state endangered butterfly. These species are found only in oak savanna habitat. Impacts to oak savanna habitat should be avoided to avoid impact to these species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

**Parks and Recreation:** The Division of Parks and Recreation offers the following comment.

If any of the Division of Parks and Recreation's managed property is accessed or utilized for the proposed project, a real estate agreement must be fully executed prior to anything taking place on the division's property. It may take 6 months to have a fully executed agreement if one is required. Please contact Tara Paciorek, the Department's oil and Gas Coordinator, at 614-265-6661 should you believe an agreement is necessary.

**Forestry:** Additional comments from the Division of Forestry may be offered.

ODNR appreciates the opportunity to provide these comments. Please contact John Kessler at (614) 265-6621 if you have questions about these comments or need additional information.

John Kessler  
ODNR Office of Real Estate  
2045 Morse Road, Building E-2  
Columbus, Ohio 43229-6693  
John.Kessler@dnr.state.oh.us



## Approved Herpetologist

Kent Bekker  
542 Centerfield Drive  
Maumee, Ohio 43537  
[kbekker@gmail.com](mailto:kbekker@gmail.com)  
419.376.4384

Jeff Davis  
625 Crescent Road  
Hamilton, Ohio 45013  
[ohiofrogs@gmail.com](mailto:ohiofrogs@gmail.com)  
513.868.3154

Gregory Lipps, LLC  
1473 County Road 5-2  
Delta, Ohio 43515-9657  
[greglipps@gmail.com](mailto:greglipps@gmail.com)  
419.376.3441

Tim O. Matson  
5696 Matson Rd  
Geneva, OH 44041  
[tmatson@cmnh.org](mailto:tmatson@cmnh.org)  
440.417.8196

Ralph Pfingsten  
347 Pineview Circle  
Berea, Ohio 44017  
[rap347@wideopenwest.com](mailto:rap347@wideopenwest.com)  
440.243.7568

Kristin Stanford  
OSU Stone Laboratory  
P.O. Box 119  
Put-in-Bay, OH 43456  
[theislandsnakelady@yahoo.com](mailto:theislandsnakelady@yahoo.com)  
419.285.1847

Doug Wynn  
241 Chase Street, Apt. A3L  
Russell's Point, Ohio 43348  
[Sistrurus@aol.com](mailto:Sistrurus@aol.com)  
614.306.0313

## Jordan, Stephenie

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**From:** Holland, Steven <Steven.Holland@dnr.state.oh.us>  
**Sent:** Tuesday, December 02, 2014 9:52 AM  
**To:** Redmond-Miller, Kathleen  
**Cc:** Lychwala, Michael; Kessler, John  
**Subject:** RE: Nexus Gas Pipeline Project and Lake Erie CZM Area Crossing  
**Attachments:** Consistency Certification.pdf

Hello Kathleen,

Thanks for contacting us regarding Federal Consistency for the proposed project. First, I wanted to let you know what the Ohio Coastal Management Program has listed in the program document regarding projects that are subject to Federal Consistency reviews if they are located in Ohio's designated coastal area (coastal zone). They are as follows:

*Federal Energy Regulatory Commission*

- Licenses, renewals or amendments to licenses for nonfederal hydroelectric projects and primary transmission lines under Sections 3(11), 4(e), and 15 of the Federal Power Act (16 U.S.C. 796 (11), 797 (11), and 808).
- Orders for interconnection of electric transmission facilities under Section 202(b) of the Federal Power Act (15 U.S.C. 824 a (b)).
- Certificates for the construction and operation of interstate natural gas pipeline facilities, including both pipelines and terminal facilities under Section 7 (c) of the Natural Gas Act (15 U.S.C. 717 f (c)).
- Permission and approval for the abandonment of natural gas pipeline facilities under Section 7 (b) of the Natural Gas Act (15 U.S.C. 717 f(b)).
- Regulation of gas pipelines, and licensing of import and export of natural gas pursuant to the Natural Gas Act (15 U.S.C. 717) and the Energy Reorganization Act of 1974.
- Exemptions from prohibition orders.

I do not know if the Certificate of Public Convenience and Necessity falls into one of these categories. If so, the project would be subject to a Federal Consistency review. If not, a Federal Consistency review would be required if the federal agency believes the project will have reasonably foreseeable effects on any use or resource of Ohio's designated coastal area.

To begin a review, we would need to receive a copy of the federal permit application as well as a signed Consistency Certification [attached]. I realize that in some cases the "permit application" can be quite voluminous. If that is the case, we can accept a summary document along with maps showing the project's location.

If you have questions or wish to discuss the project, I'd be happy to call you at a time that is convenient for you. Just let me know. Thanks.

Steve Holland, MPA  
*Federal Consistency Administrator*  
Ohio Coastal Management Program  
ODNR Office of Coastal Management  
105 West Shoreline Drive

Sandusky, Ohio 44870

(419) 609-4104

Website: <http://coastal.ohiodnr.gov>

Grants Viewer: <https://gis.ohiodnr.gov/website/ocm/grants>

Notice: Ohio has a very broad public records law. Most written communications to or from Office of Coastal Management employees regarding Office of Coastal Management business are public records available to the public and media. Your e-mail communication may be subject to public disclosure.

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**From:** Kessler, John  
**Sent:** Monday, December 01, 2014 3:10 PM  
**To:** Redmond-Miller, Kathleen  
**Cc:** Lychwala, Michael; Holland, Steven  
**Subject:** RE: Nexus Gas Pipeline Project and Lake Erie CZM Area Crossing

Hi Kathleen. Steve Holland and I had a chance to discuss your project. He will be in touch to provide guidance on the coastal consistency review. Thank you for contacting us on this matter.

John

John Kessler, P.E.  
Environmental Services Administrator  
Office of Real Estate  
Ohio Department of Natural Resources  
2045 Morse Rd., Columbus, OH 43229-6605  
phone: 614-265-6621  
email: [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us)

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**From:** Redmond-Miller, Kathleen [<mailto:KRedmond-Miller@trcsolutions.com>]  
**Sent:** Monday, December 01, 2014 11:27 AM  
**To:** Kessler, John  
**Cc:** Lychwala, Michael  
**Subject:** RE: Nexus Gas Pipeline Project and Lake Erie CZM Area Crossing

Hi John,

That sounds good. I did call Steve Howland last week and left a voicemail (he was out of the office). I got his name from the CZM website. Thanks very much for your efforts to coordinate internally and to let us know how best to proceed with coordination.

Best regards,  
Kathleen  
Kathleen Redmond-Miller  
Project Manager/Senior Scientist



6 Ashley Drive, 1<sup>st</sup> Floor, Scarborough, ME 04074  
T: 207.274.2602 | F: 207.274.9293 | C: 207.400.2529

[LinkedIn](#) | [Twitter](#) | [Blog](#) | [www.trcsolutions.com](http://www.trcsolutions.com)

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**From:** Kessler, John [<mailto:John.Kessler@dnr.state.oh.us>]  
**Sent:** Monday, December 01, 2014 11:20 AM  
**To:** Redmond-Miller, Kathleen

**Cc:** Lychwala, Michael

**Subject:** RE: Nexus Gas Pipeline Project and Lake Erie CZM Area Crossing

Hi Kathleen. Please allow me to discuss this with our Office of Coastal Management and then we will get back in touch with you to try and answer any questions and offer technical assistance.

John

John Kessler, P.E.  
Environmental Services Administrator  
Office of Real Estate  
Ohio Department of Natural Resources  
2045 Morse Rd., Columbus, OH 43229-6605  
phone: 614-265-6621  
email: [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us)

---

**From:** Redmond-Miller, Kathleen [<mailto:KRedmond-Miller@trcsolutions.com>]

**Sent:** Tuesday, November 25, 2014 9:50 AM

**To:** Kessler, John

**Cc:** Lychwala, Michael

**Subject:** Nexus Gas Pipeline Project and Lake Erie CZM Area Crossing

Hi John,

I understand from your voicemail message that you're out of the office until Monday. I wanted to follow up on the voicemail that I left you this morning with some additional information about the Nexus Gas Pipeline project and the Lake Erie Coastal Zone Management Area. Based on the below map from the ODNR's on-line viewer, the Nexus project will cross the CZM area boundary just south of Highway I-80E/I-90W (crossing distance ~8392 feet as shown below). The project is currently proposing to cross the Sandusky River using the Horizontal Directional Drill pipeline crossing method, therefore, no in-stream work is proposed within the CZM area. However, there will likely be, depending on the length of the HDD (which is currently in the design phase in consultation with a geotechnical contractor), some traditional open trench pipeline construction within the CZM area. The project is still in its early stages of development and we would like to better understand the CZM consistency determination process with ODNR and its associated timing. The project will require issuance of a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission (FERC Certificate) which is considered a "federal action" in accordance with the National Environmental Policy Act. If you could give me a call back at your earliest convenience at 207.274.2602 and when you have a few minutes to discuss, it would be very much appreciated.

Best regards,

Kathleen

Kathleen Redmond-Miller  
Project Manager/Senior Scientist



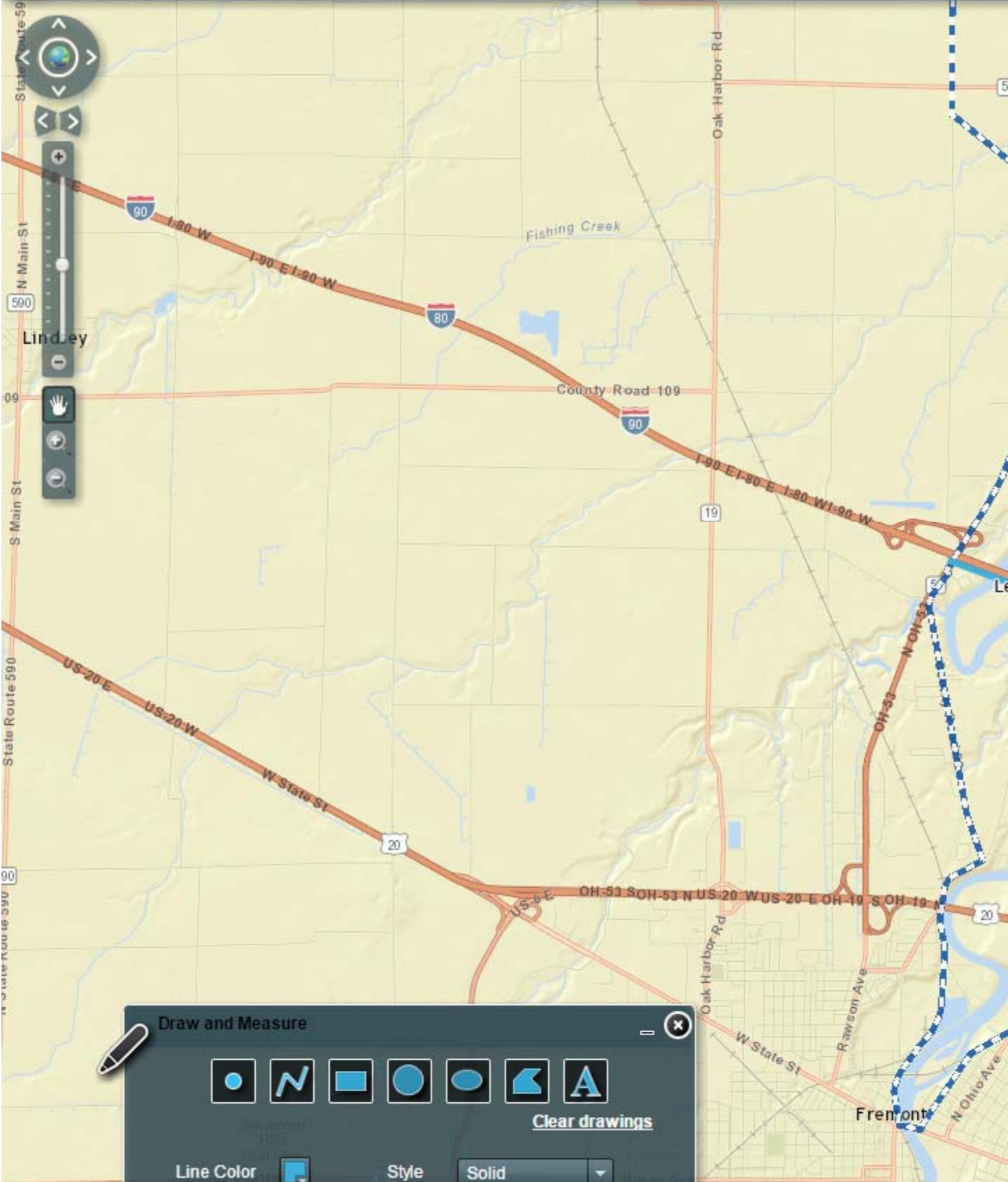
6 Ashley Drive, 1<sup>st</sup> Floor, Scarborough, ME 04074  
T: 207.274.2602 | F: 207.274.9293 | C: 207.400.2529

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# Lake Erie Coastal Atlas

ODNR - Office of Coastal Management







## Telephone Contact Log

### NEXUS Gas Transmission, LLC NEXUS Gas Transmission Project

**DATE: December 2, 2014**

THIS CONVERSATION TOOK PLACE BETWEEN:			
Agency/Organization/Individual Contacted		TRC Representative	
Name / Title:	Steve Holland, Federal Consistency Administrator	Name / Title:	Kathleen R. Miller/TRC Nexus DPM
Agency/Organization:	Ohio Coastal Management Program, ODNR Office of Coastal Management	Office Location:	Scarborough, ME
Address:	105 West Shoreline Drive Sandusky, Ohio 44870	Subject of Call:	CZM Consistency Determination Process
Phone:	(419) 609-4104 Holland, Steven <a href="mailto:Steven.Holland@dnr.state.oh.us">Steven.Holland@dnr.state.oh.us</a>	CC:	Matt Barczyk, Nexus Gas Transmission Mike Lychwala, TRC

**THE FOLLOWING WAS DISCUSSED:**

Mr. Holland called in response to an email inquiry I sent in reference to the Nexus Gas Transmission Project and the Lake Erie Coastal Zone Management (CZM) consistency determination process. Mr. Holland was familiar with the Nexus project based on conversations with John Kessler, the Ohio Department of Natural Resources' (ODNR) Environmental Services Administrator. I confirmed with Mr. Holland that the Nexus project would require a Certificate for construction and operation of an interstate natural gas pipeline facility (under Section 7c of the Natural Gas Act) from the Federal Energy Regulatory Commission (FERC). I explained that Nexus would be using FERC's pre-filing process and asked if he was familiar with how it works. I explained that Nexus would likely be making its initial filing with FERC at the end of January 2015 and that the overall project is approximately 250 miles long while the segment that traverses the Lake Erie CZM area is only approximately 8,400 feet long. Also, it's likely the Sandusky River would be crossed using a horizontal direction drill that would avoid in-stream construction activities. Mr. Howland indicated that any activities listed ODNR's regulations as requiring a federal consistency determinations would require a CZM review even if there is no in-stream work proposed.

I asked if it would be acceptable for Nexus to make its filing for the CZM consistency determination ahead of filing its full 7c application with FERC and if the application could focus only on the segment that crosses the Lake Erie CZM boundary. He responded this would be acceptable as long as the application materials are complete and there is low probability the alignment would change in the CZM area (which would require an additional review). He also suggested that the U.S. Army Corps of Engineers be informed of the CZM consistency review as they will need the CZM consistency determination in order to issue their permit.

I asked if he could provide a best estimate for the ODNR's CZM consistency review time. He responded that federal regulations allow for six months but he thought it could be completed in one to two months. I thanked him for his time and indicated that we would contact him if our plans change or if we have additional questions.



## MEETING NOTES

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**Title:** 20141209 Spectra Ohio EPA Central Office - NEXUS - Meeting Notes

**By:** DJ Wheeler, John Bins

**Meeting Date:** 12/09/2014

**Client:** Spectra Energy Partners

**Project #:** 143601.0141

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### Agenda

1. During the meeting, John Bins and DJ Wheeler presented the PowerPoint "2014\_1208\_NEXUS\_Air Permitting"
2. John and DJ discussed additional details regarding the project scope and schedule.

### Participants

- > Ohio EPA Central Office
  - Mike Mansour, Senior Environmental Specialist (MM) – in person
    - > Central Office contact for the Akron Regional Air Quality Management District and NW District Office
  - Dave Morehart (DM) – in person
    - > Central Office contact for the NE District Office
- > Trinity (TCI)
  - John Bins (JB) – in person
  - DJ Wheeler (DW) – in person

### Meeting Discussions

- > JB and DW used the PowerPoint slides to provide a general overview of the purpose and scope of the NEXUS Gas Transmission Project. MM and DM raised the following questions during these discussions. JB and DW provided responses if readily available.
  - At what point does Spectra Energy assume control of the natural gas (i.e., will any of the natural gas originate from production or midstream operations owned and operated by Spectra Energy)?
  - What diameter of pipe will be used?
    - > JB and DW explained that two scenarios were currently under consideration: 42 inch pipe or 36 inch pipe.
  - How does Spectra Energy determine the route that the pipeline will follow?
  - At what depth below ground will the pipeline be installed?
  - At what pressure will the NEXUS pipeline operate?
- > JB and DW proceeded to explain that the NEXUS Gas Transmission Project will involve three (3) separate permitting actions for three (3) separate compressor stations in Columbiana, Medina, and Fulton Counties potentially including the following emissions sources.
  - Natural gas-fired combustion turbines rated at approximately 18,000 hp
  - Storage vessels
  - Equipment leaks
  - Liquid loading
  - Gas releases
  - Generators
  - Heaters



- JB and DW also explained that the NEXUS Gas Transmission Project may involve valve sites and metering and regulating stations considered separate from, adjacent with, or part of the three (3) compressor stations. These smaller sites typically include the following emissions sources.
  - Storage vessels
  - Equipment leaks
  - Liquid loading
  - Gas releases
  - Heaters
- MM and DM inquired as to whether these facilities would trigger major PSD permitting requirements.
  - JB and DW explained that current, preliminary emissions estimates suggest that none of the aforementioned permitting exercises will trigger PSD. JB further clarified that these estimates are based on preliminary performance targets that will be verified by the manufacturers (e.g., 9 ppm NO<sub>x</sub>).
- MM and DM inquired as to any of the aforementioned emissions sources would qualify for permitting exemptions. JB and DW responded that Trinity and Spectra Energy will review the final manufacturer's specifications and emission rates to determine whether any units qualify for any of the following exemptions.
  - De Minimis exemption for emissions less than 10 lb/day
  - Permanent exemptions provided in OAC 3745-31-03
  - Permit-by-Rule expedited permitting as provided in OAC 3745-31-03
- JB and DJW presented the following project schedule.
  - December 2014 – preliminary project meetings with air permitting agencies
  - February 2015 – pre-permit strategy meetings with air permitting agencies
  - July 2015 – submit final applications for all sites
- MM inquired as to whether the air permitting effort would involve a public hearing. JB and DW responded that Spectra Energy will evaluate the need for a public hearing after the final design specifications and emission rates have been established.
- MM and DM suggested that it may be beneficial to provide an email summary of the final design specifications, once available.
- MM responded to an inquiry from JB that Spectra Energy could potentially pursue expedited permitting procedures wherein agency overtime is billed directly to Spectra Energy as part of the permit fee.
  - Note – Trinity has not historically used these procedures. MM will confirm with Mike Hopkins (Ohio EPA's Assistant Chief of Permitting) whether these procedures will be available to Spectra Energy.
- DW/JB explained that Spectra Energy and Trinity would appreciate the opportunity to review and comment upon whichever of the requested permits is the first to reach draft issuance. The final terms of this permit could be used as a template for the other sites, as appropriate.
  - MM specifically recommended working with the NW District Office to draft the initial set of terms.
- JB and DW opened the floor for final questions and closed the meeting

## Action Items

1. Ohio EPA
  - a. Follow up with Mike Hopkins regarding the expedited permitting procedures. Mike responded very promptly with the following statement the next morning after the meeting;

"I spoke with Mike Hopkins, Assistant Chief of Permitting, concerning the subject matter above and it is generally something that we would consider on a case by case basis as there is currently no policy that addresses that issue (as I am told there had been one instance where such request was made and approved). If there is going to be special circumstances that will require that permit processing be sped up beyond what is normal, please bring it to my attention for consideration. "

2. Trinity/Spectra Energy
  - a. Provide answers to general project questions.
    - 1) At what point does Spectra assume control of the gas in the pipeline?
    - 2) At what depth and pressure do the pipelines operate?
  - b. Consider sending an email with final project details if available prior to the February 2015 meetings.



## MEETING NOTES

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**Title:** 20141210 Spectra Akron Regional Air Quality Management District - NEXUS - Meeting Notes  
**By:** DJ Wheeler, John Bins  
**Client:** Spectra Energy Partners  
**Meeting Date:** 12/10/2014  
**Project #:** 143601.0141

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### Agenda

1. During the meeting, John Bins and DJ Wheeler presented the PowerPoint "2014\_1208\_NEXUS\_Air Permitting"
2. John and DJ discussed additional details regarding the project scope and schedule.

### Participants

- Akron Regional Air Quality Management District
  - Sean Vadas (SV) – in person
  - Kelly Kanoza, Air Quality Engineer, (KK) – in person
  - Duane LaClair, Engineering Supervisor, (DL) – in person
- Trinity (TCI)
  - John Bins (JB) – in person
  - DJ Wheeler (DW) – in person

### Meeting Discussions

- JB and DW used the PowerPoint slides to provide a general overview of the purpose and scope of the NEXUS Gas Transmission Project. These discussions were largely similar to those presented to Ohio EPA's Central Office on 12/9/14. Following is a list of questions and discussions unique to the 12/10/14 meeting with the Akron Regional Air Quality Management District.
- SV, KK, and DL are confident that the permit terms for the Medina Compressor Station will be issued Draft Final through a 30-day public comment period despite the fact that the project will constitute a minor permitting action. Interested parties may also request a public hearing during this 30-day public comment period. SV explained that the Akron Regional Air Quality Management District had instituted this policy due to substantial public pressure from within the District's jurisdiction (particularly Medina County). SV recommended that Spectra Energy voluntarily request a public hearing to coincide with the public comment period to avoid further permitting delays associated with the scheduling of a public hearing.
- SV explained that KK would be the primary permit engineer for the application filed for the Medina Compressor Station.
- SV inquired as to whether Spectra Energy was planning to control gas releases using a flare and expressed that similar pipeline facilities in Medina County had generated a significant number of complaints during flaring of gas releases.
- SV, KK, and DL expressed that noise, visibility, and public complaints may be a significant concern if the Medina Compressor Station is sited in close proximity to cities or residences.
- KK inquired as to which entity owns and operates the Kensington Plant. SV inquired as to how the Kensington Plant was currently distributing its natural gas.
- KK expressed that Spectra Energy should review permit issuance and construction schedules to confirm that Spectra will be ready to undertake a continuing program of construction within 18 months of permit issuance. SV clarified that Spectra Energy could request an extension, if necessary.

## Action Items

1. Trinity/Spectra Energy
  - a. Identify the entity currently operating the Kensington Plant. Clarify the current means of distributing gas from the Kensington Plant.
  - b. Determine whether Spectra Energy should submit a request for a public hearing to coincide with the public comment period that SV, KK, and DL maintain will be required for this permitting action. Also consider whether Spectra Energy should request public hearings for the NEXUS sites that are not within the jurisdiction of the Akron Regional Air Quality Management District.
  - c. Consider sending an email with final project details if available prior to the February 2015 meetings.



## MEETING NOTES

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**Title:** 20141210 Spectra Ohio EPA Northeast District Office - NEXUS - Meeting Notes

**By:** DJ Wheeler, John Bins

**Meeting Date:** 12/10/2014

**Client:** Spectra Energy Partners

**Project #:** 143601.0141

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### Agenda

1. During the meeting, John Bins and DJ Wheeler presented the PowerPoint "2014\_1208\_NEXUS\_Air Permitting"
2. John and DJ discussed additional details regarding the project scope and schedule.

### Participants

- > Ohio EPA Northeast District Office
  - Ed Fasko, Environmental Supervisor (EF) – in person
  - Kevin Fortune, Environmental Specialist, (KF) – in person
  - Jana Gannon, Environmental Specialist, (JG) – in person
- > Trinity (TCI)
  - John Bins (JB) – in person
  - DJ Wheeler (DW) – in person

### Meeting Discussions

- > JB and DW used the PowerPoint slides to provide a general overview of the purpose and scope of the NEXUS Gas Transmission Project. These discussions were largely similar to those presented to Ohio EPA's Central Office on 12/9/14. Following is a list of questions and discussions unique to the 12/10/14 meeting with Ohio EPA's Northeast District Office.
- > JG expressed that the Northeast District Office has historically permitted pigging emissions as a separate emission unit from gas releases at compressor stations.
  - Note – JG may have been referring to upstream and midstream compressor stations which may be handling gases with greater VOC concentrations than the gases handled by Spectra Energy. Trinity recommends pursuing the traditional permitting approach for pigging emissions (i.e., represent pigging emissions as part of facility-wide gas releases).
- > JG, KF, and EF specifically inquired as to whether the NEXUS Gas Transmission Project would involve tie-ins to any existing pipelines (e.g., at the Kensington Plant) that would result in gas releases during the construction operations associated with the tie-in. The Northeast District Office has not historically issued permits for these activities, but the agency is nevertheless curious as to whether the NEXUS Gas Transmission Project will involve these tie-in construction emissions.
- > JG, KF, and EF recommended that Spectra Energy consider factors such as odor and noise when siting the facilities associated with the NEXUS Gas Transmission Project.
- > JG, KF, and EF inquired as to whether a separate-source determination would be necessary for the Columbiana Compressor Station and the Kensington Plant.
- > JG, KF, and EF recommended that Spectra Energy submit applications electronically through Air Services to expedite the permitting process.

## Action Items

1. Trinity/Spectra Energy
  - a. Provide answers to specific project questions.
    - 1) Will the project involve emissions from gas releases during any construction activities necessary to connect to existing lines?
    - 2) Will a separate-source determination be required for the Columbiana Compressor Station and the Kensington Plant?
  - b. Consider sending an email with final project details if available prior to the February 2015 meetings.



## MEETING NOTES

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**Title:** 20141217 Spectra Toledo Division Of Environmental Services - NEXUS - Meeting Notes  
**By:** DJ Wheeler, John Bins  
**Client:** Spectra Energy Partners  
**Meeting Date:** 12/17/2014  
**Project #:** 143601.0141

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### Agenda

1. During the meeting, Sabino Gomez, John Bins, and DJ Wheeler presented the PowerPoint "2014\_1208\_NEXUS\_Air Permitting"
2. Sabino, John, and DJ discussed additional details regarding the project scope and schedule.

### Participants

- > Toledo Division of Environmental Services
  - Karen Granata, Administrator (KG) – in person
  - Matt Stanfield, Staff Professional Engineer, (MS) – in person
  - Mary Lehman Schmidt, Professional Engineer, (ML) – in person
- > Trinity (TCI)
  - John Bins (JB) – via teleconference
  - DJ Wheeler (DW) – in person
- > Spectra Energy (Spectra)
  - Sabino Gomez (SG) – via teleconference

### Meeting Discussions

- > SG, JB, and DW used the PowerPoint slides to provide a general overview of the purpose and scope of the NEXUS Gas Transmission Project. These discussions were largely similar to those presented to Ohio EPA's Central Office on 12/9/14. Following is a list of questions and discussions unique to the 12/17/14 meeting with the Toledo Division of Environmental Services.
- > MS explained that he would be the primary permit engineer for the application filed for the Lucas County Compressor Station if the station will be located near Waterville, OH.
- > KG inquired as to whether Spectra Energy had quantified the positive economic development associated with the NEXUS Gas Transmission Project (e.g., creation of jobs, investment of funds). As Administrator she sometimes gets requests from the "politicians" concerning economic impacts.
  - SG and JB explained that long-term employment opportunities would be limited given that these compressor stations and pipeline facilities do not typically require on-site staff. However, the initial construction effort will involve the utilization of local construction unions with whom Spectra has already initiated discussions. The NEXUS Gas Transmission Project will also constitute a significant source of tax revenue for the community. The FERC regulatory review process will also include a review of potential positive economic impacts.

### Action Items

1. Trinity/Spectra Energy
  - a. Consider sending an email with final project details if available prior to the February 2015 meetings.



50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

*Via U.S. Mail and Email*

November 5, 2014

Mr. Mark Epstein  
Department Head, Resource Protection and Review  
Ohio Historic Preservation Office  
800 E. 17<sup>th</sup> Avenue  
Columbus, Ohio 43211-2474

**Subject:        NEXUS Gas Transmission, LLC  
                     NEXUS Gas Transmission Pipeline Project  
                     Section 106 Consultation**

Dear Mr. Epstein:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is seeking authorization from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act to construct, own, and operate the proposed NEXUS Gas Transmission Project (Project). NEXUS is proposing to construct and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The project will include approximately 199-miles through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

We are currently briefing federal, state, and local officials on the proposed Project. In addition, we will be continually meeting with individual landowners and other stakeholders to identify any initial concerns that they may have and to seek their input regarding this early stage of the proposed Project.

Beginning in late September 2014, NEXUS representatives began field survey work for the Project and representatives of your office were briefed on details of the project in a meeting conducted at the Ohio Historic Preservation Office (OHPO) between TRC Environmental Corp. (TRC) and Dr. David Snyder on October 16, 2014. In order to accurately respond to anticipated questions and concerns about the NEXUS Project, NEXUS needs to begin collecting the necessary data to evaluate and design the potential project facilities. To that end, on behalf of NEXUS, TRC respectfully requests the initiation of consultation with your office in accordance with Section 106 of the National Historic Preservation Act (16 U.S.C. § 470, as amended) and its implementing regulations (36 CFR 800). To assist in our cultural resource investigations, we request your review of the attached location map of facilities location, as well as the additional information outlined in Attachments 1 and 2. Information concerning Native American consultation has been provided to the Shawnee, Delaware, Seneca, Potawatomi, Miami, Wyandotte, Peoria, and Ottawa tribes and nations, but we would also appreciate your thoughts concerning any additional Native American consultation that might be appropriate for the Project.



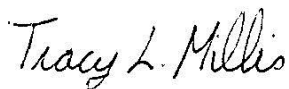
Mr. Epstein  
Ohio Historic Preservation Office  
November 5, 2014

NEXUS's intent is to inform and consult with stakeholders early in the development of the Project. NEXUS intends to utilize the FERC's National Environmental Policy Act pre-filing process (Pre-filing Process). The Pre-filing Process provides all stakeholders (federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify, evaluate, and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings, and the documentation of continuing efforts to identify and address concerns under the direction of the FERC. The public will then have the opportunity to comment on NEXUS's draft environmental resource reports prior to the filing of a formal FERC application. NEXUS will also be filing for various additional federal and state permits during this process. By initiating this early agency consultation and involvement, NEXUS also intends to assist those agencies that have coordination obligations with the FERC described in its order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. NEXUS plans to request authorization from the FERC to participate in its pre-filing process in the fourth quarter 2014. NEXUS will file a formal application for review and approval from the FERC, as well as permit applications with other relevant state and federal agencies. The Draft Resource Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the Project will be fully operational in December 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

We look forward to working with you during the environmental review process. Please contact me at (919) 414-3420, or (919) 530-8446 x224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com) if you have questions or require additional information.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Attachment

Mr. Epstein  
Ohio Historic Preservation Office  
November 5, 2014

## ATTACHMENT 1

### PROPOSED ARCHAEOLOGICAL SURVEY STRATEGY

As shown on the attached map, the proposed NEXUS Pipeline Project will consist of approximately 199-miles through eleven (11) counties in Ohio (Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton), and four newly constructed compressor stations.

The following paragraphs provide information on TRC's proposed archaeological field strategy for the Project. For all Project facilities, background research will be conducted at the OHPO, the State of Ohio Archives, the Library of the Ohio Historical Society, and using the OHPO Online Mapping System. All site locations as provided in OHPO Online Mapping System will be cross-checked and corrected as necessary according to original site reports.

#### Proposed Pipeline Corridor

The proposed Project will consist of construction of approximately 199-miles of 42-inch pipeline that generally will be parallel to existing gas pipeline or transmission utility corridors (Figure 1). The proposed workspace areas and limits of the proposed study corridor for the NEXUS Project will be 300 feet wide, including 150 feet to the east and west of the proposed centerline. The specific configuration of the proposed right-of-way (ROW) and easement have not been finalized, but in order to provide maximum flexibility, the project study corridor will be wider than the permanent ROW easement.

Archaeological fieldwork for the NEXUS Project will be accomplished following the procedures outlined in the OHPO's *Archaeology Guidelines* and will include shovel testing in all areas of 15 percent or less slope that do not exhibit evidence of severe prior disturbance. TRC proposes to survey six transects for the portions of the proposed Route that require shovel testing. All areas classified as less than 15 percent slope will be surveyed at 50 foot (15-m) intervals. Low probability areas that are greater than 15 percent slope will be visually inspected through a pedestrian reconnaissance for rock overhangs, shelters, and caves.

All shovel tests will be 50 × 50 cm units and will be excavated in 10 cm arbitrary levels within natural strata, following OHPO guidelines. The soil will be screened through ¼-inch hardware cloth. All identified sites in the project area will be delineated up to the boundary of the study corridor. Shovel test intervals will be reduced to 7.5 m in order to accurately assess the nature of the soils and the contextual integrity of the cultural deposits to allow an informed decision regarding recommendations of site eligibility.

#### Access Roads and Additional Facilities

In the event that access roads or other ancillary facilities are proposed for the Project, TRC will survey any previously unsurveyed areas using the field methods discussed above. In the event that access roads or other facilities have been previously approved for other projects, TRC will provide documentation of that information to OHPO.

Please let us know if this documentation/reporting strategy is acceptable to your office.

## ATTACHMENT 2

### PROPOSED HISTORIC STRUCTURES SURVEY STRATEGY

TRC will conduct a historic structures survey within the Project's Area of Potential Effects (APE) to identify all structures that appear to be 50 years old or older and have the potential to be visually connected to the proposed Project. Federal regulations define an APE as "the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties, if any such properties exist" (36 CFR Part 800.16[d] or CFR 2009b). For this project, the APE is regarded as the area following or paralleling the proposed Route or any properties immediately adjacent to the Route, including any resources that might be potentially impacted by blasting or determined to be any area within view of the proposed above-ground construction or clearing of vegetation. Viewsheds to and from the Project will be terminated where vegetation and/or topography obstructs lines of sight.

The historic structures survey will consist of four tasks: 1) Background research; 2) Field survey; 3) Evaluation, and 4) Report. The historic structures survey will be conducted according to all relevant State and Federal guidelines.

- 1) Background Research: TRC will conduct background research in person and using the Ohio Online Mapping System to identify all previously recorded and designated historic architectural resources within the Project APE. These will include all resources listed in or determined eligible for listing in the National Register of Historic Places (NRHP) or as a National Historic Landmark (NHL) and all previously identified architectural resources and districts, including any cemeteries, historic districts, and rural historic landscapes. TRC will also review relevant historic materials such as published histories of the project area, previous cultural resource studies of the project area, and historic maps and atlases. The research will provide the basis for a historical overview of the project area to be included in the final report.
- 2) Field Survey: TRC will conduct a field survey to locate, map, and photograph the historic resources identified during the background research phase. Information will be updated on any resources surveyed more than seven (7) years ago. Based on a visual exterior inspection and information obtained from the review of historic maps, TRC will map and photograph any previously unidentified historic resources 50 years old or older. Fieldwork will include completion of Ohio Historic Inventory (OHI) Forms, along with digital and film photographic documentation to include one or more views of the surveyed individual resources and representative views of buildings and streetscapes within any historic districts or historic landscapes in the Project APE. The resources will be mapped on the appropriate USGS quad maps.
- 3) Evaluation: Based on the background research and fieldwork phase, TRC will evaluate the surveyed resources for eligibility for listing in the NRHP, individually or as part of one or more historic districts. TRC will base its assessment in accordance with guidelines contained in National Register Bulletin 24, *Guidelines for Local Surveys: A Basis for Preservation Planning* (Derry et al. 1985). If OHPO feels any of the surveyed resources require additional investigation to determine NRHP eligibility, an Intensive level survey will occur including interior inspection (if requested by OHPO), additional photography, and site-specific historic research.
- 4) Historic Structures Survey Report: The results of this fieldwork will be compiled and presented as a chapter in the cultural resources report that will be submitted during the Section 106 review

Mr. Epstein  
Ohio Historic Preservation Office  
November 5, 2014

process. This report will also include the historic context for the project area. The report will include TRC's recommendations on NRHP eligibility based on the NRHP criteria and integrity standards. The surveyed resources will be coded to a map of the Project area. Finally, the report will include an assessment of any anticipated effects, both direct and indirect, from the proposed Project. This report will be submitted to OHPO for review and concurrence with TRC's recommendations.

Please let us know if this documentation/reporting strategy is acceptable to your office.

#### REFERENCES

Derry, Ann, H. Ward Jandl, Carol D. Shull, and Jan Thorman  
1985 *National Register Bulletin 24, Guidelines for Local Surveys: A Basis for Preservation Planning*. National Park Service, Washington, D.C.



Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**STATE OF MICHIGAN**

**Agency Correspondence**

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**PRE-APPLICATION MEETING REQUEST**

The Department of Environmental Quality's (DEQ) Land and Water Management Division (LWMD) has established a voluntary process for meeting with staff prior to submitting a permit application under Part 301, Inland Lakes and Streams, and Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. If you would like to request a pre-application meeting with LWMD staff, please submit the following information to your local LWMD district office:

1. The Pre-application Meeting Request Form. You must provide all requested information to allow us to process your request.
2. A map indicating the location of your project site (a county map or one obtained from an internet mapping system, is acceptable). This map should include all streets, roads, intersections, highways, and a north arrow.
3. If the applicant is not the property owner, a letter from the landowner authorizing the DEQ to meet with the applicant and/or agent and enter the property described on this form for the purposes of the pre-application meeting.
4. The appropriate fee (as shown below), paid using credit card or electronic check.
5. A preliminary site plan, if available.

Please keep in mind that providing any other available information may allow staff to better evaluate your project. Other information that may be helpful in LWMD's review includes photographs of the site, aerial photos, more detailed site plans, etc. You may also provide a draft permit application. (The permit application is available at [www.michigan.gov/jointpermit](http://www.michigan.gov/jointpermit).)

Indicate on the form whether you wish to meet in the district office or at the project site. A current district contact information map may be viewed on the DEQ Web site above. Please submit the form and appropriate fee to the address provided on the Web site for your local district office, or you may also submit the form to: Department of Environmental Quality, Land and Water Management Division, Permit Consolidation Unit, P.O. Box 30204, Lansing, Michigan 48909-7704.

Staff of the LWMD will contact you to schedule a meeting at a mutually convenient time. Meetings will be scheduled as soon as staff time and/or weather conditions allow. A meeting may be rescheduled if you provide at least 24 hours advance notice. If you need to cancel a pre-application meeting, you may do so up to 24 hours (not including weekends or holidays) prior to the scheduled meeting with a full refund. No refund will be given if the meeting is canceled by you with less than 24 hours notice.

**FEES**

<b>TYPE OF PRE-APPLICATION MEETING</b>	<b>FEE</b>
<b>Single-family residential lot less than 1 acre in size</b>	
Meeting in district office	No Charge
Meeting on site	\$ 100.00
<b>Other pre-application meeting in district office</b>	\$ 150.00
<b>Other meeting on project site</b>	
First acre or portion of acre of project area	\$ 250.00
Each additional acre or portion of acre	\$ 50.00
Maximum	\$ 1,000.00
Example: 4.7 acres = \$250 + (4 x \$50) = \$450.	

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
LAND AND WATER MANAGEMENT DIVISION  
PRE-APPLICATION MEETING REQUEST**

**DEQ FILE NO.-FOR OFFICIAL USE**

**Applicant**

Applicant: NEXUS Gas Transmission, LLC		
Address: 5400 Westheimer Ct.		
City: Houston	State: TX	Zip: 77056-4321
Phone: 713.627.5635	Fax:	
Email: MBBarczyk@spectraenergy.com		

**Property Owner**

Property Owner: NEXUS Gas Transmisison , LLC		
Address: (linear pipeline project)		
City:	State:	Zip:
Phone:	Fax:	
Email:		

**Agent (if applicable)**

Agent: Michael Lychwala	Company: TRC Solutions, Inc.	
Address: 6 Ashley Drive		
City: Scarborough	State: Maine	Zip: 04074
Phone: 207.232.1739	Fax: 207.879.9293	Email: MLychwala@trcsolutions.com

**Site location**

Address: See attached NEXUS Location Map	Township/City:	Zip:
County: Lenawee, Monroe, Washtenaw	Town:	Range: Section:
Project Name: NEXUS Gas Transmission Project		
Directions (nearest major intersection and directions from major intersection):		See attached NEXUS Overview Map.

**PRE-APPLICATION MEETING REQUEST**

- The meeting is requested at the  Project site or  DEQ district office
- DEQ staff should contact  the Applicant or  Agent
- Is the proposed project a single family residential lot one acre or less in size?  Yes  No

**GENERAL INFORMATION**

Project description (use additional sheets if necessary): The NEXUS Gas Transmission Project is an approximately 250 mile, 42-inch diameter, natural gas transmission pipeline originating in Columbiana County Ohio; and traversing Monroe, Lenawee, and Washtenaw Counties, Michigan for approximately 50 miles.

Estimated total project area (acres): \_\_\_\_\_

Will wetlands be involved?  No, Unsure) Circle one Estimated acreage of impact TBD \_\_\_\_\_

Has a wetland delineation been conducted?  No) Circle one Estimated cubic yards of fill TBD \_\_\_\_\_

Will inland lakes and streams be involved?  No, Unsure) Circle one Waterbody name TBD \_\_\_\_\_

Will floodplains be involved?  Yes, No, Unsure) Circle one

Other resources involved (Critical Dunes, High Risk Erosion Areas, etc.): TBD \_\_\_\_\_

**SIGNATURE**

I hereby certify that I am familiar with the information contained in this application, that it is true and accurate. I understand that there are penalties for submitting false information and that any finding pursuant to this request may be revoked if information on this request is untrue.

Signed Michael Lychwala

Date 12/29/2014



**DEQ FILE NUMBER** \_\_\_\_\_

**MEETING HELD**

**ATTENDEES**

Date \_\_\_\_\_, \_\_\_\_\_

Location \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAFF COMMENTS**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FINDINGS REGARDING THE NEED FOR A PERMIT UNDER PART 301, INLAND LAKES AND STREAMS, AND PART 303, WETLANDS PROTECTION, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED**

The Department of Environmental Quality has determined that:

- A permit is required. Please reference the file number at the top of this form when submitting a permit application.
- A permit is not required. **(This can only be determined for meetings on the project site.)**
- It can not be determined whether a permit is required given the information presented.

This determination is based on the attached project plans prepared by \_\_\_\_\_ and dated \_\_\_\_\_ and other attached information provided at the time of this meeting only. Provided that the proposed project and location are not altered, this determination is binding for a period of two years from the date of this meeting.

\_\_\_\_\_  
DEQ Staff Signature

\_\_\_\_\_  
Date

**THIS DOCUMENT IS NOT A PERMIT** Staff can not indicate during a pre-application meeting whether or not a permit will be issued. The DEQ cannot make a decision regarding a permit until it has considered all of the information provided in the final permit application, and, in some instances, has also considered comments received in response to a public notice of the project. Therefore, staff cannot legally tell you whether your project will be authorized in advance of a permit application. They can, however, give you information that will improve the likelihood that it will meet regulatory standards, and thus be authorized, or they may also be able to identify issues which will be of significant concern.

**Receipt****DEQ Joint Permit Ap****Payment Receipt****PRINT**

---

**Merchant:** DEQ Joint Permit Ap  
**Merchant City/State:** Lansing, MI  
**Merchant Location Code:** 00001  
**Payment Status:** Success  
**Payment Date:** 12/29/2014  
**Confirmation Number:** 14122954133188  
**Billing Address:** Kathleen R. Miller  
18 Mallard Drive  
Gorham, ME 04038  
(207) 400-2529  
**E-Mail Address:** KRedmond-Miller@trcsolutions.com  
**Total Amount:** 150.00 USD  
**Convenience Fee Amount:** 3.00 USD  
**Card Type:** VISA  
**Account #:** x3006  
**Authorization Code:** 06501C  
**Reference:** NEXUS Gas Transmission&#44; LLC,5400  
Westheimer Ct.,Houston,TX,43215  
**Disclaimer:** There is a processing fee of 2% for the use of  
this online payment function. You will be charged  
the application fee plus the 2% processing fee as  
a single transaction.

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6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

[www.trcsolutions.com](http://www.trcsolutions.com)

December 18, 2014

Ms. Katherine David  
Michigan Department of Environmental Quality  
Jackson District Office  
301 E. Louis Glick Highway  
Jackson, Michigan 49201

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project  
Michigan Department of Environmental Quality**

Dear Ms. David,

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 250-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses through eleven (11) counties in Ohio; including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton and three (3) counties in Michigan: Lenawee, Monroe, and Washtenaw. NEXUS is currently investigating a study corridor as generally depicted on attached Figure 1.

NEXUS intends to inform and consult with public and agency stakeholders early in the development process and has held landowner informational meetings in Ohio in October 2014 and in Michigan in November 2014. NEXUS intends to use the Federal Energy Regulatory Commission’s (“FERC”) National Environmental Policy Act pre-filing process (“Pre-filing Process”). The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify, evaluate and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings and documented continuing efforts to identify and address concerns under the direction of the FERC. The public will also have the opportunity to comment on the NEXUS draft environmental resource reports prior to filing the formal FERC application.

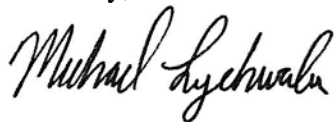
By initiating this early agency consultation and involvement, NEXUS intends to assist those agencies that have coordination obligations with the FERC described in its recent order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application is currently planned to be filed in the last quarter of 2015. All other agency applications will be filed in a similar time frame. NEXUS currently plans that the proposed Project facilities will be fully operational by November 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

To help facilitate the consultation process, TRC will be requesting a meeting to discuss the general scope of the proposed Project. This meeting will be the first of many opportunities to participate in the development and review of the Project. We will be contacting you soon and hope to schedule a meeting at your earliest convenience. Additional information such as a GIS SHP files of the Project study corridor to aid in your review of the Project can also be provided at that time.

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1739 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,



Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Timothy Gehring, TRC – Ann Arbor, MI  
Kathleen Miller, TRC – Scarborough, ME

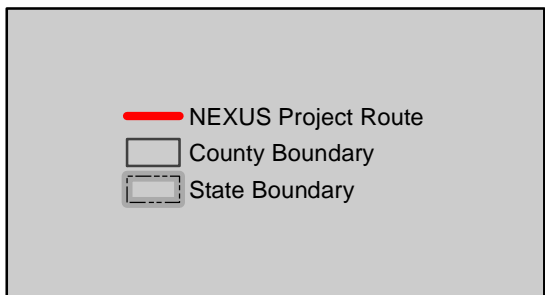


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

www.trcsolutions.com

September 22, 2014

Lori Sargent ([sargentl@michigan.gov](mailto:sargentl@michigan.gov))  
Wildlife Division  
Michigan Department of Natural Resources  
P.O. Box 30180  
Lansing, MI 48909-7680

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses approximately 46-miles through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. NEXUS is investigating a study corridor as generally depicted on attached Figure 1.

Initial review of the potential pipeline corridor indicated that rare, threatened and/or endangered species may be present based on published county lists by the Michigan Natural Features Inventory. On behalf of NEXUS, TRC is requesting the assistance of the Michigan Department of Natural Resources (“DNR”) to determine if any of the species are known to occur within the one-mile wide area under investigation. This information will assist us in determining a route to potentially avoid and minimize disruption to sensitive habitat and determine potential seasonal or species specific surveys that maybe required during permitting of the Project. Any further comments or survey guidance regarding rare, threatened, endangered or other important species is also welcomed.

To help facilitate the consultation process, TRC requests a meeting to discuss the general scope of the proposed Project and the consultation process with the DNR moving forward. This meeting will be the first of many opportunities to participate in the development and review of these projects. We will be contacting you soon and hope to schedule this meeting within the next month. Additional information such as a GIS SHP files of the Project study corridor to aid in the review of the Project can also be provided at that time.

Michigan Department of Natural Resources  
September 22, 2014  
Page 2 of 2

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,

A handwritten signature in black ink that reads "Michael Lychwala". The signature is written in a cursive style with a large initial "M".

Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Angela Gardner, TRC





Figure 1 - Project Overview Map  
NEXUS Pipeline Project



Table of Rare, Threatened, and Endangered Species to the State of Michigan With Occurrences in Counties Traversed by NEXUS					
Common Name	Scientific Name	Lenawee	Monroe	Washtenaw	Wayne
<b><i>Fish and Wildlife Species</i></b>					
Lake sturgeon	Acipenser fulvescens				T
Blanchard's Cricket Frog	Acris crepitans blanchardi	T	T	T	
Corylus dagger moth	Acronicta falcula	SC			
Corylus dagger moth	Acronicta falcula			SC	
Elktoe	Alasmidonta marginata		SC	SC	SC
Slippershell	Alasmidonta viridis		T	T	T
Smallmouth salamander	Ambystoma texanum		E	E	E
Eastern sand darter	Ammocrypta pellucida	T	T		T
Henslow's sparrow	Ammodramus henslowii	E		E	E
Grasshopper Sparrow	Ammodramus savannarum		SC	SC	SC
Dusted skipper	Atrytonopsis hianna		SC		
Gold moth	Basilodes pepita	SC			
Pipevine swallowtail	Battus philenor	SC		SC	SC
American bittern	Botaurus lentiginosus			SC	
Red-shouldered hawk	Buteo lineatus			T	T
Swamp metalmark	Calephelis mutica			SC	
Land Snail	Catinella protracta			E	
Magdalen underwing	Catocala illecta	SC			
Robinson's underwing	Catocala robinsoni				SC
Campeloma spire snail	Cincinnatia cincinnatiensis	SC	SC	SC	SC
Marsh wren	Cistothorus palustris	SC	SC	SC	SC
Spotted turtle	Clemmys guttata	T		T	T
Redside dace	Clinostomus elongatus	E		E	E
Kirtland's snake	Clonophis kirtlandii	E		E	
Lake herring	Coregonus artedi			T	
Least shrew	Cryptotis parva			T	
Least Shrew	Cryptotis parva			T	
Purple wartyback	Cyclonaias tuberculata	T	T	T	T
Trumpeter swan	Cygnus buccinator			T	
Cerulean warbler	Dendroica cerulea			T	T
Prairie warbler	Dendroica discolor			E	

Domed disc	<i>Discus patulus</i>			SC	
Pine imperial moth	<i>Eacles imperialis pini</i>			SC	
Blanding's turtle	<i>Emydoidea blandingii</i>	SC	SC	SC	SC
Northern riffleshell	<i>Epioblasma torulosa rangiana</i>	E	E		E
Snuffbox	<i>Epioblasma triquetra</i>		E	E	E
Creek chubsucker	<i>Erimyzon claviformis</i>	E	E		
Wild indigo duskywing	<i>Erynnis baptisiae</i>		SC	SC	
Orangethroat darter	<i>Etheostoma spectabile</i>		SC	SC	
Dukes' skipper	<i>Euphyes dukesi</i>	T	T	T	T
Peregrine Falcon	<i>Falco peregrinus</i>		E	E	E
Northern hairstreak	<i>Fixsenia favonius ontario</i>	SC			SC
Leafhopper	<i>Flexamia reflexus</i>	SC	SC	SC	
Common moorhen	<i>Gallinula chloropus</i>		T	T	T
Lambda snaggletooth	<i>Gastrocopta holzingeri</i>			E	
Bald eagle	<i>Haliaeetus leucocephalus</i>	SC	SC	SC	SC
Barrens buckmoth	<i>Hemileuca maia</i>		SC	SC	SC
Smokey rubyspot	<i>Hetaerina titia</i>	SC	SC	SC	SC
Riley's lappet moth	<i>Heteropacha rileyana</i>	SC			
Mooneye	<i>Hiodon tergisus</i>				T
Frosted elfin	<i>Incisalisa irus</i>		T		
Least Bittern	<i>Ixobrychus exilis</i>		T	T	T
Wavyrayed lampmussel	<i>Lampsilis fasciola</i>	T	T	T	T
Spotted gar	<i>Lepisosteus oculatus</i>			SC	
Angular spittlebug	<i>Lepyronia angulifera</i>	SC		SC	
Eastern pondmussel	<i>Ligumia nasuta</i>		E		E
Black sandshell	<i>Ligumia recta</i>	E	E	E	E
Virginia flax	<i>Linum virginianum</i>			T	
Purple twayblade	<i>Liparis liliifolia</i>			SC	SC
Karner blue butterfly	<i>Lycaeides melissa samuelis</i>		T		
Silver chub	<i>Macrhybopsis storeriana</i>		SC		SC
Copper button	<i>Mesomphix cupreus</i>		SC	SC	SC
Woodland vole	<i>Microtus pinetorum</i>			SC	
River redhorse	<i>Moxostoma carinatum</i>				T
Indiana bat	<i>Myotis sodalis</i>	E		E	E

Mitchell's satyr	<i>Neonympha mitchellii mitchellii</i>	E		E	E
American burying beetle	<i>Nicrophorus americanus</i>			X	
Bigeye chub	<i>Notropis amblops</i>	X			
Pugnose shiner	<i>Notropis anogenus</i>	E		E	E
Silver shiner	<i>Notropis photogenis</i>		E	E	
Brindled madtom	<i>Noturus miurus</i>	SC	SC	SC	SC
Northern madtom	<i>Noturus stigmosus</i>			E	E
Evening Bat	<i>Nycticeius humeralis</i>	T			
Black-crowned night-heron	<i>Nycticorax nycticorax</i>		SC		
Black-crowned night-heron	<i>Nycticorax nycticorax</i>				SC
Poweshiek skipperling	<i>Oarisma poweshiek</i>	T			
Poweshiek skipperling	<i>Oarisma poweshiek</i>			T	
Threehorn wartyback	<i>Obliquaria reflexa</i>		E		E
Tamarack tree cricket	<i>Oecanthus laricis</i>	SC		SC	
Pugnose minnow	<i>Opsopoeodus emiliae</i>		E		E
Depressed ambersnail	<i>Oxyloma peoriense</i>			SC	
Eastern fox snake	<i>Pantherophis gloydi</i>		T		T
Gray ratsnake	<i>Pantherophis spiloides</i>	SC		SC	
Blazing star borer	<i>Papaipema beeriana</i>		SC	SC	
Maritime sunflower borer	<i>Papaipema maritima</i>		SC		
Culvers root borer	<i>Papaipema sciata</i>		SC	SC	
Silphium borer moth	<i>Papaipema silphii</i>		T	T	
Regal fern borer moth	<i>Papaipema speciosissima</i>	SC			
Channel darter	<i>Percina copelandi</i>		E		E
River darter	<i>Percina shumardi</i>		E		E
Wilson's phalarope	<i>Phalaropus tricolor</i>		SC		
Southern redbelly dace	<i>Phoxinus erythrogaster</i>	E		E	
Southern redbelly dace	<i>Phoxinus erythrogaster</i>		E		
Greater European pea clam	<i>Pisidium amnicum</i>				SC
Ornamanted peaclam	<i>Pisidium cruciatum</i>			SC	
A fingernail clam	<i>Pisidium simplex</i>				SC
Round pigtoe	<i>Pleurobema sintoxia</i>	SC	SC	SC	SC
Brown Walker	<i>Pomatiopsis cincinnatiensis</i>	SC	SC	SC	SC
Red-legged spittlebug	<i>Prosapia ignipectus</i>	SC		SC	

Prothonotary warbler	Protonotaria citrea				SC
Kidney shell	Ptychobranchnus fasciolaris	SC			SC
Kidney shell	Ptychobranchnus fasciolaris		SC	SC	
Widespread column	Pupilla muscorum			SC	
Gravel pyrg	Pyrgulopsis letsoni		SC	E	
King rail	Rallus elegans		E		E
Queen snake	Regina septemvittata		SC		
Sauger	Sander canadensis		T		T
Louisiana waterthrush	Seiurus motacilla			T	
Salamander mussel	Simpsonaias ambigua	E	E		E
Eastern massasauga	Sistrurus catenatus catenatus	SC		SC	SC
Regal fritillary	Speyeria idalia	E		E	E
River fingernail clam	Sphaerium fabale	SC		SC	
Dickcissel	Spiza americana		SC	SC	SC
Forster's tern	Sterna forsteri				T
Common tern	Sterna hirundo		T		T
Western meadowlark	Sturnella neglecta				SC
Laura's snaketail	Stylurus laurae			SC	SC
Elusive snaketail	Stylurus notatus				SC
Russet-tipped clubtail	Stylurus plagiatus		SC		SC
Eastern box turtle	Terrapene carolina carolina	SC	SC	SC	
Purple Lilipt	Toxolasma lividus		E		
Lilliput	Toxolasma parvus	E	E		
Lilliput	Toxolasma parvus				E
Fawnsfoot	Truncilla donaciformis		T		T
Deertoe	Truncilla truncata	SC			SC
Barn owl	Tyto alba		E		
Paper pondshell	Utterbackia imbecillis		SC	SC	SC
Trumpet vallonina	Vallonia parvula		SC		
Flat dome	Ventridens suppressus			SC	
Ellipse	Venustaconcha ellipsiformis			SC	
Rayed bean	Villosa fabalis	E	E		E
Rainbow	Villosa iris	SC	SC	SC	SC
Epioblasma obliquata perobliqua	White catpaw		E		E

Hooded warbler	Wilsonia citrina			SC	SC
<b>Plants</b>					
Climbing fumitory	Adlumia fungosa	SC		SC	SC
Gattinger's gerardia	Agalinis gattingeri		E		
Beaked agrimony	Agrimonia rostellata	T		T	
Hairy angelica	Angelica venenosa	SC	SC	SC	SC
Banded globe	Anguispira kochi			SC	
Missouri rock-cress	Arabis missouriensis var. deamii		SC		SC
Three-awned grass	Aristida longespica		T		T
Virginia snakeroot	Aristolochia serpentaria	T		T	T
Western mugwort	Artemisia ludoviciana	T			
Western mugwort	Artemisia ludoviciana			T	
Tall green milkweed	Asclepias hirtella		T		T
Purple milkweed	Asclepias purpurascens	T	T	T	
Sullivant's milkweed	Asclepias sullivantii	T	T	T	T
Willow aster	Aster praealtus	SC	SC	SC	SC
Canadian milk vetch	Astragalus canadensis	T		T	
Cooper's milk vetch	Astragalus neglectus			SC	
White or prairie false indigo	Baptisia lactea	SC	SC	SC	
Murray birch	Betula murrayana			SC	
Gray birch	Betula populifolia				SC
Side-oats grama grass	Bouteloua curtipendula			E	
Satin brome	Bromus nottowanus	SC		SC	
Prairie indian-plantain	Cacalia plantaginea	SC			
Swamp metalmark	Calephelis mutica	SC			SC
Wild hyacinth	Camassia scilloides	T	T		T
Sedge	Carex albolutescens	SC			
Sedge	Carex conjuncta	SC			
Raven's-foot sedge	Carex crus-corvi		E		
Davis's Sedge	Carex davisii	SC	SC	SC	
Fescue sedge	Carex festucacea		SC	SC	
False hop sedge	Carex lupuliformis			T	
Sedge	Carex seorsa			T	
Sedge	Carex squarrosa	SC	SC	SC	SC

Hairy-fruited sedge	Carex trichocarpa	SC		SC	
American chestnut	Castanea dentata		E		E
Dwarf hackberry	Celtis tenuifolia	SC		SC	
Field Chickweed	Cerastium velutinum				X
Purple turtlehead	Chelone obliqua			E	
Knotweed dodder	Cuscuta polygonorum	SC	SC		
Ram's head lady's-slipper	Cypripedium arietinum			SC	
White lady slipper	Cypripedium candidum	T			
White lady slipper	Cypripedium candidum			T	
Mullein-foxtail	Dasistoma macrophylla				
Beak grass	Diarrhena obovata	T	T		T
Leiberg's panic grass	Dichanthelium leibergii		T	T	
Round-seed panic-grass	Dichanthelium polyanthes	E			
Creeping whitlow grass	Draba reptans			T	
Purple coneflower	Echinacea purpurea			X	
Engelmann's spike rush	Eleocharis engelmannii	SC			SC
Horsetail spike rush	Eleocharis equisetoides			SC	
Spike Rush	Eleocharis geniculata			X	
Spike Rush	Eleocharis radicans			X	
Small love grass	Eragrostis pilosa	SC		SC	SC
Wahoo	Euonymus atropurpurea	SC		SC	SC
Hollow-stemmed Joe-pye weed	Eupatorium fistulosum	T			
Upland boneset	Eupatorium sessilifolium			T	
Tinted spurge	Euphorbia commutata				T
Pumpkin ash	Fraxinus profunda				T
Umbrella-grass	Fuirena pumila			T	
Showy orchis	Galearis spectabilis	T		T	T
White gentian	Gentiana flavida			E	
Downy gentian	Gentiana puberulenta			E	
Stiff gentian	Gentianella quinquefolia		T	T	T
Pale avens	Geum virginianum	SC		SC	SC
Whiskered sunflower	Helianthus hirsutus	SC		SC	
Downy sunflower	Helianthus mollis		T		
Dwarf-bulrush	Hemicarpha micrantha		SC	SC	

Smooth rose-mallow	Hibiscus laevis		X		
Green violet	Hybanthus concolor	SC		SC	SC
Goldenseal	Hydrastis canadensis	T	T	T	T
Gentian-leaved St. John'swort	Hypericum gentianoides		SC		SC
Round-fruited St. John'swort	Hypericum sphaerocarpum		E		
Whorled pogonia	Isotria verticillata			T	
Twinleaf	Jeffersonia diphylla	SC		SC	SC
Short-fruited rush	Juncus brachycarpus		T		T
Vasey's rush	Juncus vaseyi				T
Water willow	Justicia americana		T	T	T
Woodland lettuce	Lactuca floridana	T	T		T
Least pinweed	Lechea minor		X	X	
Leggett's pinweed	Lechea puchella		T		
Conobea	Leucospora multifida		SC		SC
Plains blazing star	Liatris squarrosa				X
Purple twayblade	Liparis liliifolia	SC			
Broad-leaved puccoon	Lithospermum latifolium	SC		SC	
Northern prostrate clubmoss	Lycopodiella margueritae			T	
Northern appressed clubmoss	Lycopodiella subappressa			SC	SC
Virginia water-horehound	Lycopus virginicus	T			T
Swamp candles	Lysimachia hybrida				X
Newman's brocade	Meropleon ambifusca				SC
Virginia bluebells	Mertensia virginica	E			
Yellow globelet	Mesodon clausus	SC	SC		
Proud globe	Mesodon elevatus		T		
Proud globelet	Mesodon pennsylvanicus		SC		SC
Winged monkey flower	Mimulus alatus				X
Red mulberry	Morus rubra	T	T	T	T
Mat muhly	Muhlenbergia richardsonis			T	
Northern bayberry	Myrica pensylvanica			T	
American lotus	Nelumbo lutea		T		T
Hickorynut	Obovaria olivaria		E	E	E
Round hickorynut	Obovaria subrotunda	E	E		E
Southeastern adder's-tongue	Ophioglossum vulgatum	E			

Violet wood sorrel	<i>Oxalis violacea</i>		X		
Ginseng	<i>Panax quinquefolius</i>		T	T	T
Low-forked chickweed	<i>Paronychia fastigiata</i>			X	
Pale beard tongue	<i>Penstemon pallidus</i>	SC			SC
Pale beard tongue	<i>Penstemon pallidus</i>			SC	
Wild bean	<i>Phaseolus polystachios</i>				X
Wideflower phlox	<i>Phlox ovata</i>	E			
Yellow fringed orchid	<i>Platanthera ciliaris</i>		E	E	
Prairie white-fringed orchid	<i>Platanthera leucophaea</i>		E	E	E
Bog bluegrass	<i>Poa paludigena</i>			T	
Jacob's ladder	<i>Polemonium reptans</i>	T		T	
Cross-leaved milkwort	<i>Polygala cruciata</i>		SC		SC
Swamp cottonwood	<i>Populus heterophylla</i>	E		E	
Sand cinquefoil	<i>Potentilla paradoxa</i>		T		T
Nodding rattlesnake-root	<i>Prenanthes crepidinea</i>				T
Nodding mandarin	<i>Prosartes maculata</i>				X
Alleghany plum	<i>Prunus alleghaniensis</i> var. <i>davisii</i>	SC			
Hairy mountain mint	<i>Pycnanthemum pilosum</i>		T		
Shumard's oak	<i>Quercus shumardii</i>		SC		SC
Prairie buttercup	<i>Ranunculus rhomboideus</i>			T	
Meadow beauty	<i>Rhexia virginica</i>				SC
Bald-rush	<i>Rhynchospora scirpoides</i>			T	
Hairy wild petunia	<i>Ruellia humilis</i>			T	T
Smooth ruellia	<i>Ruellia strepens</i>	E			
Rosepink	<i>Sabatia angularis</i>			T	
Arrowhead	<i>Sagittaria montevidensis</i>		T		T
Canadian burnet	<i>Sanguisorba canadensis</i>			E	E
Clinton's bulrush	<i>Scirpus clintonii</i>			SC	SC
Few-flowered nut rush	<i>Scleria pauciflora</i>				E
Tall nut rush	<i>Scleria triglomerata</i>		SC	SC	SC
Forest skullcap	<i>Scutellaria ovata</i>	T			
Fire pink	<i>Silene virginica</i>				E
Rosinweed	<i>Silphium integrifolium</i>			T	
Compass plant	<i>Silphium laciniatum</i>			T	T



Cup plant	<i>Silphium perfoliatum</i>	T	T	T	T
Blue-eyed-grass	<i>Sisyrinchium hastile</i>				X
Smooth carrion-flower	<i>Smilax herbacea</i>				SC
Lesser ladies'-tresses	<i>Spiranthes ovalis</i>			T	
Prairie dropseed	<i>Sporobolus heterolepis</i>	SC		SC	
Trailing wild Bean	<i>Strophostyles helvula</i>		SC	SC	SC
Virginia spiderwort	<i>Tradescantia virginiana</i>		SC	SC	
False pennyroyal	<i>Trichostema brachiatum</i>	T			
Prairie trillium	<i>Trillium recurvatum</i>				T
Toadshade	<i>Trillium sessile</i>	T		T	
Edible valerian	<i>Valeriana edulis</i> var. <i>ciliata</i>	T		T	
Corn salad	<i>Valerianella umbilicata</i>		T		
Black haw	<i>Viburnum prunifolium</i>	SC			
Wisteria	<i>Wisteria frutescens</i>				T
Wild rice	<i>Zizania aquatica</i> var. <i>aquatica</i>		T	T	T

## **Lychwala, Michael**

---

**From:** Sargent, Lori (DNR) <SargentL@michigan.gov>  
**Sent:** Tuesday, September 23, 2014 9:17 AM  
**To:** Lychwala, Michael  
**Subject:** RE: NEXUS Transmission, LLC - NEXUS Project

The Michigan Department of Natural Resources (DNR) is, unfortunately, no longer able to conduct Environmental Reviews (ER) and ceased acceptance of review requests September 16, 2011. Funding for the program was not included in the state budget for the fiscal year that begins October 1 and issuance of clearance letters will no longer be done. Project review requests can be sent to Michigan Natural Features Inventory (MNFI), a program of Michigan State University Extension.

After Oct. 1, MNFI will review projects for potential impacts to endangered species, but there will now be a cost to the requestor for MNFI's services. For information on environmental reviews or to request environmental reviews after October 1, 2011, go to MNFI website at <http://mnfi.anr.msu.edu/>. Requests will no longer be accepted through the DNR Endangered Species Assessment web site.

Endangered species and wetland laws remain in place. Under Part 365 of Public Act 451 people are not allowed to take or harm any endangered or threatened of fish, plants or wildlife. The DNR will still be responsible for issuing permits and enforcement relative to the take of endangered and threatened species.

If you have any questions, please e-mail me at [SargentL@michigan.gov](mailto:SargentL@michigan.gov). Thank you.

Lori Sargent  
DNR Wildlife Division  
PO Box 30444  
Lansing, MI 48909  
517-284-6216  
[SargentL@michigan.gov](mailto:SargentL@michigan.gov)

*Did you know 60 threatened and 59 endangered animals call Michigan home at some point in their lives? 2014 marks the 40<sup>th</sup> anniversary of Michigan's Endangered Species Act. Go to [www.michigan.gov/wildlife](http://www.michigan.gov/wildlife) for more information.*

---

**From:** Lychwala, Michael [mailto:MLychwala@trcsolutions.com]  
**Sent:** Monday, September 22, 2014 5:07 PM  
**To:** Sargent, Lori (DNR)  
**Subject:** NEXUS Transmission, LLC - NEXUS Project

Good Afternoon,

On behalf of NEXUS Gas Transmission, LLC (NEXUS), which is a joint venture between Spectra Energy and DTE Energy Co, TRC is requesting to conduct consultation with the MDNR. NEXUS is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project ("NEXUS Project" or the "Project") traverses approximately 46-miles through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne.

I have attached an initial consultation request letter that includes a general map of the Project location. Due to the scale of the project, we would like to come in and meet with the MDNR to introduce the Project and go over the basic scope,

schedule and consultation process. We have some public informational meetings during the first two weeks of October that the project will be hosting in the evenings. We were hoping it might be possible to stop by your office during one of those days if your schedule allows. We can also provide a shapefile at that time and also plan complete the Michigan Natural Features Inventory data request process.

If you have any questions or what to talk about anything prior to a meeting please don't hesitate to give me a call or send an e-mail. I look forward to working with the MDNR on this Project.

Thanks,

Michael Lychwala  
Office Practice Leader  
Planning, Permitting, and Licensing



6 Ashley Drive, Scarborough, ME 04074  
T: 207-274-2603 | F: 207.879.9293 | C: 207.232.1739

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## Gardner, Angela

---

**From:** Gardner, Angela  
**Sent:** Friday, November 14, 2014 1:10 PM  
**To:** 'TANGORAS@michigan.gov'  
**Subject:** Nexus Pipeline Project-Invasive Species List and Recommendations  
**Attachments:** NexusGas\_Overview\_1mi\_Survey\_Area.pdf

Hello Sue-

Karen Cleveland and Kristin Bissell recommended that I contact you to obtain information on invasive species and recommendations for control/prevention of invasive species in construction projects. I am working with Spectra Energy on their proposed Nexus Pipeline that is approximately 245 miles long beginning in Kensington, OH and ends in Willow Run, MI. Approximately 45 miles of the pipeline is within MI and I have attached a location map of the line to this email for your information.

We are beginning to conduct field surveys of the proposed line and beginning construction planning to kick off permitting. We are looking for any information that DNR has on invasive species such as lists of species regarded as invasive and any guidance or recommendations DNR may have for controlling or preventing invasive species during construction.

If you have any questions or wish to discuss my request, please feel free to call me at 716-796-8071. Thank you for your time.

Kind Regards,

Angela

Angela Gardner  
Project Manager/Biologist



2801 Wehrle Drive Suite 8, Williamsville, NY 14221  
T: 716.204.9543 | C: 716.796.8071 | F: 716.204.9545

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## Gardner, Angela

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**From:** Gehring, Timothy  
**Sent:** Thursday, May 28, 2015 10:15 AM  
**To:** Kennedy, Daniel (DNR)  
**Cc:** Sargent, Lori (DNR); Barczyk, Matt; Lychwala, Michael; Gardner, Angela  
**Subject:** RE: Nexus - T&E Species

Hi Dan,

Looks like the morning of June 16<sup>th</sup> at 10 AM would work best for us. Let me know if that will work for you and Lori.

We look forward to meeting with you and Lori.

Thanks,  
Tim

*Timothy C. Gehring*  
Project Manager



1540 Eisenhower Place, Ann Arbor, MI 48108  
T: 734-585-7815 | F: 734.971.9022 | C: 734.904.3307

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---

**From:** Kennedy, Daniel (DNR) [mailto:KENNEDYD@michigan.gov]  
**Sent:** Wednesday, May 27, 2015 4:37 PM  
**To:** Gehring, Timothy; Sargent, Lori (DNR)  
**Cc:** Barczyk, Matt; Lychwala, Michael; Gardner, Angela  
**Subject:** RE: Nexus - T&E Species

Tim,

We'd be happy to meet in Lansing in Constitution Hall. Lori and I are available on June 15<sup>th</sup> in the afternoon and June 16<sup>th</sup> except for 1-2pm. Do either of those dates/times work for you?

Dan

\*\*\*\*\*

Dan Kennedy  
Endangered Species Coordinator  
Michigan DNR, Wildlife Division  
P.O. Box 30444  
525 W. Allegan  
Lansing, MI 48909-7944  
Office: 517-284-6194

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---

**From:** Gehring, Timothy [<mailto:TGehring@trcsolutions.com>]  
**Sent:** Wednesday, May 27, 2015 2:27 PM  
**To:** Kennedy, Daniel (DNR); Sargent, Lori (DNR)  
**Cc:** Barczyk, Matt; Lychwala, Michael; Gardner, Angela  
**Subject:** Nexus - T&E Species

Dan/Lori:

TRC is currently working with Spectra Energy on the Nexus Pipeline project which is proposed to be located in southeast Michigan (Washtenaw, Lenawee, Monroe Counties). As you know (from Angela Gardner - TRC) we have found two Evening Bats along the proposed ROW for the project. Will a T&E permit be required if all tree clearing is completed during the winter months and efforts are made to minimize the need for tree clearing?

Also, would it be possible for Spectra and TRC to meet with you and Dan Kennedy in Lansing, to discuss the T&E Permit process/requirements and current status for Nexus? If so, I can coordinate with you, Spectra and others within TRC to get a meeting date and time on the calendar.

Thanks,  
Tim

*Timothy C. Gehring*  
Project Manager



1540 Eisenhower Place, Ann Arbor, MI 48108  
T: 734-585-7815 | F: 734.971.9022 | C: 734.904.3307

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## Gardner, Angela

---

**From:** Gardner, Angela  
**Sent:** Tuesday, September 23, 2014 12:23 PM  
**To:** 'schools@msu.edu'  
**Cc:** Lychwala, Michael  
**Subject:** NEXUS Transmission, LLC-NEXUS Project Information Request  
**Attachments:** MI\_Natural\_Features\_Inventory\_Nexus\_9232014.pdf; Nexus\_1mi\_Survey\_Area.zip

Dear Mr. Schools,

Please see the attached request for an enhanced review of the proposed NEXUS Project. A SHP file of the study corridor in which the request covers is attached to this email. If you have any questions or require further information, please contact me at 716-796-8071 or via email at [agardner@trcsolutions.com](mailto:agardner@trcsolutions.com). I greatly appreciate your time and attention to this request.

Kind Regards,

Angela Gardner  
Biologist



2801 Wehrle Drive Suite 8, Williamsville, NY 14221  
T: 716.204.9543 | C: 716.796.8071 | F: 716.204.9545

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6 Ashley Drive  
1st Floor  
Scarborough, ME 04074

207.879.1930 PHONE  
207.879.9293 FAX

www.trcsolutions.com

September 23, 2014

Ed Schools (schools@msu.edu)  
Michigan Natural Features Inventory  
3<sup>rd</sup> Floor Constitution Hall  
525 W. Allegan St.  
Lansing, MI 48933

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co. is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses approximately 46-miles through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. NEXUS is investigating a study corridor as generally depicted on attached Figure 1.

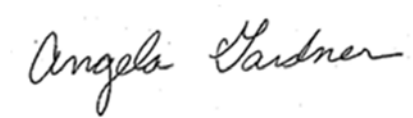
Initial review of the potential pipeline corridor indicated that rare, threatened and/or endangered species may be present based on published county lists. On behalf of NEXUS, TRC is requesting the assistance of the Michigan Natural Features Inventory (“MNFI”) to determine if any of these species are known to occur within the one-mile wide area under investigation. This information will assist us in determining a route to potentially avoid and minimize disruption to sensitive habitat and determine potential seasonal or species specific surveys that maybe required during permitting of the Project. Any further comments or survey guidance regarding rare, threatened, endangered or other important species is also welcomed.

To help facilitate our review of the study corridor and assist NEXUS in determining potential pipeline routes, TRC requests an Enhanced Review of our study corridor. If possible, we kindly request SHP files of the location of sensitive or occupied habitats and locations of species observed within our study corridor. All information provided will be treated as confidential and not for public use. A GIS SHP file of the Project study corridor will be provided to the MNFI to aid in this request.



If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (716) 796-8071 or via email at [agardner@trcsolutions.com](mailto:agardner@trcsolutions.com)

Sincerely,

A handwritten signature in cursive script that reads "Angela Gardner".

Angela Gardner, TRC  
Biologist

cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC



**Legend:**

- Red line: NEXUS Survey Area
- Grey line: County Boundary
- Black line: State Boundary

**NEXUS Pipeline Project Survey Area**

**NEXUS**  
GAS TRANSMISSION

9/16/2014

## Jordan, Stephenie

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**From:** Gardner, Angela  
**Sent:** Monday, October 13, 2014 8:18 AM  
**To:** Lychwala, Michael; Carr, Rachel N.; Gravel, Jonathan; Redmond-Miller, Kathleen  
**Subject:** FW: Rare Species Enhanced Review Request- NEXUS Pipeline Project  
**Attachments:** RSR\_1536\_Response\_Letter.pdf; NEXUS Gas Project Overview map enhanced review.pdf; NEXUS Gas Project Local Map 1.pdf; NEXUS Gas Project Local Map 2.pdf

See that attached for the RTE species the route crosses in Michigan.

Rachel- I am working on getting SHP files of the occurrences. I will keep you posted if I can get them.

---

**From:** Michael Sanders [mailto:sander75@msu.edu]  
**Sent:** Thursday, October 09, 2014 4:06 PM  
**To:** Gardner, Angela  
**Subject:** RE: Rare Species Enhanced Review Request- NEXUS Pipeline Project

Hi Angela,

Attached are the results and associated maps for the Rare Species Review of the NEXUS pipeline project. Please let me know if you have questions or comments.

Thank you,

Mike Sanders

Michael A. Sanders  
Environmental Review Specialist/Zoologist  
Michigan Natural Features Inventory  
PO Box 13036  
Lansing, MI 48901-3036  
517-284-6215  
[sander75@msu.edu](mailto:sander75@msu.edu)

---

**From:** Gardner, Angela [mailto:AGardner@trcsolutions.com]  
**Sent:** Wednesday, October 01, 2014 4:11 PM  
**To:** [mnfi@msu.edu](mailto:mnfi@msu.edu)  
**Cc:** Lychwala, Michael  
**Subject:** Rare Species Enhanced Review Request- NEXUS Pipeline Project

Hello-

I sent that attached request to Mr. Ed Schools on September 23<sup>rd</sup> in regards to the NEXUS Pipeline project. Mr. Schools has not responded to date and I am in need of an expedited request. (I am aware of the add cost for the expedited request and am accepting of the cost.) As such, I am submitting my request to the MNFI's general mailbox as well. For MNFI's convenience, I have attached a SHP file of our study corridor.

If you have any questions or need further information regarding this request, please contact me at this email address or by phone at 716-796-8071.

Thank you for your time.

Angela Gardner  
Project Manager/Biologist



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50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

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*Via U.S. Mail*

December 4, 2014

Mr. Brian D. Conway  
State Historic Preservation Officer  
State Historic Preservation Office  
Michigan Library and Historical Center  
Box 30740  
702 West Kalamazoo Street  
Lansing, Michigan, 48909-8240

**Subject:        NEXUS Gas Transmission, LLC  
                  NEXUS Gas Transmission Pipeline Project  
                  Section 106 Consultation**

Dear Mr. Conway:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is seeking authorization from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act to construct, own, and operate the proposed NEXUS Gas Transmission Project (Project). NEXUS is proposing to construct and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The project will include approximately 46-miles through three (3) counties in Michigan, including Lenawee, Monroe, and Washtenaw. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

We are currently briefing federal, state, and local officials on the proposed Project. In addition, we will be continually meeting with individual landowners and other stakeholders to identify any initial concerns that they may have and to seek their input regarding this early stage of the proposed Project.

Beginning in late September 2014, NEXUS representatives began field survey work for the Project and representatives of your office were briefed on details of the project in a meeting conducted at the Michigan Historical Center (MHC) between TRC Environmental Corp. (TRC), Commonwealth Cultural Resources Group (CCRG) and Dr. Dean Anderson on October 8, 2014. In order to accurately respond to anticipated questions and concerns about the NEXUS Project, NEXUS needs to begin collecting the necessary data to evaluate and design the potential project facilities. To that end, on behalf of NEXUS, TRC respectfully requests the initiation of consultation with your office in accordance with Section 106 of the National Historic Preservation Act (16 U.S.C. § 470, as amended) and its implementing regulations (36 CFR 800). To assist in our cultural resource investigations, we request your review of the attached location map of facilities location. Information concerning Native American consultation has been

Mr. Conway  
Michigan State Historic Preservation Office  
December 4, 2014

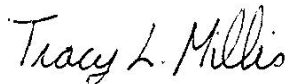
provided to the Shawnee, Delaware, Seneca, Potawatomi, Miami, Wyandotte, Peoria, and Ottawa tribes and nations, but we would also appreciate your thoughts concerning any additional Native American consultation that might be appropriate for the Project.

NEXUS's intent is to inform and consult with stakeholders early in the development of the Project. NEXUS intends to utilize the FERC's National Environmental Policy Act pre-filing process (Pre-filing Process). The Pre-filing Process provides all stakeholders (federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating a project prior to filing a formal application with the FERC. The purpose of the Pre-filing Process is to identify, evaluate, and attempt to resolve issues and concerns prior to the filing of formal project applications. This process will require multiple agency meetings, public meetings, and the documentation of continuing efforts to identify and address concerns under the direction of the FERC. The public will then have the opportunity to comment on NEXUS's draft environmental resource reports prior to the filing of a formal FERC application. NEXUS will also be filing for various additional federal and state permits during this process. By initiating this early agency consultation and involvement, NEXUS also intends to assist those agencies that have coordination obligations with the FERC described in its order No. 687 concerning the coordination and timing of federally delegated state authorizations in order to comply with the Energy Policy Act of 2005.

Following the Pre-filing Process, NEXUS will file a formal application for review and approval from the FERC and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. NEXUS plans to request authorization from the FERC to participate in its pre-filing process in the fourth quarter 2014. NEXUS will file a formal application for review and approval from the FERC, as well as permit applications with other relevant state and federal agencies. The Draft Resource Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the Project will be fully operational in December 2017. Additional information regarding the FERC Pre-filing Process and FERC approval process can be found at [www.ferc.gov](http://www.ferc.gov).

We look forward to working with you during the environmental review process. Please contact me at (919) 414-3420, or (919) 530-8446 x224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com) if you have questions or require additional information.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Attachment



- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project

# **TRIBES**

## **Correspondence**

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50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4350

George Blanchard  
Governor  
Absentee-Shawnee Tribe of Oklahoma  
2025 S. Gordon Cooper Drive  
Shawnee, OK 74801

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Governor Blanchard:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

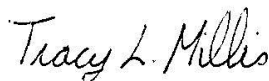
Following FERC guidance, NEXUS is assisting the FERC in meeting its obligations under Section 106 of the National Historic Preservation Act of 1966, as amended. TRC, under contract to Spectra Energy, is also providing assistance in the Section 106 process, and we respectfully request your input regarding the potential of the Project to affect significant cultural resources, including archaeological sites, burials, and traditional cultural properties so that these may be addressed prior to any ground-disturbing activities. TRC is also consulting with the Ohio Historic Preservation Office and the Michigan Historic Preservation Office about the project and will be completing the necessary archaeological and historic structures surveys as required under Section 106. While the regulations for implementing Section 106 of the National Historic Preservation Act (at 36 CFR 800) allow companies or consultants to gather information, the FERC will be ultimately responsible for determinations.

Although NEXUS is seeking your input regarding potential cultural resource concerns for the Project, the FERC (not NEXUS) is responsible for government-to-government consultations with tribal governments. After the initiation of FERC's involvement, the FERC will contact tribal governments through issuance of a Notice of Intent to Produce an Environmental Document and/or individual letters to tribes. If you would like to communicate directly with the FERC natural gas archaeological staff to discuss its cultural resource review and consultation processes, please feel free to contact Paul Friedman, Senior Technical Expert in Cultural Resources, Office of Energy Projects, at 202-502-8059 (email: [paul.friedman@ferc.gov](mailto:paul.friedman@ferc.gov)).

For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Joseph Blanchard, Absentee-Shawnee Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



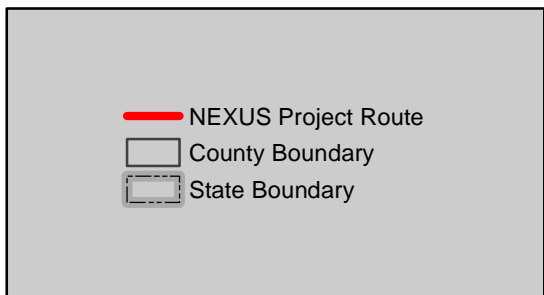


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

George Blanchard  
Governor  
Absentee-Shawnee Tribe of Oklahoma  
2025 S. Gordon Cooper Drive  
Shawnee, OK 74801

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist





50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4367

Joseph Blanchard  
Tribal Historic Preservation Officer  
Absentee-Shawnee Tribe of Oklahoma  
2025 S. Gordon Cooper Drive  
Shawnee, OK 74801

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Mr. Blanchard:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

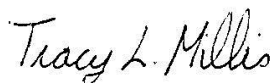
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: George Blanchard, Absentee-Shawnee Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



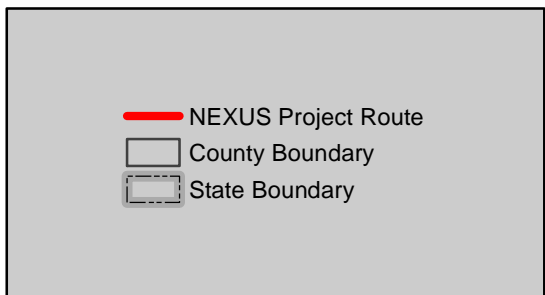


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Joseph Blanchard  
Tribal Historic Preservation Officer  
Absentee-Shawnee Tribe of Oklahoma  
2025 S. Gordon Cooper Drive  
Shawnee, OK 74801

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4947

Michael Wiggins  
Chairman  
Bad River Band of the Lake Superior Tribe  
of Chippewa Indians of the Bad River  
Reservation  
P. O. Box 39  
Odanah, WI 54861-0039

Edith Leoso  
Tribal Historic Preservation Officer  
Bad River Band of the Lake Superior Tribe  
of Chippewa Indians of the Bad River  
Reservation  
P. O. Box 39  
Odanah, WI 54861-0039

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Wiggins and Ms. Leoso:

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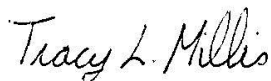
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



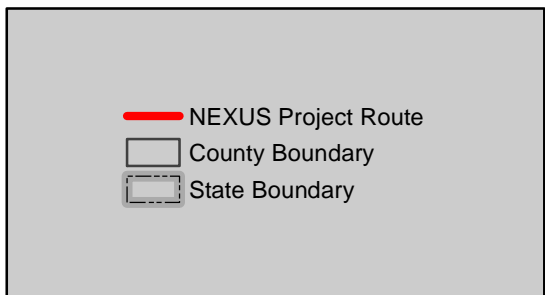


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Michael Wiggins  
Chairman  
Bad River Band of the Lake Superior Tribe  
of Chippewa Indians of the Bad River  
Reservation  
P. O. Box 39  
Odanah, WI 54861-0039

Edith Leoso  
Tribal Historic Preservation Officer  
Bad River Band of the Lake Superior Tribe  
of Chippewa Indians of the Bad River  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4930

Levi Carrick, Sr.  
Chairman  
Bay Mills Indian Community  
12140 W. Lakeshore Dr.  
Brimley, MI 49715

Paula Carrick  
Tribal Historic Preservation Officer  
Bay Mills Indian Community  
12140 W. Lakeshore Dr.  
Brimley, MI 49715

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Carrick and Ms. Carrick:

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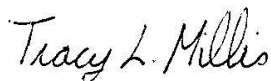
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



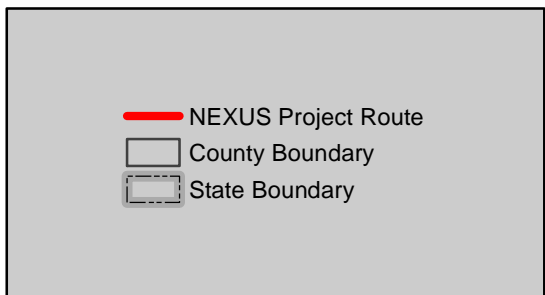


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Levi Carrick, Sr.  
Chairman  
Bay Mills Indian Community  
12140 W. Lakeshore Dr.  
Brimley, MI 49715

Paula Carrick  
Tribal Historic Preservation Officer  
Bay Mills Indian Community  
12140 W. Lakeshore Dr.  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4923

Kevin Leecy  
Chairman  
Bois Forte Band (Nett Lake) of the  
Minnesota Chippewa Tribe  
P.O. Box 16  
Nett Lake, MN 55772

Rosemary Berens  
Tribal Historic Preservation Officer  
Bois Forte Band (Nett Lake) of the  
Minnesota Chippewa Tribe  
P.O. Box 16  
Nett Lake, MN 55772

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Leecy and Ms. Berens:

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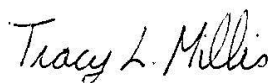
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



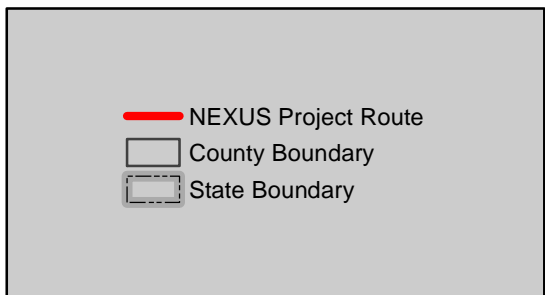


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Kevin Leecy  
Chairman  
Boise Forte Band (Nett Lake) of the  
Minnesota Chippewa Tribe  
P.O. Box 16  
Nett Lake, MN 55772

Rosemary Berens  
Tribal Historic Preservation Officer  
Boise Forte Band (Nett Lake) of the  
Minnesota Chippewa Tribe  
P.O. Box 16  
Nett Lake, MN 55772

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4916

Bruce Sunchild  
Chairman  
Chippewa-Cree Indians  
of the Rocky Boy's Reservation  
31 Agency Sq  
Box Elder, MT 59521-8818

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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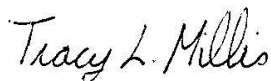
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Alvin Windy Boy, Chippewa-Cree Indians of the Rocky Boy's Reservation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form





- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Bruce Sunchild  
Chairman  
Chippewa-Cree Indians  
of the Rocky Boy's Reservation  
31 Agency Sq  
Box Elder, MT 59521-8818

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist







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919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4909

Alvin Windy Boy  
Tribal Historic Preservation Officer  
Chippewa-Cree Indians  
of the Rocky Boy's Reservation  
P. O. Box 230  
Elder, MT 59521

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Mr. Windy Boy:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

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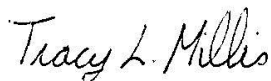
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Bruce Sunchild, Chippewa-Cree Indians of the Rocky Boy's Reservation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



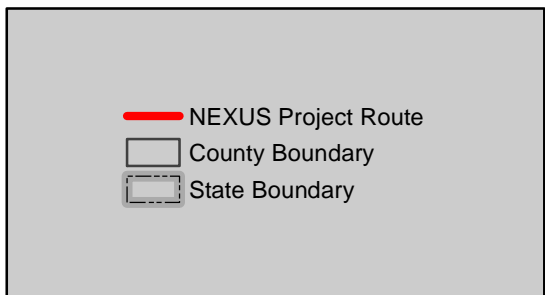


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Alvin Windy Boy  
Tribal Historic Preservation Officer  
Chippewa-Cree Indians  
of the Rocky Boy's Reservation  
P. O. Box 230  
Elder, MT 59521

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4480

John Barrett  
Chairman  
Citizen Potawatomi Nation  
1601 S. Gordon Cooper Drive  
Shawnee, OK 74801

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Barrett:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

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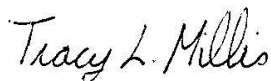
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Kelli Mosteller, Citizen Potawatomi Nation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



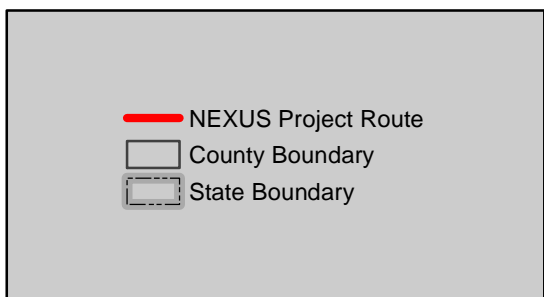


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

John Barrett  
Chairman  
Citizen Potawatomi Nation  
1601 S. Gordon Cooper Drive  
Shawnee, OK 74801

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4497

Kelli Mosteller  
Tribal Historic Preservation Officer  
Citizen Potawatomi Nation  
1601 S. Gordon Cooper Drive  
Shawnee, OK 74801

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Mosteller:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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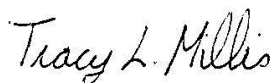
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: John Barrett, Citizen Potawatomi Nation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



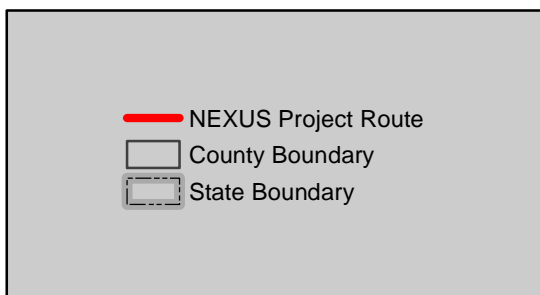


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Kelli Mosteller  
Tribal Historic Preservation Officer  
Citizen Potawatomi Nation  
1601 S. Gordon Cooper Drive  
Shawnee, OK 74801

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
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Please return this completed form to:

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4411

C. J. Watkins  
Vice President  
Delaware Nation  
P. O. Box 825  
Anadarko, OK 73005

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Vice President Watkins:

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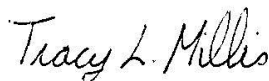
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.

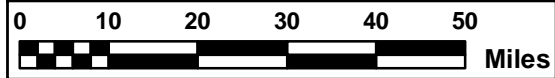


Tracy L. Millis  
Senior Archaeologist

Cc: Tamara Francis-Fourkiller, Delaware Nation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation


Enclosure – Location Map, Response Form





- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project


9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

C. J. Watkins  
Vice President  
Delaware Nation  
P. O. Box 825  
Anadarko, OK 73005

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4428

Tamara Francis-Fourkiller  
Cultural Preservation Director  
Delaware Nation  
P. O. Box 825  
Anadarko, OK 73005

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Francis-Fourkiller:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

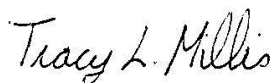
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: C. J. Watkins, Delaware Nation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



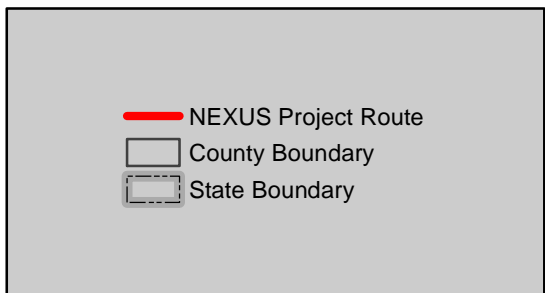


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Tamara Francis-Fourkiller  
Cultural Preservation Director  
Delaware Nation  
P. O. Box 825  
Anadarko, OK 73005

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
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Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist





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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4398

Paula Pechonick  
Chief  
Delaware Tribe of Indians  
170 N. Barbara Ave  
Bartlesville, OK 74003

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Pechonick:

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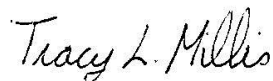
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Dr. Brice Obermeyer, Delaware Tribe of Indians  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



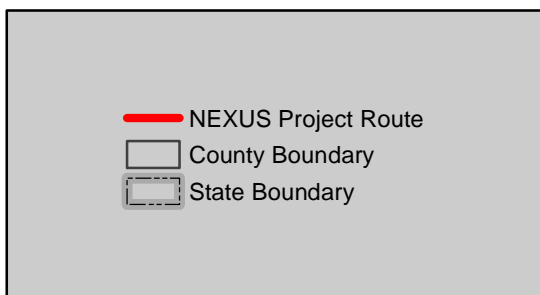


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Paula Pechonick  
Chief  
Delaware Tribe of Indians  
170 N. Barbara Ave  
Bartlesville, OK 74003

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4404

Dr. Brice Obermeyer  
Director, Tribal Historic Preservation Office  
Delaware Tribe of Indians  
Roosevelt Hall, Room 212  
1200 Commercial Street  
Emporia, KS 66801

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Dr. Obermeyer:

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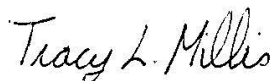
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Paula Pechonick, Delaware Tribe of Indians  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



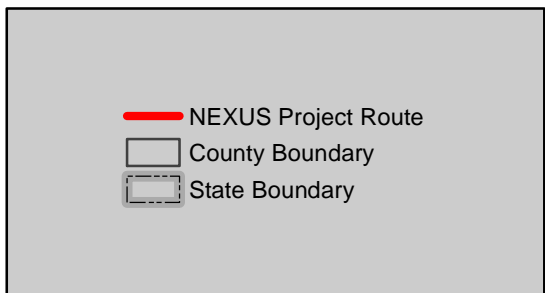
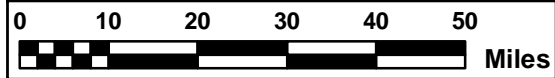


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Dr. Brice Obermeyer  
Director, Tribal Historic Preservation Office  
Delaware Tribe of Indians  
Roosevelt Hall, Room 212  
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Emporia, KS 66801

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4336

Glenna J. Wallace  
Chief  
Eastern Shawnee Tribe of Oklahoma  
P.O. Box 350  
Seneca, MO 64865

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Wallace:

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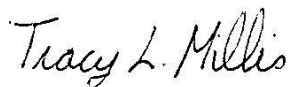
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Robin Dushane, Eastern Shawnee Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form





Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Glenna J. Wallace  
Chief  
Eastern Shawnee Tribe of Oklahoma  
P.O. Box 350  
Seneca, MO 64865

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4343

Robin Dushane  
Tribal Historic Preservation Officer  
Eastern Shawnee Tribe of Oklahoma  
127705 South 705 Road  
Wyandotte, OK 74370

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Dushane:

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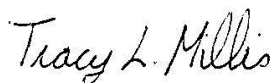
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Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Glenna J. Wallace, Eastern Shawnee Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
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Enclosure – Location Map, Response Form



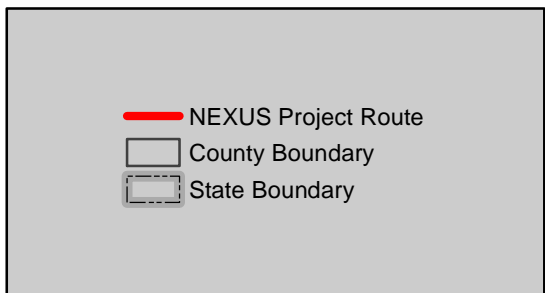


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Robin Dushane  
Tribal Historic Preservation Officer  
Eastern Shawnee Tribe of Oklahoma  
127705 South 705 Road  
Wyandotte, OK 74370

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4893

Karen Driver  
Chairwoman  
Fond du Lac Band  
of the Minnesota Chippewa Tribe  
1720 Big Lake Rd.  
Cloquet, MN 55720

LeRoy Defoe  
Tribal Historic Preservation Officer  
Fond du Lac Band  
of the Minnesota Chippewa Tribe  
1720 Big Lake Rd  
Cloquet, MN 55720

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairwoman Driver and Mr. Defoe:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state

resource management agencies for clearances, approvals, and permits. The Draft Resource Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

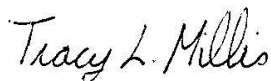
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Although NEXUS is seeking your input regarding potential cultural resource concerns for the Project, the FERC (not NEXUS) is responsible for government-to-government consultations with tribal governments. After the initiation of FERC's involvement, the FERC will contact tribal governments through issuance of a Notice of Intent to Produce an Environmental Document and/or individual letters to tribes. If you would like to communicate directly with the FERC natural gas archaeological staff to discuss its cultural resource review and consultation processes, please feel free to contact Paul Friedman, Senior Technical Expert in Cultural Resources, Office of Energy Projects, at 202-502-8059 (email: [paul.friedman@ferc.gov](mailto:paul.friedman@ferc.gov)).

For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form





Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Karen Driver  
Chairwoman  
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Tribal Historic Preservation Officer  
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\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4503

Harold Frank  
Chairman  
Forest County Potawatomi  
5416 Everybody's Road  
Crandon, WI 54520

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Frank:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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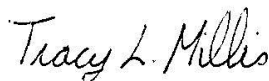
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Melissa Cook, Forest County Potawatomi  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



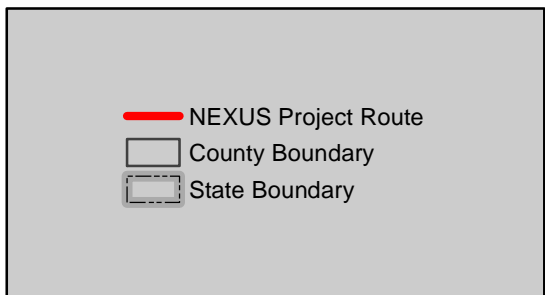


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Harold Frank  
Chairman  
Forest County Potawatomi  
5416 Everybody's Road  
Crandon, WI 54520

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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**NAME (SIGNATURE)**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4510

Melissa Cook  
Tribal Historic Preservation Officer  
Forest County Potawatomi  
Cultural Center, Library, and Museum  
8130 Mishkoswen Drive  
P. O. Box 340  
Crandon, WI 54520

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Cook:

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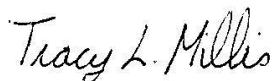
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Harold Frank, Forest County Potawatomi  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



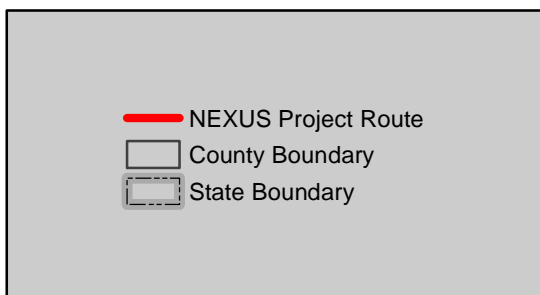


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Melissa Cook  
Tribal Historic Preservation Officer  
Forest County Potawatomi  
Cultural Center, Library, and Museum  
8130 Mishkoswen Drive  
P. O. Box 340  
Crandon, WI 54520

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4886

Norman Deschampe  
Chairman  
Grand Portage Band  
of the Minnesota Chippewa Tribe  
P. O. Box 428  
Grand Portage, MN 55605-0428

Mary Ann Gagnon  
Tribal Historic Preservation Officer  
Grand Portage Band  
of the Minnesota Chippewa Tribe  
P. O. Box 428  
Grand Portage, MN 55605-0428

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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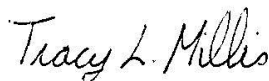
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TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



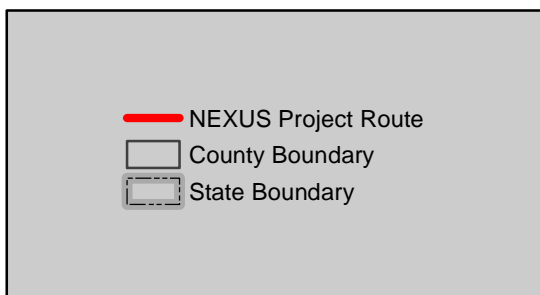


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NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

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P. O. Box 428  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4879

Derek J. Bailey  
Chairperson  
Grand Traverse Band  
of Ottawa and Chippewa Indians  
2605 N. West Bayshore Drive  
Suttons Bay, MI 49682

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairperson Bailey:

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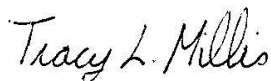
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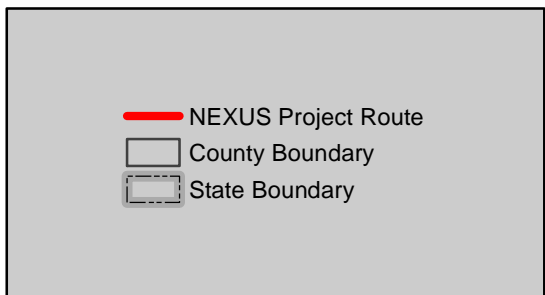


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**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Derek J. Bailey  
Chairperson  
Grand Traverse Band  
of Ottawa and Chippewa Indians  
2605 N. West Bayshore Drive  
Suttons Bay, MI 49682

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist







50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4527

Kenneth Meshigaud  
Chairperson  
Hannahville Indian Community  
N14911 Hannahville B1 Road  
Wilson, MI 49896

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairperson Meshigaud:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

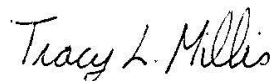
Following FERC guidance, NEXUS is assisting the FERC in meeting its obligations under Section 106 of the National Historic Preservation Act of 1966, as amended. TRC, under contract to Spectra Energy, is also providing assistance in the Section 106 process, and we respectfully request your input regarding the potential of the Project to affect significant cultural resources, including archaeological sites, burials, and traditional cultural properties so that these may be addressed prior to any ground-disturbing activities. TRC is also consulting with the Ohio Historic Preservation Office and the Michigan Historic Preservation Office about the project and will be completing the necessary archaeological and historic structures surveys as required under Section 106. While the regulations for implementing Section 106 of the National Historic Preservation Act (at 36 CFR 800) allow companies or consultants to gather information, the FERC will be ultimately responsible for determinations.

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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



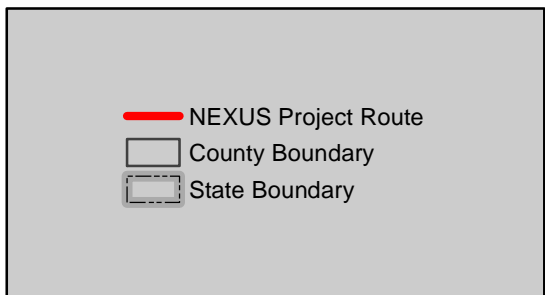


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4855

Donald Shalifoe, Sr.  
Ogimaa  
Keweenaw Bay Indian Community  
16429 Beartown Rd.  
Baraga, MI 49908

Chris Chosa  
Tribal Historic Preservation Officer  
Keweenaw Bay Indian Community  
16429 Beartown Rd.  
Baraga, MI 49908

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ogimaa Shalifoe and Mr. Chosa:

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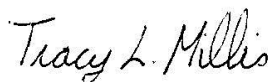
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



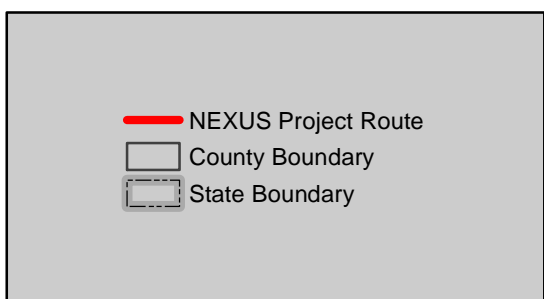


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Donald Shalifoe, Sr.  
Ogimaa  
Keweenaw Bay Indian Community  
16429 Beartown Rd.  
Baraga, MI 49908

Chris Chosa  
Tribal Historic Preservation Officer  
Keweenaw Bay Indian Community  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4848

Michael Isham, Jr.  
Chairman  
Lac Courte Oreilles Band of Lake Superior  
Chippewa Indians of Wisconsin  
13394 West Trapania Rd, Building 1  
Hayward, WI 54843

Jerry Smith  
Tribal Historic Preservation Officer  
Lac Courte Oreilles Band of Lake Superior  
Chippewa Indians of Wisconsin  
13394 West Trapania Rd, Building 1  
Hayward, WI 54843

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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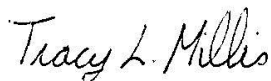
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



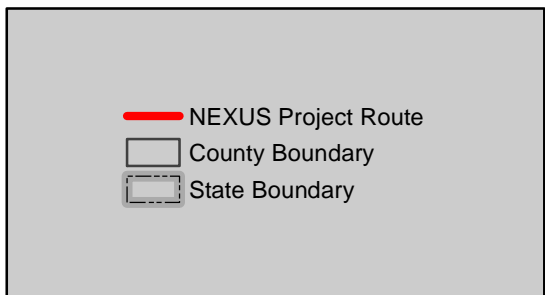


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Michael Isham, Jr.  
Chairman  
Lac Courte Orielles Band of Lake Superior  
Chippewa Indians of Wisconsin  
13394 West Trapania Rd, Building 1  
Hayward, WI 54843

Jerry Smith  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 8378 4831

Tom Maulson  
President  
Lac du Flambeau Band of Lake Superior  
Chippewa Indians of the Lac du Flambeau  
Reservation of Wisconsin  
P. O. Box 67  
Lac du Flambeau, WI 54538-0067

Melinda Young  
Tribal Historic Preservation Officer  
Lac du Flambeau Band of Lake Superior  
Chippewa Indians of the Lac du Flambeau  
Reservation of Wisconsin  
P. O. Box 67  
Lac du Flambeau, WI 54538-0067

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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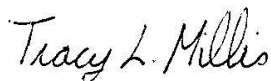
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Enclosure – Location Map, Response Form



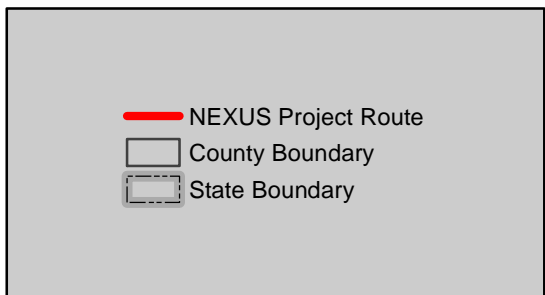


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GAS TRANSMISSION

9/11/2014

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4824

Alan Shively  
Chairman  
Lac Vieux Desert Band  
of Lake Superior Chippewa Indians  
P. O. Box 249  
Watersmeet, MI 49969

giiwegiizhigookway Martin  
Tribal Historic Preservation Officer  
Lac Vieux Desert Band  
of Lake Superior Chippewa Indians  
P. O. Box 249  
Watersmeet, MI 49969

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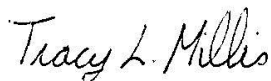
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



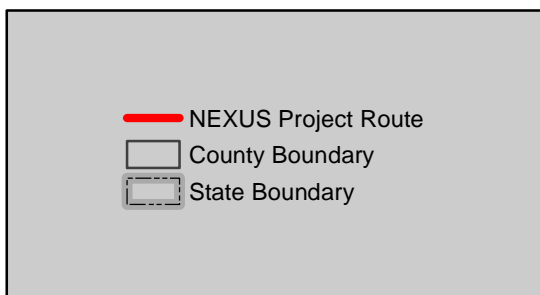


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Alan Shively  
Chairman  
Lac Vieux Desert Band  
of Lake Superior Chippewa Indians  
P. O. Box 249  
Watersmeet, MI 49969

giiwegiizhigookway Martin  
Tribal Historic Preservation Officer  
Lac Vieux Desert Band  
of Lake Superior Chippewa Indians  
P. O. Box 249  
Watersmeet, MI 49969

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TRC Environmental Corp.  
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Chapel Hill, NC 27517

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[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4817

Carri Jones  
Chairwoman  
Leech Lake Band of the Minnesota  
Chippewa Tribe  
115 6<sup>th</sup> Street NW, Ste E  
Cass Lake, MN 56633

Gina Lemon  
Tribal Historic Preservation Officer  
Leech Lake Band of the Minnesota  
Chippewa Tribe  
115 6<sup>th</sup> Street NW, Ste E  
Cass Lake, MN 56633

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairwoman Jones and Ms. Lemon:

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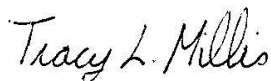
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



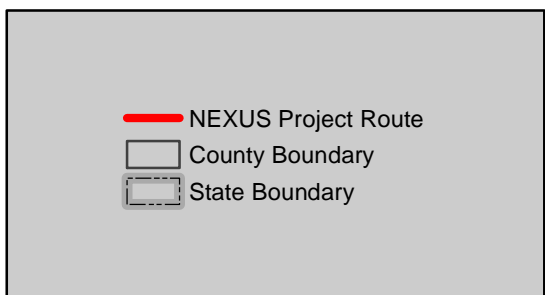


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Carri Jones  
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Leech Lake Band of the Minnesota  
Chippewa Tribe  
115 6<sup>th</sup> Street NW, Ste E  
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Gina Lemon  
Tribal Historic Preservation Officer  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4800

David Sprague  
Chairman  
Match-e-be-nash-she-wish Band  
of Potawatomi Indians of Michigan  
P. O. Box 218  
Dorr, MI 49323

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Sprague:

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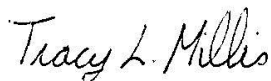
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
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Cc: Matt Barczyk, Spectra Energy Partners, LP  
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Enclosure – Location Map, Response Form



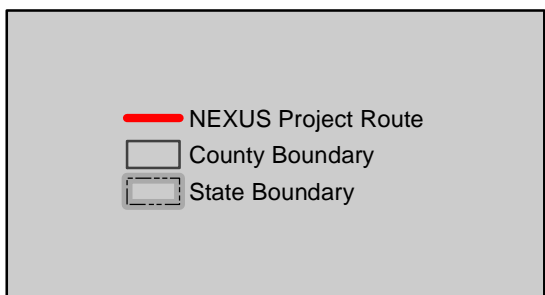


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NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4558

Douglas Lankford  
Chief  
Miami Tribe of Oklahoma  
P. O. Box 1326  
Miami, OK 74355

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Lankford:

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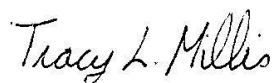
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TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: George Strack, Miami Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
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Enclosure – Location Map, Response Form



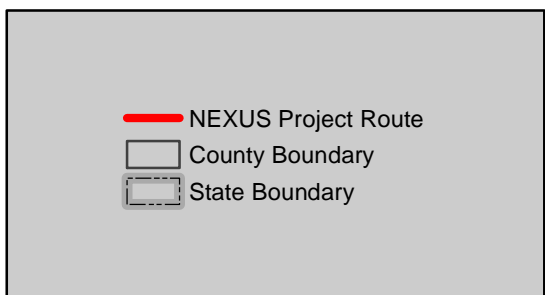


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NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Douglas Lankford  
Chief  
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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4565

George Strack  
Tribal Historic Preservation Officer  
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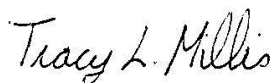
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Cc: Douglas Lankford, Miami Tribe of Oklahoma  
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Enclosure – Location Map, Response Form



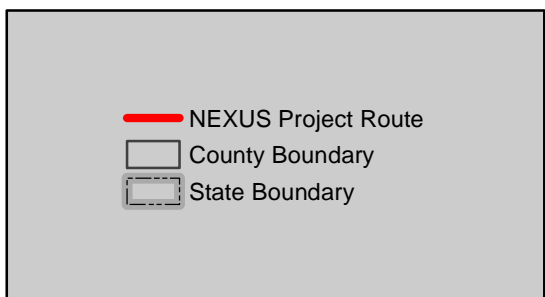


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

George Strack  
Tribal Historic Preservation Officer  
Miami Tribe of Oklahoma  
P. O. Box 1326  
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December 11, 2014

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Tracking Number 7014 0150 0000 8378 4794

Melanie Benjamin  
Chief Executive  
Mille Lacs Band  
of the Minnesota Chippewa Tribe  
43408 Oodena Drive  
Onamia, MN 56359

Natalie Weyaus  
Tribal Historic Preservation Officer  
Mille Lacs Band  
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**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Executive Benjamin and Ms. Weyaus:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state

resource management agencies for clearances, approvals, and permits. The Draft Resource Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

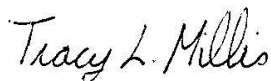
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



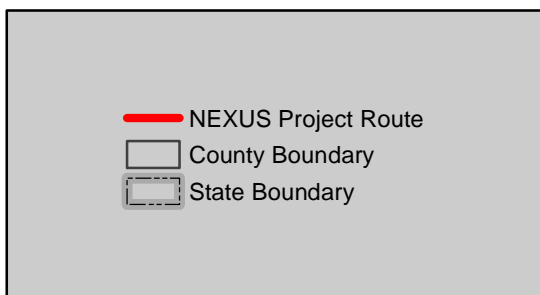


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Melanie Benjamin  
Chief Executive  
Mille Lacs Band  
of the Minnesota Chippewa Tribe  
43408 Oodena Drive  
Onamia, MN 56359

Natalie Weyaus  
Tribal Historic Preservation Officer  
Mille Lacs Band  
of the Minnesota Chippewa Tribe  
43408 Oodena Drive  
Onamia, MN 56359

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist







50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4787

Norman Deschampe  
President  
Minnesota Chippewa Tribe  
P.O. Box 217  
Cass Lake, MN 56633

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear President Deschampe:

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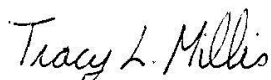
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



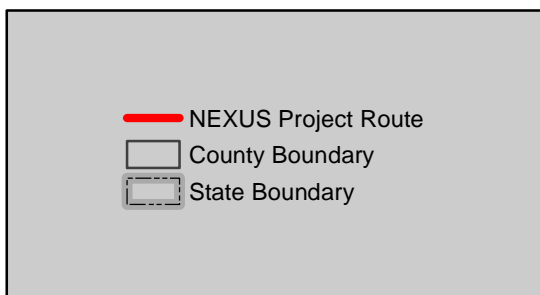


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Norman Deschampe  
President  
Minnesota Chippewa Tribe  
P.O. Box 217  
Cass Lake, MN 56633

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4862

Homer Mandoka  
Chairman  
Nottawaseppi Huron Band of the Potawatomi  
2221 1 ½ Mile Rd.  
Fulton, MI 49052

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Mandoka:

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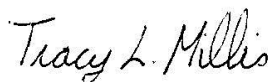
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



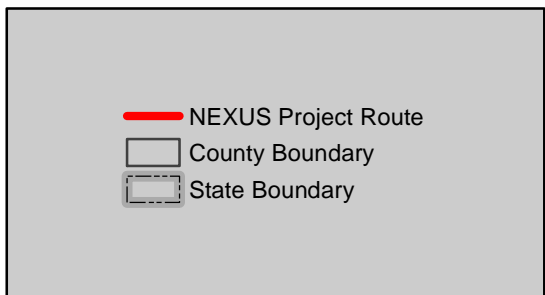


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Homer Mandoka  
Chairman  
Nattawaseppi Huron Band of the Potawatomi  
2221 1 ½ Mile Rd  
Fulton, MI 49052

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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December 16, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8380 0005

Jeff Chivis  
Tribal Historic Preservation Officer  
Nottawaseppi Huron Band of the Potawatomi  
1485 Mno-Bmadzewen Way  
Fulton, MI 49052

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Mr. Chivis:

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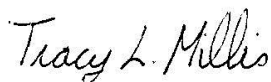
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Homer Mandoka, Nottawaseppi Huron Band of the Potawatomi  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



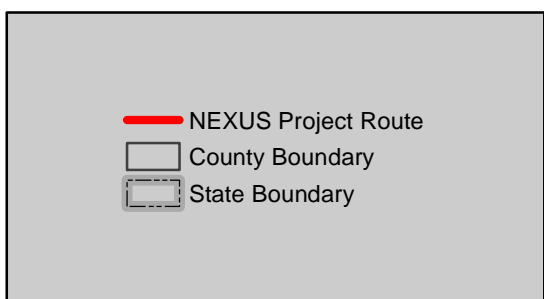


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Jeff Chivis  
Tribal Historic Preservation Officer  
Nottawaseppi Huron Band of the Potawatomi  
1485 Mno-Bmadzewen Way  
Fulton, MI 49052

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4572

Ethel Cook  
Chief  
Ottawa Tribe of Oklahoma  
P. O. Box 110  
Miami, OK 74354

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Cook:

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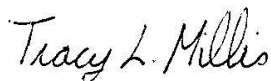
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TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Rhonda Dixon, Ottawa Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



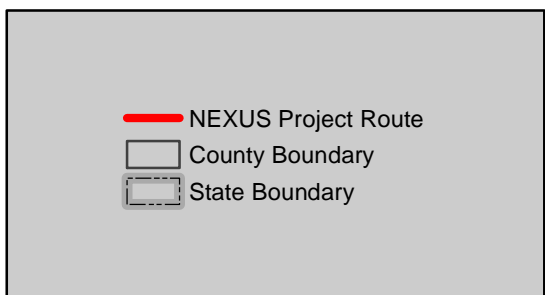


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Ethel Cook  
Chief  
Ottawa Tribe of Oklahoma  
P. O. Box 110  
Miami, OK 74354

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

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Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist







50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4589

Rhonda Dixon  
Tribal Historic Preservation Officer  
Ottawa Tribe of Oklahoma  
P. O. Box 110  
Miami, OK 74354

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Dixon:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

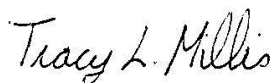
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Ethel Cook, Ottawa Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



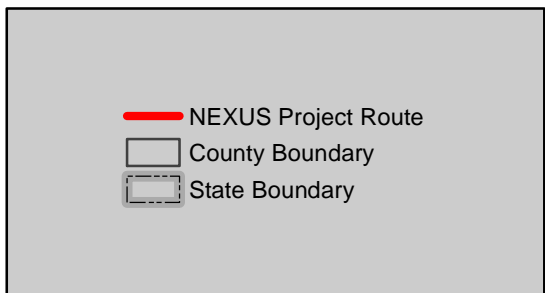
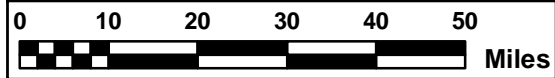


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Rhonda Dixon  
Tribal Historic Preservation Officer  
Ottawa Tribe of Oklahoma  
P. O. Box 110  
Miami, OK 74354

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4534

John P. Froman  
Chief  
Peoria Tribe of Indians of Oklahoma  
P. O. Box 1527  
Miami, OK 74355

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Froman:

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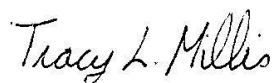
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



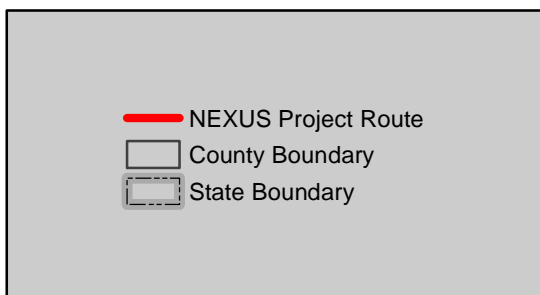


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

John P. Froman  
Chief  
Peoria Tribe of Indians of Oklahoma  
P. O. Box 1527  
Miami, OK 74355

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4619

Matthew J. Wesaw  
Chairman  
Pokagon Band of Potawatomi Indians  
P. O. Box 110  
Dowagiac, MI 49047

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Wesaw:

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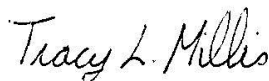
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Mike Zimmerman, Pokagon Band of Potawatomi Indians  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



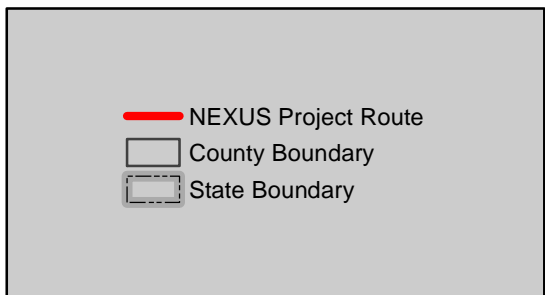


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Matthew J. Wesaw  
Chairman  
Pokagon Band of Potawatomi Indians  
P. O. Box 110  
Dowagiac, MI 49047

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4626

Mike Zimmerman  
Tribal Historic Preservation Officer  
Pokagon Band of Potawatomi Indians  
P. O. Box 110  
Dowagiac, MI 49047

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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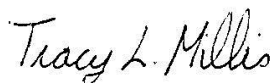
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TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matthew J. Wesaw, Pokagon Band of Potawatomi Indians  
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Enclosure – Location Map, Response Form



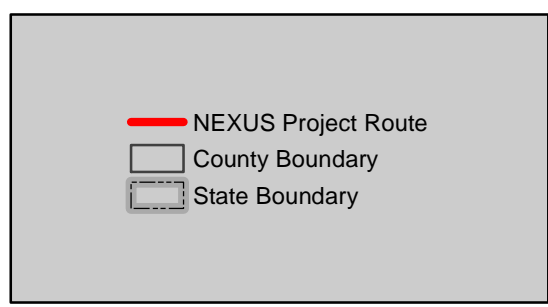


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NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

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**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Mike Zimmerman  
Tribal Historic Preservation Officer  
Pokagon Band of Potawatomi Indians  
P. O. Box 110  
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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4541

Steve Ortiz  
Chairman  
Prairie Band of Potawatomi Nation  
16277 Q Road  
Mayetta, KS 66509

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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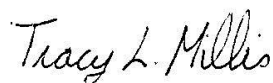
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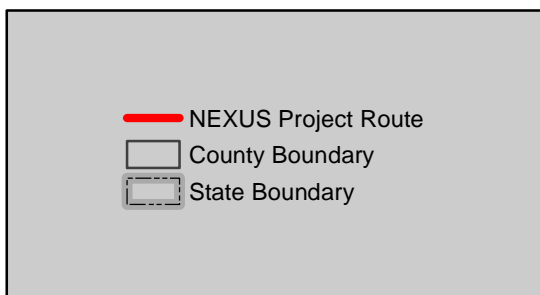


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

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Steve Ortiz  
Chairman  
Prairie Band of Potawatomi Nation  
16277 Q Road  
Mayetta, KS 66509

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist





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919.530.8446 PHONE  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4770

Mike Jackson  
President  
Quechan Tribe of the Fort Yuma Indian Reservation  
P.O. Box 1899  
Yuma, AZ 85366

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear President Jackson:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

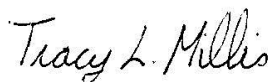
Following FERC guidance, NEXUS is assisting the FERC in meeting its obligations under Section 106 of the National Historic Preservation Act of 1966, as amended. TRC, under contract to Spectra Energy, is also providing assistance in the Section 106 process, and we respectfully request your input regarding the potential of the Project to affect significant cultural resources, including archaeological sites, burials, and traditional cultural properties so that these may be addressed prior to any ground-disturbing activities. TRC is also consulting with the Ohio Historic Preservation Office and the Michigan Historic Preservation Office about the project and will be completing the necessary archaeological and historic structures surveys as required under Section 106. While the regulations for implementing Section 106 of the National Historic Preservation Act (at 36 CFR 800) allow companies or consultants to gather information, the FERC will be ultimately responsible for determinations.

Although NEXUS is seeking your input regarding potential cultural resource concerns for the Project, the FERC (not NEXUS) is responsible for government-to-government consultations with tribal governments. After the initiation of FERC's involvement, the FERC will contact tribal governments through issuance of a Notice of Intent to Produce an Environmental Document and/or individual letters to tribes. If you would like to communicate directly with the FERC natural gas archaeological staff to discuss its cultural resource review and consultation processes, please feel free to contact Paul Friedman, Senior Technical Expert in Cultural Resources, Office of Energy Projects, at 202-502-8059 (email: [paul.friedman@ferc.gov](mailto:paul.friedman@ferc.gov)).

For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.

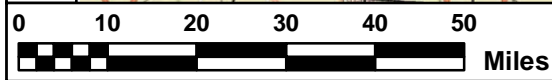


Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form





- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Mike Jackson  
President  
Quechan Tribe of the Fort Yuma Indian Reservation  
P.O. Box 1899  
Yuma, AZ 85366

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4763

Rose Gurnoe-Soulier  
Chairperson  
Red Cliff Band of Lake Superior  
Chippewa Indians of Wisconsin  
88385 Pike Rd., Hwy 13  
Bayfield, WI 54814

Larry Balber  
Tribal Historic Preservation Officer  
Red Cliff Band of Lake Superior  
Chippewa Indians of Wisconsin  
88385 Pike Rd., Hwy 13  
Bayfield, WI 54814

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairperson Gurnoe-Soulier and Mr. Balber:

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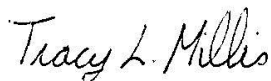
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form





- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Rose Gurnoe-Soulier  
Chairperson  
Red Cliff Band of Lake Superior  
Chippewa Indians of Wisconsin  
88385 Pike Rd., Hwy 13  
Bayfield, WI 54814

Larry Balber  
Tribal Historic Preservation Officer  
Red Cliff Band of Lake Superior  
Chippewa Indians of Wisconsin  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4756

Floyd Jourdain  
Chairperson  
Red Lake Band of Chippewa Indians  
P. O. Box 550  
Redlake, MN 56671

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairperson Jourdain:

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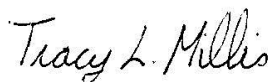
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



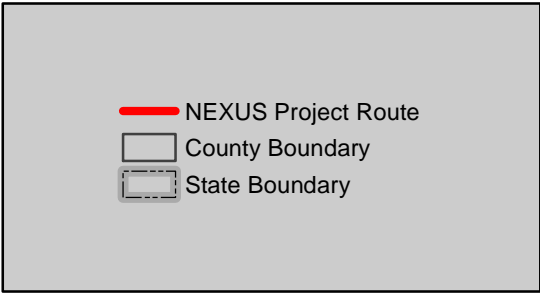
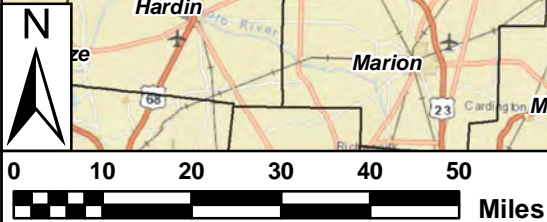


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Floyd Jourdain  
Chairperson  
Red Lake Band of Chippewa Indians  
P. O. Box 550  
Redlake, MN 56671

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4633

Dennis V. Kequom  
Chief  
Saginaw Chippewa Indian Tribe of Michigan  
7070 East Broadway Road  
Mt. Pleasant, MI 48858

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Kequom:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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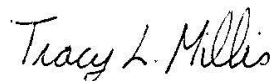
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TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
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Enclosure – Location Map, Response Form



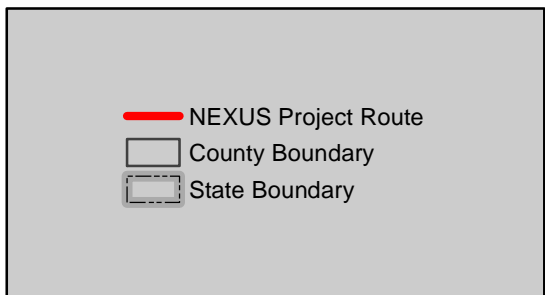


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Dennis V. Kequom  
Chief  
Saginaw Chippewa Indian Tribe of Michigan  
7070 East Broadway Road  
Mt. Pleasant, MI 48858

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4749

William Johnson  
Curator  
Saginaw Chippewa Indian Tribe of Michigan  
Ziibwing Center of Anishinabe Culture and Lifeways  
6650 East Broadway Road  
Mt. Pleasant, MI 48858

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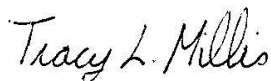
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



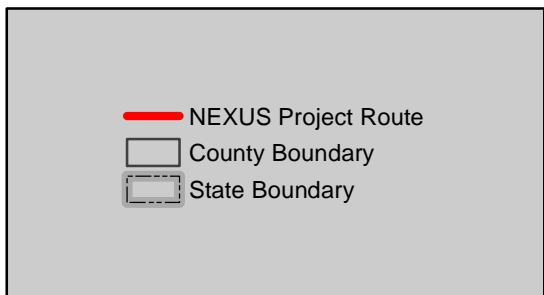


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

William Johnson  
Curator  
Saginaw Chippewa Indian Tribe of Michigan  
Ziibwing Center of Anishinabe Culture and Lifeways  
6650 East Broadway Road  
Mt. Pleasant, MI 48858

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist







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919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4732

Aaron Payment  
Chairperson  
Sault Ste. Marie Tribe of Chippewa Indians of Michigan  
523 Ashmun St.  
Sault Ste. Marie, MI 49783

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairperson Payment:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

As a proposed interstate natural gas transmission system, NEXUS has requested authorization with the Federal Energy Regulatory Commission (FERC) to participate in the FERC Pre-Filing Review Process for the NEXUS Pipeline Project. The Pre-Filing Review Process will initiate the FERC's review of the project in order to satisfy the requirements of the National Environmental Policy Act (NEPA). As part of the FERC Pre-Filing Review Process, the FERC, with input from cooperating agencies and other stakeholders, will analyze environmental impacts, alternatives, and mitigation measures as a prelude to submittal of NEXUS's application and the development of the FERC's Environmental Impact Statement for the Project.

In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

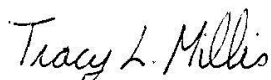
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



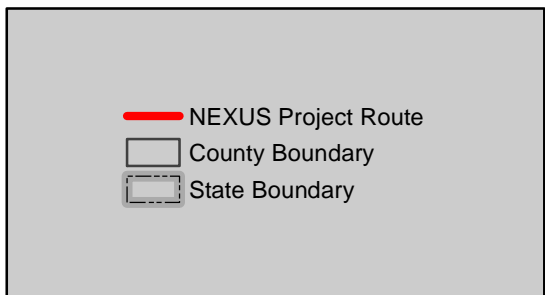


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Aaron Payment  
Chairperson  
Sault Ste. Marie Tribe of Chippewa Indians of Michigan  
523 Ashmun St.  
Sault Ste. Marie, MI 49783

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

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**NAME (SIGNATURE)**

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Senior Archaeologist





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November 12, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4671

Maurice John  
President  
Seneca Nation of Indians  
90 O:hi'yoh Way  
Salamanca, NY 14779

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear President John:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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In addition to facilitating preparation of the NEPA documentation for the Project, the Pre-Filing Review Process will also facilitate compilation of technically consistent reports, exhibits and other documentation to support consultation requests and applications to federal and state resource management agencies for clearances, approvals, and permits. The Draft Resource

Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

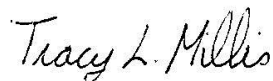
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Melissa Bach, Seneca Nation of Indians  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



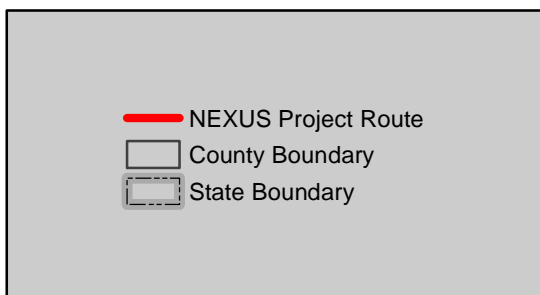


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Maurice John  
President  
Seneca Nation of Indians  
90 O:hi'yoh Way  
Salamanca, NY 14779

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4466

Melissa Bach  
Tribal Historic Preservation Officer  
Seneca Nation of Indians  
90 O:hi'yoh Way  
Salamanca, NY 14779

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Bach:

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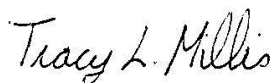
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Beverly Cook, Seneca Nation of Indians  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



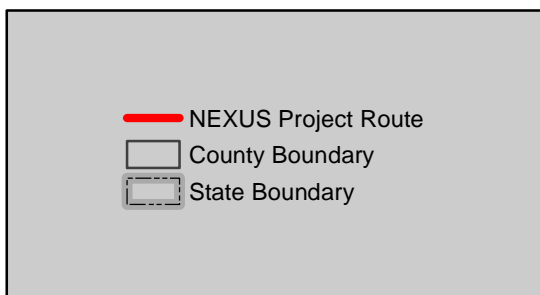


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Melissa Bach  
Tribal Historic Preservation Officer  
Seneca Nation of Indians  
90 O:hi'yoh Way  
Salamanca, NY 14779

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
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\_\_\_\_\_  
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Please return this completed form to:

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4435

LeRoy Howard  
Chief  
Seneca-Cayuga Tribe of Oklahoma  
23701 South 655 Road  
Grove, OK 74334

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Howard:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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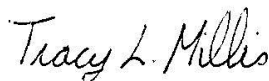
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TRC Environmental Corp.

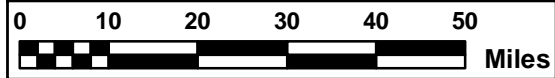


Tracy L. Millis  
Senior Archaeologist

Cc: Paul Barton, Seneca-Cayuga Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation


Enclosure – Location Map, Response Form





- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project


9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

LeRoy Howard  
Chief  
Seneca-Cayuga Tribe of Oklahoma  
23701 South 655 Road  
Grove, OK 74334

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

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**TITLE**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4442

Paul Barton  
Tribal Historic Preservation Officer  
Seneca-Cayuga Tribe of Oklahoma  
23701 South 655 Road  
Grove, OK 74334

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Mr. Barton:

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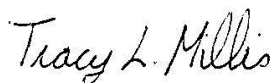
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: LeRoy Howard, Seneca-Cayuga Tribe of Oklahoma  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form





- NEXUS Project Route
- County Boundary
- State Boundary

Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Paul Barton  
Tribal Historic Preservation Officer  
Seneca-Cayuga Tribe of Oklahoma  
23701 South 655 Road  
Grove, OK 74334

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

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TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
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[www.TRCSolutions.com](http://www.TRCSolutions.com)

October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4374

Ron Sparkman  
Chairperson  
Shawnee Tribe  
P. O. Box 189  
South Highway 69A  
Miami, OK 74355

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairperson Sparkman:

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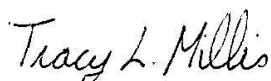
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Kim Jumpers, Shawnee Tribe  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



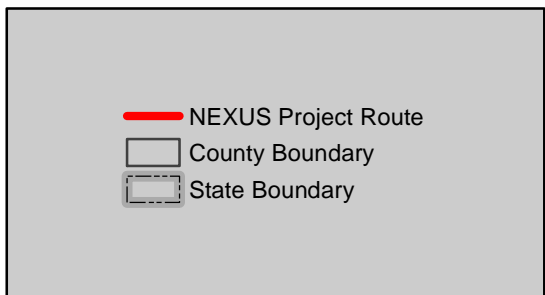


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Ron Sparkman  
Chairperson  
Shawnee Tribe  
P. O. Box 189  
South Highway 69A  
Miami, OK 74355

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4381

Kim Jumpers  
Tribal Historic Preservation Officer  
Shawnee Tribe  
P. O. Box 189  
South Highway 69A  
Miami, OK 74355

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Ms. Jumpers:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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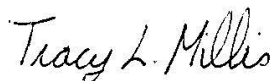
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Ron Sparkman, Shawnee Tribe  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



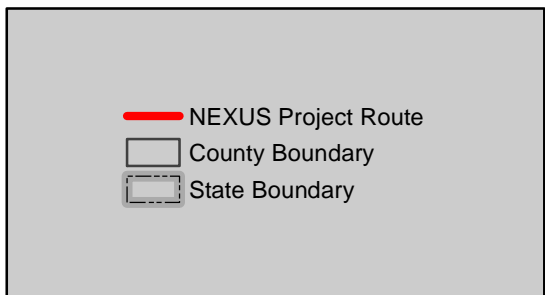


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Kim Jumpers  
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Shawnee Tribe  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4725

Garland McGeshick  
Chairman  
Sokaogon Chippewa Community  
3051 Sand Lake Rd.  
Crandon, WI 54520

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman McGeshick:

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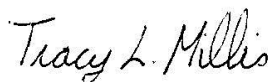
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Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



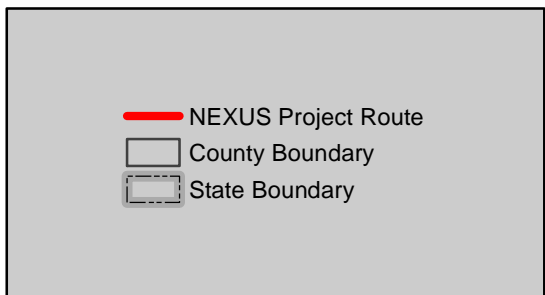


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Garland McGeshick  
Chairman  
Sokaogon Chippewa Community  
3051 Sand Lake Rd.  
Crandon, WI 54520

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4178

Stuart Bearheart  
Chairman  
St. Croix Chippewa Indians of Wisconsin  
24663 Angeline Ave  
Webster, WI 54893

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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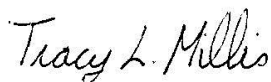
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Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



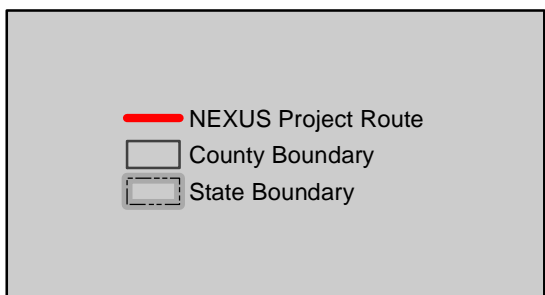


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Stuart Bearheart  
Chairman  
St. Croix Chippewa Indians of Wisconsin  
24663 Angeline Ave  
Webster, WI 54893

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4473

Darwin Hill  
Chief  
Tonawanda Band of Seneca Nation  
P. O. Box 795  
7027 Meadville Road  
Basom, NY 14013

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chief Hill:

NEXUS Gas Transmission, LLC (NEXUS), a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct, own, and operate approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (Project) traverses through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton, and through four (4) counties in Michigan, including Lenawee, Washtenaw, Monroe, and Wayne. The Project is also anticipated to include four newly constructed compressor stations along the Ohio portion of the proposed route. The Project study corridor is shown on the attached General Location Map.

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resource management agencies for clearances, approvals, and permits. The Draft Resource Report are currently planned to be filed in the third quarter 2015, and the FERC application is currently planned to be filed in the fourth quarter 2015. All other agency applications will be filed in a similar time frame. NEXUS proposes that the project facilities in Ohio and Michigan will have an in-service date of December 2017.

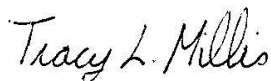
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For your convenience, a response form has been attached to this letter so that you may easily communicate your concerns to me at TRC. Should you have any questions regarding this information, please do not hesitate to call me at (919) 530-8446, ext. 224, or via e-mail at [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com).

Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



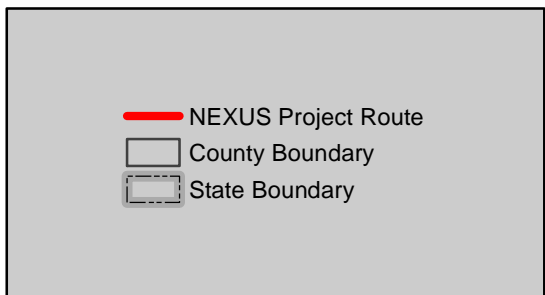


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Darwin Hill  
Chief  
Tonawanda Band of Seneca Nation  
P. O. Box 795  
7027 Meadville Road  
Basom, NY 14013

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**PRINTED NAME**

Please return this completed form to:

Tracy L. Millis  
TRC Environmental Corp.  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
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[www.TRCSolutions.com](http://www.TRCSolutions.com)

December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4701

Richard McCloud  
Chairman  
Turtle Mountain Band of Chippewa Indians  
of North Dakota  
P. O. Box 900  
Belcourt, ND 58316

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman McCloud:

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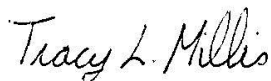
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Thank you in advance for your response, and I look forward to hearing from you.

Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



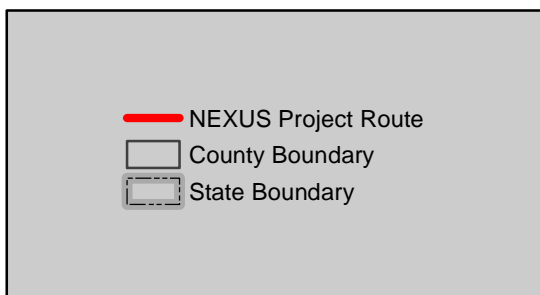


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Richard McCloud  
Chairman  
Turtle Mountain Band of Chippewa Indians  
of North Dakota  
P. O. Box 900  
Belcourt, ND 58316

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
**NAME (SIGNATURE)**

\_\_\_\_\_  
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December 11, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4695

Erma Vizenor  
Chairman  
White Earth Band  
of Minnesota Chippewa Tribe  
P. O. Box 418  
White Earth, MN 56591

Renee Lampi  
Tribal Historic Preservation Officer  
White Earth Band  
of Minnesota Chippewa Tribe  
P. O. Box 418  
White Earth, MN 56591

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

Dear Chairman Vizenor and Ms. Lampi:

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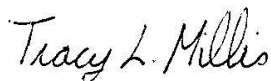
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Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



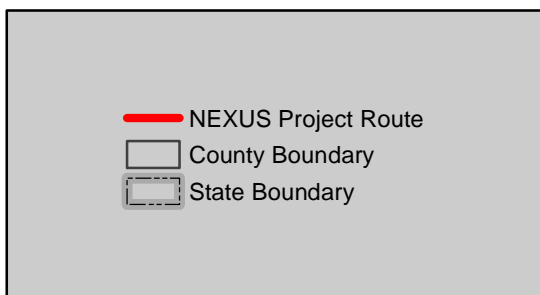


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Erma Vizenor  
Chairman  
White Earth Band  
of Minnesota Chippewa Tribe  
P. O. Box 418  
White Earth, MN 56591

Renee Lampi  
Tribal Historic Preservation Officer  
White Earth Band  
of Minnesota Chippewa Tribe  
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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4596

Billy Friend  
Chief  
Wyandotte Nation  
64700 E. Highway 60  
Wyandotte, OK 74370

**RE: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Pipeline Project  
Section 106 Consultation**

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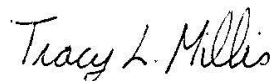
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Sincerely,  
TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Sherri Clemons, Wyandotte Nation  
Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation

Enclosure – Location Map, Response Form



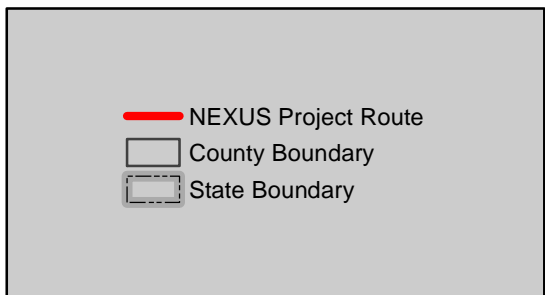


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Billy Friend  
Chief  
Wyandotte Nation  
64700 E. Highway 60  
Wyandotte, OK 74370

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

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October 28, 2014

**U.S. POSTAL SERVICE, CERTIFIED MAIL**

Tracking Number 7014 0150 0000 8378 4602

Sherri Clemons  
Tribal Historic Preservation Officer  
Wyandotte Nation  
64700 E. Highway 60  
Wyandotte, OK 74370

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NEXUS Gas Transmission Pipeline Project  
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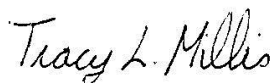
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TRC Environmental Corp.



Tracy L. Millis  
Senior Archaeologist

Cc: Billy Friend, Wyandotte Nation  
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Enclosure – Location Map, Response Form



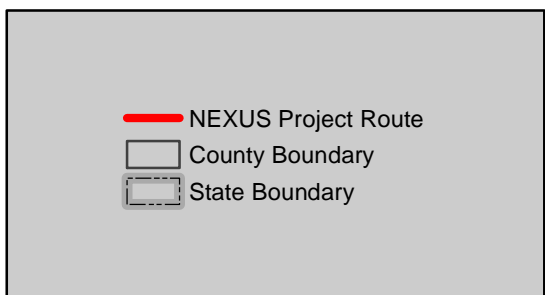


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014

**COMMENT FORM FOR NATIVE AMERICAN CONCERNS**

**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Sherrri Clemons  
Tribal Historic Preservation Officer  
Wyandotte Nation  
64700 E. Highway 60  
Wyandotte, OK 74370

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Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist







**Delaware Tribe Historic Preservation Office**

1200 Commercial Street  
Roosevelt Hall, Room 212

Emporia, KS 66801

(620) 340-0111

[bobermeyer@delawaretribe.org](mailto:bobermeyer@delawaretribe.org)

November 17 2014

TRC Environmental Corp.  
Attn: Tracy L. Millis  
50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

Re: NEXUS Gas Transmission Pipeline Project Section 106 Consultation

Dear Tracy L. Millis,

Thank you for informing the Delaware Tribe regarding the above referenced project. Although we are unaware of any locations with cultural or religious significance within your project area, given the project's location it is our recommendation that you conduct an archaeological field survey that includes subsurface testing in archaeologically sensitive areas. After this survey is completed, we would appreciate a copy of the report so that we may reevaluate the project and its potential impact on archaeological and human remains.

Should this project inadvertently uncover an archaeological site and/or human remains, even after an archaeological survey, we request that the project activities be postponed until the appropriate state agencies and the Delaware Tribe are consulted. We appreciate your cooperation and should you have any questions, feel free to contact me by phone at (620) 340-0111 or e-mail at [bobermeyer@delawaretribe.org](mailto:bobermeyer@delawaretribe.org).

Sincerely,

A handwritten signature in cursive script that reads "Brice Obermeyer".

Brice Obermeyer  
Delaware Tribe Historic Preservation Office  
1200 Commercial Street  
Roosevelt Hall, Room 212  
Emporia, KS 66801



**NOTTAWASEPPI HURON  
BAND OF THE POTAWATOMI**

A FEDERALLY RECOGNIZED TRIBAL GOVERNMENT

December 4, 2014

Tracy L. Millis  
Senior Archaeologist  
TRC Environmental Corp.

**RE: NEXUS Gas Transmission Pipeline Project**

Dear Tracy Millis,

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, the Tribe's THPO office has reviewed the undertaking referenced above.

The number of archaeological sites, in addition to the potential presence of any known Native American Traditional Cultural Properties, Sacred Sites, or other Significant Properties within the project area(s), are too numerous to list here at this time. **I am requesting** that upon completion of your background research with the Ohio and Michigan State Historic Preservation Offices on the archaeological and historic structures present within the project area, **you provide me with copies of the reports from both Ohio and Michigan**. It will be most expedient for me to see these reports before I comment any further on any other significant sites or properties within the project areas.

Furthermore, **I would like to have a copy of your "Plan of Action" (POA) policy** which details your procedures to follow in the case of any inadvertent discoveries. **I would also like more information** on the methodology and techniques you will employ to construct this pipeline and the amount (and types) of earth-moving activities involved in this project.

Please contact me at 269-704-8416 or at [jchivis@nhbpi.com](mailto:jchivis@nhbpi.com) if you have any questions or **if the scope of work changes in any way**. Thank you for providing us the opportunity to review this project and I will be looking forward to consulting with you throughout the duration of this project.

Sincerely,

Jeff  
Chivis  
Jeff Chivis

Digitally signed by Jeff Chivis  
DN: cn=Jeff Chivis, o=NHBP, email=jchivis@nhbpi.com, c=US  
Date: 2014.12.04 12:30:31 -0500

Tribal Historic Preservation Officer  
Nottawaseppi Huron Band of the Potawatomi



## PEORIA TRIBE OF INDIANS OF OKLAHOMA

118 S. Eight Tribes Trail (918) 540-2535 FAX (918) 540-2538

P.O. Box 1527

MIAMI, OKLAHOMA 74355

CHIEF  
John P. Froman

SECOND CHIEF  
Jason Dollarhide

November 7, 2014

Tracy L. Millis  
Senior Archaeologist  
TRC Environmental Corp.  
5101 Governor's Drive, Suite 250  
Chapel Hill, NC 27517

Re: **NEXUS Gas Transmission LLC**  
**NEXUS Gas Transmission Pipeline Project**  
Section 106 Consultation

Thank you for providing notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is unaware of any documentation directly linking Indian Religious Sites to the proposed project location. There appear to be no objects of cultural significance or artifacts linked to our tribe located on or near the project location.

Though six of the eleven counties in Ohio were ceded to the U.S. by the Peoria and other tribes, the Peoria Tribe unaware of items covered under NAGPRA (Native American Graves Protection and Repatriation Act) to be associated with the proposed project site. These items include: funerary or sacred objects; objects of cultural patrimony; or ancestral human remains.

The Peoria Tribe has no objection at this time to the proposed pipeline project. If, however, at any time items are discovered which fall under the protection of NAGPRA, the Peoria Tribe requests immediate notification and consultation. In addition state, local and tribal authorities should be advised as to the findings and construction halted until consultation with all concerned parties has occurred.

Thank you,

Cynthia Stacy  
Special Projects Manager/NAGPRA

## Millis, Tracy

---

**From:** Marcus Winchester <Marcus.Winchester@PokagonBand-nsn.gov>  
**Sent:** Wednesday, November 26, 2014 4:27 PM  
**To:** Millis, Tracy  
**Subject:** NEXUS Gas Transmission Section 106

Greetings Ms. Millis,

The Pokagon Band of Potawatomi is interested in consulting on this project. Please allow us some more time to review our records before proceeding in the consultation process. Thank you.

Sincerely,

**Marcus Winchester**  
**Tribal Historic Preservation Officer**  
**Pokegnak Bodewadmik**

Pokagon Band of Potawatomi  
PO Box 180 • 58620 Sink Road  
Dowagiac, MI 48620  
(269) 462-4224 desk • (269) 783-9269 mobile  
(269) 782-1817 fax  
[www.PokagonBand-nsn.gov](http://www.PokagonBand-nsn.gov)



**LOCAL**

**Agency Correspondence**

---



50101 Governor's Drive  
Suite 250  
Chapel Hill, NC 27517

919.530.8446 PHONE  
919.530.8525 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

October 27, 2014

Washtenaw County Historic Preservation  
Melissa Milton-Pung  
Washtenaw County Office of Community & Economic Development  
110 N. Fourth Ave.  
Ann Arbor, MI 48107

RE: NEXUS Gas Pipeline, Certified Local Government (CLG) Coordination, Michigan

Dear Ms. Milton-Pung:

On behalf of NEXUS Gas Transmission, LLC (NEXUS), TRC Environmental Corporation (TRC) and Commonwealth Cultural Resources Group (CCRG) are seeking comments on the NEXUS Gas Transmission Project (Project). As you may know, the NEXUS Project is a potential interstate pipeline project that is a joint venture between Spectra Energy and DTE Energy Co. This project will provide dedicated natural gas transportation services for power generation needs starting in December 2017. This project will also enhance the availability and reliability of natural gas supplies in the Midwest region.

NEXUS is currently evaluating several options for the pipeline path. Generally, the project begins near Kensington, Ohio, and continues through Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton counties, Ohio; and Lenawee, Washtenaw, Monroe, and Wayne counties, Michigan before ending near Willow Run, Michigan. TRC is assisting NEXUS with environmental documentation and permitting coordination, and along with CCRG has commenced cultural resource background studies and field research for the project. The preliminary pipeline route is illustrated on the attached Project Location Map.

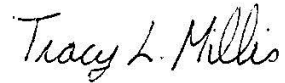
At the suggestion of the Federal Energy Regulatory Commission, and in compliance with 36 CFR 800.4(a)(iii) and 800.1(c)(2)(iii), NEXUS is consulting with Washtenaw County as a CLG to notify you of this project and obtain your opinion of potential projects effects on historic structures, sacred areas, archaeological sites, burial grounds, or other areas of special sensitivity to you or members of your community. In addition, archaeological testing in consultation with the Ohio and Michigan State Historic Preservation Offices (SHPOs) is planned along the entire area where ground-disturbing activities will take place. Aside from the archaeological investigations, a historic structures survey is planned along the entire route in order to assess potential visual impacts to historic structures from the pipeline corridor or ancillary facilities.

Please provide us with your comments as soon as possible so that we may take them into account. In addition, if you know of any additional groups that might be interested in participating in this process beyond those listed as CLGs, please let us know.

Your comments may be mailed or faxed to us at TRC's Chapel Hill office (see address above), or provided via email to [tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com). To facilitate your response a response form is also enclosed.

Thank you for your time and consideration. We look forward to hearing from you.

Sincerely,



Tracy L. Millis  
Senior Archaeologist

Cc: Matt Barczyk, Spectra Energy Partners, LP  
Michael Lychwala, TRC Environmental Corporation  
Chris Espenshade, Commonwealth Cultural Resources Group

Enclosure – Location Map, Response Form



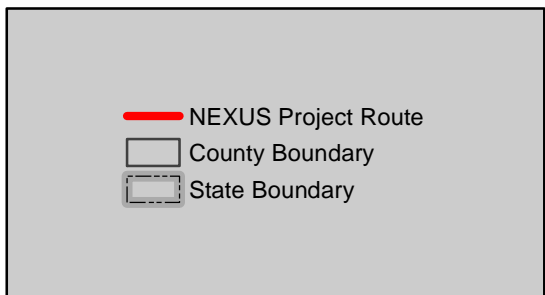


Figure 1 - Project Overview Map  
NEXUS Pipeline Project

**NEXUS**  
GAS TRANSMISSION

9/11/2014



**COMMENT FORM FOR CLG CONCERNS**  
**NEXUS Gas Transmission, LLC – NEXUS Gas Transmission Pipeline Project**

Washtenaw County Historic Preservation  
Melissa Milton-Pung  
Washtenaw County Office of Community & Economic Development  
110 N. Fourth Ave.  
Ann Arbor, MI 48107

\_\_\_\_\_ We have no concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_ We have the following concerns or comments regarding the NEXUS Pipeline Project.

\_\_\_\_\_  
NAME (SIGNATURE)

\_\_\_\_\_  
TITLE

\_\_\_\_\_  
DATE

\_\_\_\_\_  
PRINTED NAME

Please return this completed form or provide your correspondence to:

Tracy L. Millis  
TRC Environmental Corporation  
50101 Governors Drive, Suite 250  
Chapel Hill, NC 27517

Fax (919) 530-8525  
[tmillis@trcsolutions.com](mailto:tmillis@trcsolutions.com)  
Senior Archaeologist



---

**APPENDIX 1C2**

**Agency Correspondence**

**[PRIVILEGED AND CONFIDENTIAL  
BOUND SEPARATELY IN VOLUME III]**

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**APPENDIX 1C3**

**NEXUS Public and Agency Participation Plan**



NEXUS Gas Transmission, LLC

NEXUS Gas Transmission Project  
(NEXUS Project)

Public and Agency Participation Plan

June 2015

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- Appendix B: Stakeholder List -- Landowners**
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- Appendix F: Examples of Home Pages for Websites**
- Appendix G: Sample Letters**
- Appendix H: List of Voluntary Landowner Informational Meetings**

Note: Spectra Energy Partners, LP and DTE Energy are lead developers of the NEXUS Gas Transmission Project

## **1. Plan Purpose**

The purpose of this Public and Agency Participation Plan is to identify stakeholders and potential issues related to the proposed NEXUS Gas Transmission Project (NEXUS Project or Project) early in the development process; determine appropriate and effective methods of communication with stakeholders; identify responsible parties and adhere to communication protocols, and document the public consultation process.

NEXUS Gas Transmission, LLC (NEXUS) is dedicated to seeking greater involvement from affected stakeholder groups early in the planning process so those who are interested may participate in the decision making process throughout development of the Project.

Our goal is to achieve consensus and agreements among the stakeholders reaching mutually acceptable project designs. We believe early and collaborative stakeholder involvement leads to project designs that minimize impacts to landowners, communities and the environment while enabling us to develop more comprehensive and complete applications submitted to regulatory agencies and the Federal Energy Regulatory Commission (FERC).

### **1.1. Project Description**

The NEXUS Project will utilize greenfield pipeline construction and capacity of third party pipelines to provide for the seamless transportation of Appalachian Basin shale gas, including Utica and Marcellus shale gas production, directly to consuming markets in northern Ohio and southeastern Michigan, and to the Dawn Hub in Ontario, Canada. Through interconnections with existing pipelines, shippers on the NEXUS Project will also be able to reach the Chicago Hub in Illinois and other Midwestern markets. The United States portion of the NEXUS Project will traverse Pennsylvania, West Virginia, Ohio and Michigan, terminating at the U.S./Canada international boundary between Michigan and Ontario. The Canadian portion of the Project will extend from the U.S./Canada international boundary to Dawn in Ontario, Canada. .

The NEXUS Project will provide the U.S. Midwest and eastern Canadian regions with a unique opportunity to secure a cost effective, domestically produced source of energy to support both current demand and future growth, for clean burning natural gas. It will allow abundant regional natural gas supplies from the Appalachian basin to flow reliably into Ohio, Michigan, Chicago and the Dawn Ontario markets, helping to meet the increasing demand while lowering energy costs.

The NEXUS Project's proposed facilities consist of construction of approximately 250 miles of up to 36-inch diameter natural gas pipeline; installation of up to four new compressor units; construction of four new meter stations; and installation of new launcher and receiver facilities.

## 1.2. Values and Principles

Our core values guide our stakeholder outreach programs and activities as well as the work of our employees and contractors.

In conducting our business, we value our stakeholders by:

- ✓ **Stewardship** - Demonstrating a commitment to environmental responsibility and vibrant communities.
- ✓ **Respect for the Individual** - Embracing diversity and inclusion, enhanced by openness, sharing, trust, leadership, teamwork and involvement.
- ✓ **Integrity** - Ethically and honestly doing what we say we will do.
- ✓ **Win-Win Relationships** - Having relationships that focus on the creation of value for all parties.
- ✓ **Initiative** - Having the courage, creativity and discipline to lead change and shape the future.

While these values guide our stakeholder outreach approach, we tailor our activities for each project, ensuring that our dialogue with stakeholders is open, transparent and meaningful.

Our Stakeholder Engagement Principles, developed to guide our interactions, are as follows:

- We will be respectful of and considerate to all stakeholders.
- We will engage with those affected by our business.
- We will consider stakeholder-identified issues in our decision-making process.
- We will provide timely and accurate communications using accessible information and language.
- We will be transparent in our processes and communications.

Having established principles and knowing where, when and how to engage with external stakeholders is critical to our business success.

## 1.3. Management Commitment

### Overview

Our stakeholder outreach activities are endorsed by our executive management team. We have communication plans that provide our employees the “who, what, where and when” protocols when conducting business.



To ensure effective dialogue with our stakeholders, we rely on one-on-one discussions, face-to-face meetings, open houses, websites, legal notices, media outreach and individual letters sent via mail.

### **Project Development Stakeholder Outreach**

During project development, stakeholder consultation is critical because many people along the proposed and existing pipeline route may not be familiar with natural gas pipelines or our company.

The key criteria inherent in implementing a successful stakeholder consultation plan are the ability and knowledge to explain a project's benefits and its potential impacts; to respond to questions, concerns and issues; and, whenever possible, to mitigate potential impacts. In order to sustain a successful program, we seek, involve, inform and respond to stakeholders by implementing the planning process early, with open and collaborative activities. We execute our plans by engaging in and sustaining understandable, accurate and timely dialogue with our stakeholders. This process guides us toward building and maintaining win-win relationships.

The NEXUS Project has evolved as market demands and our customers' needs change and will require Federal, state, and local regulatory reviews and will be subject to government approvals.

Our mission is to work with Project stakeholders to define an acceptable project design. Our vision is to involve affected landowners, other interested citizens, public officials and government agencies early in the Project planning process to determine the proposed route. It is imperative to us that our employees and Project team understand the importance of public participation. The underpinnings of this plan are to inform, listen to, and record stakeholders' ideas and knowledge of the area and environment. Our values and principles include a commitment to being honest and open and following through with stakeholders' concerns and issues.

We manage all projects and operations in a manner that protects the environment and the health and safety of employees, customers, contractors and the public. Protection of human life is of highest priority, and actions undertaken to protect the environment or our assets must reflect this philosophy. We rely on each employee and contractor to support and actively participate in our environmental, health and safety program.

## **2. Project Development**

The NEXUS Project team has been discussing the purpose and need for the Project with landowners, agencies, public officials and other stakeholders. We explain supply and demand, energy reliability, pipeline construction, operations and safety, and the need for the Project

during opportunities such as voluntary landowner informational meetings, public open houses and other meetings that include all stakeholders (e.g., county commission meetings, home owner association meetings, etc.). In identifying issues important to landowners and other stakeholders, we seek assistance from federal and state agencies, commissions, the Energy Information Administration and regional and local entities. In addition to sharing information about the benefits of the NEXUS Project, we seek to understand stakeholder issues and concerns, such as, Project construction activity alignment with landowners', community and business activities, environmental needs, right-of-way requirements, etc.

As part of determining potential stakeholders for the NEXUS Project's preliminary and proposed routes, we identified and are continually communicating with the following:

- Ohio and Michigan Governors; federal, state, county and local public officials
- Federal, state and local permitting agencies and groups
- Energy agencies
- FERC staff
- Landowners
- Federal and state land managers
- Non-governmental organizations
- Community and public interest groups

We continue to identify other stakeholders interested in the Project.

Proper documentation is made with regard to conversations, meetings, and phone/visitor logs so that tracking of calls, visits, emails and/or letters received as well as issue(s)/concern(s) raised from initial contacts are addressed and resolved. Our goal is to be responsive to all participating agencies, landowners and stakeholders.

### **2.1. NEXUS Project Team**

The NEXUS Project Team includes representatives from engineering, right-of-way, legal, environmental, stakeholder outreach, public relations, government relations, operations, regulatory affairs, and business development.

### **2.2. Team Training**

All facets of the NEXUS public outreach and consultation process are discussed with and supported by the NEXUS Project Team.

Our land agents and survey crews participate in Public Consultation Training. The training includes appropriate communication, participation and documentation practices with stakeholders.

All land agents are trained in project-appropriate research methods with regard to determining property ownership and legal descriptions. All have received training on

negotiating skills that include effective listening. Effective listening skills are a vital part of the stakeholder/agent communication process. In addition, all land agents have extensive training in contracting and documentation, including fact checking and quality control.

### **2.3. Route/Corridor Planning**

The proposed pipeline route/corridor is selected based upon engineering, construction, environmental and stakeholder considerations that include:

- Maximizing use of existing corridors
- Utilizing streets, industrial/commercial parking lots, edges of properties
- Minimizing residential and business impacts
- Minimizing interference with future development
- Minimizing disruptions during construction
- Avoiding environmental impacts where possible
- Minimizing unavoidable environmental impacts

The pipeline facilities will be installed in accordance with U.S. Department of Transportation classifications and regulations.

### **2.4. Map**

A Project Overview Map is included in Appendix A.

## **3. Public Participation**

We believe public participation strengthens our connection with people living and working near the pipeline and is critical to the successful completion of the Project.

During the early development stages of the Project we involve many landowners located within an initial 600-foot-wide “study corridor” comprising the preliminary and alternate routes. We mail landowners Project description letters and request survey permission; telephone landowners and follow up with face-to-face meetings. We hold voluntary landowner informational meetings; host public open houses and meetings with community and civic organizations; and will participate in FERC’s National Environmental Policy Act (NEPA) Scoping Meetings. We also contact and meet with local and state public officials.

During these meetings, we respond to stakeholders’ questions and for those questions that require research, we commit to responding in a timely fashion. We are taking care to respond in easy to understand terms and to provide stakeholders with comprehensive answers to their questions. We provide a toll free number and invite stakeholders to call at any time throughout the development process if new questions arise. We also invite them to visit both the Spectra Energy and NEXUS Project websites for the duration of the Project:

NEXUS Project website:

<http://nexusgasttransmission.com>

Spectra Energy website:

<http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/NEXUS-Gas-Transmission>

### **3.1. Public Outreach**

NEXUS will be implementing and coordinating public outreach activities during the FERC Pre-Filing Process as well as following the filing of the Certificate application. There are a number of separate components to our stakeholder outreach efforts, including the following:

- Developing our philosophy of outreach and stating our commitment
- Ensuring landowner, government and agency participation
- Training company representatives and land agents
- Providing a toll free number and website for easy access
- Developing and implementing a Public and Agency Participation Plan
- Collecting data and responding to stakeholders
- Having a plan for potential mitigation and compensation

#### **3.1.1. Identification of Issues**

##### **Landowner**

Throughout the development, construction and operation of the NEXUS Project, we emphasize the importance of landowner and community communications.

We sent letters to landowners providing them with information on the Project and requesting permission to survey. We also sent letters to stakeholders informing them of the FERC Pre-Filing Process, Open House Meetings, FERC Scoping Meetings and information on the Resource Reports, as well as the locations of libraries where the Resource Reports are available for viewing. This communication with affected stakeholders will continue once we submit our certificate application to FERC.

Further, we held 9 voluntary Landowner Informational Meetings in October and November 2014 in communities with proposed facilities. Subsequent to initiating the FERC Pre-filing Process, NEXUS hosted 10 open houses for all interested stakeholders. During these meetings, information was available regarding all aspects of the Project including pipeline design, construction, operations and safety. We mailed letters to landowners and public officials to announce the Landowner Informational Meetings and Open House Meetings.

Additionally, the Project has received coverage from local media outlets interested in the scope, schedule, permitting, potential stakeholder impacts and opportunities for engagement.

Sample letters are included in Appendix G.

See Appendix H for a list of voluntary landowner informational meetings and open house meetings. We will continue to provide updates to the meeting information as necessary.

### **Environmental**

Pipeline projects and its operations typically involve working with the U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, state departments of environmental protection, state departments of natural resources and the State Historic Preservation Offices. Knowing that developing the NEXUS Project may result in impacts to resources, we engaged these and other federal, state and regional agencies seeking guidance on specific issues early in the development process. Appendix C provides a list of Federal, state, and local agencies contacted on the NEXUS project to date.

#### **3.1.2. Resolution of Issues**

To date, stakeholder meetings and communications, which were designed to inform, communicate and listen to feedback, have resulted in several modifications to the proposed route.

Resolutions of issues are documented in our database and updated on an ongoing basis.

#### **3.1.3. Response to Comments**

Project Team representatives are documenting all comments and responding as appropriate.

#### **3.1.4. Communication Protocol**

Pre-Filing and post-certificate application activities are part of a coordinated plan involving many facets of the Project and team. Stakeholder communication is coordinated on a weekly basis, or more frequently, as needed.

### **3.2. Access to Land**

Initial notifications to affected landowners were mailed in August 2014, and were followed by subsequent letters requesting survey permission.

Sample letters are included in Appendix G.

**3.2.1. Land Agent Contacts**

Contacts have been made with more than 2,700 landowners living along the 600-foot wide study corridor of the preliminary route. This number is expected to be greatly reduced through the survey and route selection process.

**3.3. Identification of Stakeholders**

**3.3.1. Landowners**

See Appendix B for a list of landowners and Appendix G for sample letters.

**3.3.2. Public Officials**

Contacts have been made and/or briefings have been held with affected public officials beginning in September 2014. See Appendix E for a list of public officials.

**3.3.3. Community and Public Interest Groups and Non-governmental Organizations**

Contacts have been made and/or briefings have been held with community and public interest groups and non-governmental organizations.

See Appendix E for a list of community and public interest groups and non-governmental organizations.

**3.3.4. Media**

Information has been and will be provided to media outlets upon request.

**3.3.5. Federal, State, and Local Agencies**

Initial contacts and meetings with affected government officials and agencies were conducted in fall 2014. A Project overview was provided at the meetings. Since that time, we have kept, and will remain in contact with, these officials and agencies throughout the development process.

See Appendix C for a list of federal, state and local agencies and Appendix G for sample letters.

**3.4. Agency Permits/Approvals**

A table listing the required permits and approvals and their estimated regulatory timeframes may be found in Appendix D.

**4. Dissemination of Information**

**4.1. Website Development**

A targeted Project page on the Spectra Energy website was launched in June 2013, and a standalone website for the NEXUS Project was launched in July 2013. The websites provide visitors with a toll free telephone number to obtain information and/or ask

questions about the Project. This website was designed to be more interactive and to provide easy to understand and frequent updates.

Appendix F provides a sample of the NEXUS Project webpages.

**4.1.1. Accessibility**

The NEXUS Project websites provide stakeholders with information about the company, as well as facts about the Project, regulatory process, virtues of natural gas, pipeline operations, safety and maintenance, and Frequently Asked Questions. A toll free telephone contact number was established to assist stakeholders with their questions and comments.

In addition, we ensure information is disseminated, as requested by stakeholders, since not all stakeholders have access to the Internet.

**4.1.2. Maintenance**

The webmaster maintains the website and manages web-based stakeholder inquiries.

**4.1.3. Interactive Capabilities**

The website houses a "Contact Us" section, which includes a web/email form. This allows stakeholders to request information about the Project, and we will respond within three (3) business days.

**4.2. Federal, State and Local Agency Communications**

Consultation letters were mailed to the identified federal, state and local permitting agencies with jurisdiction over the Project. We maintain contact with the permitting agencies and respond to all requests for information we receive from them.

See Appendix C for a list of agencies and Appendix G for sample letters.

**4.3. Stakeholder Notification of FERC Pre-Filing Participation**

Stakeholders were notified by letter when the FERC approved the NEXUS Project for participation in the Pre-Filing process. These letters were signed by the NEXUS Project's team members accountable for specific stakeholder groups.

**4.4. Voluntary Landowner Informational Meetings and Open House Meetings**

In October and November 2014, NEXUS conducted 9 voluntary Landowner Informational Meetings in convenient locations for affected landowners. Subsequent to initiating the FERC Pre-filing Process, NEXUS hosted 10 open houses for all interested stakeholders. NEXUS subject matter experts hosted meetings in Ohio and Michigan.

At the voluntary landowner informational meetings and public open house meetings, information was available regarding all aspects of the Project, pipeline operations, safety and our company. Sign-in sheets documented the names and contact information for participants in order to allow for follow-up, as appropriate, with affected landowners.

See Appendix H for a list of voluntary Landowner Informational Meetings and Open House Meetings.

#### **4.5. Landowner Invitations to Voluntary Landowner Informational Meetings**

Letters inviting landowners to voluntary Landowner Informational Meetings were distributed prior to the meetings.

See Appendix G for sample letters to landowners.

#### **4.6. Public Libraries for Filings**

To ensure regulatory filings are accessible and convenient, NEXUS will submit draft environmental resource reports to public libraries in communities located along the Project route. Routine checks of the libraries will be conducted to ensure the information remains available. The final FERC Certificate Application including final resource reports will be filed in public libraries and will be available online via the FERC website at .

#### **4.7. Updates of Information**

Updates will be approved by our Project Manager and disseminated to stakeholders in a timely manner. Methods of dissemination of information to stakeholders include U.S. mail, hand-delivery, email, Project website and/or telephone calls.

#### **4.8. Filings with FERC**

The NEXUS Certificate Application to be filed with the FERC in accordance with Section 7(c) of the federal Natural Gas Act will meet all FERC regulatory requirements.

### **5. NEXUS Project Schedule**

Conduct Landowner Informational Meetings	October - November 2014
Request Pre-Filing initiation	December 2014
Submit Draft Resource Reports 1 & 10 (Description & Alternatives)	January 2015
Conduct Open Houses / FERC Scoping Meetings	January - May 2015
Submit Draft Resource Reports	June 2015
File FERC Certificate Application	November 2015
Submit Federal and State Permit Applications	October - December 2015
FERC issues Certificate	November 2016
Submit Implementation Plan	December 2016
Receive Final Agency Clearances	December 2016
Start Major Construction	January 2017



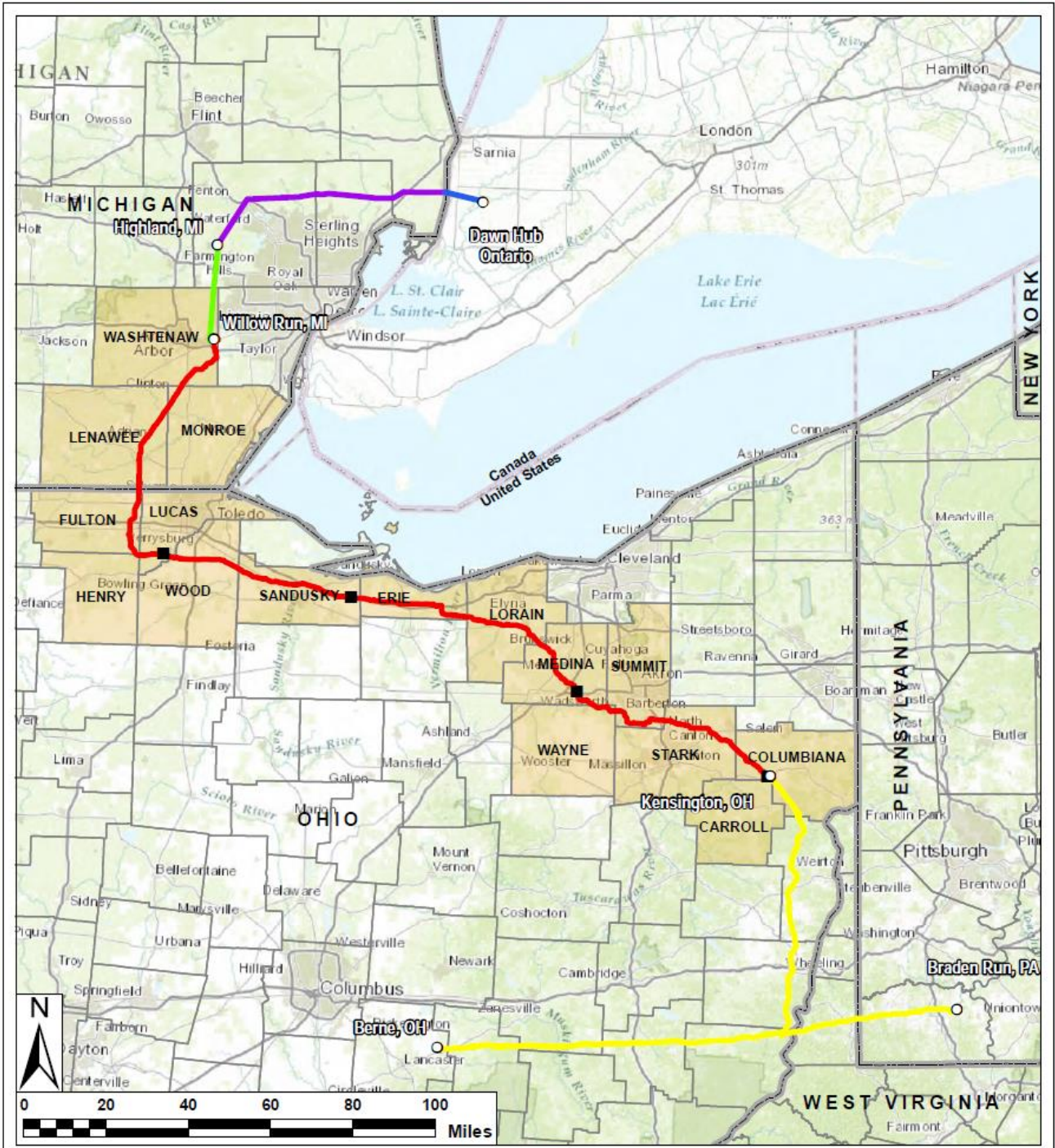
Place Project into Service

November 2017

## **6. Reporting**

All FERC, federal, state and local government reporting will be timely and respectful of requirements. An official list of contacts within each stakeholder group has been developed to effectively and efficiently provide copies of reports and updates, as warranted.

## Appendix A: Project Overview Map



- Proposed NEXUS Greenfield Pipeline Project
- Proposed Compressor Sites
- Texas Eastern Pipeline System (Contracted Capacity)
- Vector Pipeline System/DTE Gas Transportation System (Contracted Capacity)
- Vector Pipeline System/Other Canadian Pipeline Systems (Contracted Capacity)
- DTE Gas Transportation System (Contracted Capacity)
- County Boundary
- State Boundary

**Figure 1**  
**Pipeline Systems Overview**

**NEXUS**  
 GAS TRANSMISSION

6/10/2015

**Appendix B: Stakeholder List – Landowners**

**CONTAINS PRIVILEGED INFORMATION—**  
**DO NOT RELEASE**  
**FILED UNDER SEPARATE COVER**

## Appendix C: Stakeholder List -- Non-Landowners Federal, State and Local Agencies

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>FEDERAL</b>								
FERC	Office of Energy Projects Division of Gas-Environment and Engineering Gas Branch 1	Joanne Wachholder, FERC Project Manager	TBD	Joanne.Wachholder@ferc.gov	FERC Office of Energy Projects Division of Gas- Environment and Engineering Gas Branch 1 888 First Street, NE Washington, D.C. 20426 office 6J-06	12/17/14 introductory meeting		
USACE	Pittsburgh District (Northern Pittsburgh District)	Matt Mason, Regulatory Branch	(412) 395-7129	Matthew.R.Mason@usace.army.mil	Pittsburgh District Corps of Engineers William S. Moorhead Federal Building 1000 Liberty Avenue Regulatory Branch, Suite 2200 Pittsburgh, PA 15222	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter from Buffalo District
USACE	Pittsburgh District	Tyler Bintrim	(412) 395-7115	Tyler.j.bintrim@usace.army.mil	Pittsburgh District Corps of Engineers William S. Moorhead Federal Building 1000 Liberty Avenue Regulatory Branch, Suite 2200 Pittsburgh, PA 15222	1/14/15 Introductory meeting		
USACE	Huntington District	Mark Taylor, Chief, Energy Resources	(304) 399-5610	MARK.A.TAYLOR@usace.army.mil	Huntington District Regulatory Division 502 8th Street Huntington, WV 25701	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter from Buffalo District
USACE	Buffalo District	Mark Scalabrino Ohio Regulatory Chief	(716) 879-4327	mark.w.scalabrino@usace.army.mil	Buffalo District Office 1776 Niagara St. Buffalo, NY 14207	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
USACE	Buffalo District	Shawn Blohm Regulatory Project Manager	(330) 923- 8214	<a href="mailto:Shawn.U.Blohm@usace.army.mil">Shawn.U.Blohm@usace. army.mil</a>	Buffalo District-Stow Field Office 110 Graham Road Circle Stow, OH 44224	1/14/15 Introductory meeting		
USACE	Detroit District	Stanley F. Cowton, Jr., Regulatory Project Manager	(313) 226- 2219	stanley.f.cowton@usace .army.mil	USACE, Regulatory Office 477 Michigan Avenue, 6th Floor Detroit, Michigan 48226-2550	10/31/14 via letter	10/31/14 via FedEx	12/30/14 via letter from Buffalo District
USFWS	East Lansing Michigan Office	Chris Mensing, Fish and Wildlife Biologist	(517) 351- 8316	chris_mensing@fws.gov	East Lansing Field Office 2651 Coolidge Road East Lansing, MI 48823	10/14/14 via phone	10/14/14 via email	10/14/14 via email
USFWS	East Lansing Michigan Field Office	Burr Fisher, Wildlife Biologist	(517) 351- 8286	Burr_fisher@fws.com	East Lansing Field Office 2651 Coolidge Road East Lansing, MI 48823	09/22/14 via letter	09/22/14 via email	12/3/14 via letter
USFWS	Ohio Field Office	Angela Boyer, Endangered Species Coordinator	(614) 416- 8993 x22	angela_boyer@fws.gov	U.S. Fish and Wildlife Service Ohio Field Office 4625 Morse Rd, Suite 104 Columbus, OH 43230	09/18/14 via letter	09/18/14 via email	10/9/14 via letter
USFWS	Region 3	Jeff Gosse, Regional Energy Coordinator	(612) 713- 5292	<a href="mailto:Jeff_gosse@fws.gov">Jeff_gosse@fws.gov</a>	U.S. Fish and Wildlife Service, Region 3 5600 American West Blvd. Bloomington, MN	5/22/15 Via phone	5/22/15 Via email	5/22/15 Via email
NPS	Midwest Region	Mark Weekly, Deputy Regional Director	(402) 661- 1526	Mark_Weekly@nps. gov	National Park Service 601 Riverfront Drive Omaha, NE 68102-4226	10/31/14 via letter	10/31/14 via FedEx	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>USEPA</b>	NEPA Implementation Section	Kenneth A. Westlake, Chief	(312) 886-2910	westlake.kenneth@epa.gov	U.S. Environmental Protection Agency, Region 5 77 West Jackson Boulevard Chicago, Illinois 60604-3590	10/31/14 via letter	10/31/14 via FedEx	11/06/14 via phone
<b>NMFS</b>	Office of Protected Resources	Donna Wieting, Director, Office of Protected Resources	(301) 427-8400	NA	National Marine Fisheries Service 1315 East-West Highway Silver Spring, MD 20910	10/31/14	10/31/14 via FedEx	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>STATE – OHIO</b>								
OEPA	Central	Mike Mansour	(614) 644-3694	mike.mansour@epa.ohio.gov	Ohio EPA Central Office	12/09/14 meeting	12/09/14 meeting	
OEPA	Central	Dave Morehart	(614) 644-3601	dave.morehart@epa.ohio.gov	Ohio EPA Central Office	12/09/14 meeting	12/09/14 meeting	
OEPA	Northeast District	Ed Fasko	(330) 963-1161	ed.fasko@epa.ohio.gov	Ohio EPA Northeast District Office	12/10/14 meeting	12/10/14 meeting	
OEPA	Northeast District	Jana Gannon	(330) 963-1261	jana.gannon@epa.ohio.gov	Ohio EPA Northeast District Office	12/10/14 meeting	12/10/14 meeting	
OEPA	Northeast District	Kevin Fortune	(330) 963-1152	kevin.fortune@epa.ohio.gov	Ohio EPA Northeast District Office	12/10/14 meeting	12/10/14 meeting	
OEPA	Akron Regional Air Quality Management District	Sean Vadas	(330) 923-4891	svadas@schd.org	Akron Regional Air Quality Management District	12/10/14 meeting	12/10/14 meeting	
OEPA	Akron Regional Air Quality Management District	Kelly Kanoza	(330) 812-3954	kkanoza@schd.org	Akron Regional Air Quality Management District	12/10/14 meeting	12/10/14 meeting	
OEPA	Akron Regional Air Quality Management District	Duane LaClair	(330) 923-4891	dlaclair@schd.org	Akron Regional Air Quality Management District	12/10/14 meeting	12/10/14 meeting	
OEPA	Toledo Division of Environmental Services	Matt Stanfield	(419) 936-3938	matthew.stanfield@toledo.oh.gov	Toledo Division of Environmental Services	12/17/14 meeting	12/17/14 meeting	
ODNR	Office of Real Estate	John Kessler, P.E. Assistant Chief	(614) 265-6621	john.kessler@dnr.state.oh.us	Ohio Department of Natural Resources, Office of Real Estate 2045 Morse Rd., Columbus, OH 43229-6605	09/18/14 via letter	09/18/14 via email	10/31/14 letter via email
ODNR	Division of Wildlife	Nathan Reardon, Compliance Coordinator	(614) 265-6741	<a href="mailto:Nathan.reardon@dnr.state.oh.us">Nathan.reardon@dnr.state.oh.us</a>	ODNR - Division of Wildlife 2045 Morse Road, Bldg. G Columbus, OH 43229-6693	10/14/14 Introductory meeting		

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>ODNR</b>	Ohio Coastal Management Program ODNR Office of Coastal Management	Steve Holland, MPA Federal Consistency Administrator	(419) 609-4104	steven.holland@dnr.state.oh.us	ODNR Office of Coastal Management 105 West Shoreline Drive Sandusky, Ohio 44870	12/02/14 via email and phone	12/02/14 via email	12/02/14 via email and phone
<b>SHPO</b>	Ohio Office of Historic Preservation	Mark Epstein, Department Head, Resource Protection and Review	(614) 298-2000	mepstein@ohiohistory.org	Ohio Historic Preservation Office 800 E. 17th Avenue Columbus, Ohio 43211-2474	11/5/14 via letter	11/5/14 via US mail and email	
<b>STATE - MICHIGAN</b>								
<b>MDNR</b>	Wildlife Division	Lori Sargent	(517) 284-6216	sargentl@michigan.gov	Michigan Department of Natural Resources P.O. Box 30180 Lansing, MI 48909-7680	09/22/14 via letter	09/22/14 via email	09/23/14 via email
<b>MDNR</b>	Wildlife Division	Daniel Kennedy, Endangered Species Coordinator	(517) 284-6194	kennedyd@michigan.gov	Michigan DNR, Wildlife Division P.O. Box 30444 525 W. Allegan Lansing, MI 48909-7944	11/14/14 Via email	11/14/14 Via email	11/14/14 Via email
<b>MDNR</b>	Wildlife Division	Karen Cleveland All-Bird Biologist	(517) 284-6160	clevelandk1@michigan.gov	Michigan DNR, Wildlife Division P.O. Box 30444 525 W. Allegan Lansing, MI 48909-7944	10/23/14 Via phone and email	10/23/14 Via phone and email	10/23/14 Via phone and email
<b>MDNR</b>	Wildlife Division	Zach Cooley, Wildlife Biologist for Monroe and Wayne Counties	(734) 379-9692	cooleyz@michigan.gov		11/3/14 Introductory meeting		



NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
MDNR	Wildlife Division	Kristen Bissell, Wildlife Biologist for Lenawee and Washtenaw Counties	(517) 522- 4097	bissellk@michigan.gov		11/3/14 Introductory meeting		
MDNR	Wildlife Division	Sue Tangora, Statewide Invasive Species Coordinator	(517) 284- 6223	<a href="mailto:tangoras@michigan.gov">tangoras@michigan.gov</a>		11/14/14 Via email	11/14/14 Via email	
MNFI	Natural Features Inventory	Michael A. Sanders, Rare Species Review Specialist	(517) 284- 6200	sander75@msu.edu	Michigan State University Extension 3rd Floor Constitution Hall 525 W. Allegan St. Lansing, MI 48933	09/23/14 via letter	09/23/14 via email	10/09/14 letter via email
MDEQ	Jackson District Office	Ms. Katherine David	(517) 780- 7021	DAVIDK@michigan.gov	301 E. Louis Glick Highway Jackson, Michigan 49201	12/18/14 via letter	12/18/14 via FedEx	
SHPO	Michigan Office of Historic Preservation	Brian D. Conway, State Historic Preservation Officer	(517) 373- 1630	Conwayb1@michigan.gov	Michigan State Housing Development Authority 702 W. Kalamazoo St. P.O. Box 30740 Lansing, Michigan 48909-8240	12/4/14 via letter	12/4/14 via letter	
<b>TRIBES</b>								
Tribe	Absentee-Shawnee Tribe of Indians of Oklahoma	Joseph Blanchard, Cultural Preservation Director Tribal Historic Preservation Officer	(405) 275- 4030, ext 203	joseph.blanchard@astri be.com	Absentee-Shawnee Tribe of Indians of Oklahoma 2025 S. Gordon Cooper Drive Shawnee, OK 74801	10/28/14 via letter	10/28/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation	Michael Wiggins, Chairman	(715) 682-7111	hrmanager@badriver-nsn.gov	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation P.O. Box 39 Odanah, WI 54861-0039	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation	Edith Leoso, Tribal Historic Preservation Officer	(715) 682-7111		Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation P.O. Box 39 Odanah, WI 54861-0039	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bay Mills Indian Community	Levi Carrick, Sr., Chairman	(906) 248-3241		Bay Mills Indian Community 12140 W. Lakeshore Drive Brimley, MI 49715	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bay Mills Indian Community	Paula Carrick, Tribal Historic Preservation Officer	(906) 248-8458	paulacarrick@baymills.org	Bay Mills Indian Community 12140 W. Lakeshore Drive Brimley, MI 49715	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe	Kevin Leecy, Chairman	(218) 757-3261	kevin.leecy@boisfortensn.gov	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe P.O. Box 16 Nett Lake, MN 55772	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe	Rosemary Berens, Tribal Historic Preservation Officer	(218) 757-3261	rozeberens@yahoo.com	Bois Forte Band (Nett Lake) of the Minnesota Chippewa Tribe P.O. Box 16 Nett Lake, MN 55772	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Chippewa-Cree Indians of the Rocky Boy's Reservation	Bruce Sunchild, Chairman	(406) 395-4282	bsunchild@yahoo.com	Chippewa-Cree Indians of the Rocky Boy's Reservation 31 Agency Square Box Elder, MT 59521	12/11/14 via letter	12/11/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Chippewa-Cree Indians of the Rocky Boy's Reservation	Alvin Windy Boy, Tribal Historic Preservation Officer	(406) 352-3077	alvin@nei-yahw.com	Chippewa-Cree Indians of the Rocky Boy's Reservation P.O. Box 230 Box Elder, MT 59521	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Citizen Potawatomi Nation	John Barrett, Chairman	(405) 275-3121	rbarrett@potawatomi.org	Citizen Potawatomi Nation 1601 S. Gordon Cooper Drive Shawnee, OK 74801	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Citizen Potawatomi Nation	Kelli Mosteller, Tribal Historic Preservation Officer	(405) 878-5830	kelli.mosteller@potawatomi.org	Citizen Potawatomi Nation 1601 S. Gordon Cooper Drive Shawnee, OK 74801	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Nation	C.J. Watkins, Vice President	(405) 247-2448		Delaware Nation P.O. Box 825 Anadarko, OK 73005	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Nation	Tamara Francis-Fourkiller, Cultural Preservation Director	(405) 247-2448, ext 1180	tfrancis@delawarenation.com	Delaware Nation P.O. Box 825 Anadarko, OK 73005	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Tribe of Indians	Paula Pechonick, Chief	(918) 336-5272		Delaware Tribe of Indians 170 N Barbara Ave Bartlesville, OK 74003	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Delaware Tribe of Indians	Dr. Brice Obermeyer, Director, Tribal Historic Preservation Office	(620) 341-6699	bobermeyer@delawatribes.org	Delaware Tribe of Indians Roosevelt Hall, Room 212 1200 Commercial Street Emporia, KS 66801	10/28/14 via letter	10/28/14 via USPS certified mail	11/17/14 via letter

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Eastern Shawnee Tribe of Oklahoma	Glenna J. Wallace, Chief	(918) 666-2435	gjwallace@estoo.net	Eastern Shawnee Tribe of Oklahoma P.O. Box 350 Seneca, MO 64865	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Eastern Shawnee Tribe of Oklahoma	Robin Dushane, Tribal Historic Preservation Officer	(918) 666-2435, ext 247	r.dushane@estoo.net	Eastern Shawnee Tribe of Oklahoma 12705 South 705 Road Wyandotte, OK 74370	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Fond du Lac Band of the Minnesota Chippewa Tribe	Karen Driver, Chairwoman	(218) 878-2612	karendriver@fdlrez.com	Fond du Lac Band of the Minnesota Chippewa Tribe 1720 Big Lake Road Cloquet, MN 55720	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Fond du Lac Band of the Minnesota Chippewa Tribe	LeRoy Defoe, Tribal Historic Preservation Officer	(218) 878-7129	leroydefoe@fdlrez.com	Fond du Lac Band of the Minnesota Chippewa Tribe 1720 Big Lake Road Cloquet, MN 55720	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Forest County Potawatomi	Harold Frank, Chairman	(715) 478-7200		Forest County Potawatomi 5416 Everybody's Rd Crandon, WI 54520	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Forest County Potawatomi	Melissa Cook, Tribal Historic Preservation Officer	(800) 960-5479, ext 7248	melissa.cook@fcpotawatomi-nsn.gov	Forest County Potawatomi Cultural Center, Library & Museum 8130 Mishkoswen Drive PO Box 340 Crandon, WI 54520	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Grand Portage Band of the Minnesota Chippewa Tribe	Norman Deschampe, Chairman	(218) 475-2277	norman@grandportage.com	Grand Portage Band of the Minnesota Chippewa Tribe P.O. Box 428 Grand Portage, MN 55605	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Grand Portage Band of the Minnesota Chippewa Tribe	Mary Ann Gagnon, Tribal Historic Preservation Officer	(218) 475-0111	maryanng@grandportage.com	Grand Portage Band of the Minnesota Chippewa Tribe P.O. Box 428 Grand Portage, MN 55605	12/11/14 via letter	12/11/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Grand Traverse Band of Ottawa and Chippewa Indians	Derek J. Bailey, Chairperson	231-534-7750	derek.bailey@gtindians.com	Grand Traverse Band of Ottawa and Chippewa Indians 2605 North West Bayshore Drive Suttons Bay, MI 49682	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Hannahville Indian Community	Kenneth Meshigaud, Chairperson	(906) 466-2932		Hannahville Indian Community N14911 Hannahville B1 Rd Wilson, MI 49896	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Keweenaw Bay Indian Community	Donald Shalifoe, Sr. Ogimaa	(906) 353-6623	tcchris@kbic-nsn.gov	Keweenaw Bay Indian Community 16429 Beartown Road Baraga, MI 49908	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Keweenaw Bay Indian Community	Chris Chosa, Tribal Historic Preservation Officer	(906) 353-6272		Keweenaw Bay Indian Community 16429 Beartown Road Baraga, MI 49908	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin	Michael Isham, Jr. Chairman	(715) 634-8934	terrikay@cheqnet.net	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin 13394 West Trapania Road, Building No. 1 Hayward, WI 54843	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin	Jerry Smith, Tribal Historic Preservation Officer	(715) 634-8934		Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin 13394 West Trapania Road, Building No. 1 Hayward, WI 54843	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin	Tom Maulson, President	(715) 588-3303		Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin P.O. Box 67 Lac du Flambeau, WI 54538	12/11/14 via letter	12/11/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin	Melinda Young, Tribal Historic Preservation Officer	(715) 588-2139		Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin P.O. Box 67 Lac du Flambeau, WI 54538	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac Vieux Desert Band of Lake Superior Chippewa Indians	Alan Shively, Chairman	(906) 358-0137	jim.williams@lvdtribal.com	Lac Vieux Desert Band of Lake Superior Chippewa Indians P.O. Box 249 Watersmeet, MI 49969	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Lac Vieux Desert Band of Lake Superior Chippewa Indians	Giiwegiizhigook way Martin, Tribal Historic Preservation Officer	(906) 358-4577	gmartin@lvdtribal.com	Lac Vieux Desert Band of Lake Superior Chippewa Indians P.O. Box 249 Watersmeet, MI 49969	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Leech Lake Band of the Minnesota Chippewa Tribe	Carrie Jones, Chairwoman	(218) 335-8200		Leech Lake Band of the Minnesota Chippewa Tribe 115 6th Street NW Suite E Cass Lake, MN 56633	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Leech Lake Band of the Minnesota Chippewa Tribe	Gina Lemon, Tribal Historic Preservation Officer			Leech Lake Band of the Minnesota Chippewa Tribe 115 6th Street NW Suite E Cass Lake, MN 56633	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan	David Sprague, Chairman	(616) 681-8830	dsprague@mbpi.org	Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan P.O. Box 218 Dorr, MI 49323	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Miami Tribe of Oklahoma	George Strack, Tribal Historic Preservation Officer	(918) 542-1442	gstrack@miamination.com	Miami Tribe of Oklahoma P.O. Box 1326 Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Mille Lacs Band of the Minnesota Chippewa Tribe	Melanie Benjamin, Chief Executive	(320) 532-4181		Mille Lacs Band of the Minnesota Chippewa Tribe 43408 Oodena Drive Onamia, MN 56359	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Mille Lacs Band of the Minnesota Chippewa Tribe	Natalie Weyaus, Tribal Historic Preservation Officer	(320) 532-7450		Mille Lacs Band of the Minnesota Chippewa Tribe 43408 Oodena Drive Onamia, MN 56359	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Minnesota Chippewa Tribe	Norman Deschampe, President	(218) 335-8581		Minnesota Chippewa Tribe P.O. Box 217 Cass Lake, MN 56633	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Miami Tribe of Oklahoma	Douglas Lankford, Chief	(918) 542-1445	info@miamination.com	Miami Tribe of Oklahoma P.O. Box 1326 Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Nottawaseppi Huron Band of the Potawatomi	Homer Mandoka, Chairman	(269) 729-5151	hmandoka@nhbpi.com	Nottawaseppi Huron Band of the Potawatomi 2221 1 1/2 Mile Road Fulton, MI 49052	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Nottawaseppi Huron Band of the Potawatomi	Jeff Chivis, Tribal Historic Preservation Officer	(269) 704-8416	jchivis@nhbpi.com	Nottawaseppi Huron Band of the Potawatomi 1485 Mno-Bmadzewen Way Fulton, MI 49052	12/16/14 via letter	12/16/14 via USPS certified mail	12/4/14 via email and letter
Tribe	Ottawa Tribe of Oklahoma	Ethel Cook, Chief	(918) 542-6162	adawetribe@sbcglobal.net	Ottawa Tribe of Oklahoma P.O. Box 110 Miami, OK 74354	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Ottawa Tribe of Oklahoma	Rhonda Dixon, Tribal Historic Preservation Officer	(918) 542-6162	dixon_rhonda@sbcglobal.net	Ottawa Tribe of Oklahoma P.O. Box 110 Miami, OK 74354	10/28/14 via letter	10/28/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Peoria Tribe of Indians of Oklahoma	John P. Froman, Chief	918-540-4155	jfroman@peoriatribe.com	Peoria Tribe of Indians of Oklahoma P.O. Box 1527 Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	11/7/14 via letter
Tribe	Pokagon Band of Potawatomi Indians	Matthew J. Wesaw, Chairman	(517) 719-5579	matthew.wesaw@pokagonband-nsn.gov	Pokagon Band of Potawatomi Indians P.O. Box 110 Dowagiac, MI	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Pokagon Band of Potawatomi Indians	Mike Zimmerman, Tribal Historic Preservation Officer	(269) 782-9602	michael.zimmerman@pokagonband-nsn.gov	Pokagon Band of Potawatomi Indians P.O. Box 110 Dowagiac, MI	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Prairie Band of Potawatomi Nation	Steve Ortiz, Chairman	(785) 966-4000		Prairie Band of Potawatomi Nation 16277 Q Road Mayetta, KS 66509	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Quechan Tribe of the Fort Yuma Indian Reservation	Mike Jackson, President	(760) 572-0213		Quechan Tribe of the Fort Yuma Indian Reservation P.O. Box 1899 Yuma, AZ 85366	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin	Rose Gurnoe-Soulier, Chairperson	(715) 779-3700	webmaster@redcliff-nsn.gov	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin 88385 Pike Road, Hwy 13 Bayfield, WI 54814	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin	Larry Balber, Tribal Historic Preservation Officer	(715) 779-3650		Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin 88385 Pike Road, Hwy 13 Bayfield, WI 54814	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Red Lake Band of Chippewa Indians	Floyd Jourdain, Chairperson	(218) 679-3341		Red Lake Band of Chippewa Indians P.O. Box 550 Redlake, MN 56671	12/11/14 via letter	12/11/14 via USPS certified mail	



NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Saginaw Chippewa Indian Tribe of Michigan	Dennis V. Kequom, Chief	(989) 775-4000	dkequom@sagchip.org	Saginaw Chippewa Indian Tribe of Michigan 7070 East Broadway Road Mt. Pleasant, MI 48858	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Saginaw Chippewa Indian Tribe of Michigan	William Johnson, Curator	(989) 775-4730	wjohnson@sagchip.org	Ziibwing Center of Anishinabe Culture and Lifeways 6650 East Broadway Road Mt. Pleasant, MI 48858	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Sault Ste. Marie Tribe of Chippewa Indians of Michigan	Aaron Payment, Chairperson	(906) 635-6050	aaronpayment@saulttribe.net	Sault Ste. Marie Tribe of Chippewa Indians of Michigan 523 Ashmun Street Sault Ste. Marie, MI 49783	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Seneca-Cayuga Tribe of Oklahoma	LeRoy Howard, Chief	(918) 542-6609, ext 19		Seneca-Cayuga Tribe of Oklahoma 23701 South 655 Road Grove, OK 74344	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Seneca-Cayuga Tribe of Oklahoma	Paul Barton, Tribal Historic Preservation Officer	(918) 787-7979	pbarton@sctribe.com	Seneca-Cayuga Tribe of Oklahoma 23701 South 655 Road Grove, OK 74344	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Seneca Nation of Indians	Beverly Cook, President			Seneca Nation of Indians 90 O:hi'yoh Way Salamanca, NY 14779	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Seneca Nation of Indians	Melissa Bach, Tribal Historic Preservation Officer	(716) 945-1790, ext 3580	melissa.bach@sni.org	Seneca Nation of Indians 90 O:hi'yoh Way Salamanca, NY 14779	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Shawnee Tribe	Ron Sparkman, Chairperson	(918) 542-2441	ronded@gmail.com	Shawnee Tribe P.O. Box 189 South Highway 69A, Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
Tribe	Shawnee Tribe	Kim Jumpers, Tribal Historic Preservation Officer	(918) 542- 2441	kim.jumper@shawnee- tribe.com	Shawnee Tribe P.O. Box 189 South Highway 69A, Miami, OK 74355	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Sokaogon Chippewa Community	Garland McGeshick, Chairman	(715) 478- 7504	gaye.graham@scc- nsn.gov	Sokaogon Chippewa Community 3051 Sand Lake Road Crandon, WI 54520	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	St. Croix Chippewa Indians of Wisconsin	Stuart Bearheart, Chairman	(715) 349- 2195	annb@stcroixtribalcente r.com	St. Croix Chippewa Indians of Wisconsin 24663 Angeline Avenue Webster, WI 54893	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Tonawanda Band of Seneca Indians of New York	Darwin Hill, Chief	(716) 542- 4244	toseneca@aol.com	Tonawanda Band of Seneca Indians of New York P.O. Box 795 7027 Meadville Road Basom, NY 14013	10/28/14 via letter	10/28/14 via USPS certified mail	
Tribe	Turtle Mountain Band of Chippewa Indians of North Dakota	Richard McCloud, Chairman	(701) 477- 2600		Turtle Mountain Band of Chippewa Indians of North Dakota P.O. Box 900 Belcourt, ND 58316	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	White Earth Band of Minnesota Chippewa Tribe	Erma Vizenor, Chairman	(218) 983- 3285	desiraes@whiteearth.co m	White Earth Band of Minnesota Chippewa Tribe P.O. Box 418 White Earth, MN 56591	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	White Earth Band of Minnesota Chippewa Tribe	Renee Lampi, Tribal Historic Preservation Officer	(218) 983- 3263		White Earth Band of Minnesota Chippewa Tribe P.O. Box 418 White Earth, MN 56591	12/11/14 via letter	12/11/14 via USPS certified mail	
Tribe	Wyandotte Nation	Billy Friend, Chief	(918) 678- 2297		Wyandotte Nation 64700 E. Highway 60 Wyandotte, OK 74370	10/28/14 via letter	10/28/14 via USPS certified mail	

NEXUS Project Stakeholder List – Non-Landowners Federal, State, and Local Agency Contacts								
Agency	Office	Contact Name	Contact Phone	Contact Email	Contact Address	Initial Contact Date	Date Sent	Response Date/Type
<b>Tribe</b>	Wyandotte Nation	Sherri Clemons, Tribal Historic Preservation Officer	(918) 678- 2297, ext 244	sclemons@wyandotte.o rg	Wyandotte Nation 64700 E. Highway 60 Wyandotte, OK 74370	10/28/14 via letter	10/28/14 via USPS certified mail	
<b>LOCAL</b>								
<b>CLG</b>	Washtenaw County Historic Preservation	Melissa Milton- Pung, Historic Preservation Planner	(734) 222- 6878	miltonpungm@ewashte naw.org	Washtenaw County Office of Community & Economic Development 110 N. Fourth Ave. Ann Arbor, MI 48107	10/27/14 via letter	10/27/14 via USPS certified mail	
<b>MWCD</b>	Muskingum Watershed Conservancy District	Boris E. Slogar, P.E., M.P.M. Chief Engineer	(330) 556- 4816 (866) 363- 8500	TBD	Muskingum Watershed Conservancy District 1319 Third St. NW PO Box 349 New Philadelphia, OH 44663- 0349			

## Appendix D: Agency Permits and Approvals

<b>Appendix D - NEXUS Project Agency Permits and Approvals</b>			
<b>Agency</b>	<b>Assumed Permit/Approval/ Consultation</b>	<b>Assumed Approval Timeline</b>	<b>Assumed Studies Needed to Support Applications</b>
<b>FEDERAL</b>			
Federal Energy Regulatory Commission (FERC)	<ul style="list-style-type: none"> <li>&gt; Certificate of Public Convenience and Necessity - Section 7(c) of the Natural Gas Act requires preparation of an ER (consisting of 12 Resource Reports) to be included with the Section 7(c) application. Spectra Energy is proposing to use FERC's Pre-filing Process which will involve conducting public open houses, preparation of responses to comments received on the Project, and preparation of draft and final Resource Reports. Following submittal of the ER, support activities include responding to FERC staff data requests, reviewing FERC's EIS and preparing the Implementation Plan.</li> <li>&gt; Assessment of environmental impacts under the National Environmental Policy Act (42 USC §§ 4321 et seq., 18 CFR Part 380)</li> </ul>	Approval Process: Approximately 23 months – assumes an Environmental Impact Statement (EIS)	<ul style="list-style-type: none"> <li>&gt; Pre-filing Notice Letter</li> <li>&gt; Pre-filing Environmental Reports</li> <li>&gt; Response to public comments</li> <li>&gt; Formal filing of Environmental Reports</li> <li>&gt; Data Request Response</li> <li>&gt; Implementation Plan</li> </ul>
U.S. Army Corps of Engineers (USACE) (Buffalo, Pittsburgh, Huntington, & Detroit Districts)	<ul style="list-style-type: none"> <li>&gt; Section 404 of the Clean Water Act (CWA), Section 10 of the Rivers and Harbors Act</li> </ul>	Approval Process: 12–24 months Concurrent with the FERC EIS	<ul style="list-style-type: none"> <li>&gt; Nationwide or Individual Permit applications depending on the results of agency consultations and anticipated impact thresholds.</li> <li>&gt; Delineate and map wetlands and waterbodies and quantify area of temporary and permanent wetland impacts.</li> <li>&gt; Develop procedures to avoid, minimize and mitigate impacts to wetlands and waterbodies.</li> <li>&gt; USACE Jurisdictional Determination (JD) data forms for wetland and waterbody crossings, if necessary</li> </ul>
U.S. Department of Interior Fish and	<ul style="list-style-type: none"> <li>&gt; Consultation under Section 7 Endangered Species Act (ESA),</li> </ul>	Approval Process: 23 months concurrent	<ul style="list-style-type: none"> <li>&gt; Threatened and Endangered (T&amp;E) species surveys.</li> <li>&gt; Specialized protected species surveys (e.g., Indiana bat; northern long-</li> </ul>

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Wildlife Service (USFWS); Midwest Region 3 (Columbus, Ohio and East Lansing, Michigan Field offices)	Migratory Bird Treaty Act (MBTA)	with FEIS process	<p>eared bat).</p> <ul style="list-style-type: none"> <li>&gt; Prepare separate Biological Assessment (BA) evaluating impacts to T&amp;E species and habitat, if required.</li> <li>&gt; Develop procedures to avoid, minimize, and mitigate impacts to T&amp;E species and habitat.</li> <li>&gt; Develop T&amp;E species protection and monitoring plans (e.g., Indiana bat; northern long-eared bat).</li> </ul>
U.S. Department of Interior National Park Service (NPS)	> Wabash Cannonball Trail historically significant segments	Approval Process: Unknown but expected to be concurrent with other processes	> Consultation letter will be prepared requesting comments
U.S. Department of Agriculture Natural Resource Conservation Service	> Restoration Consultation and potential Agricultural Impact Mitigation Agreement.	Approval Process: 6-12 months	> Coordinate with USDA on agricultural impacts and procedures.
U.S. Environmental Protection Agency (USEPA) (Region 3)	<ul style="list-style-type: none"> <li>&gt; Review of USACE (CWA) applications with 404(c) authority for wetland permits issued by the USACE</li> <li>&gt; Review Section 10 applicability</li> <li>&gt; Delegated state oversight and review of NPDES permit program for discharges of hydrostatic test water in Ohio and Michigan</li> <li>&gt; Review of any major source air permit issued by OEPA</li> </ul>	Approval Process: Oversight of Federal and state agency review	<ul style="list-style-type: none"> <li>&gt; Coordinate with USEPA on review of USACE CWA applications, applicability and permit process.</li> <li>&gt; Coordinate with USEPA on review of DEIS, FEIS and NEPA process.</li> </ul>
U.S. Department of Transportation, Federal Aviation Administration	> Determination of No Hazard may be required for communication towers greater than 200 feet above ground level	60 to 90 days depending on complexity of identified potential hazards	<ul style="list-style-type: none"> <li>&gt; Coordinate with FAA, Department of Defense, and National Telecommunications Information Administration (NTIA) to determine potential for conflicts with existing facilities.</li> <li>&gt; Perform required impact assessments (if required)</li> <li>&gt; Coordinate with agencies a file required permit applications</li> </ul>
Advisory Council on Historic Preservation and Consultation with Native American Tribes	> Section 106 Consultation, NHPA consultation with Native American tribes with ties to the Project area to obtain comments or concerns regarding potential impacts to traditional Native American cultural	Approval Process: 12+ months of consultation concurrent with FEIS process. Approval through the FEIS	> Native American tribes in the Project area will be identified and consultation letters to each tribe will be prepared, requesting comments on the Project

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<b>Agency</b>	<b>Assumed Permit/Approval/ Consultation</b>	<b>Assumed Approval Timeline</b>	<b>Assumed Studies Needed to Support Applications</b>
	or historic properties. To ensure compliance, FERC will consult directly with the Advisory Council.	Process.	
National Marine Fisheries Service	> Potential consultation pursuant to the Magnuson-Stevens Fisheries Conservation and Management Act for potential impacts to essential fish habitat	Approval Process: 12+ months of consultation concurrent with FEIS process. Approval through the FEIS Process.	> Essential Fish Habitat Assessment
<b>STATE</b>			
Ohio Power Siting Board (OPSB)	> Potential Consultation and Intervener Status in FERC Process	Potential intervener in the FERC Process	> Limited consultation to ensure understanding of the Project scope and schedule. Establish a positive relationship with the OPSB to help streamline the overall process.
Ohio Department of Natural Resources (ODNR), Division of Wildlife	> State listed species consultation.	Consultation: 12-18 months depending on identified species and survey requirements	> Protected species surveys, as required after consultation with ODNR. > Specialized protected species surveys (e.g., Indiana bat, northern long-eared bat) > Consultation regarding state listed species affected by the Project that may require consideration.
ODNR, Division of Soil and Water Conservation	> Agricultural Impact Mitigation Agreement ("AIMA")	Approval Process: TBD – may or may not be required	> Development of agreement
ODNR, Office of Coastal Management	> Coastal Zone Consistency Determination for work within the Lake Erie Coastal Zone Management Area	Statutory review time allows ODNR 6 months for review.	> Evaluate activities proposed within the mapped Lake Erie Coastal Zone Management area boundary to confirm they will be performed in compliance with the "enforceable policies" of Ohio's approved coastal management program > File application and certify in writing that proposed activities are in compliance with the enforceable policies of Ohio's approved coastal management program
Ohio Environmental Protection Agency (OEPA), Division of Surface Water	> Section 401 Water Quality Certification > NPDES General Permit for Discharge of Hydrostatic Test Water	Consultation and Approval Process: Initial pre-filing consultation and 6	> Delineation and mapping of wetlands and quantification of acreage > Mitigation plans for wetland losses exceeding 1/10 acre (including temporary impacts), and also for conversion of forested wetland to scrub-shrub/emergent wetland.

<b>Appendix D - NEXUS Project Agency Permits and Approvals</b>			
<b>Agency</b>	<b>Assumed Permit/Approval/ Consultation</b>	<b>Assumed Approval Timeline</b>	<b>Assumed Studies Needed to Support Applications</b>
	<ul style="list-style-type: none"> <li>&gt; FERC regulated pipelines are exempted from the NPDES application process (but still must comply with federal construction stormwater discharge standards)</li> <li>&gt; Isolated Wetlands Permit, if required.</li> </ul>	months for approval after acceptance of the application	
OEPA, Division of Air Pollution Control	<ul style="list-style-type: none"> <li>&gt; Major/minor source permits to install and operate depending on compressor station horsepower requirements.</li> <li>&gt; Possible minor source permits to install and operate for meter station air emissions.</li> </ul>	Approval Process: 6-18 months	<ul style="list-style-type: none"> <li>&gt; Air quality dispersion modeling may be required for compressor stations.</li> <li>&gt; Top down BACT analysis for any pollutants above significance thresholds.</li> <li>&gt; State BAT analysis required for pollutants exceeding 10 TPY.</li> </ul>
Ohio Historical Society (Ohio State Historic Preservation Office [SHPO])	<ul style="list-style-type: none"> <li>&gt; NHPA, Section 106 Consultation</li> </ul>	Consultation and Approval Process which starts after surveys complete: 20 months total	<ul style="list-style-type: none"> <li>&gt; Phase I survey to identify historically or archeologically significant properties.</li> <li>&gt; Phase II studies to determine eligibility for inclusion of properties on the National Register of Historic (or Archeological) Places, after identification at the Phase I level.</li> <li>&gt; Phase III mitigation for National Register properties impacted by the Project, if required after Phase II is completed. Mitigation of sites can take 6-9 months or longer.</li> <li>&gt; Historic structure assessment, linear resources, viewsheds should also be included,</li> <li>&gt; Memorandum of Agreements and tribal consultation will typically be done by FERC, but can add considerably to the time. If there is a time constraint, then some work should be completed by the Applicant.</li> <li>&gt; Unanticipated Discoveries Plan</li> </ul>
Ohio Department of Transportation (ODOT)	<ul style="list-style-type: none"> <li>&gt; State road, highway, or interstate crossing permits</li> </ul>	Approval Process: 4-6 months	Information concurrent with other applications.
Various railroad, transmission line, and other right-of-way owners.	<ul style="list-style-type: none"> <li>&gt; Railroad, transmission line, and other right-of-way crossing negotiations.</li> </ul>	Approval Process: 4-12 months	Information concurrent with other applications.
Michigan Department of Natural Resources (MDNR), Wildlife	State listed species consultation.	Consultation: 12-18 months depending on identified species and	<ul style="list-style-type: none"> <li>&gt; Protected species surveys.</li> <li>&gt; Consultation regarding state listed species affected by the Project that may require conservation plans.</li> </ul>

<b>Appendix D - NEXUS Project Agency Permits and Approvals</b>			
<b>Agency</b>	<b>Assumed Permit/Approval/ Consultation</b>	<b>Assumed Approval Timeline</b>	<b>Assumed Studies Needed to Support Applications</b>
Division		survey requirements	
MDNR	Public Lands consultation > Permit to Use State Lands	Approval Process: 3-6 months	Information concurrent with other applications.
Michigan Department of Environmental Quality (MDEQ), Water Resources Division	Joint Permit consultation > MDEQ/USACE Joint Permit for impacts to wetlands, inland lakes, streams and floodplains > NPDES Permit for Storm Water Discharge from Construction Activities > Water Withdrawal Authorization	Approval Process: 6 - 12 months	> Delineation and mapping of wetlands and waters of the state and quantification of impacts. Mapping of floodplains and quantification of impacts.
MDEQ, Air Quality Division	> Possible permit to install for facility meter station air emissions	Approval Process: 4-12 months	TBD
Michigan State Housing and Development Authority (MSHDA) - State Historic and Preservation Office (SHPO)	NHPA, Section 106 Consultation	Consultation and Approval Process which starts after surveys complete: 20 months total	> Phase I survey to identify historically or archeologically significant properties. > Phase II studies to determine eligibility for inclusion of properties on the National Register of Historic (or Archeological) Places, if required. > Phase III mitigation for National Register properties impacted by the Project, if required. > Unanticipated Discoveries Plan
Michigan Department of Transportation (MDOT)	State road, highway, or interstate crossing permits	Approval Process: 4-12 months	Information concurrent with other applications.
<b>LOCAL</b>			
Various railroad, transmission line, and other right-of-way owners.	Railroad, transmission line, and other right-of-way crossing negotiations	Approval Process: 4-12 months	Information concurrent with other applications.
General Concerns of Counties/Cities	> Drain Crossing Permits and Soil Erosion & Sedimentation Control Permits	Approval Process: TBD	Information concurrent with other applications.
Lenawee County, Michigan	> County Drain ROW Permits > Soil Erosion & Sedimentation Control Permit	Approval Process: 1-3 months	Information concurrent with other applications.
Monroe County,	> County Drain ROW Permits	Approval Process:	Information concurrent with other applications.



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Michigan	> Soil Erosion & Sedimentation Control Permit	1-3 months	
Washtenaw County, Michigan	> County Drain ROW Permits > Soil Erosion & Sedimentation Control Permit	Approval Process: 1-6 months	Information concurrent with other applications.

## Appendix E: Stakeholder List -- Non-Landowners - Public Officials, Community and Public Interest Groups and Non- governmental Organizations

### Public Officials – Michigan

First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
David	Stimpson	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Edwin "Jack"	Branch	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Jim	Driskill	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Cletus	Smith	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Karol	Bolton	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Terry	Collins	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
John	Tuckerman	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Ralph	Tillotson	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Chris	Wittenbach	Lenawee	County Commissioner		301 North Main Street	Adrian	MI	49221
Martin	Marshall	Lenawee	County Administrator		301 North Main Street	Adrian	MI	49221
Bruce	Caswell	Lenawee	State Senator		P.O. Box 30036	Lansing	MI	48909
Mike	Shirkey	Lenawee	State Representative		P.O. Box 30014	Lansing	MI	48909
Nancy	Jenkins	Lenawee	State Representative		P.O. Box 30014	Lansing	MI	48909
Richard	Marks	Lenawee	Town Supervisor	Ogden Township	10526 Pence Hwy	Blissfield	MI	49228
Russell	Mead	Lenawee	Trustee	Ogden Township	10052 Crockett Hwy	Blissfield	MI	49228
Mark	Vandenbusche	Lenawee	Trustee	Ogden Township	6672 E. Weston Rd.	Blissfield	MI	49228
Jim	Isley	Lenawee	Town Supervisor	Palmyra Township	2683 Grosvenor Highway	Palmyra	MI	49268

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First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Steve	Papenhagen	Lenawee	Trustee	Palmyra Township	5765 Palmyra Road	Palmyra	MI	49268
Perry	Pooley	Lenawee	Trustee	Palmyra Township	4594 Ogden Highway	Adrian	MI	49221
Al	Navarro	Lenawee	Town Supervisor	Blissfield Township	120 S. Lane Street P.O. Box 58	Blissfield	MI	49228
Kris	Ruhl	Lenawee	Trustee	Blissfield Township	120 S. Lane Street P.O. Box 58	Blissfield	MI	49228
Devon	Gilson-Pitts	Lenawee	Trustee	Blissfield Township	120 S. Lane Street P.O. Box 58	Blissfield	MI	49228
Ron	Cousino	Lenawee	Town Supervisor	Deerfield Township	392 East River Street	Deerfield	MI	49238
Keith	Kapnick	Lenawee	Trustee	Deerfield Township	1645 N Stearns Road	Deerfield	MI	49238
Daniel	Witt	Lenawee	Trustee	Deerfield Township	2352 Stearns Road	Deerfield	MI	49238
Lee	Wagner	Lenawee	Town Supervisor	Macon Township	9620 Smith Road	Tecumseh	MI	49286
David	Wielfaert	Lenawee	Trustee	Macon Township	12922 Milwaukee Road	Britton	MI	49229
Ed	Clark	Lenawee	Trustee	Macon Township	11852 Tecumseh-Macon Road	Clinton	MI	49236
Robert	Downing	Lenawee	Town Supervisor	Ridgeway Township	6666 North County Line Highway	Britton	MI	49229
Marc	Brown	Lenawee	Trustee	Ridgeway Township	7583 Hendershot Highway	Tecumseh	MI	49286
Daniel	Prielipp	Lenawee	Trustee	Ridgeway Township	4651 Downing Road	Britton	MI	49229
David	Hoffman	Monroe	County Commissioner		125 East Second Street	Monroe	MI	48161
Mark	Brant	Monroe	County Commissioner		4929 Blue Bush	Monroe	MI	48162
Al	Potratz	Monroe	County Commissioner		4848 S. Huron River	Flat Rock	MI	48134
Dan	Donahue	Monroe	County Commissioner		733 E. Hurd Road	Monroe	MI	48161
Jason	Turner	Monroe	County Commissioner		125 East Second Street	Monroe	MI	48161
Jerry	Oley	Monroe	County Commissioner		125 East Second Street	Monroe	MI	48161
Gary	Wilmoth	Monroe	County Commissioner		3635 Luna Pier Road	Erie	MI	48133
Mark	Ellsworth	Monroe	County Commissioner		1421 Winding Way	Temperance	MI	48182

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First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Michael	Bosanac	Monroe	County Administrator		125 East Second Street	Monroe	MI	48161
J. Henry	Lievens	Monroe	County Commissioner		125 East Second Street	Monroe	MI	48161
Randy	Richardville	Monroe	State Senator		P.O. Box 30036	Lansing	MI	48909
Phil	Heath	Monroe	Town Supervisor	Milan Township	16444 Cone Road	Milan	MI	48160
Olga	Mancik	Monroe	Trustee	Milan Township	16444 Cone Road	Milan	MI	48160
Bob	Dopkowski	Monroe	Trustee	Milan Township	1644 Cone Road	Milan	MI	48160
Kent	Martinez-Kratz	Washtenaw	County Commissioner		6980 Old Forge Court	Chelsea	MI	48118
Dan	Smith	Washtenaw	County Commissioner		328 N. Pointe Drive	Whitmore Lake	MI	48189
Alicia	Ping	Washtenaw	County Commissioner		307 N Harris	Saline	MI	48104
Felicia	Brabec	Washtenaw	County Commissioner		220 North Main Street	Ann Arbor	MI	48104
Ruth Ann	Jamnick	Washtenaw	County Commissioner		7776 Lake Crest Drive	Ypsilanti	MI	48197
Ronnie	Peterson	Washtenaw	County Commissioner		1146 Rue Willette Blvd	Ypsilanti	MI	48198
Andy	LaBarre	Washtenaw	County Commissioner		2411 Meadowridge Crt	Ann Arbor	MI	48105
Yousef	Rabhi	Washtenaw	County Commissioner		1255 Kensington Drive	Ann Arbor	MI	48104
Conan	Smith	Washtenaw	County Commissioner		234 Eighth	Ann Arbor	MI	48103
Verna	McDaniel	Washtenaw	County Administrator		220 North Main Street	Ann Arbor	MI	48104
Adam	Zemke	Washtenaw	State Representative		P.O. Box 30014	Lansing	MI	48909
David	Rutledge	Washtenaw	State Representative		P.O. Box 30014	Lansing	MI	48909
Rebekah	Warren	Washtenaw	State Senator		P.O. Box 30036	Lansing	MI	48909
John	Stanowski	Washtenaw	Town Supervisor	York Township	11560 Stony Creek Road	Milan	MI	48160
Jill	Hargrove	Washtenaw	Trustee	York Township	11560 Stony Creek Road	Milan	MI	48160
Brian	Iott	Washtenaw	Trustee	York Township	11560 Stony Creek Road	Milan	MI	48160
Jane	Kartje	Washtenaw	Trustee	York Township	11560 Stony Creek Road	Milan	MI	48160
Dan	Pichla	Washtenaw	Trustee	York Township	11560 Stony Creek Road	Milan	MI	48160

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First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Pete	Hafler	Washtenaw	Supervisor	Augusta Township	P.O. Box 100	Whittaker	MI	48190
Cath	Howard	Washtenaw	Trustee	Augusta Township	P.O. Box 100	Whittaker	MI	48190
Joe	Keefe	Washtenaw	Trustee	Augusta Township	P.O. Box 100	Whittaker	MI	48190
Judy	Thornton	Washtenaw	Trustee	Augusta Township	P.O. Box 100	Whittaker	MI	48190
Ira	Todd	Washtenaw	Trustee	Augusta Township	P.O. Box 100	Whittaker	MI	48190
Larry	Doe	Washtenaw	Treasurer	Ypsilanti Township	7200 South Huron River Drive	Ypsilanti	MI	48197
Brenda	Stumbo	Washtenaw	Trustee	Ypsilanti Township	7200 South Huron River Drive	Ypsilanti	MI	48197
Jean	Hall Currie	Washtenaw	Trustee	Ypsilanti Township	7200 South Huron River Drive	Ypsilanti	MI	48197
Mike	Martin	Washtenaw	Trustee	Ypsilanti Township	7200 South Huron River Drive	Ypsilanti	MI	48197
Scott	Martin	Washtenaw	Trustee	Ypsilanti Township	7200 South Huron River Drive	Ypsilanti	MI	48197
Stan	Eldridge	Washtenaw	Trustee	Ypsilanti Township	7200 South Huron River Drive	Ypsilanti	MI	48197
Tim	Walberg	Lenawee, Monroe, Washtenaw	US Representative		110 First Street, Suite 2	Jackson	MI	49201
John	Dingell	Washtenaw	US Representative		19855 West Outer Drive, Suite 103-E	Dearborn	MI	48124
Debbie	Stabenow		US Senator		221 West Lansing Road, Suite 100	East Lansing	MI	48823
Carl	Levin		US Senator		477 Michigan Avenue, Suite 1860	Detroit	MI	48823
Rick	Snyder		Governor		P. O. Box 30013	Lansing	MI	48909

**Public Officials – Ohio**

First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Jeffrey	Ohler	Carroll	County Commissioner	879 Courtview Dr.		Carrollton	OH	44615
Thomas	Wheaton	Carroll	County Commissioner	4082 Perth Rd. SE		Carrollton	OH	44615
Robert	Wirkner	Carroll	County Commissioner	2072 Brenner Rd. NE		Carrollton	OH	44615
Curtis	Frase	Carroll	East Township Trustee	8156 Mark Rd. NE		Kensington	OH	44427
Richard	Miller	Carroll	East Township Trustee	5210 Meadow Rd. NE		Kensington	OH	44427
Russell	Shipley	Carroll	East Township Trustee	9099 Apollo Rd. NE		Kensington	OH	44427
Andy	Thompson	Carroll	State Representative	77 South High Street		Columbus	OH	43215
Gregory	Carver	Columbiana	Knox Township Trustee	4038 Homeworth Rd.		Homeworth	OH	44634
Sara	Crawford	Columbiana	Knox Township Trustee	26026 Hartley Rd.		Beloit	OH	44609
Benjamin	Pidgeon	Columbiana	Knox Township Trustee	27625 SR 62		Beloit	OH	44609
Dale	Lowmiller	Columbiana	West Township Trustee	23980 SR 172		Minerva	OH	44657
Richard	McClellan	Columbiana	West Township Trustee	22502 McDaniel Rd.		Minerva	OH	44657
Glenn	Whiteleather	Columbiana	West Township Trustee	8008 Essick Rd.		Minerva	OH	44657
Steve	Kraus	Erie	State Representative	77 South High Street		Columbus	OH	43215
Rick	Jeffrey	Erie	Auditor	247 Columbus Ave.	Room 210	Sandusky	OH	44870
Mathew	Old	Erie	Berlin Township Trustee	12101 St. Rt. 61		Berlin Heights	OH	44814
Tadd	Smith	Erie	Berlin Township Trustee	12101 St. Rt. 61		Berlin Heights	OH	44814
John	Zarvis	Erie	Berlin Township Trustee	P.O. Box 216		Berlin Heights	OH	44814
Thomas	Ferrell, Jr.	Erie	Commissioner	2900 Columbus Ave.		Sandusky	OH	44870
Bill	Monaghan	Erie	Commissioner	2900 Columbus Ave.		Sandusky	OH	44870
Patrick	Shenigo	Erie	Commissioner	2900 Columbus Ave.		Sandusky	OH	44870
John	Farschman	Erie	Engineer	2700 Columbus Ave.		Sandusky	OH	44870

First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Raymond "Skip"	Halliwell	Erie	Florence Township Trustee	11011 Chapel St.		Wakeman	OH	44889
John	Krumweide	Erie	Florence Township Trustee	11011 Chapel St.		Wakeman	OH	44889
Orville	Sayler	Erie	Florence Township Trustee	11011 Chapel St.		Wakeman	OH	44889
Ron	Brown	Erie	Groton Township Trustee	1820 Bogart Rd.		Huron	OH	44839
Roger	Rowland	Erie	Groton Township Trustee	1820 Bogart Rd.		Huron	OH	44839
Roger	Russell	Erie	Groton Township Trustee	1820 Bogart Rd.		Huron	OH	44839
Daniel	Frederick	Erie	Milan Township Trustee	1518 St. Rt 113		Milan	OH	44846
Michael	Kegarise	Erie	Milan Township Trustee	1518 St. Rt 113		Milan	OH	44846
Jim	Verbridge	Erie	Milan Township Trustee	1518 St. Rt 113		Milan	OH	44846
Sparky	Weilnau	Erie	Milan Township Trustee	1518 St. Rt. 113		Milan	OH	44846
Scott	Leber	Erie	Oxford Township Trustee	11104 Ransom Rd.		Monroeville	OH	44847
Michael	Parker	Erie	Oxford Township Trustee	11104 Ransom Rd.		Monroeville	OH	44847
James	Stewart	Erie	Oxford Township Trustee	11104 Ransom Rd.		Monroeville	OH	44847
Barbara	Sessler	Erie	Recorder	247 Columbus Ave.	Suite 225	Sandusky	OH	44870
Randy	Gardner	Erie	State Senator	1 Capitol Square		Columbus	OH	43215
Vond	Hall	Fulton	Administrator	152 S. Fulton St. #270		Wauseon	OH	43567
Thomas	Herr Jr.	Fulton	Amboy Township Trustee	2650 Co. Rd. S		Metamora	OH	43540
Richard	Raab	Fulton	Amboy Township Trustee	2650 Co. Rd. S		Metamora	OH	43540
Jeff	Simon	Fulton	Amboy Township Trustee	2650 Co. Rd. S		Metamora	OH	43540
Brett	Kolb	Fulton	Auditor	152 S. Fulton St.	Suite 165	Wauseon	OH	43567
Paul	Barnaby	Fulton	Commissioner	152 S. Fulton St.	Suite 270	Wauseon	OH	43567
Bill	Rufenacht	Fulton	Commissioner	152 S. Fulton St.	Suite 270	Wauseon	OH	43567

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Perry	Rupp	Fulton	Commissioner	152 S. Fulton St.	Suite 270	Wauseon	OH	43567
Cheryl	Geer	Fulton	Council, Village of Metamora	P.O. Box 299		Metamora	OH	43540
John	Hudik	Fulton	Council, Village of Metamora	P.O. Box 299		Metamora	OH	43540
Karon	Lane	Fulton	Council, Village of Metamora	P.O. Box 299		Metamora	OH	43540
Ned	Monroe	Fulton	Council, Village of Metamora	P.O. Box 299		Metamora	OH	43540
Suzie	Stough	Fulton	Council, Village of Metamora	P.O. Box 299		Metamora	OH	43540
Ken	Wysong	Fulton	Council, Village of Metamora	P.O. Box 299		Metamora	OH	43540
Frank	Onweller	Fulton	Engineer	9120 Co. Rd. 14		Wauseon	OH	43567
Scott	Gillen	Fulton	Fulton Township Trustee	1613 Co. Rd. N		Swanton	OH	43558
Joe	Gombash	Fulton	Fulton Township Trustee	9241 Co. Rd. 1		Swanton	OH	43558
David	Pilliod	Fulton	Fulton Township Trustee	125 Woodside Drive		Swanton	OH	43558
Gary	Loar	Fulton	Mayor, Village of Metamora	P.O. Box 299		Metamora	OH	43540
Sandra	Barber	Fulton	Recorder	152 S. Fulton St.	Suite 175	Wauseon	OH	43567
Roy	Miller	Fulton	Sheriff	129 Courthouse Plaza		Wauseon	OH	43567
Lynn	Wachtmann	Fulton	State Representative	77 South High Street		Columbus	OH	43215
Cliff	Hite	Fulton	State Senator	1 Capitol Square		Columbus	OH	43215
Ron	Holdeman	Fulton	Swan creek Township Trustee	5565 Co. Rd. D		Delta	OH	43515
Rick	Kazmierczak	Fulton	Swan creek Township Trustee	5565 Co. Rd. D		Delta	OH	43515
Pamela	Moore	Fulton	Swan creek Township Trustee	5565 Co. Rd. D		Delta	OH	43515
Charlene	Lee	Fulton	Treasurer	152 S. Fulton St.	Suite 155	Wauseon	OH	43567
Jim	Cordes	Lorain	Administrator	226 Middle Ave.		Elyria	OH	44035
Eric	Norenerg	Lorain	City Manager	85 S. Main Street		Oberlin	OH	44074
Ted	Kalo	Lorain	Commissioner	226 Middle Avenue	Fourth Floor	Elyria	OH	44035
Lori	Kokoski	Lorain	Commissioner	226 Middle Avenue	Fourth Floor	Elyria	OH	44035



First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Matt	Lundy	Lorain	Commissioner	226 Middle Avenue	Fourth Floor	Elyria	OH	44035
Scott	Broadwell	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Bryan	Burgess	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Sharon	Fairchild-Soucy	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Elizabeth	Meadows	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Sharon	Pearson	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Kristin	Peterson	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Ron	Rimbert	Lorain	Council, City of Oberlin	85 South Main Street		Oberlin	OH	44074
Ken	Carney	Lorain	Engineer	247 Hadaway Street		Elyria	OH	44035
Jean	Haight	Lorain	Grafton Township Trustee	17109 Avon Belden Rd.	PO Box 100	Grafton	OH	44044
Dan	Miller	Lorain	Grafton Township Trustee	17109 Avon Belden Rd.	PO Box 100	Grafton	OH	44044
Carl	Wesemeyer	Lorain	Grafton Township Trustee	17109 Avon Belden Rd.	PO Box 100	Grafton	OH	44044
Ronald	Baumann	Lorain	Henrietta Township Trustee	10413 Vermilion Road		Oberlin	OH	44074
Howard	Born III	Lorain	Henrietta Township Trustee	10413 Vermilion Road		Oberlin	OH	44074
Joseph	Knoble	Lorain	Henrietta Township Trustee	10413 Vermilion Road		Oberlin	OH	44074
Gary	Burnett	Lorain	LaGrange Township Trustee	42251 Route 303		LaGrange	OH	44044
Douglas	Gardner	Lorain	LaGrange Township Trustee	16433 Indian Hollow Road		Grafton	OH	44044
Rita	Tompkins Canfield	Lorain	LaGrange Township Trustee	15815 Diagonal Road		LaGrange	OH	44044
Patti	Brubaker	Lorain	New Russia Township Trustee	45440 Butternut Ridge Road		Oberlin	OH	44074
Jack	Hoyt	Lorain	New Russia Township Trustee	45440 Butternut Ridge Road		Oberlin	OH	44074
John	Piwinski	Lorain	New Russia Township Trustee	45440 Butternut Ridge Road		Oberlin	OH	44074
Mark	Diedrick	Lorain	Pittsfield Township Trustee	16940 State Route 58		Oberlin	OH	44074
Mark	McConnell	Lorain	Pittsfield Township Trustee	16940 State Route 58		Oberlin	OH	44074

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Forrest	Mohrman	Lorain	Pittsfield Township Trustee	16940 State Route 58		Oberlin	OH	44074
Paul	Stammitti	Lorain	Sheriff	9896 Murray Ridge Rd.		Elyria	OH	44035
Terry	Boose	Lorain	State Representative	77 South High Street		Columbus	OH	43215
Dan	Ramos	Lorain	State Representative	77 South High Street		Columbus	OH	43215
Gayle	Manning	Lorain	State Senator	1 Capitol Square		Columbus	OH	43215
Jim	Jordan	Lorain	U.S. House of Representatives	1524 Longworth House Office Building		Washington	DC	20515
Barb	Bruno	Lucas	Council, Village of Waterville	25 North Second St.		Waterville	OH	43566
Micheline	Krise	Lucas	Council, Village of Waterville	25 North Second St.		Waterville	OH	43566
Charles	Larkins	Lucas	Council, Village of Waterville	25 North Second St.		Waterville	OH	43566
Tim	Pedro	Lucas	Council, Village of Waterville	25 North Second St.		Waterville	OH	43566
John	Rozic	Lucas	Council, Village of Waterville	25 North Second St.		Waterville	OH	43566
Jim	Valtin	Lucas	Council, Village of Waterville	25 North Second St.		Waterville	OH	43566
Keith	Earley	Lucas	Engineer	1049 S. McCord Road		Holland	OH	43528
Lori	Brodie	Lucas	Mayor, Village of Waterville	25 North Second St.		Waterville	OH	43566
Phil	Copeland	Lucas	Recorder	One Government Center	Suite 700	Toledo	OH	43604
John	Tharp	Lucas	Sheriff	1622 Spielbusch Ave.		Toledo	OH	43604
Wade	Kapszukiewicz	Lucas	Treasurer	One Government Center	Suite 500	Toledo	OH	43604
Les	Disher	Lucas	Waterville Township Trustee	621 Farnsworth Road		Waterville	OH	43566
Robert	Hertzfeld	Lucas	Waterville Township Trustee	621 Farnsworth Road		Waterville	OH	43566
A. Leslie	Disher	Lucas	Waterville Township Trustee	621 Farnsworth Road		Waterville	OH	43566
Lynda	Bowers	Medina	Lafayette Township Trustee	6776 Wedgewood Road		Medina	OH	44256
Michael	Costello	Medina	Lafayette Township Trustee	6776 Wedgewood Road		Medina	OH	44256

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First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Bryon	Macron	Medina	Lafayette Township Trustee	6776 Wedgewood Road		Medina	OH	44256
Dennis	Horvath	Medina	Litchfield Township Trustee	9256 Norwalk Road		Litchfield	OH	44253
Michael	Pope	Medina	Litchfield Township Trustee	9256 Norwalk Road		Litchfield	OH	44253
Nancy	Wargo	Medina	Litchfield Township Trustee	9256 Norwalk Road		Litchfield	OH	44253
Sally	Albrecht	Medina	Montville Township Trustee	3077 Blue Heron Trace		Medina	OH	44256
Ronald	Bischof	Medina	Montville Township Trustee	3227 Rustic Valley Dr.		Medina	OH	44256
Jeff	Brandon	Medina	Montville Township Trustee	5184 Glenmore Way		Medina	OH	44256
Robert	Engler	Medina	Wadsworth Township Trustee	263 Wall Road		Doylestown	OH	44230
James	Gardner	Medina	Wadsworth Township Trustee	8069 Hartman Road		Wadsworth	OH	44281
Kevin	Keiper	Medina	Wadsworth Township Trustee	9450 Mennonite Road		Wadsworth	OH	44281
Colene	Conley	Medina	York Township Trustee	6609 Norwalk Road		Mallet Creek	OH	44256
Richard	Monroe	Medina	York Township Trustee	6609 Norwalk Road		Mallet Creek	OH	44256
William	Pavlick	Medina	York Township Trustee	6609 Norwalk Road		Mallet Creek	OH	44256
John	Antesberger	Sandusky	Riley Township Trustee	1062 N. CR 220		Fremont	OH	43420
Gary	Overmyer	Sandusky	Riley Township Trustee	3420 CR 231		Fremont	OH	43420
David	Sachs	Sandusky	Riley Township Trustee	997 N. CR 198		Fremont	OH	43420
Paul	Lotycz	Sandusky	Sandusky Township Trustee	710 N. Stone St.		Fremont	OH	43420
Gilbert	Overmyer	Sandusky	Sandusky Township Trustee	1749 CR 142		Fremont	OH	43420
Michael	Willis	Sandusky	Sandusky Township Trustee	351 W. CR 73		Fremont	OH	43420
Kyle	Overmyer	Sandusky	Sheriff	2323 Countryside Dr.		Fremont	OH	43420
Glenn	Baker	Sandusky	Washington Township Trustee	211 Lynn Street		Lindsey	OH	43442
Harold	Overmyer	Sandusky	Washington Township Trustee	1612 W. CR 109		Fremont	OH	43420
Robert	Reed	Sandusky	Washington Township Trustee	2721 CR 92		Lindsey	OH	43442

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Kenneth	Green	Sandusky	Woodville Township Trustee	4680 CR 44		Woodville	OH	43469
William	Hammer	Sandusky	Woodville Township Trustee	505 Water Street		Woodville	OH	43469
Paul	Heineman	Sandusky	Woodville Township Trustee	731 Fort Findlay Rd.		Woodville	OH	43469
Brant	Luther	Stark	Administrator	110 Central Plaza S #240		Canton	OH	44702
Thomas M.	Bernabei	Stark	County Commissioner	2745 Dunkeith Dr., NW		Canton	OH	44708
Janet Weir	Creighton	Stark	County Commissioner	7711 Bucknell Cir., NW		North Canton	OH	44720
Richard	Regula	Stark	County Commissioner	8020 Erie Ave., SW		Navarre	OH	44662
Keith	Bennett	Stark	County Engineer	266 Creekside Circle, NE		North Canton	OH	44720
John	Arnold	Stark	Lake Township Trustee	2725 Aylesbury St., NW		North Canton	OH	44720
Ellis	Erb	Stark	Lake Township Trustee	1477 Lake O Pines St., NE		Hartville	OH	44632
Galen Lee	Stoll	Stark	Lake Township Trustee	2690 Rita Street, NE		Hartville	OH	44632
Kenneth	Eddleman	Stark	Marlboro Township Trustee	10351 Marlboro Ave., NE		Louisville	OH	44641
John	Hagan	Stark	Marlboro Township Trustee	11301 Marlboro Ave., NE		Alliance	OH	44601
Wayne	Schillig	Stark	Marlboro Township Trustee	10750 Marlboro Ave., NE		Alliance	OH	44601
Lou	Johnson	Stark	Nimishillen Township Trustee	9821 Louisville St., NE		Louisville	OH	44641
Mike	Lynch	Stark	Nimishillen Township Trustee	P.O. Box 181		Louisville	OH	44641
Lisa	Shafer	Stark	Nimishillen Township Trustee	6590 Winter Street, NE		Louisville	OH	44641
Christina	Hagan	Stark	State Representative	77 South High Street		Columbus	OH	43215
Scott	Oelslager	Stark	State Senator	1 Capitol Square		Columbus	OH	43215
Mort	Dehoff	Stark	Washington Township Trustee	5789 Beechwood Ave.		Alliance	OH	44601
Paul	Delpuppo	Stark	Washington Township Trustee	8701 Byrd Ave., NE		Alliance	OH	44601
Randy	Rodgers	Stark	Washington Township Trustee	15874 Bowman St., NE		Homeworth	OH	44634

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Christopher	Humphrey	Summit	City Of Green Council-At-Large	Green Administration Building	1755 Town Park Blvd. PO Box 278	Green	OH	44232
Gerard	Neugebauer	Summit	City Of Green Council-At-Large	Green Administration Building	1755 Town Park Blvd. PO Box 278	Green	OH	44232
Joel	Reed	Summit	City Of Green Council-At-Large	Green Administration Building	1755 Town Park Blvd. PO Box 278	Green	OH	44232
Harold	Gehm	Summit	City Of New Franklin Council-At-Large	New Franklin Administration Building	5611 Manchester Rd.	Akron	OH	44319
Judy	Jones	Summit	City Of New Franklin Council-At-Large	New Franklin Administration Building	5611 Manchester Rd.	Akron	OH	44319
Andrea	Norris	Summit	City Of New Franklin Council-At-Large	New Franklin Administration Building	5611 Manchester Rd.	Akron	OH	44319
Tim	Crawford	Summit	County Council	175 South Main Street		Akron	OH	44308
Paula	Prentice	Summit	County Council	175 South Main Street		Akron	OH	44308
Alan	Brubaker	Summit	County Engineer	538 E South Street		Akron	OH	44311
Russell	Pry	Summit	County Executive	175 S. Main Street	7th Floor	Akron	OH	44308
Dick	Norton	Summit	Mayor, City of Green	Central Administration Building	1755 Town Park Blvd. PO Box 278	Green	OH	44232
Al	Bollas	Summit	Mayor, City of New Franklin	New Franklin Administration Building	5611 Manchester Rd.	Akron	OH	44319
Tony	DeVitis	Summit	State Representative	77 South High Street		Columbus	OH	43215
Marilyn	Slaby	Summit	State Representative	77 South High Street		Columbus	OH	43215
Tom	Sawyer	Summit	State Senator	1 Capitol Square		Columbus	OH	43215
Sandra	Kurt	Summit	Council-At-Large	175 South Main Street	7th Floor	Akron	OH	44308
John	Donofrio	Summit	Council-At-Large	175 South Main Street	7th Floor	Akron	OH	44308
Ilene	Shapiro	Summit	Council-At-Large	175 South Main Street	7th Floor	Akron	OH	44308

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Tim	Ryan	Summit	U.S. House of Representatives	1421 Longworth House Office Building		Washington	DC	20515
Jim	Renacci	Summit	U.S. House of Representatives	130 Cannon House Office Building		Washington	DC	20515
Frank	LaRose	Summit	State Senator	1 Capitol Square		Columbus	OH	43215
Lenny	Broome	Wayne	Chippewa Township Trustee	12714 Mark Path		Doylestown	OH	44230
Roberta	Gleason	Wayne	Chippewa Township Trustee	14228 Galehouse Rd.		Doylestown	OH	44230
Robert	Macgregor	Wayne	Chippewa Township Trustee	11980 Whitman Rd.		Doylestown	OH	44230
Patrick	Herron	Wayne	County Administrator	428 West Liberty St.		Wooster	OH	44691
Jim	Carmichael	Wayne	County Commissioner	1429 Moore Rd.		Wooster	OH	44691
Ann	Obrecht	Wayne	County Commissioner	7849 Columbus Rd.		Shreve	OH	44676
Scott	Wiggam	Wayne	County Commissioner	316 E. Beverly Rd.		Wooster	OH	44691
Roger	Terrill	Wayne	County Engineer	3151 West Old Lincoln Way		Wooster	OH	44691
Terry	Lindeman	Wayne	Mayor, City of Doylestown	24 S. Portage St.		Doylestown	OH	44230
Ron	Amstutz	Wayne	State Representative	77 South High Street		Columbus	OH	43215
Michael	Sibbersen	Wood	Auditor	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Lisa	Heft	Wood	Clerk, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525
James	Carter	Wood	Commissioner	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Dori	Herringshaw	Wood	Commissioner	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Joel	Kuhlman	Wood	Commissioner	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Helen	Bonnough	Wood	Council, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525
Ashley	Pearl Brooks	Wood	Council, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525
Nancy	Perry	Wood	Council, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525
Julienne	Snyder	Wood	Council, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525

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Phillip	Tipton	Wood	Council, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525
Ray	Huber	Wood	Engineer	One Courthouse Square		Bowling Green	OH	43402
Paul	Gies	Wood	Mayor, Village of Haskins	100 N Church St.	PO Box 182	Haskins	OH	43525
Jim	Bostdorff	Wood	Middleton Township Trustee	P.O. Box 206		Haskins	OH	43525
Penny	Getz	Wood	Middleton Township Trustee	P.O. Box 206		Haskins	OH	43525
Fred	Vetter	Wood	Middleton Township Trustee	P.O. Box 206		Haskins	OH	43525
Julie	Baumgardner	Wood	Recorder	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Mark	Wasylyshyn	Wood	Sheriff	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Jill	Engle	Wood	Treasurer	One Courthouse Square	5th Floor	Bowling Green	OH	43402
Matt	Brinker	Wood	Troy Township Trustee	311 Krotzer Ave.	P.O. Box 128	Luckey	OH	43443
Stephen	Levorchick	Wood	Troy Township Trustee	311 Krotzer Ave.	P.O. Box 128	Luckey	OH	43443
Ken "Skip"	Recker	Wood	Troy Township Trustee	311 Krotzer Ave.	P.O. Box 128	Luckey	OH	43443
Isaac	Bailey	Wood	Webster Township Trustee	8138 Middleton Pike		Bowling Green	OH	43402
Mark	Bushman	Wood	Webster Township Trustee	8138 Middleton Pike		Bowling Green	OH	43402
Jim	Cajka	Wood	Webster Township Trustee	8138 Middleton Pike		Bowling Green	OH	43402
Tim	Brown	Wood	State Representative	77 South High Street		Columbus	OH	43215
Bob	Latta	Wood	U.S. House of Representatives	2448 Rayburn House Office Building		Washington	DC	20515
John	Kasich		Ohio Governor	77 South High Street		Columbus	OH	43215
Bill	Johnson		U.S. House of Representatives	317 Cannon House Office Building		Washington	DC	20515
Sherrod	Brown		U.S. Senate	713 Hart Senate Office Building		Washington	DC	20515
Rob	Portman		U.S. Senate	448 Russell Senate Office Building		Washington	DC	20515
Bob	Hastedt	Henry	Commissioner	10906 County Rd. H		Napoleon	OH	43545

First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Glenn	Miller	Henry	Commissioner	513 W. Washington St.		Napoleon	OH	43545
Thomas	Von Deylen	Henry	Commissioner	T752 SR 108		Napoleon	OH	43545
Kevin	Garringer	Henry	Auditor	632 Briarhearth		Napoleon	OH	43545
Timothy	Schumm	Henry	Engineer	12421 County Rd. P3		Napoleon	OH	43545
Mike	Bodenbender	Henry	Sheriff	Q214 County Rd. 8		Napoleon	OH	43545
John	Patrick	Henry	Washington Township Trustee	4321 County Rd. V		Liberty Center	OH	43532
Terry	Miller	Henry	Washington Township Trustee	6665 County Rd. T		Liberty Center	OH	43532
Julian	Westhoven	Henry	Washington Township Trustee	S051 Sounty Rd. 3B		Liberty Center	OH	43532
Joe	Hintz	Huron	Commissioner	10 E. Quail Hollow Dr.		Norwalk	OH	44857
Gary	Bouer	Huron	Commissioner	677 W. South Norwalk Rd.		Norwalk	OH	44857
Tom	Dunlap	Huron	Commissioner	11 Rosedale Dr.		Norwalk	OH	44857
Roland	Tkach	Huron	Auditor	4655 SR 60 N.		Wakeman	OH	44889
Joseph	Kovach	Huron	Engineer	158 Fairway Circle		Norwalk	OH	44857
Dane	Howard	Huron	Sheriff	123 First St.		New London	OH	44851
Byron	Dalton, III	Huron	Wakeman Township Trustee	3333 SR 60 N		Wakeman	OH	44889
Carroll	Butler	Huron	Wakeman Township Trustee	24 Townsend St		Wakeman	OH	44889
Kenneth	Tkach	Huron	Wakeman Township Trustee	16 River St.		Wakeman	OH	44889



**Public Officials – Compressor Stations**

First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Michael	Halleck	Columbiana	County Commissioner	2096 Country Side Dr.		Salem	OH	44460
James	Hoppel	Columbiana	County Commissioner	50499 Calcutta Smith Ferry Rd.		E Liverpool	OH	43920
Timothy	Weigle	Columbiana	County Commissioner	49498 England Dr.		E Palestine	OH	44413
Bert	Dawson	Columbiana	County Engineer	50487 Fisher Ave.		E Liverpool	OH	43920
Robert	Manfull	Columbiana	Trustee, Hanover Township	29209 Manfull Lake Rd.		Kensington	OH	44427
Mancil	Ridgeway	Columbiana	Trustee, Hanover Township	10554 Mechanicstown Rd.		Hanoverton	OH	44423
John	Zehentbauer	Columbiana	Trustee, Hanover Township	10786 Lindesmith Rd.	P.O. Box 304	Hanoverton	OH	44423
Nick	Barborak	Columbiana	State Representative	77 South High Street		Columbus	OH	43215
Joe	Schiavoni	Columbiana	Senator	1 Capitol Square		Columbus	OH	43215
Laura	Lloyd-Jenkins	Lucas	Administrator	One Government Center #870		Toledo	OH	43604
Anita	Lopez	Lucas	Auditor	One Government Center	Suite 600	Toledo	OH	43604
Carol	Conrada	Lucas	Commissioner	One Government Center	Suite 800	Toledo	OH	43604
Pete	Gerken	Lucas	Commissioner	One Government Center	Suite 800	Toledo	OH	43604
Tina	Skeldon Wozniak	Lucas	Commissioner	One Government Center	Suite 800	Toledo	OH	43604
Lee	Bialecki	Lucas	Providence Township	13257 Perry Road		Grand Rapids	OH	43522
Steve	Kendall	Lucas	Providence Township	13257 Perry Road		Grand Rapids	OH	43522
Cody	Mastin	Lucas	Providence Township	13257 Perry Road		Grand Rapids	OH	43522
Barbara	Sears	Lucas	State Representative	77 South High Street		Columbus	OH	43215
Adam	Friedrick	Medina	Commissioner	144 North Broadway St.	Suite 201	Medina	OH	44256

NEXUS Project Public and Agency Participation Plan  
June 2015

First Name	Last Name	County	Position	Address 1	Address 2	City	State	Zip Code
Patricia	Geissman	Medina	Commissioner	144 North Broadway St.	Suite 201	Medina	OH	44256
Stephen	Hambley	Medina	Commissioner	144 North Broadway St.	Suite 201	Medina	OH	44256
Mike	Salay	Medina	Engineer	791 West Smith Road		Medina	OH	44256
Steve	Fulton	Medina	Trustee, Guilford Township	8701 Hubbard Valley Rd.		Seville	OH	44273
Robert	Rohrer	Medina	Trustee, Guilford Township	8612 Yoder Rd.		Wadsworth	OH	44281
Glenn	Sheller	Medina	Trustee, Guilford Township	9027 Skypark Drive		Wadsworth	OH	44281
Steve	Hambley	Medina	State Representative	77 South High Street		Columbus	OH	43215
Dave	Hall	Medina	State Representative	77 South High Street		Columbus	OH	43215
Larry	Obhof	Medina	Senator	1 Capitol Square		Columbus	OH	43215
Bob	Gibbs	Medina	Congressman, U.S. House of Representatives	329 Cannon House Office Building		Washington	DC	20515
Bob	Gibbs		Congressman, Canton, OH Office	110 Central Plaza South		Canton	OH	44702
Warren	Brown	Sandusky	Administrator	622 Croghan Street		Fremont	OH	43420
Jerri	Miller	Sandusky	Auditor	100 N. Park Ave.	Suite 228	Fremont	OH	43420
Dan	Polter	Sandusky	Commissioner	622 Croghan St.		Fremont	OH	43420
Charles	Schwochow	Sandusky	Commissioner	622 Croghan St.		Fremont	OH	43420
Terry	Thatcher	Sandusky	Commissioner	622 Croghan St.		Fremont	OH	43420
James	Moyer	Sandusky	Engineer	2500 West State St.		Fremont	OH	43420
Colleen	Carmack	Sandusky	Recorder	100 N. Park Ave.	Suite 217	Fremont	OH	43420
Bill	Reineke	Sandusky	State Representative	77 South High Street		Columbus	OH	43215
Jean	Leber	Sandusky	Trustee, Townsend Township	1736 N. County Rd. 294		Clyde	OH	43410
Bruce	Meggitt	Sandusky	Trustee, Townsend Township	1736 N. County Rd. 294		Clyde	OH	43410
Paul	Warner	Sandusky	Trustee, Townsend Township	1736 N. County Rd. 294		Clyde	OH	43410
Irma	Celestino	Sandusky	Treasurer	100 N. Park Ave.	Suite 227	Fremont	OH	43420

<b>First Name</b>	<b>Last Name</b>	<b>County</b>	<b>Position</b>	<b>Address 1</b>	<b>Address 2</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
John	Boehner		Speaker of House, U.S. House of Representatives	1011 Longworth House Office Building		Washington	DC	20515
John	Boehner		Butler County Office	7969 Cincinnati- Dayton Road	Suite B	West Chester	OH	45069

**Community and Public Interest Groups and Non-governmental Organizations**

<b>Organization</b>	<b>Contact First Name</b>	<b>Contact Last Name</b>	<b>Address 1</b>	<b>Address 2</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
Appalachian Partnership for Economic Growth	Dorinda	Byers	35 Public Square	PO Box 456	Nelsonville	OH	45764
Black Swamp Conservancy	Rob	Krain	132 W 2nd St.		Perrysburg	OH	43551
Bowling Green Chamber of Commerce	Earlene	Kilpatrick	PO Box 31		Bowling Green	OH	43402
Canton Regional Chamber of Commerce	Dennis	Saunier	222 Market Ave N		Canton	OH	44702
Clear Water, Inc	Cindy	Drill					
Cleveland Building and Construction Trades Council	Terry	Joyce	3250 Euclid Avenue	Suite 280	Cleveland	OH	44115
Conservation Action Project	Bill	Rohrs			Napoleon	OH	43545
Development Finance Authority of Summit County – Port Authority	Chris	Burnham	47 N. Main Street	Suite 407	Akron	OH	44308
Eastern Gateway Community College	Mark	Ciccarelli	4000 Sunset Blvd		Steubenville	OH	43952
Erie County Economic Development Corp	Peter	Zaehringer	247 Columbus Ave.		Sandusky	OH	44870
Firelands Land Conservancy Project	Kate	Pilacky					
Fulton County Economic Development	Matt	Gilroy	123 Courthouse Plaza	Suite 2	Wauseon	OH	43567
Great Lakes Innovation and Development Institute	Tracy	Green	151 Innovation Drive	Suite 210	Elyria	OH	44035
Greater Akron Chamber of Commerce	Daniel	Colantone	1 Cascade Plz, # 17		Akron	OH	44308
Heart of the Lakes Center for Land Conservation Policy	Julie	Stoneman	P.O. Box 1128		Bay City	MI	48706
International Union of Operating Engineers Local 18			3515 Prospect Ave.		Cleveland	OH	44115
JobsOhio	David	Mustine	41 S High Street, #1500		Columbus	OH	43215
Legacy Land Conservancy	Susan	Lackey	1100 N. Main Street	Suite 203	Ann Arbor	MI	48104
Lorain County Community College	Lisa	Delp	1005 Abbe Rd. N.		Elyria	OH	44035
Lucas County Economic Development Corp.	Ford	Weber	2 Maritime Plaza		Toledo	OH	43604

NEXUS Project Public and Agency Participation Plan  
June 2015

Organization	Contact First Name	Contact Last Name	Address 1	Address 2	City	State	Zip
Lucas County Soil and Water Conservation District			130-A West Dudley		Maumee	OH	43537
MAGNET	Linda	Barita	1768 East 25th Street		Cleveland	OH	44114
Maumee River Advisory Council	Marcus	Ricci	1435 West Twp Rd. 38		Tiffin	OH	44883
Maumee River Basin Partnership of Local Governments	Robert	Vargo	115 West Washington Street		Indianapolis	IN	46204
Maumee Valley Heritage Corridor	Lori	Gates	5100 W Central Ave		Toledo	OH	43615
Medina County Economic Development Corp	Bethany	Dentler	144 N. Broadway St.		Medina	OH	44256
Northeast Ohio Trade and Economic Development Consortium	Ron	DeBarr	PO Box 5190		Kent	OH	44242
Northwest State Community College	Thomas	Stucky	22600 Ohio 34		Archbold	OH	43502
Ohio AFL-CIO	Tim	Burga	395 East Broad Street		Columbus	OH	43215
Ohio Association of Community Colleges	Jack	Hershey	175 S. 3rd St., #560		Columbus	OH	43215
Ohio Chamber of Commerce	Beau	Euton	230 E Town St.		Columbus	OH	43215
Ohio Farm Bureau	Dale	Arnold	280 North High St.	6th Floor	Columbus	OH	43215
Ohio Township Association	Matt	DeTemple	6500 Taylor Road		Blacklick	OH	43004
Owens Community College	Brian	Paskvan	3200 Bright Rd.		Findlay	OH	45840
Pro Football Hall Fame	Pete	Frierle	2121 George Halas Dr. NW		Canton	OH	44708
Regional Growth Partnership	Dean	Monske	300 Madison Ave.		Toledo	OH	43604
Sandusky County Chamber of Commerce	Angie	Morelock	101 S Front St.		Fremont	OH	43420
Sandusky County Economic Development Corp.	Kay	Reiter	2511 Countryside Drive	Suite C	Fremont	OH	43420
Sandusky River Advisory Council	Robert	Vargo	1435 West Twp Rd. 38		Tiffin	OH	44883
Sandusky River Watershed Coalition	Cindy	Brookes	219 South Front Street	PO Box 590	Fremont	OH	43420
Sandusky State Scenic River	Robert	Vargo			Tiffin	OH	44883
Southeast Michigan Land Conservancy	Jill	Lewis	8383 Vreeland Rd.		Superior Twp.	MI	48198
Stark Development Board	Steve	Paquette	116 Cleveland Ave. NW		Canton	OH	44702
Stark State Community College	Irene	Motts	6200 Frank Ave. NW		North Canton	OH	44720

NEXUS Project Public and Agency Participation Plan  
June 2015

Organization	Contact First Name	Contact Last Name	Address 1	Address 2	City	State	Zip
Team Lorain County	Steve	Morey	226 Middle Ave.		Elyria	OH	44035
TeamNEO	Paul	Boulier	737 Bolivar Rd.		Cleveland	OH	44115
Terra Community College	Jerome	Webster	2830 Napoleon Rd.		Fremont	OH	43420
Toledo Regional Chamber of Commerce	Wendy	Gramza	300 Madison Ave.		Toledo	OH	43604
Wayne County Economic Development Council	Rodney	Crider	542 E. Liberty St.		Wooster	OH	44691
Western Lake Erie Water Keeper	Sandy	Bihn	3900 N. Summit Bldg. 2		Toledo	OH	43611
Western Reserve Land Conservancy	Kendrick	Chittock	3850 Chagrin River Rd.		Moreland Hills	OH	44022
Wood County Economic Development Commission	Wade	Gottschalk	639 S Dunbridge Rd.		Bowling Green	OH	43402
Work in Northeast Ohio Council	Al	Catani	445 W Liberty St.	Suite 225	Medina	OH	44256
Monroe County Community College	Parmeshwar	Coomar	1555 S. Raisonville Rd		Monroe	MI	48161
Ohio Manufactures Association	Ryan	Augsburger	33 N High St	Suite 600	Columbus	OH	43215
Ohio Gas Association	Jimmy	Stewart	6100 Emerald Pkwy		Dublin	OH	43016
Ohio Chemistry Council	Jen	Kline	88 E. Broad Street	Suite 1490	Columbus	OH	43215
Ohio State Grange	Lisa	Tharpe	16303 Township Rd 608		Fredericktown	OH	43019
Ohio Farm Bureau	Dale	Arnold	280 North High St	6 <sup>th</sup> Floor	Columbus	OH	43215

**Community and Public Interest Groups and Non-  
governmental Organizations**

NEXUS Gas Transmission, LLC has identified numerous non-governmental organizations along the proposed pipeline route. We will be engaged with these groups as appropriate and will continue to supplement the list as contact is made. These groups may be associated with businesses, environmental resources or community groups and NEXUS engagement efforts will be coordinated with the Project subject matter experts.

These groups include:

- State and local Chambers of Commerce
- Community members
- Labor associations
- Economic Development Authorities
- Educational Institutions
- Natures preservation organizations
- Local/regional environmental organizations
- River groups and partnerships

## Appendix F: Examples of Home Pages for Websites

[www.nexusgastransmission.com](http://www.nexusgastransmission.com)

**NEXUS Gas Transmission**

**Project Overview**

Additional pipeline transportation infrastructure is needed in the upper U.S. Midwest and eastern Canadian regions to support growing demand for clean-burning natural gas. Another key driver of the project is to help offset the impact of the decline in traditional western Canadian supplies available to serve these markets. As such, the lead developers for Nexus Gas Transmission (NEXUS) are evaluating market interest in providing increased energy diversity, security and reliability to the Ohio, Michigan, Chicago and Ontario markets. The natural gas pipeline study corridor under review originates in Ohio, extends to Michigan and ends in Ontario.

[www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/NEXUS-Gas-Transmission](http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/NEXUS-Gas-Transmission)

**New Projects and Our Process**

**NEXUS Gas Transmission**

Evaluation
Signed Agreements
Regulatory Review
Regulatory Approval
Under Construction
In-Service

- Location: Ohio, Michigan, Chicago, Ontario
- Length: ~250 miles
- Design Capacity: Scalable up to 2 Bcf/d
- Partner Companies: DTE Energy and Spectra Energy are the lead developers for the project

Additional pipeline transportation infrastructure is needed in the upper U.S. Midwest and eastern Canadian regions to support growing demand for clean-burning natural gas and to help offset the decline in traditional western Canadian supplies available to serve these markets. As such, the proposed NEXUS Gas Transmission (NEXUS) system will move growing, critically needed supplies of Appalachian shale gas to high-demand markets in the U.S. Midwest, including Ohio, Michigan, Chicago and Ontario, Canada. The new pipeline will serve local distribution companies, power generators and industrial users in these markets.

**Related Links**

- Pipeline Safety & Public Awareness
- Interstate Natural Gas Pipeline on My Land Brochure
- Pipeline Design & Construction
- Federal Energy Regulatory Commission (U.S. Regulatory Body)
- New England Cost Savings Infrastructure Report

**Fact Sheets**



## **Appendix G: Sample Letters**

200 Corporate Center Drive, Suite 350  
Coraopolis, PA 15108



August 11, 2014

«Salutation» «First\_Name» «Last\_Name»  
«CorporationTrust»  
«Address\_»  
«City», «State» «Zip»

Re: Proposed NEXUS Gas Transmission (NEXUS) Project  
Property located in: «Property County» County, «Property State»

Dear Landowner:

With the growing demand for reliable energy sources with fewer emissions, DTE Energy Co. (“DTE Energy”) and Spectra Energy Corp (“Spectra Energy”), the lead developers of the NEXUS Gas Transmission Project (“NEXUS”), recently began evaluating an interstate natural gas pipeline expansion project that will increase energy supply diversity, security and reliability in the U.S. Midwest and Ontario, Canada. DTE Energy and Spectra Energy are two of the leading energy service and infrastructure companies in North America with more than a century of combined experience in developing infrastructure projects to meet the energy needs of North America in a safe, reliable and responsible manner.

NEXUS’s efforts to develop a new natural gas transportation system will benefit the U.S. Midwest Region and the Dawn natural gas trading hub in Southwestern Ontario, Canada. Ultimately, this Project will help to meet the growing environmental need for cleaner and more affordable fuels for regional power generation and for industrial and commercial customers, as well as home heating and domestic use as early as the fourth quarter of 2017.

The purpose of this letter is to introduce the proposed NEXUS Project to you. We have enclosed a Frequently Asked Questions document that provides more detail about this proposal.

To help us refine our proposed pipeline route, Project representatives have begun collecting and evaluating existing information necessary to determine the pipeline path with the least overall impact while balancing constructability concerns. The proposed geographic area under evaluation includes a newly-constructed pipeline that will extend from eastern Ohio to an interconnection with the existing natural gas pipeline grid in southeastern Michigan. The new construction in Michigan will be limited to the segment between the Ohio/Michigan border and the existing DTE Gas system near Willow Run, Michigan. From Willow Run, the NEXUS Project will utilize both existing and expansion capacity on the DTE Gas transportation system and the Vector Pipeline System to directly access Michigan markets, Chicago and the Dawn, Ontario Hub. A map is included that provides you with the general study corridor under consideration.

Page 2

You are receiving this letter because your property may be within or very near the routing study corridor being considered for the Project and for that reason we will soon send an additional letter to you related to our survey needs and practices. These civil, environmental and cultural resources survey activities are required to thoroughly evaluate a pipeline route in balancing environmental, engineering and landowner concerns. The surveys will be coordinated with the appropriate municipal officials and performed in a minimal amount of time with the goal of little to no inconvenience to landowners.

We have begun meeting with your community leaders and elected officials about the NEXUS Project while continuing to evaluate and refine the proposed route. In addition, we soon will be meeting with landowners, agencies and other stakeholders to discuss the Project and to seek input on the proposed routing for this expansion.

Please be assured that we are early in the proposed process and everyone will have multiple opportunities to interact and engage with the project team, as well as participate in the appropriate regulatory processes. Different companies take different approaches with engagement and communications with the affected public. DTE Energy and Spectra Energy take a collaborative approach. We communicate early and often about our project activities to build positive relationships and long-lasting partnerships with all stakeholders.

If you have questions or would like additional information concerning our proposed NEXUS Project, please call our toll free number 1-844-589-3655. We would be pleased to address any or all aspects of the project with you. For more information, please visit our website <http://nexusgastransmission.com/>.

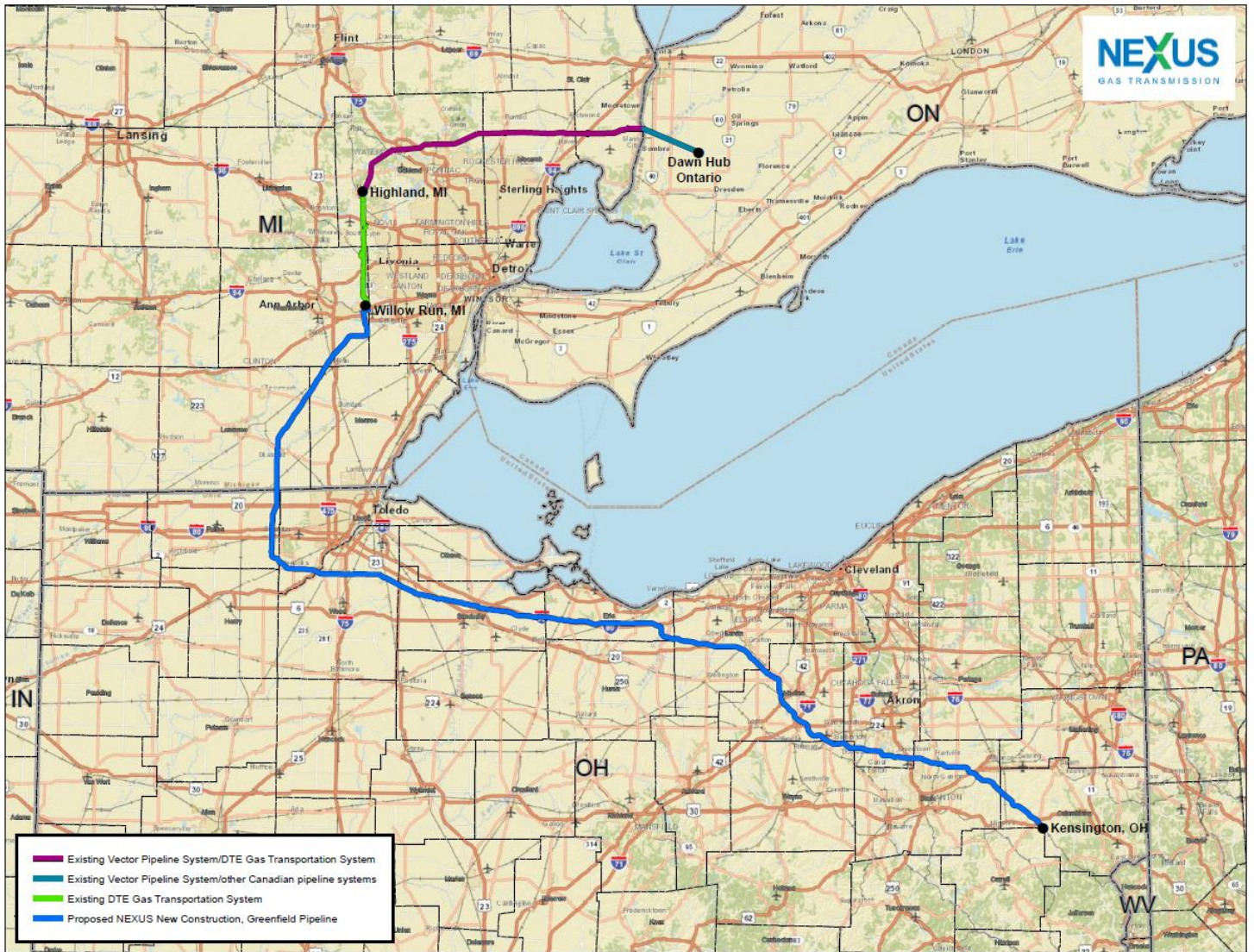
Sincerely,



Peter Cassan  
Right-of-Way Project Manager  
Spectra Energy Corp

Enclosure:  
NEXUS Project proposed study corridor map  
NEXUS Project frequently asked questions

NEXUS Project Public and Agency Participation Plan  
January 2015



## NEXUS Gas Transmission: Frequently Asked Questions

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**1. What is the proposed NEXUS Gas Transmission project?**

The NEXUS Gas Transmission Project (NEXUS) is a natural gas pipeline system proposed to provide additional pipeline transportation infrastructure in the upper U.S. Midwest and eastern Canadian regions to support growing demand for clean-burning natural gas.

The new pipeline will be capable of transporting at least two billion cubic feet per day (Bcf/d) of new, critically-needed supplies of natural gas to serve local distribution companies, industrial end users and natural gas-fired power generators in the Ohio, Michigan, Chicago and Dawn Ontario markets.

**2. Why is this project necessary?**

Natural gas is an integral part of North America's energy mix, and the NEXUS project will serve increasing demand across multiple customer segments – largely being driven by its affordable cost, its ability to complement renewables, its environmental value as a low-carbon fossil fuel and its significant availability into the foreseeable future.

**3. What project scope are you proposing?**

The transportation path will utilize existing pipeline capacity and infrastructure, as well as a newly-constructed pipeline. The project likely will involve 36-inch to 42-inch diameter pipe, which would extend from an originating point in eastern Ohio to interconnects with the existing pipeline grid in southeastern Michigan. As proposed, the path will utilize both existing and expansion capacity on the DTE Gas transportation system and the Vector Pipeline (Vector) System to access Chicago and the Dawn Hub.

The initial project will include interconnects with Texas Eastern Transmission, LP, and Tennessee Gas Pipeline Company, L.L.C. in the Appalachian Basin, with DTE Gas and Consumers Energy in Michigan, and with the Enbridge Tecumseh storage facility and the Union Gas Limited Dawn Hub in Ontario. Other facilities associated with the project may include compression located along the greenfield portion of the pipeline. The location and size of these other facilities has not yet been determined and could change based on the final project scope.

**4. Where will the majority of new pipeline construction occur?**

The majority of new pipeline build will occur in the State of Ohio as the system extends from the Utica production region to interconnections in Michigan.

**5. What's the estimated cost of the project?**

The project is in the early development stage, but preliminary estimates are approximately \$1.5 billion; however, this could change, depending on final market commitments and project scope.

**6. What is the expected in-service date of the project?**

The project's target in-service date is as early as the fourth quarter of 2017, subject to market demand and receipt of the necessary regulatory approvals.

**7. What is the "study corridor" that has been referred to in project-related material?**

Generally, study corridors are established along the proposed primary and alternate routes to determine possible locations for the pipeline facilities and potential workspace areas. The study corridors are typically 600 feet wide. However, once our field evaluations are complete, the pipeline corridor will be reduced to a much narrower width that would be necessary to construct the pipeline. Typically, this is approximately 100 feet with the permanent rights-of-way typically being 50 feet wide.

**8. Will the route for the new pipeline have any impacts on Lake Erie?**

The new pipeline route will not cross or affect Lake Erie.

**9. Will there be long-term benefits to stakeholders once the project is in service?**

Yes. The project will provide critical access to new emerging supplies from the Utica shale gas producing region and provide local communities with affordable, clean-burning and domestically-abundant natural gas to help meet the growing environmental need for cleaner power generation.

The increased investment in energy infrastructure will deliver additional local and regional benefits in Ohio, Michigan and Ontario by creating significant jobs during the construction phase and then increased tax revenues post construction.

**10. What sort of local or regional benefits can we expect to see from a project of this size?**

In Ohio and Michigan, the project will create significant jobs during construction and add capital investment and tax base to both states. Long term, new natural gas infrastructure will strengthen both Ohio and Michigan as Midwest Hubs and spur additional activity and asset development such as pipelines and storage.

In all areas, the proposed pipeline project will provide consumers and businesses with critical access to an affordable, new natural gas supply source that will invigorate economies, spur growth and ensure regional economic competitiveness.

**11. What impact will the project have on landowners?**

The project team will begin communicating with stakeholders early on in the development process and will maintain open lines of communication throughout the project's development. Landowners and other stakeholders will have multiple opportunities to provide input during the permitting process.

The new pipeline will follow existing utility corridors for the majority of its route, which will greatly minimize impacts to the environment and surrounding areas

**12. How will you communicate with local communities, landowners and other affected parties?**

The experienced project development team will engage with stakeholders through informational meetings, open houses, mailings and cooperative outreach efforts with local communities. These activities will be an integral part of the project and will occur through all phases of permitting, construction and in-service operations.

**13. How are the final facilities and locations determined?**

The Federal Energy Regulatory Commission (FERC) exclusively authorizes the construction and operation of new facilities. FERC is also the lead federal agency responsible for conducting environmental reviews of interstate pipeline projects in compliance with the National Environmental Policy Act.

FERC will review the proposed routes and alternatives to determine which will have the least environmental and stakeholder impact while still meeting the intent of the project and needs of the market. In its review process, FERC will address all concerns raised by stakeholders throughout its proceeding.

**14. Can we get a map of the pipeline?**

The preliminary study corridor and potential pipeline route will be available during the public outreach phase of the project, well before any final route decisions are made by FERC. During public outreach and open houses NEXUS will seek feedback on the proposed route from

landowners and make adjustments to the route when possible.

**15. How will you ensure the environment will not be harmed?**

The NEXUS project is committed to protecting the environment. Wherever possible the new pipeline will follow existing rights-of-way to substantially limit environmental impacts and effects to landowners. Another important feature of this pipeline system will also be its ability to utilize both existing and expansion capacity on the DTE Gas transportation system and the Vector Pipeline System to access Michigan, Chicago and the Dawn Hub in Ontario, significantly reducing overall impacts for construction and operation.

These development efforts are closely monitored by federal and state environmental agencies, requiring a number of permits. We closely adhere to all applicable environmental standards to ensure we minimize our footprint.

Environmental aspects of the construction project are regulated by FERC, which will review all plans and conduct its own environmental study of the project. Because the pipeline is an interstate line, its design and operations will be regulated by the U.S. Department of Transportation's (DOT) Office of Pipeline Safety. DOT's technical specifications and requirements that apply to construction, installation and operation of pipelines will be met or exceeded.

**16. What about safety issues and measures?**

Safety is the number one priority for both DTE Energy and Spectra Energy. The project partners are dedicated to the safe, reliable operation of facilities and to the protection of employees, the public and the environment. Natural gas pipelines monitor and control safety in many ways and use many different tools. Collectively, these tools make natural gas one of the safest forms of energy transportation. Our safety programs are designed to prevent pipeline failures, detect anomalies and perform repairs, often exceeding regulatory requirements. The new pipeline will operate in strict accordance with all federal, state and provincial safety requirements.

**For Further Information**

Please visit <http://nexusgastransmission.com/>.

200 Corporate Center Drive, Suite 350  
Coraopolis, PA 15108



August 16, 2014

«Salutation» «First\_Name» «Last\_Name»  
«CorporationTrust»  
«Address\_Line\_1»  
«Mailing\_City», «Mailing\_State» «Mailing\_Zip»

Re: Proposed NEXUS Gas Transmission (NEXUS) Project  
Tax Parcel #(s): «Tax\_ID»  
Property located in: «Property\_County», County «Property\_State»

Dear Landowner:

Recently you were mailed a letter announcing that DTE Energy Co. (“DTE Energy”) and Spectra Energy Corp (“Spectra Energy”), the lead developers of the NEXUS Gas Transmission Project (“NEXUS”), are evaluating a proposed natural gas pipeline expansion project in your area. DTE Energy and Spectra Energy are two of the leading energy service and infrastructure companies in North America with more than a century of combined experience in developing infrastructure projects to meet the energy needs of North America in a safe, reliable and responsible manner.

To help us analyze the proposed NEXUS study corridor, our representatives are in the early stages of collecting and evaluating information necessary to determine the pipeline path with the least overall landowner, community and environmental impact, while balancing constructability concerns. You are receiving this follow-up letter because your property is within the initial study corridor being considered. We are requesting your authorization to access your property for the purpose of performing the necessary survey activities in connection with the NEXUS Project.

Our earlier letter shared news of our initial Project outreach efforts with landowners, community leaders and elected officials. This is all part of our coordinated plan to inform stakeholders about various aspects of the proposed Project, such as surveys. These civil, environmental and cultural resource survey activities are required to thoroughly evaluate a pipeline route. The surveys will be performed in a minimal amount of time with the goal of little to no inconvenience to you and other landowners.

The survey activities planned along a portion of your property within the study area, and any minimal impacts that may result, are more fully described in the enclosure entitled “Description of Survey Activities.” While NEXUS certainly does not anticipate any damages to result from these surveys, please be assured that you will be compensated if any damages to your property or crops occur as a direct result of these activities. Please also note that granting us authorization to access your property for the purpose of conducting these surveys does *not* grant any other rights to NEXUS. Your consent to survey and your cooperation with NEXUS’s Project representatives would be sincerely appreciated.

Survey work is scheduled to begin in September 2014. In those areas where NEXUS is proposing to construct the new pipeline system, it will be necessary to determine a location for the proposed line, availability of temporary construction work areas and potential construction access roads.

Page 2

Your NEXUS representative will soon reach out to you to begin the dialogue that leads to a better understanding of your property and minimizing any impacts to your land. Our goal is for you to be as informed as possible throughout the process.

A survey permission form is enclosed for your consideration, along with a self-addressed stamped envelope. We ask that you sign this survey permit and return it to us in the enclosed envelope.

NEXUS's efforts to develop a new natural gas transportation system will benefit the U.S. Midwest Region and the Dawn natural gas trading hub in Southwestern Ontario, Canada. Ultimately, this Project will help to meet the growing environmental need for cleaner and more affordable fuels for regional power generation and for industrial and commercial customers, as well as home heating and domestic use as early as the fourth quarter of 2017.

Due to the nature of siting interstate pipelines, other pipeline companies may be evaluating proposed projects and their representatives may contact you or other landowners in your area. This is because other pipeline companies may be evaluating routing using similar criteria to NEXUS's. We understand it may be confusing if other pipeline companies contact you regarding potentially competing projects. We will certainly keep you informed of the progress of the NEXUS Project. Please don't hesitate to contact us at the number below if you have any questions.

Again, we are early in the proposed Project process and everyone will have multiple opportunities to interact and engage with the Project team, as well as participate in the appropriate regulatory processes. Different companies take different approaches to engagement and communications with the public. DTE Energy and Spectra Energy take a collaborative approach. We communicate early and often about our project activities to build positive relationships and long-lasting partnerships with all stakeholders.

If you have questions or would like additional information concerning our proposed NEXUS Project, please call our toll free number 1-844-589-3655. We would be happy to address any or all aspects of the Project with you. For more information, please visit our website <http://nexusgastransmission.com/>.

Sincerely,



Peter Cassan  
Right-of-Way Project Manager  
NEXUS Gas Transmission

Enclosure:

Survey Permission form  
Description of Survey Activities  
Self-addressed stamped envelope

Tract No(s): «Tract\_Number»



200 Corporate Center Drive, Suite 350  
Coraopolis, PA 15108



«First\_Name» «Last\_Name»  
«CorporationTrust»  
Tax Parcel ID #(s): «Tax\_ID»

**SURVEY AUTHORIZATION**

I/we, hereby provide to NEXUS Gas Transmission, its affiliates, agents, employees and contractors, the limited permission to enter upon my/our property only for the purposes of conducting civil, environmental and cultural resource surveys, *expressly subject to the condition that I am/we are paid for any and all damages to property or crops that may be directly caused by such activities.* Your answers to the following questions will be most helpful in accurately completing our survey activities.

Is there water well located on this property?      \_\_\_\_\_ Yes      \_\_\_\_\_ No  
Is there a septic system located on this property?      \_\_\_\_\_ Yes      \_\_\_\_\_ No

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_

Re: Tract No(s): «Tract\_Number»

Dated: \_\_\_\_\_

Telephone: \_\_\_\_\_ (home)

\_\_\_\_\_ (work)

\_\_\_\_\_ (cell)

## Description of Survey Activities

Depending on the size of an individual parcel, all survey activities described below should only take a minimal amount of time and should not result in any inconvenience to the property owner. All survey work will be performed during reasonable daylight hours only. All work will be performed by authorized professional surveyors and their crews. The surveys that NEXUS Gas Transmission ("NEXUS") will request for each property are:

(a) **Civil Survey**. This activity involves approximately four to five representatives, intermittently placing wooden stakes along a portion of each property to delineate the area described as the "study corridor." Depending upon the length of the proposed study corridor on the property to be surveyed, this activity should take no longer than two days for each property that will be surveyed.

(b) **Environmental Survey**. This activity involves approximately two to three representatives walking within the study corridor, which will be clearly staked, to identify and delineate any vegetative and geological indicators of wetland areas that may be present on the property. The wetlands boundaries will be marked with small colored flags. NEXUS representatives will also look for the presence of any threatened or endangered species, if a suspected habitat is within the staked area. Depending on the length of the proposed route of the pipeline on the property being surveyed, this activity should take no longer than three days for each property that will be surveyed.

(c) **Cultural Resources Survey**. This activity involves two to four representatives walking within the staked study corridor to identify any indicators of potential archaeological resources. If such a site is suspected, then the Archeologists would return to that location with spade shovels and perform a limited excavation of the test hole that would measure approximately 2x2 feet square and approximately 2-3 feet deep. Any area that is excavated for this type of survey will be restored by NEXUS to a condition consistent with its condition prior to the excavation. Depending on the length of the proposed route of the pipeline on the property being surveyed, the archaeological walkover will take less than one day. If a limited archaeological excavation is necessary, it should take no longer than two days, weather permitting.

During any survey work, no trees over 2 inches in diameter or timber will be cut down or removed from any property. Small brush, however, may be cut in order for the civil surveyors to obtain a line-of-sight. If any such brush is cut in residential areas, it will be removed from the property by NEXUS representatives.



6 Ashley Drive  
1st Floor  
Scarborough, ME 04074  
207.879.1930 PHONE  
207.879.9293 FAX  
www.trcsolutions.com

September 18, 2014

Angela Boyer  
U.S. Fish and Wildlife Service  
Ohio Ecological Services Field Office  
4625 Morse Rd, Suite 104  
Columbus, OH 43230

**Subject: NEXUS Gas Transmission, LLC  
NEXUS Gas Transmission Project**

NEXUS Gas Transmission, LLC, a joint venture between Spectra Energy and DTE Energy Co., is proposing to construct approximately 245-miles of 42-inch diameter natural gas pipeline from Kensington, Ohio to Willow Run, Michigan. The NEXUS Gas Transmission Project (“NEXUS Project” or the “Project”) traverses approximately 199-miles through eleven (11) counties in Ohio, including Columbiana, Stark, Summit, Wayne, Medina, Lorain, Erie, Sandusky, Wood, Lucas, and Fulton. NEXUS is investigating a study corridor as generally depicted on attached Figure 1.

Initial review of the potential pipeline corridor indicated that rare, threatened and/or endangered species may be present based on published county lists. Table 1 is attached and lists the rare, threatened and endangered species that have been previously identified in the counties traversed by the pipeline corridor. On behalf of NEXUS, TRC is requesting the assistance of the U.S. Fish and Wildlife Service (“USFWS”) to determine if any of these species are known to occur within the one-mile wide area under investigation. This information will assist us in determining a route to potentially avoid and minimize disruption to sensitive habitat and determine potential seasonal or species specific surveys that maybe required during permitting of the Project. Any further comments or survey guidance regarding rare, threatened, endangered or other important species is also welcomed.

To help facilitate the consultation process, TRC requests a meeting to discuss the general scope of the proposed Project and the consultation process with the USFWS moving forward. This meeting will be the first of many opportunities to participate in the development and review of these projects. We will be contacting you soon and hope to schedule this meeting within the next month. Additional information such as a GIS SHP files of the Project study corridor to aid in the review of the Project can also be provided at that time.

U.S. Fish and Wildlife Service  
September 18, 2014  
Page 2 of 3

If you have any questions regarding the Project or the request herein, please contact me at TRC by calling (207) 232-1979 or via email at [mlychwala@trcsolutions.com](mailto:mlychwala@trcsolutions.com)

Sincerely,

A handwritten signature in black ink that reads "Michael Lychwala". The signature is written in a cursive style with a large initial 'M'.

Michael Lychwala, TRC

cc: Matt Barczyk, Spectra Energy Partners, LP  
Angela Gardner, TRC

U.S. Fish and Wildlife Service  
 September 18, 2014  
 Page 3 of 3

Table 1- Federally Listed Species Potentially Occurring Within/Near Nexus Project in Ohio			
Common Name	Scientific Name	Status	County Traversed By Project With Species Occurrence
Indiana bat	<i>Myotis sodalis</i>	Endangered	All Counties
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	Proposed Endangered	All Counties
Kirtland's warbler	<i>Dendroica kirtlandii</i>	Endangered	Erie, Lake, Lorain, Lucas, Sandusky
Piping Plover	<i>Charadrius melodus</i>	Endangered	Erie, Lake
Red Knot	<i>Calidris canutus rufa</i>	Proposed Threatened	Erie, Lake, Lorain, Lucas, Sandusky
Eastern massasauga	<i>Sistrurus catenatus</i>	Candidate	Columbiana, Erie, Lucas, Sandusky, Wayne
Rayed bean	<i>Villosa fabalis</i>	Endangered	Lucas
Karner blue butterfly	<i>Lycaeides melissa samuelis</i>	Endangered	Lucas
Eastern prairie fringe orchid	<i>Platanthera leucophaea</i>	Threatened	Lucas, Sandusky, Wayne
Lakeside daisy	<i>Hymenoxys herbacea</i>	Threatened	Erie



Figure 1 - Project Overview Map  
 NEXUS Pipeline Project



9/11/2014

## Appendix H: List of Voluntary Landowner Informational Meetings and Open House Meetings

### Voluntary Landowner Informational Meetings

DATE	MEETING LOCATION	COUNTY
<b>Tuesday, October 7, 2014</b>	Firelands Elementary School 10779 Vermilion Rd. Oberlin, OH 44074	Lorain
<b>Wednesday, October 8, 2014</b>	Stark State College 6200 Frank Ave. NW North Canton, OH 44720	Columbiana Stark Summit Carroll
<b>Thursday, October 9, 2014</b>	Medina Community Recreation Center 855 Weymouth Rd. Medina, OH 44256	Medina Wayne
<b>Monday, October 13, 2014</b>	Swanton High School 601 N Main St Swanton, OH 43558	Fulton Lucas
<b>Tuesday, October 14, 2014</b>	Margaretta Elementary School 5906 Bogart Rd. W Castalia, OH 44824	Erie
<b>Wednesday, October 15, 2014</b>	Terra Community College 2830 Napoleon Rd. Fremont, OH 43420	Sandusky
<b>Thursday, October 16, 2014</b>	Owens Community College 30335 Oregon Rd Perrysburg, OH 43551	Wood
<b>Wednesday, November 12, 2014</b>	Lincoln High School 7425 Willis Rd Ypsilanti, MI 48197	Washtenaw Monroe
<b>Thursday, November 13, 2014</b>	Adrian High School 785 Riverside Ave Adrian, MI 49221	Lenawee

### Open House Meetings

DATE	MEETING LOCATION	COUNTY
<b>Monday, February 2, 2015</b>	The Galaxy Banquet Center 201 Park Center Dr. Wadsworth, OH 44281	Medina Wayne
<b>Tuesday, February 3, 2015</b>	Lorain County Community College 1005 Abbe Rd. N	Lorain

NEXUS Project Public and Agency Participation Plan  
January 2015

	Elyria, OH 44035	
<b>Wednesday, February 4, 2015</b>	Margaretta Elementary School 5906 Bogart Rd. W Castalia, OH 44824	Erie
<b>Thursday, February 5, 2015</b>	Terra Community College 2830 Napoleon Rd. Fremont, OH 43420	Sandusky
<b>Monday, February 9, 2015</b>	Stark State College 6200 Frank Ave NW North Canton, OH 44720	Summit Stark
<b>Tuesday, February 10, 2015</b>	United Local High School 8143 Ohio 9 Hanoverton, OH 44423	Columbiana
<b>Wednesday, February 11, 2015</b>	Swanton High School 601 N Main St Swanton, OH 43558	Fulton
<b>Thursday, February 12, 2015</b>	Central Park West 3141 Central Park West Dr. Toledo, OH 43617	Lucas Wood
<b>Tuesday, February 17, 2015</b>	Adrian College 110 S Madison St. Adrian, MI 49221	Lenawee
<b>Wednesday, February 18, 2015</b>	Lincoln High School 7425 Willis Rd. Ypsilanti, MI 48197	Washtenaw Monroe



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**APPENDIX 1C4**

**Ohio Natural Gas Market Study**

# **Ohio Natural Gas Market Study:**

*Prepared for the NEXUS Gas Transmission Project*

**Susan F. Tierney, Ph.D.**

**Craig P. Aubuchon**

**Pavel G. Darling**

**Analysis Group, Inc.**

**June, 2015**

## **Acknowledgments**

This Report has been prepared at the request of NEXUS Gas Transmission, LLC (“NEXUS”) with respect to its proposed NEXUS Gas Transmission project. The purpose of this Report is to review the market for natural gas in Ohio, with a particular focus on the Northern Ohio region that is proposed to be served by the NEXUS Project.

This is an independent report by the authors at the Analysis Group, and reflects the research, analysis, judgment, and opinions of the authors. The authors would like to recognize and thank our Analysis Group colleagues – Maggie Reilly, Shaheen Lavie-Rouse, and Sean Burpoe – for their significant analytic and research support for this Report.

## **About Analysis Group**

Analysis Group provides economic, financial, and business strategy consulting to leading law firms, corporations, and government agencies. The firm has more than 600 professionals, with offices in Boston, Chicago, Dallas, Denver, Los Angeles, Menlo Park, New York, San Francisco, Washington, D.C., Montreal, and Beijing.

Analysis Group’s energy and environment practice area is distinguished by expertise in economics, finance, market analysis, regulatory issues, and public policy, as well as significant experience in environmental economics and energy infrastructure development. The practice has worked for a wide variety of clients including energy producers, suppliers and consumers; utilities; regulatory commissions and other public agencies; tribal governments; power system operators; foundations; financial institutions; and start-up companies, among others.

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## EXECUTIVE SUMMARY

The purpose of this Report is to review the market needs and potential public benefits associated with increased natural-gas delivery capability in Ohio, with a focus in particular on the market for natural gas as part of Northern Ohio’s changing energy landscape. This is a region with significant population and economic activity. It is also close to the Marcellus and Utica Shale plays located in the Appalachian Basin, with growing production of relatively low-cost natural gas. Northern Ohio has an increasing demand for natural gas and will require additional infrastructure to meet its needs in the coming years.

Historically, Ohio’s economy has depended deeply on coal for power generation, with natural gas and oil used primarily for other energy needs. The advent of abundant and relatively low-cost shale gas is disrupting this energy landscape in major ways – especially for power plants and for industrial users in particular.

In Northern Ohio,<sup>1</sup> fuel and power supplies used by some of the state’s largest cities and businesses must be delivered into the area. Currently, the gas-delivery infrastructure connecting that region with natural-gas production basins limits the amount of gas that can be used in Northern Ohio. Some parts of Northern Ohio lack physical access to pipeline deliveries; and even in those parts where there are gas-delivery points, access to gas may be constrained during peak periods. Energy customers seeking to increase their use of natural gas cannot access firm natural-gas supply on a year-round basis without expansion of the pipeline system. This situation will limit growth in gas use at a time when the outlook for gas prices is attractive and when pressure to use more natural gas may increase as a result of federal regulations that limit carbon emissions from coal-fired power plants.

The proposed NEXUS Gas Transmission project (“NEXUS Project”) will expand the natural-gas pipeline capacity in Northern Ohio. The NEXUS Project is designed to transport 1.5 billion cubic feet a day (“Bcf/day”) of gas from the growing supply basins in Appalachia to customers in the U.S. Midwest, including Ohio. The proposed route for the new greenfield pipeline proposed by NEXUS would connect to delivery points for Appalachian shale gas in Columbiana County, Ohio and other Northern Ohio counties and traverse Northern Ohio to further delivery points in Southern Michigan.

---

<sup>1</sup> For purposes of this report, Northern Ohio is defined as counties that are within 25 miles of the proposed NEXUS route to the south and bounded by Lake Erie to the north.

Just under half of Ohio's population lives in Northern Ohio counties, and the NEXUS Project is close to major population centers in Toledo, Cleveland, Akron and Youngstown. Consumers in these counties currently use over half of Ohio's total natural gas demand. These Northern Ohio counties are also home to roughly 40 percent to the state's total economic activity and just under a third of the state's total fossil-fuel electric generation. In addition to announced coal-fired power plant retirements, and other plants that are planning to switch from coal to natural gas, there are also several proposals for new gas-fired power plants in this region.

In large part because of these market conditions, there is substantial demand for incremental gas delivery and supply in Northern Ohio. Our report has the following conclusions:

- ***A substantial increase in regional production within the Appalachian Basin has already changed the dominant flow of natural gas within the U.S., with new flows expected to move westwardly from the Appalachian region.*** This increased production has lowered prices substantially and prices are expected to remain low for the foreseeable future. This has already provided initial economic benefits to consumers in Ohio and elsewhere in the form of lower electricity and natural gas costs, and additional jobs and economic opportunities to the State of Ohio.
- ***Significant potential incremental peak-day demand is associated with known new natural gas combined cycle power plants, coal-to-gas plant conversions and other power plants.*** We estimate that the potential incremental gas-delivery demand for currently planned generating units to be 0.535 Bcf/day. Because this potential demand reflects only the currently identified new power-plant projects, there could be much more in the future as the region transitions to an electricity mix that depends less on coal and more on natural gas. Demand of traditional customers (residential, commercial and industrial customers) would be above that daily demand of power generators.
- ***Existing gas-delivery capacity needs to expand to accommodate greater use of natural gas in Northern Ohio.*** Potential incremental year-round demand for natural gas of traditional customers and power-generation customers in Northern Ohio would require up to an additional 150 Bcf/year. Much of this demand will need to be served by firm fuel contracts to ensure reliable access during heating season. Further, as natural gas demand grows in other parts of Ohio, additional pipeline capacity will be required to meet that demand. The NEXUS Project's access to Northern Ohio markets may free up capacity on pipelines currently serving that market and allow them to meet the demand needs in other parts of the state along their systems.
- ***A strong industrial base in Northern Ohio needs access to low-cost energy to remain competitive.*** For example, studies indicate that with greater access to natural gas,

energy-intensive manufacturing sectors could outperform the growth of U.S. industries as a whole. Providing incremental access to low-cost energy to Ohio’s manufacturing base will benefit those industries and the broader state as well.

- ***An opportunity to serve incremental residential heating needs could be accommodated through greater access to natural gas delivery-capability and storage-balancing services.*** The ability of local distribution companies (“LDCs”) or their retail energy marketers to take on additional firm customers depends upon incremental pipeline capacity such as the NEXUS Project
- ***Incremental gas delivery capacity can support the transition of Ohio’s and the region’s power sector to an overall fleet with lower overall carbon dioxide (“CO<sub>2</sub>”) emissions, in order to meet state and federal clean energy goals.*** More than 3,500 megawatts (“MW”) of coal-fired capacity in Ohio will retire by 2016. These coal units will be replaced by almost 5,000 MW of natural-gas combined-cycle (“NGCC”) capacity, with the vast majority of that capacity located in Northern Ohio. These units support not only Ohio’s electricity demand but also a regional economic dispatch of power plants taking CO<sub>2</sub> emissions into account. These units will be expected to run with high capacity factors including operations during winter seasons when incremental firm natural-gas delivery service will be needed to ensure NGCCs’ availability for power generation.

The NEXUS Project includes a unique bundle of attributes that can enable it meet these emerging natural gas opportunities in Northern Ohio. These attributes include:

- ***A project that can move forward in development, given the financial commitment of anchor shippers.*** The NEXUS Project’s overall economics will allow it proceed now. And it will have the capability to allow other shippers in the future to sign up for firm and interruptible capacity over time to meet new and emerging demand on an as-needed basis. It will also benefit customers (including those directly served by LDCs, and industrials and power generators) that are already connected to existing gas-delivery systems, through increasing their options to access low-cost gas supplies.
- ***Use of existing infrastructure corridors*** with three-fifths of the route’s mileage located on existing pipeline or railroad corridors. As such, the NEXUS Project can provide incremental access to natural gas delivery for a large portion of Northern Ohio with less disruption to communities and natural resources than would occur with an entirely new right of way.
- ***Provision of a new, state-of-the-art large-diameter and high-capacity line*** in an area populated by relatively small-diameter, lower-pressure systems. The NEXUS Project can help support the new westward flow of natural gas from the Appalachian shale basins.

The NEXUS Project will also be able to provide pressure support to an underserved region, which will benefit existing customers through increased reliability and supply options.

- ***Capability to meet potential incremental demand for natural gas in a time frame that coincides with significant changes in the overall energy landscape in the region.*** These changes include retirements of coal-fired power plants in Northern Ohio that will be replaced by new NGCCs, as well as incremental demand for low-cost natural gas supply by Northern Ohio’s important industrial and manufacturing base.
- ***Ability for timely and incremental expansion of infrastructure*** to meet growing demand for natural gas. The NEXUS Project’s mainline through Northern Ohio also offers the capability for incremental mainline expansion and lateral lines to new end-use customers that could use natural gas if they could access it economically. For example, households in several Northern Ohio counties continue to rely on distillate fuel oil and electricity for residential heating. With access to sustained low-cost natural gas and increasingly more-efficient boilers, these homes may find it economical to switch to natural gas if more supply and delivery capability becomes available. The NEXUS Project can open access for a whole new set of potential gas-heating customers. LDCs in this region support the conversion of homes to natural gas through the use of financial incentives like rebates.
- ***Support for Ohio’s environmental and clean-energy goals, with the ability to help enable timely and cost-effective compliance with CO<sub>2</sub> emission-reduction requirements in the electric sector.*** The Ohio Environmental Protection Agency has expressed concern that “an apparent slowdown in the growth” of new pipeline development would make it harder to support a significant transition to and redispatch of natural-gas-fired capacity. The NEXUS Project would provide the capability to address that concern in a timely way and help the state transition to a newer, more-efficient energy mix with lower CO<sub>2</sub> emissions. The region’s grid operator, PJM, has found that greater reliance on new NGCCs could help the state meet its emission-reduction goals at lower overall costs to consumers.

This report examines the market for natural gas in Northern Ohio and the ability of the NEXUS Project to serve it. Following a more detailed overview of the NEXUS Project and the overall economic and energy context in the state of Ohio, the report assesses the potential demand for natural gas by traditional end-use sectors and by the power sector in the state. The report also provides an overview of the existing natural gas infrastructure in the State, including historical constraints on the current system. The final section of the report examines the specific value of additional pipeline delivery capability in the parts of Northern Ohio that could be served by the NEXUS Project.



## 1. DESCRIPTION OF THE NEXUS PROJECT

The NEXUS Gas Transmission Project (“NEXUS Project” or “Project”) will provide up to 1.5 billion cubic feet (“Bcf”) per day of new natural gas pipeline capacity to connect demand in Michigan, Northern Ohio, other parts of the Midwest, and Ontario natural gas markets with production basins in the Appalachian Mountain areas and other source of supply served by the Texas Eastern pipeline system and the Tennessee Gas Pipeline system.

The NEXUS Project has been proposed to satisfy the “market demand pull” associated with serving end-use customers along the route and beyond its terminus in Michigan as well as a “producer push” to deliver increasing production of relatively low-cost natural gas supply from the Appalachian Basins (defined broadly as both the Marcellus and Utica shale regions). The project developers indicate that the Project is intended to help to alleviate market constraints caused by the decrease in supply to the Midwest from Western Canada and conversion of regional gas pipelines to crude oil transmission.<sup>2</sup>

The NEXUS Project includes both new pipeline infrastructure along greenfield and existing rights of way and the expansion of existing infrastructure capacity at both ends of the Project. As shown in Figure 1, below, the new construction is comprised of approximately 250 miles of new natural gas transmission mainline capacity beginning in Kensington, Ohio, and ending west of Detroit in Willow Run, Michigan. The Project route crosses through Northern Ohio, with approximately 60 percent located along existing rights of way (“ROW”).<sup>3</sup> The Project also includes several additional expansions, in both Ohio and Michigan.<sup>4</sup> In Ohio, the expansion of the Texas Eastern Transmission, LP system will allow shippers to access supplies between the current line and Kensington, Ohio. In Michigan, NEXUS will contract for or lease capacity from DTE Energy Gas for transportation services in eastern Michigan to provide NEXUS with access to Vector Pipeline, Michigan markets and natural gas storage and balancing services. Vector Pipeline will provide NEXUS with additional access to eastern Michigan and Canadian markets and natural gas storage and balancing services.

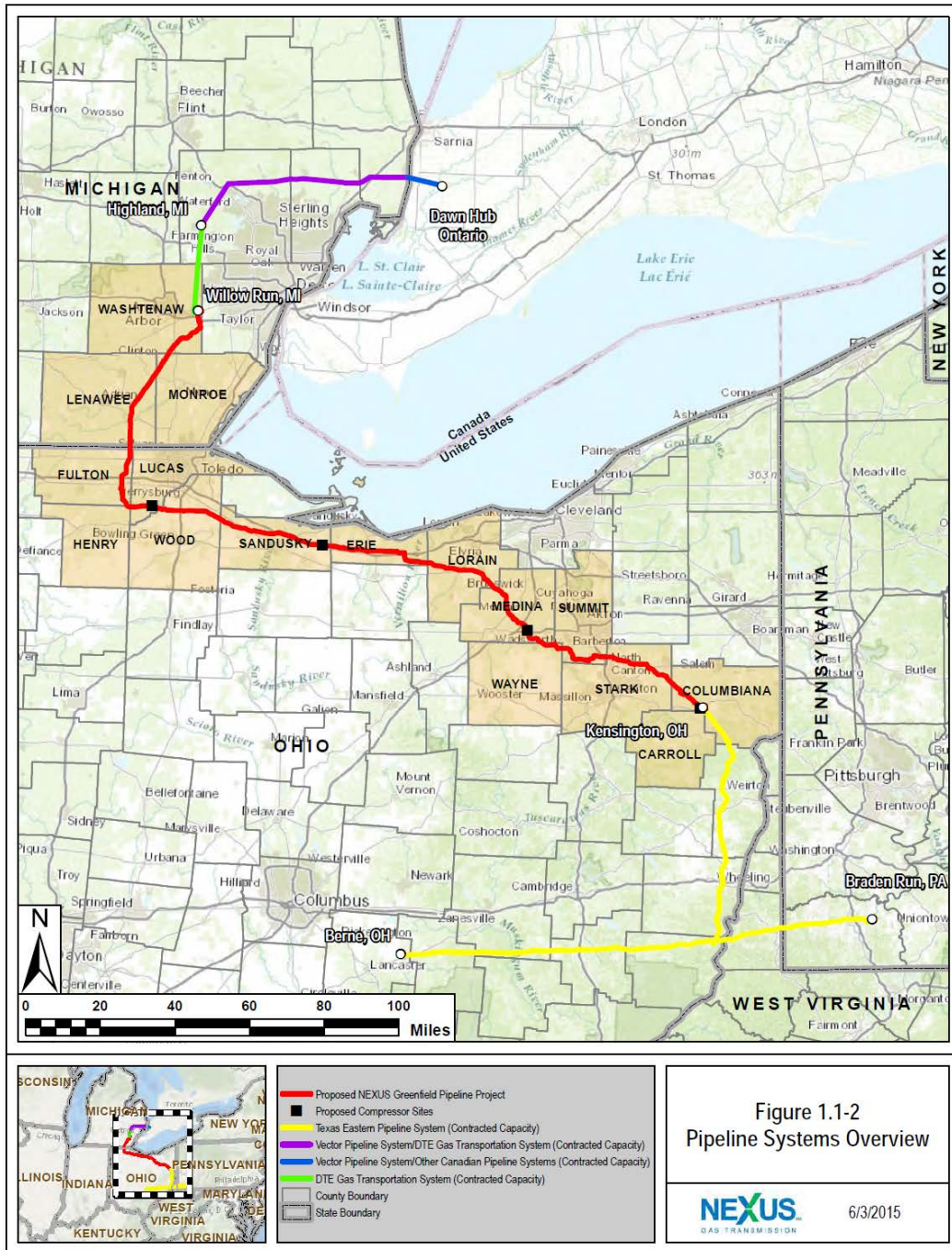
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<sup>2</sup> NEXUS Gas Transmission Project, “Resource Report 1: General Project Description,” Federal Energy Regulatory Commission (“FERC”), Docket No. PF15-10-000, January 2015 (hereafter “Resource Report 1”), page 1-4.

<sup>3</sup> Resource Report 1, pages 1-1 through 1-10.

<sup>4</sup> Resource Report 1, pages 1-1 and 1-3. Texas Eastern Transmission, DTE Gas Transportation and Vector will submit separate filings at FERC.

**Figure 1**  
**Route of the NEXUS Natural Gas Transmission Project**

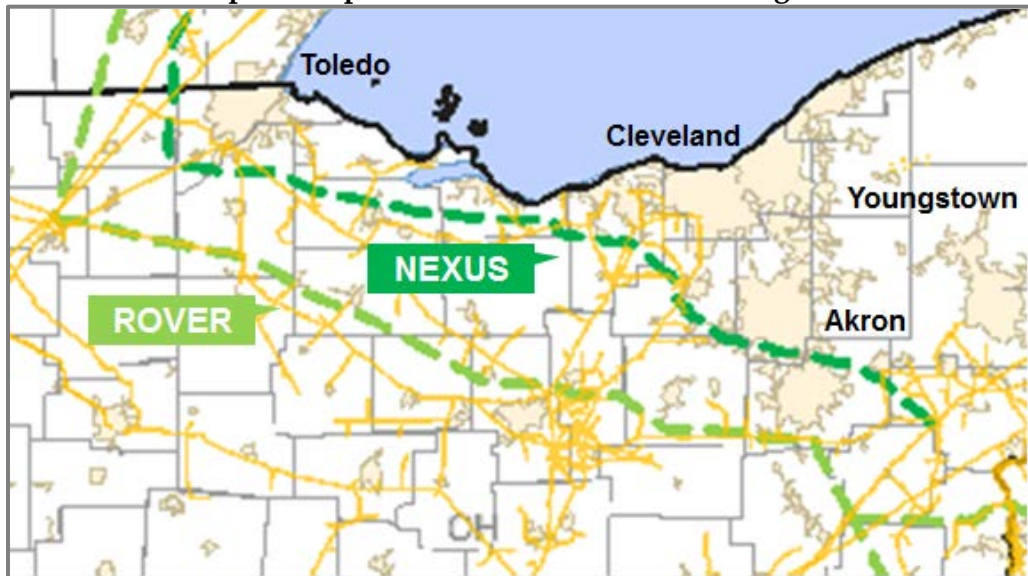


Source: NEXUS Gas Transmission Project, Resource Report, Figure 1.1-2, June 3, 2015

The NEXUS Project is not the only project currently proposed to meet the growing demand for natural gas in the northern parts of Ohio. For example, the Rover Project, under development by Energy Transfer Partner, L.P., would run 409 miles from the Midwest Hub in Defiance

County, Ohio, across Northern Ohio (south of the NEXUS Project’s route), through Michigan to an interconnection with Vector Pipeline. Much of the Rover’s route would require siting of facilities on new rights of way.<sup>5</sup> (See Figure 2.) The Rover project describes itself as a “producer-driven pipeline” with its primary purpose to move “stranded” Appalachian Basin natural gas out of that basin and into the Midwest and other regions.<sup>6</sup>

**Figure 2**  
**Proposed Pipelines in Ohio and Surrounding Area**



Source: SNL Financial

## 2. BACKGROUND AND CONTEXT

### Overview: Ohio’s Changing Energy Market

As the state with the 7<sup>th</sup> largest economy in the U.S.<sup>7</sup> and with the 6<sup>th</sup> largest energy use among industrial customers in the 50 states,<sup>8</sup> Ohio is an important market for competitive energy

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<sup>5</sup> The Rover proposal also includes new lateral pipelines ranging from 4 to 206 miles in length, to connect it to parts of southeast Ohio, Michigan, and Canada, for a total of 823 miles of new pipeline that would provide 3.25 Bcf/day of new pipeline capacity. Much of the Rover’s route would require siting of facilities on new rights of way. Sources: Rover Pipeline Project, “Resource Report 1 Project Description,” Federal Energy Regulatory Commission (“FERC”) Docket No. CP15-93-000, February 2015 (hereafter “Rover Resource Report 1”), pages 1-2 and 1-4; Resource Report, page 1-8; Jon Chavez, “Ohio’s natural gas boom brings flurry of pipeline construction,” Toledo Blade, December 7, 2014, <http://www.toledoblade.com/business/2014/12/07/Ohio-s-natural-gas-boom-brings-flurry-of-pipeline-construction.html>.

<sup>6</sup> Rover Resource Report 1, pages 1-2 and 1-4.

<sup>7</sup> U.S. Bureau of Economic Analysis (“BEA”), Gross State Product data, 2013.

commodities like natural gas. Ohio's industrial base is strong: its manufacturing base is the 4<sup>th</sup> largest in the U.S.<sup>9</sup>

Historically, Ohio has made use of its proximity to coal basins to supply the fuel for much of its power supply. About 70 percent of Ohio's electricity production is fueled by coal, compared to the U.S.'s at 40 percent.<sup>10</sup> Relatively low-cost coal supply has historically helped provide low-cost electricity to Ohio businesses and households for decades.

Natural gas use for power generation in Ohio has historically been quite low. It is only since 2010 that natural gas use has risen above 5 percent of total power generation in Ohio, compared to the national average of at least 20 percent for two decades.<sup>11</sup>

But the energy mix has been changing significantly in recent years, with natural gas displacing coal in many energy applications. As of 2012, for example, natural gas' share of power supply rose to 36 percent in the U.S. and 16 percent in Ohio (see Figure 3); but even with natural gas use growing significant in Ohio, it still lags significantly behind natural gas use in the U.S.

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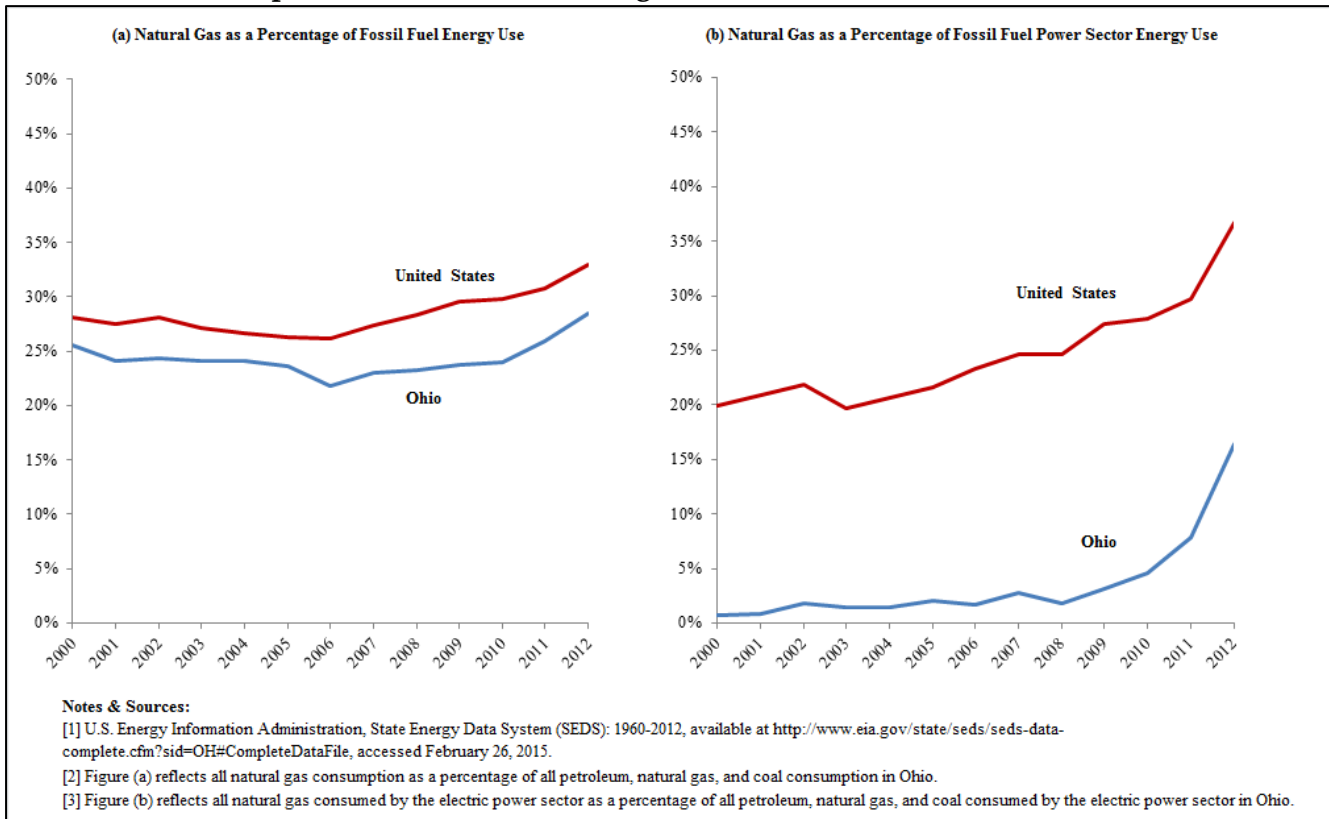
<sup>8</sup> U.S. Energy Information Administration ("EIA"), State Energy Data System ("SEDS"), Table C10. [http://www.eia.gov/state/seds/data.cfm?incfile=/state/seds/sep\\_sum/html/rank\\_use.html&sid=OH](http://www.eia.gov/state/seds/data.cfm?incfile=/state/seds/sep_sum/html/rank_use.html&sid=OH). Accessed June 9, 2015.

<sup>9</sup> BEA: Data on each state's gross state product for manufacturing as a percentage of total Gross Domestic Product (U.S.) for manufacturing. 2013 data.

<sup>10</sup> See Table 2. SNL Financial, 2013 data.

<sup>11</sup> EIA, SEDS 2013 data.

**Figure 3**  
**Comparison of Natural Gas Usage in Ohio and the U. S., 2000-2012**



As described further in the section entitled “Impacts of Increased Natural Gas Production,” natural gas production has increased substantially in the Appalachian region, including the Marcellus, the Utica and the Devonian shale gas plays covering parts of Virginia, Ohio, Pennsylvania, and New York. The now-well publicized deployment of hydraulic fracturing and directional drilling in unconventional natural gas reservoirs has provided access to economical supplies of natural gas in new areas of the U.S.

Ohio straddles the intersection of this changing energy landscape. It is proximate to productive coal basins in the southern part of the state and the highly productive Appalachian natural gas plays located on the eastern part of the state (and beyond its borders to the East). It can be expected that Ohio will see changes in the demand for natural gas. Given its historical advantage of being close to low-cost energy (including electricity generated from coal), Ohio developed – and has maintained – a large and robust industrial manufacturing sector with

significant demand for relatively low-cost energy.<sup>12</sup> As such, the Ohio market is a critically important piece of this newly emerging energy landscape.

The electric sector is also in the midst of a fundamental transformation, with increased output from existing underutilized natural gas power plants and new, highly efficient natural-gas fired power plants in development and expected to displace electricity produced at various parts of the regional coal-fired generating fleet. The economics of coal-fired generation have deteriorated in recent years due to many factors, including current and proposed air regulations and the falling cost of natural gas and its relative attractiveness for power production.<sup>13</sup> Coal-fired power plants, representing more than 3,500 MW of capacity, are expected to retire in both the immediate future and the next several years in Ohio. These retirements are expected to be offset by almost 5,000 MW of known NGCC power plants in various stages of development. (These issues are discussed in greater detail in the section on “Existing and Forecasted Natural Gas Demand from Ohio’s Power Sector.”)

### **Impact of Increased Natural Gas Production**

The trends in greater competition between natural-gas-fired power plants and coal-fired power plants have been driven largely by the falling prices of natural gas relative to coal. Natural gas prices have fallen by more than 50 percent since 2008<sup>14</sup> and are expected to remain low for the foreseeable future. Falling natural prices have benefited consumers across the country, both in terms of prices to end users of natural gas and in terms of lowering electricity costs to all consumers as efficient natural gas-fired power plants have become the predominant choice for new construction by generators.

These lower natural gas prices have resulted substantially from increased production at new natural gas fields that began to be commercially accessible starting in the mid-2000s, through the advent of new drilling techniques. The largest of these “new” natural gas plays is in the Appalachian Basin. (See Figure 4.)

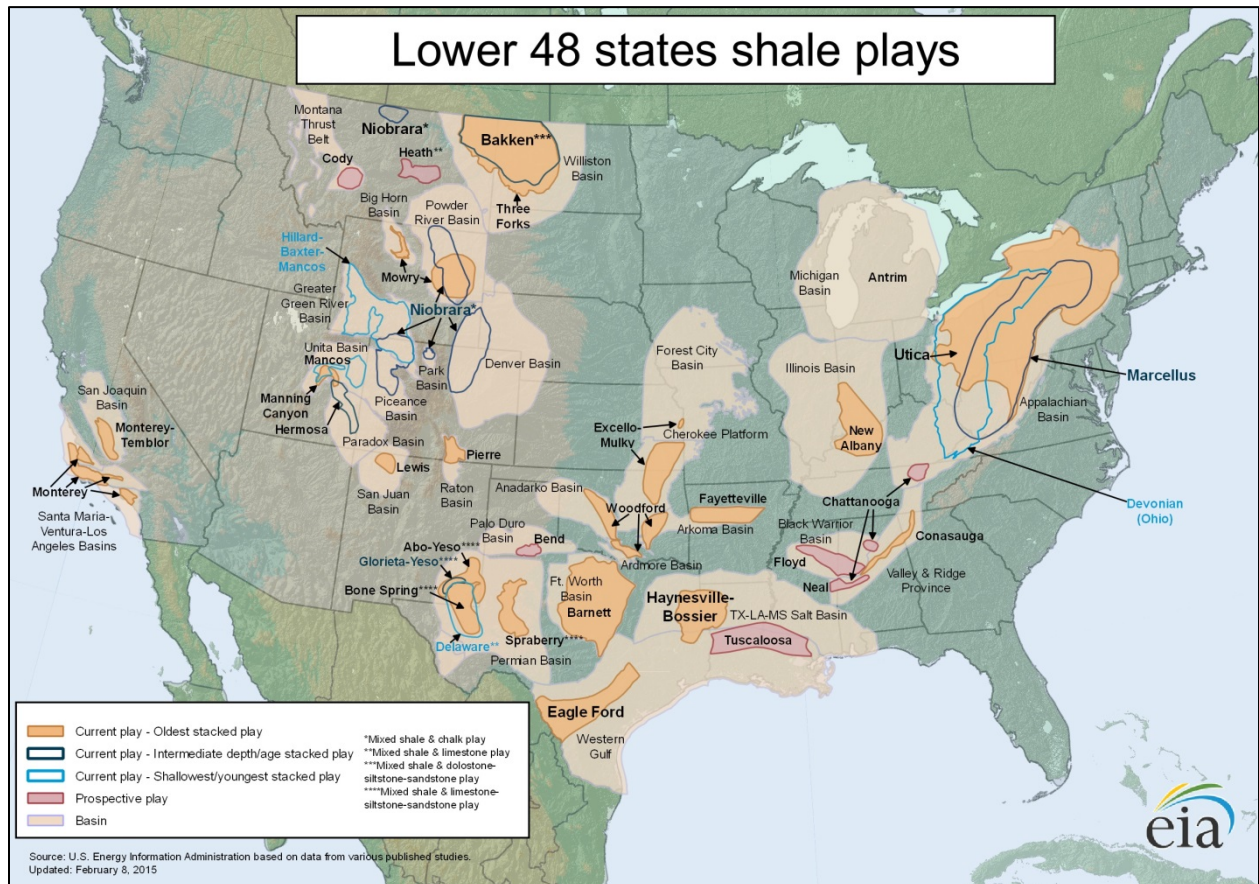
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<sup>12</sup> In 2013, Ohio ranked sixth in the nation for energy consumption by the industrial sector. Manufacturing accounted for 18 percent of the State’s gross domestic product (“GDP”). EIA notes that in 2013, Ohio accounted for over 3 percent of all U.S. manufacturing-related GDP. See <http://www.eia.gov/state/?sid=OH>, accessed on 5/27/2015.

<sup>13</sup> See: Susan Tierney, “Why Coal Plants Retire: Power Market Fundamentals as of 2012,” March 2012.

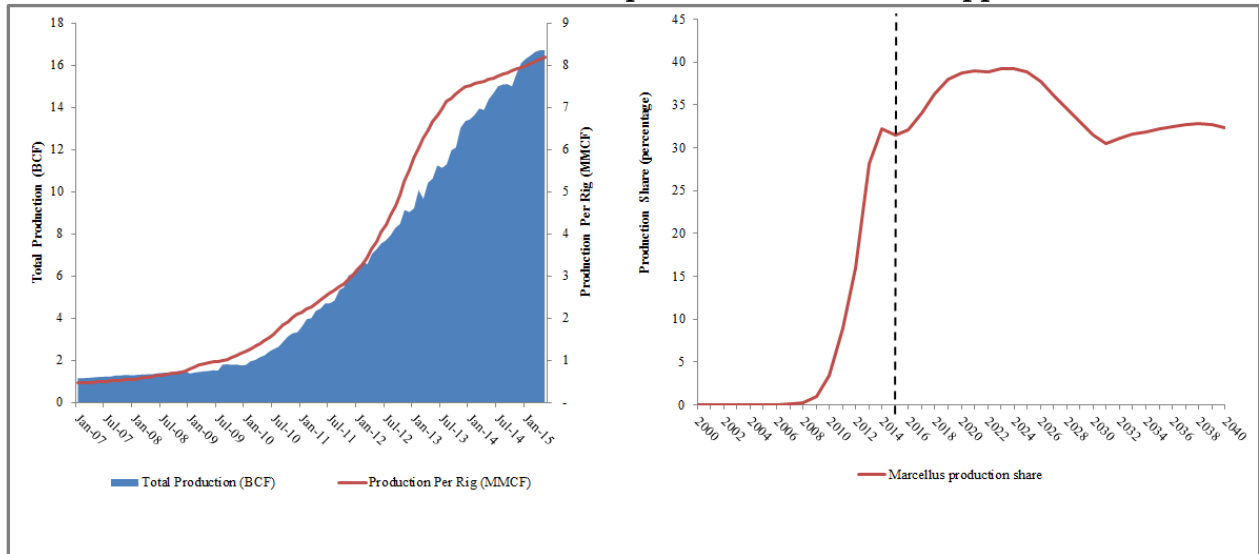
<sup>14</sup> Using the Henry Hub spot price for natural gas: in 2008 the average price of natural gas was \$9.13 per Mcf, the price in 2014 was \$4.52 per Mcf, and the estimated average annual price for 2015 is \$3.01 per Mcf (as of 5-23-2015). <http://www.eia.gov/forecasts/steo/tables/?tableNumber=8#endcode=2015&startcode=2008>

**Figure 4**  
**Shale Gas Plays, Lower 48 States**



The expansion of production from natural gas wells in the Marcellus Shale, for example, is unprecedented in U.S. energy history, both in terms of scale and scope. Total production has grown exponentially since 2007, going from less than 2 Bcf/day to more than 16 Bcf/day in 2015. (See Figure 5.) The region has added several hundred rigs during that same period, and those rigs have increased their overall production, even on a per-rig basis. With this activity, natural gas from the Marcellus region has grown from less than 10 percent of total U.S. production consumed east of the Mississippi as recently as 2011 to more than 30 percent of total. And growth is continuing to increase: through April 2015, production was growing in the region close to 20 percent on a year-over-year basis. Production is forecast to remain a critical part of the nation’s energy infrastructure, and will continue to provide more than 30 percent of total supplies east of the Mississippi for the next 25 years.

**Figure 5**  
**Natural Gas Production in the Marcellus Shale Region**  
**(Total Marcellus production and**  
**Share of U.S. Natural Gas Consumption East of the Mississippi River)**

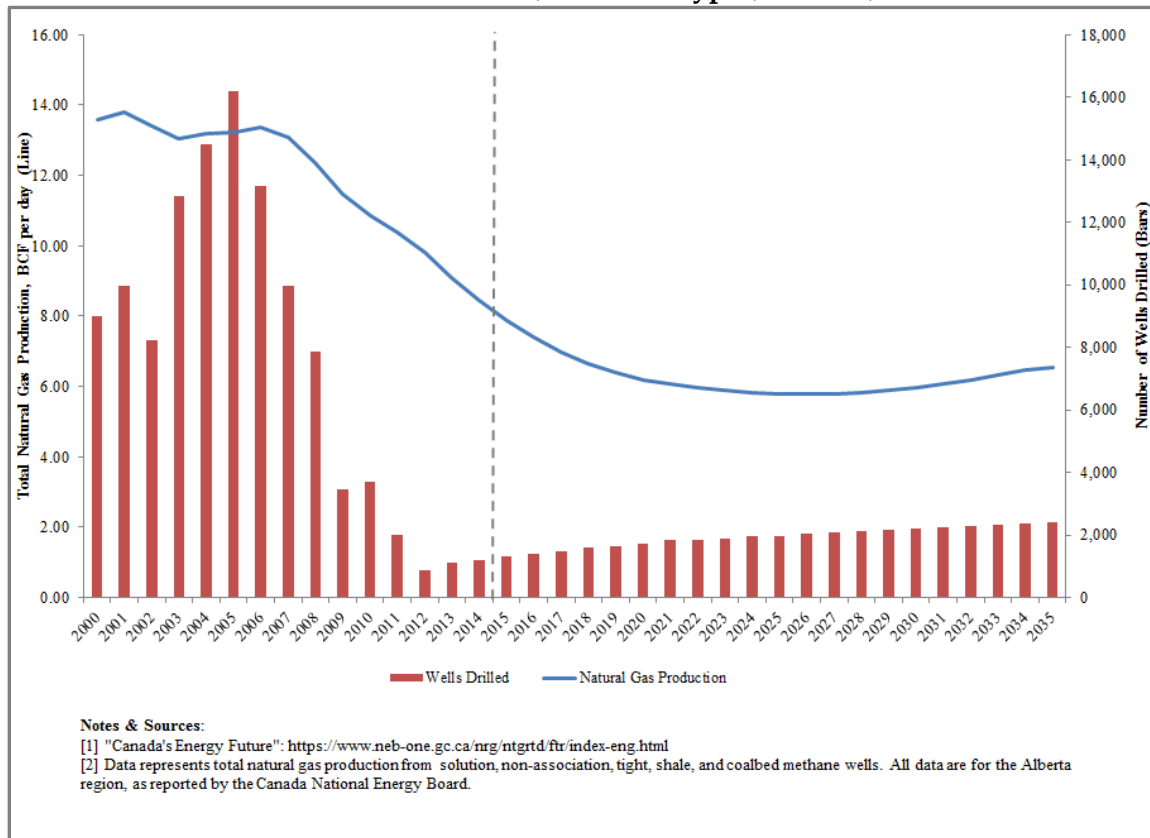


Source: EIA, Drilling Productivity Report and EIA Annual Energy Outlook 2015.

At the same time, natural gas production in traditional supply areas has declined over time, as wellhead pressures have been reduced with increased extraction. Production in Alberta, Canada, for example, which has traditionally been a source of supply to the Midwest and Eastern parts of the U.S., has declined more than 50 percent (from a high of 13.5 Bcf/day in 2000 to 8.5 Bcf/day in 2014). (See Figure 6.) Both the total number of wells and the overall production from conventional natural gas basins is expected to remain low for the foreseeable future.



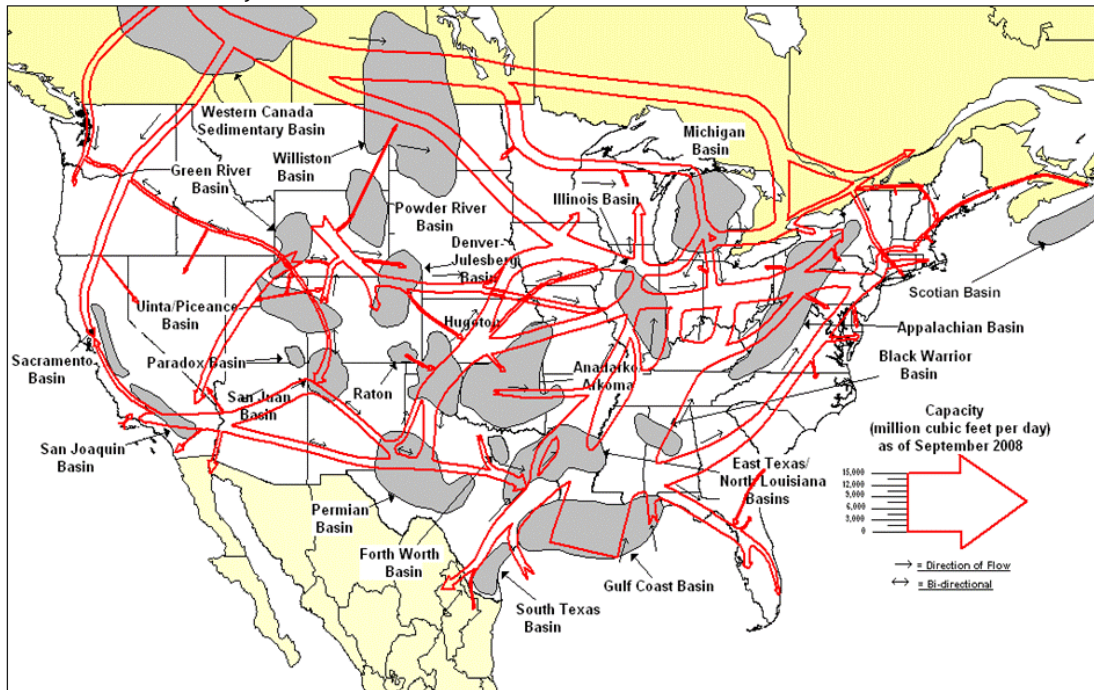
**Figure 6**  
**Natural Gas Production, All Well Types, Alberta, 2000 to 2035**



Taken together, these trends – increased production in unconventional natural-gas plays like the Appalachian Basin and the declining production of traditional supply areas in Western Canada – have redirected the flow of natural gas within the United States. Just a decade ago, the predominant flow of natural gas in the Midwest and Eastern part of the U.S. had been from the Gulf Coast, the Southwest and the U.S. and Canadian Rockies, as shown in Figure 7 (indicating the direction and volume of flows as of 2008). But new production in the Appalachian region has already begun to change the flows of natural gas throughout the U.S.,<sup>15</sup> as illustrated in Figure 8 for the shifts from 2012 to 2013, along generalized pipeline corridors.

<sup>15</sup> "Shifts in pipeline flows across the U.S. emerged as natural gas production from shale displaced conventional sources. Marcellus gas located in the Northeast is a closer and often cheaper source of natural gas for major Northeast demand centers. The 3.5 Bcfd increase of Marcellus gas production displaced natural gas supplies from the Southeast, the Mid-Continent, and Canada. Supplies from those regions fell from around 12 Bcfd in 2008 to less than 6 Bcfd in 2013. In some instances, pipelines reversed physical flows to provide Marcellus gas to the Southeast, Canada, and the upper Midwest." FERC, 2013 State of the Market Report, March 20, 2014, <http://www.ferc.gov/market-oversight/reports-analyses/st-mkt-ovr/2013-som.pdf>.

**Figure 7**  
**Major Natural Gas Transmission Corridors as of 2008**

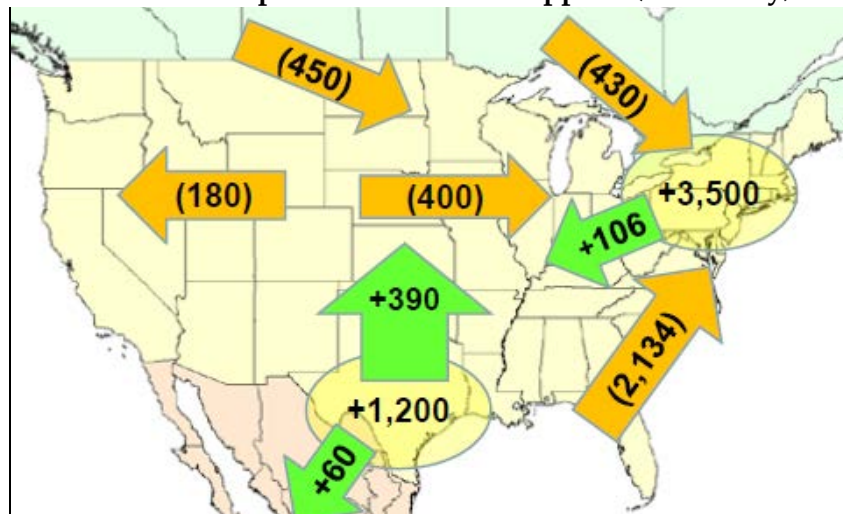


Source: Energy Information Administration, Office of Oil and Gas, Natural Gas Division, GasTran Gas Transportation Information System.

The EIA has determined that the informational map displays here do not raise security concerns, based on the application of the Federal Geographic Data Committee's *Guidelines for Providing Appropriate Access to Geospatial Data in Response to Security Concerns*.

Source: [http://www.eia.gov/pub/oil\\_gas/natural\\_gas/analysis\\_publications/ngpipeline/TransportationCorridors.html](http://www.eia.gov/pub/oil_gas/natural_gas/analysis_publications/ngpipeline/TransportationCorridors.html)

**Figure 8**  
**Natural Gas Flows: (2012 to 2013)**  
**Shale Gas Displaces Traditional Supplies (MMcf/day)**



Notes: Green arrows represent an increase from 2012; orange arrows represent a decline from 2012. Circles represent increases at shale gas production areas. Source: FERC, 2013 State of the Market Report.

These shifting production and pipeline flows have begun to offer new opportunities to industries and residents in areas, including parts of the Midwest, that historically have been limited in how and when they could access this fuel source in economical ways. Underpinning this change is the capacity of the infrastructure – the physical transmission system – that can help move natural gas to the cities, industries, power-production facilities, and households that may seek to use it for parts of their energy needs whenever it provides a more attractive option than remaining on coal (or other fuels). Given this new reality, the Appalachian Basin natural gas production is expected to provide significant economic benefits to Ohio, and not just from lowering costs to energy users.

Overall economic benefits to the state include a number of investment streams into Ohio, such as expenditures on mineral leases, road and bridge upgrades, well drilling, and post-production infrastructure needs. A study prepared by a consortium of Ohio universities estimated that the total economic value of natural gas production was \$4.8 billion in 2014.<sup>16</sup> Shale production has also brought additional jobs to Ohio’s population. In 2010, direct jobs from the Natural Gas and Oil Industry amounted to 4,490, with an estimated additional 204,000 jobs to be created due to exploration and drilling by 2015.<sup>17</sup>

### **Spotlight on Northern Ohio’s Economic Conditions**

Much of Ohio’s population and economic activity resides in Northern Ohio.<sup>18</sup> These counties include several major population centers – Toledo, Cleveland, Akron, and Youngstown – and almost half of the state’s population, despite accounting for only 20 percent of the State by area. These regions are important economic engines of the state, with diverse and robust manufacturing, health-care and trade sectors. (See Figure 9.) In 2012, these metropolitan areas accounted for 40 percent of the total Ohio’s total Gross Domestic Product (“GDP”).

Manufacturing continues to drive economic output in Ohio. In 2012, manufacturing as a whole accounted for 18 percent of statewide GDP and in 2013, Ohio accounted for 3.4 percent of all U.S. manufacturing,<sup>19</sup> with 45 percent of the manufacturing activity located in Northern Ohio.

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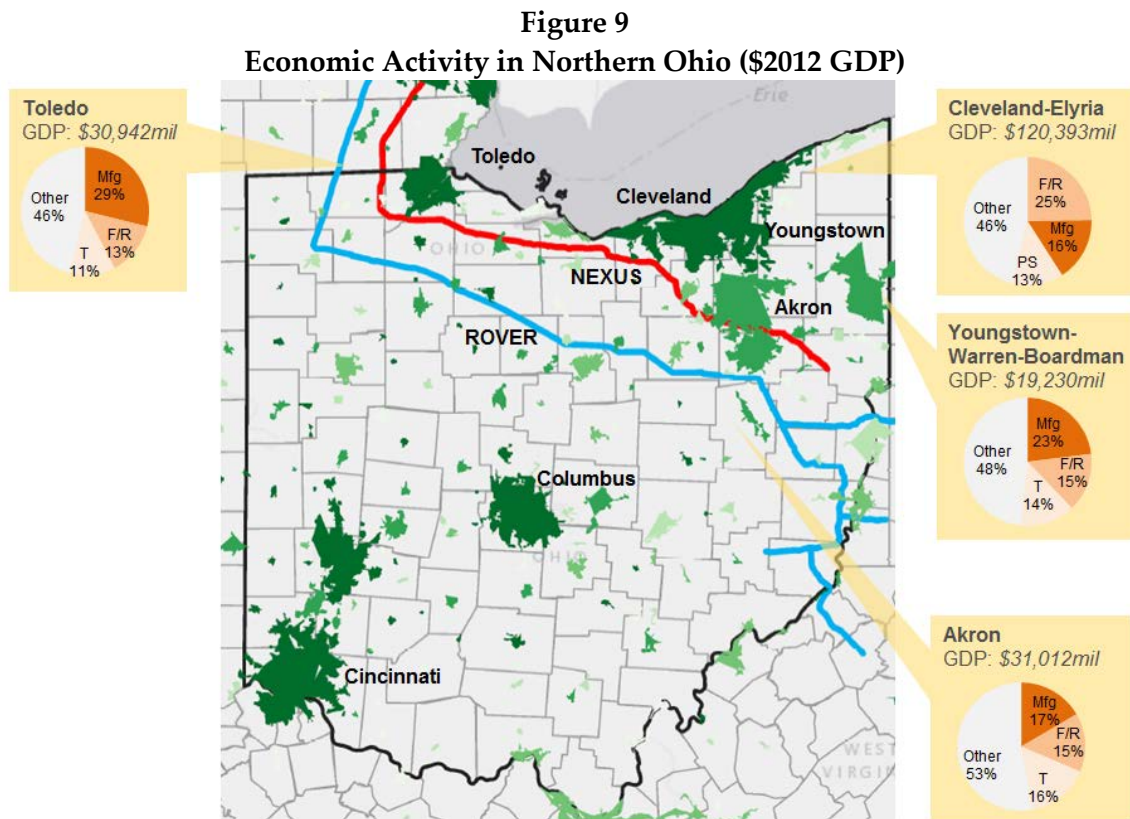
<sup>16</sup> “An Analysis of the Economic Potential for Shale Formation in Ohio,” Cleveland State University, Ohio State University, and Marletta College, sponsored by the Ohio Shale Coalition, 2014, page 2.

<sup>17</sup> “Ohio’s Natural Gas and Crude Oil Exploration and Production Industry and Emerging Utica Gas Formation,” Kleinhenz & Associates, sponsored by Ohio Oil & Gas Energy Education Program, September, 2011, page 3.

<sup>18</sup> For purposes of this report, we define Northern Ohio as counties that are within 25 miles of the proposed NEXUS route to the south and bounded by Lake Erie to the north.

<sup>19</sup> Ohio State Energy Profile, EIA, <http://www.eia.gov/state/?sid=OH>, accessed on 5/27/2015.

Northern Ohio, in particular, has a high concentration of energy-intensive manufacturing industries, such as non-metallic mineral products, primary metals manufacturing and chemical products manufacturing. Measured by employment, the industrial facilities located in Northern Ohio account for a disproportionate share of those industries in Ohio overall: between 56 percent (Chemical Manufacturing) and 73 percent (Primary Metal Manufacturing) of all Ohio jobs in these industries occur in Northern Ohio.



**Note:** "F/R" = Finance and Real Estate. "GDP" = Gross Domestic Product. "Mfg" = Manufacturing. "PS" = Professional Services. "SQMI" = square mile. "T" = Trade. Percentage of GDP by North American Industry Classification System ("NAICS") code is depicted for the top 3 industries in each metropolitan statistical area ("MSA"): Mfg (31-33), F/R (52-53), T (42, 44-45), PS (54-56).

**Sources:** SNL Financial and U.S. Bureau of Economic Analysis.

These energy-intensive sectors stand to benefit more than others from continued and increased access to low-cost natural gas. A 2013 report from IHS found that lower natural gas prices could increase U.S. industrial production 2.8 percent by 2015 and 3.9 percent by 2025, and that these energy-intensive sectors could outperform the average growth of U.S. industries as a

whole.<sup>20</sup> This resurgence in energy-intensive industrial activity in these sectors is expected to be driven, in part, by the availability of low-cost energy (spurred by shale natural gas). In turn, other industries (like primary metal manufacturing) will experience increased demand to produce the necessary components for drilling and pipeline expansion.<sup>21</sup> These industries compete with low-cost manufacturing centers abroad.

Simply put, access to low cost energy is critical to ensuring that these industries remain cost competitive going forward. Nowhere is this more important than in Northern Ohio – one of the most productive manufacturing centers in the Nation.

### **3. EXISTING AND FORECASTED NATURAL GAS DEMAND FROM OHIO'S RESIDENTIAL, COMMERCIAL AND INDUSTRIAL SECTOR**

#### **Ohio's Wholesale and Retail Natural Gas Markets: A Brief Overview**

The retail natural gas market in Ohio has been deregulated for many years, allowing end-use customers to buy either bundled natural gas service from their local distribution company ("LDC") or unbundled commodity service from a competitive supplier, with delivery provided by the LDC. LDCs do not have exclusive franchise areas, according to the state utility regulatory agency, the Public Utilities Commission of Ohio ("PUCO"). Figure 10 shows the LDCs that serve end-use customers in each county, with PUCO-regulated investor-owned LDCs shown in black letters, cooperative LDCs in red, and municipal LDCs in blue.

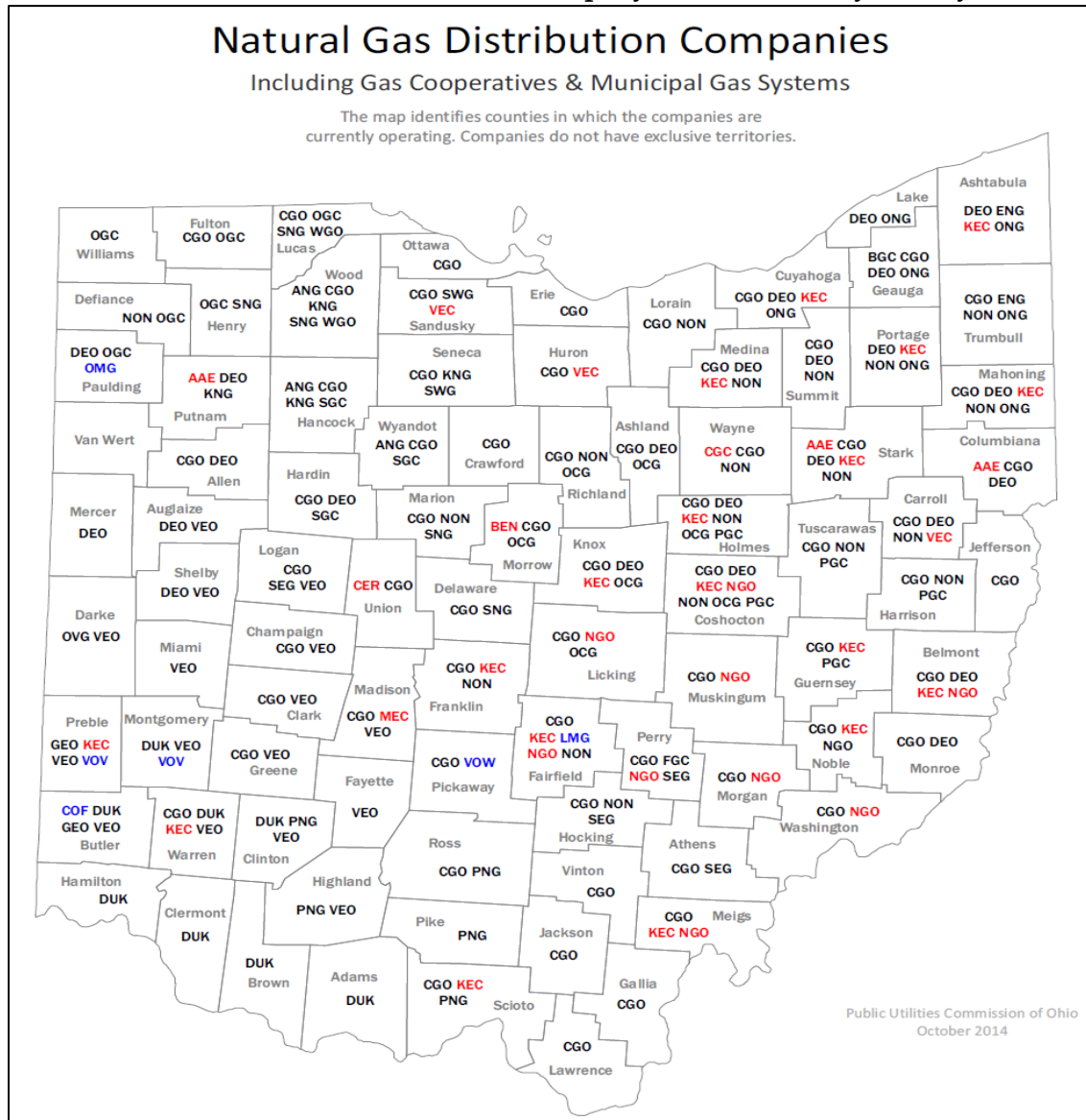
Gas delivery service to LDCs and end-use customers taking service directly from an interstate pipeline is provided by companies regulated by the Federal Energy Regulatory Commission ("FERC"). Multiple interstate natural gas pipeline companies have delivery facilities in various parts of the state. That said, LDCs and end-use customers taking service off of the interstate system in some parts of Ohio face constraints in contracting for incremental firm transportation service. (See later section on "Current and Proposed Ohio Gas Infrastructure.")

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<sup>20</sup> IHS Consulting, "America's New Energy Future: The Unconventional Oil and Gas Revolution and the U.S. Economy," Volume 3 A: Manufacturing Renaissance Main Report, September 2013, page 2.

<sup>21</sup> IHS Consulting's analysis presents a dynamic analysis of energy prices and manufacturing activity. This is different than other studies that do not capture these dynamic interactions: see, for example, Ohio Department of Job and Family Services, "2012 Ohio Job Outlook: Employment Projections, Appendix Table C," <http://ohiolmi.com/proj/projections.htm>.

**Figure 10**  
**Ohio's Local Gas Distribution Company Service Areas by County**



Source: PUCO (data as of October 2014) Key:

**PUCO REGULATED COMPANIES (22)**

- |                                    |  |                                  |                               |
|------------------------------------|--|----------------------------------|-------------------------------|
| ANG - Arlington Natural Gas Co.    | BGC - Brainerd Gas Corp.               | CGO - Columbia Gas of Ohio, Inc. | DEO - Dominion East Ohio      |
| DUK - Duke Energy Ohio (Gas)       | ENG - Eastern Natural Gas              | FGC - Foraker Gas Co.            | GEO - Glenwood Energy Oxford, |
| KNG - KNG Energy, Inc.             | NON - Northeast Ohio Natural Gas Corp. | OCG - Ohio Cumberland Gas Co.    | OGC - Ohio Gas Co.            |
| OVG - Ohio Valley Gas Corp.        | ONG - Orwell Natural Gas Co.           | PGC - Piedmont Gas Co.           | PNG - Pike Natural Gas Co.    |
| SGC - Sheldon Gas Co.              | SEG - Southeastern Natural Gas Co.     | SNG - Suburban Natural Gas Co.   | SWG - Swickard Gas Co         |
| VEO - Vectren Energy Delivery Ohio | WGO - Waterville Gas and Oil Co.       |                                  |                               |

**COOPS (8)**

- |                             |                                      |                                      |                               |
|-----------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| AAE - All American Energy   | BEN - Bright Energy                  | CER - Community Energy Resource Coop | CGC - Consumers Gas Coop      |
| KEC - Knox Energy Coop Assn | MEC - Madison Energy Coop Assn. Inc. | NGO - National Gas and Oil Coop      | VEC - Village Energy Coop Ass |

**MUNICIPAL GAS SYSTEMS (5)**

- |                               |                               |                             |                         |
|-------------------------------|-------------------------------|-----------------------------|-------------------------|
| COF - City of Hamilton        | LMG - Lancaster Municipal Gas | OMG - Oakwood Municipal Gas | VOV - Village of Verona |
| VOW - Village of Williamsport |                               |                             |                         |

## Natural Gas Demand in Ohio

Within Ohio (like the U.S. as a whole), natural gas represents an important resource for residential home heating and cooking, commercial processes and heating needs, and large-scale industrial manufacturing processes. As such, Ohio tends to use natural gas in ways similar to the rest of the U.S., except for power generation.

To understand changes in customer demand for natural gas and as part of its long-term planning process, PUCO periodically prepares a 20-year forecast of energy requirements. The most recent report, issued in March 2012 and using data through 2010, was developed at a time when the nation had begun to realize falling natural gas prices and increasing demand for and supply of natural gas. At that time, the PUCO recognized the potential of access to increasing quantities of natural gas to benefit Ohio:

As production from these resources continues to escalate, downward pressure on prices is expected to persist as storage inventories reach unprecedented levels and supply continues to outstrip demand in the short to medium term... As Ohioans benefit directly from shale gas extraction through low prices, the state also benefits from direct investment in traditionally economically depressed regions and through indirect macroeconomic benefits, both upstream and downstream from the shale plays.<sup>22</sup>

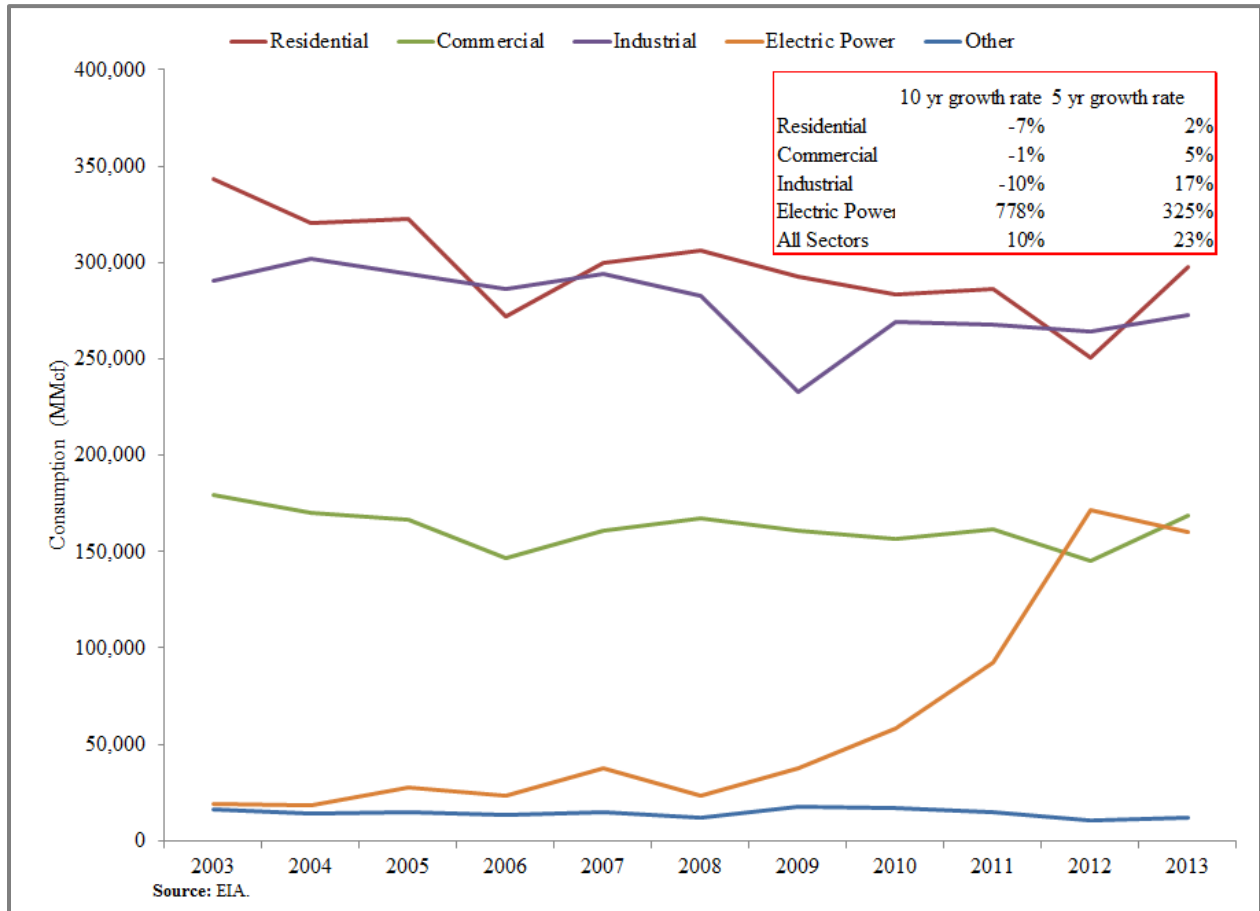
Figure 11 summarizes Ohio's historical natural gas usage by end-use sector. Ohio has experienced relatively flat and even slightly negative growth in residential, commercial, and industrial use of natural gas over the past decade, due to both increases in end-use efficiency and sensitivity to weather conditions.<sup>23</sup> Since 2010, however, actual consumption by these end-user sectors increased relative to the forecast developed by the PUCO. Falling prices and increased availability have helped to address the 'singularity' concern raised by PUCO in its 2012 forecast.

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<sup>22</sup> PUCO, "Ohio Long Term Forecast of Energy Requirements 2011-2030", March 31, 2012 (hereafter "PUCO 2012 Energy Forecast"), pages 10-11: "While these developments appear to have the characteristics of a singularity as that term is used herein, the power of the forecast methodology employed by staff lies in its ability to recognize and project long-term trends. While the significant potential that exists as a result of the natural gas phenomenon is indisputable, it is not yet established as influencing the historical observations upon which long-term trends are based. It is simply too early." Note a definition of singularity: "The everyday English definition of Singularity is a noun that designates the quality of being one of a kind, strange, unique, remarkable or unusual," <http://www.singularitysymposium.com/definition-of-singularity.html>.

<sup>23</sup> PUCO 2012 Energy Forecast, page 43.

**Figure 11**  
**Historical Natural Gas Consumption in Ohio, by End-User**



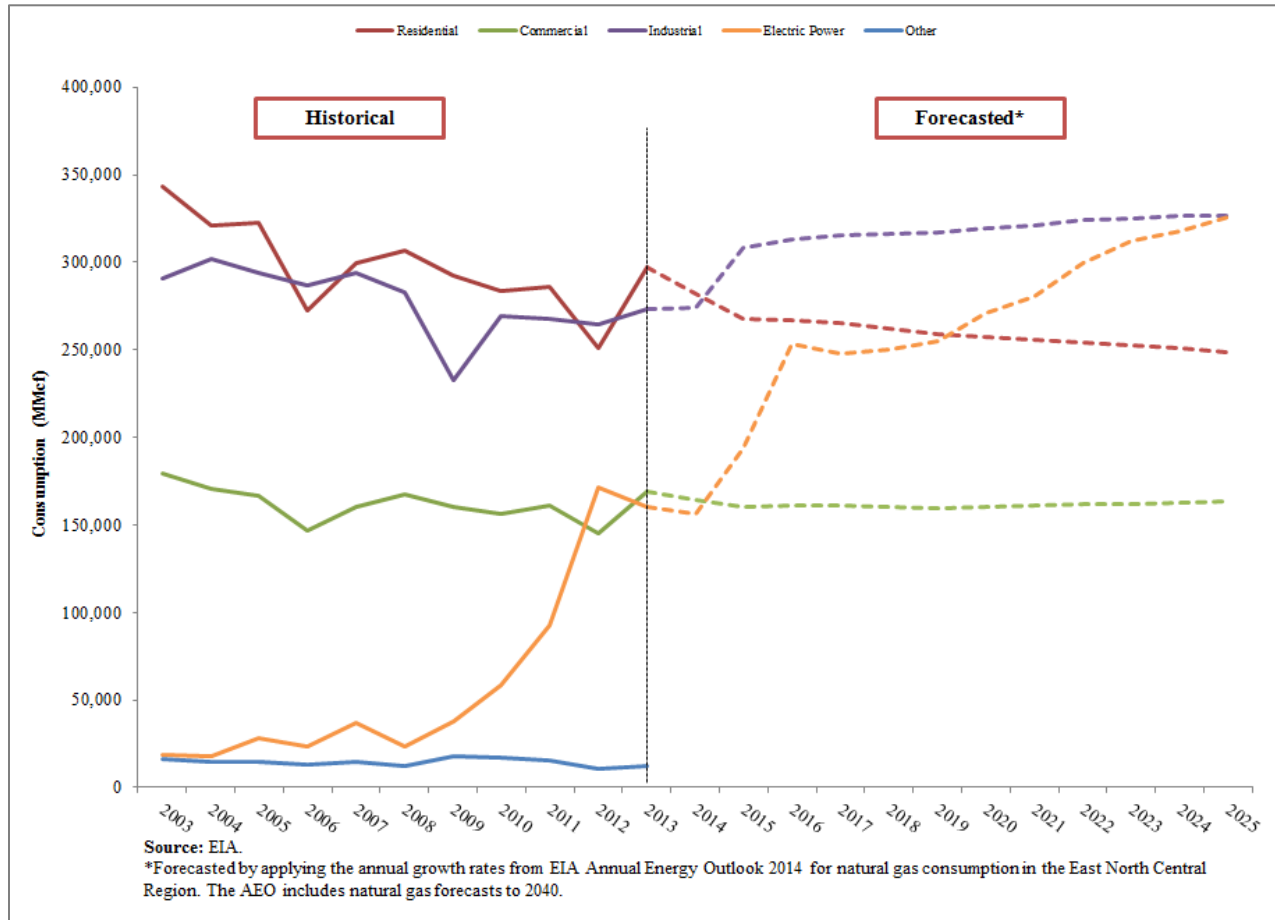
By contrast, the electric sector has seen a dramatic rise in use of natural gas (as explained in greater detail, below). Taking into account natural gas usage across all sectors, Ohio’s natural gas consumption has actually increased 10 percent in the past decade, and 23 percent in the past five years in large part due to power sector use of gas.

The U.S. Energy Information Administration (“EIA”) anticipates continued growth in demand for natural gas in Ohio – also largely reflecting future usage from electric power producers as



well as Ohio’s industrial users. Figure 12 shows forecasted natural gas demand by end-user and in total, respectively.<sup>24</sup>

**Figure 12**  
**Historical and Forecasted Natural Gas Consumption in Ohio by Source**



These demand forecasts are based on regional growth rates, which do not necessarily account for the unique characteristics of Ohio. For example, residential demand is forecasted to decline slightly over the foreseeable future. According to PUCO,<sup>25</sup> this trend is usually attributed to increased end-use efficiency within households and not a reduction in the number of customers.

<sup>24</sup> Forecasts are based on the estimated annual growth rates for the East/North Central Region from the EIA 2014 Annual Energy Outlook. PUCO is expected to release its updated Long Term Forecast at some point during the 2<sup>nd</sup> Quarter of 2015. At the time of this writing, it was not available.

<sup>25</sup> PUCO 2012 Energy Forecast, page 43.

Within Northern Ohio, natural gas is the most utilized home heating source, and more homes on average use natural gas for heating needs than in the State as a whole (81 percent on a population weighted basis to 74 percent state-wide). This is driven primarily by counties in the Cleveland and Toledo metro areas, including Lucas, Lake, Cuyahoga, and Summit. However, many households still use a heating source other than natural gas, such as electricity or home heating oil. With greater access to relatively low-cost natural gas, some portion of these households may choose to switch.<sup>26</sup> To promote fuel-switching, some regional LDCs, such as Columbia Gas of Ohio (“CGO”) in Northern Ohio, offer instant discounts and rebates of several hundred dollars for the purchase of efficient natural gas furnaces.

A large number of homes that use home heating oil are located in Northern Ohio (see Table 1 and Figure 10). For example, an additional 75,700 homes could switch to natural gas.<sup>27</sup> This includes a number of counties in the Cleveland metro area, such as Medina, Summit and Erie. Doing so would require an additional 6.28 Bcf of natural gas on an annual basis.<sup>28</sup> Because the price of distillate fuel oil is expected to remain high relative to natural gas prices, switching may be economical for many of these households who would then enjoy economic benefits from access to low-cost gas supply and delivery. Notably, this example likely underestimates the total potential demand from fuel switching, because it does not consider any of those homes above the 81 percent average that currently do not use natural gas. Accounting for these homes, incremental new demand could be much higher. For example, 91 percent of homes in Summit County (the second largest of Ohio’s counties by population) use natural gas for home heating. At this ratio, up to 180,000 houses could switch to natural gas, with incremental demand of 14.94 Bcf per year.

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<sup>26</sup> One study found that Ohio customers saved a total of \$1.5 billion on their natural gas bills due to suppressed prices in 2010. See, “The Economic Impacts of US Shale Gas Production on Ohio Consumers,” Continental Economics, Inc., sponsored by Industrial Energy Users-Ohio, January 2012, page EX-4.

<sup>27</sup> This calculation is based on an assumption that residents in any county having less gas heating in homes than the 81-percent average among Northern Ohio counties would convert at levels to achieve the 81-percent average of all Northern Ohio homes that use natural gas.

<sup>28</sup> Assuming average annual household consumption of 83 Mcf. See: EIA, Residential Energy Consumption Survey, 2009. Note that Ohio and Indiana are reported together.

**Table 1**  
**Percent of Occupied Household Heating Fuel/Energy Source (2010)**  
**Select Counties in Northern Ohio**

County	Natural Gas	Oil Heating	Electric	Other	Number of Households
Jefferson	52%	15%	26%	7%	32,826
Belmont	56%	15%	23%	7%	32,452
Geauga	60%	12%	17%	11%	36,574
Columbiana	56%	12%	26%	7%	47,088
Ashtabula	66%	8%	16%	10%	46,099
Portage	70%	7%	19%	4%	67,472
Wayne	68%	6%	19%	7%	45,847
Trumbull	80%	6%	11%	3%	96,163
Richland	72%	4%	21%	4%	54,599
Tuscarawas	72%	3%	21%	4%	40,206
Stark	83%	3%	12%	3%	165,215
Mahoning	83%	3%	12%	3%	111,833
Medina	80%	2%	14%	4%	69,181
Lake	86%	2%	11%	1%	101,202
Lorain	80%	1%	17%	2%	127,036
Summit	91%	1%	7%	1%	245,109
Hancock	75%	1%	20%	4%	33,174
Erie	73%	1%	23%	3%	37,845
Lucas	85%	1%	13%	1%	202,630
Cuyahoga	86%	0%	12%	2%	621,763
Wood	83%	0%	15%	2%	53,376

Notes & Sources:  
[1] Data are not available for every county in the Northern Ohio Nexus Corridor.  
[2] Percentage of heating source for households represents the portion of occupied homes that are heated by the corresponding fuel/energy source.  
[3] 2010 Census data, General Housing Characteristics, Table GCT-H2.

Neither the PUCO nor the EIA forecast demand specifically in Northern Ohio. But based on the demand forecasts shown in Figure 12 for the entire state of Ohio, the total annual residential, commercial and industrial demand for natural gas in Northern Ohio could approach 400 Bcf/year by 2018.<sup>29</sup> Relative to 2014 totals of gas consumption, the industrial, commercial, and

<sup>29</sup> Northern Ohio demand from traditional gas-market customers is estimated as total annual demand in Ohio multiplied by the proportion of total residents (residential demand), proportion of non-manufacturing establishments (commercial demand), and the proportion of manufacturing establishments (industrial demand)

residential sectors in Northern Ohio could require at least an additional 12 Bcf/year, with the majority (if not all) of this demand requiring firm service. Also taking into account the additional demand of power plant conversions and new builds, demand in 2018 would be approximately 500 Bcf per year and the incremental demand would be approximately 115 Bcf per year in Northern Ohio.

#### **4. EXISTING AND FORECASTED NATURAL GAS DEMAND FROM OHIO'S POWER SECTOR**

Natural gas demand for power generation in Ohio has increased substantially in the past five years, driven by falling prices for natural gas relative to coal and by environmental requirements to reduce mercury and air toxics emissions from existing power plants. Such trends are likely to continue, especially given future requirements that fossil-fuel power plants reduce their carbon dioxide (“CO<sub>2</sub>”) emissions. Given the structure of the electric industry in Ohio, power-sector demand for natural gas is tied to activities within a larger region, as explained further below.

##### **Ohio's Wholesale and Retail Electricity Markets: A Brief Overview**

Ohio has a fully deregulated residential energy market, with retail choice for both electric and natural gas service. As a result of its electric industry restructuring that began in the late 1990s, Ohio eventually required investor-owned utilities to put their wires functions (i.e., distribution and transmission) and their power-generation functions (i.e., power plants) into distinct business units. Ohio's four investor-owned utilities (AEP Ohio, FirstEnergy, Duke Energy Ohio, and Dayton Power and Light) provide wires service to more than 90 percent of all electric consumers, with the rest served by cooperative and municipal electric companies.<sup>30</sup> Now that these investor-owned utilities no longer own generation but still provide default service to many customers, they must purchase electricity produced by the multi-state wholesale electricity market, operated by the PJM Interconnection, Inc. (“PJM”). That same regional power market is the one in which power plants in Ohio participate to supply power.

The PJM wholesale power market (shown in Figure 13) is the largest in the country, in terms of total electric generating capacity. PJM covers all or part of 13 states and the District of

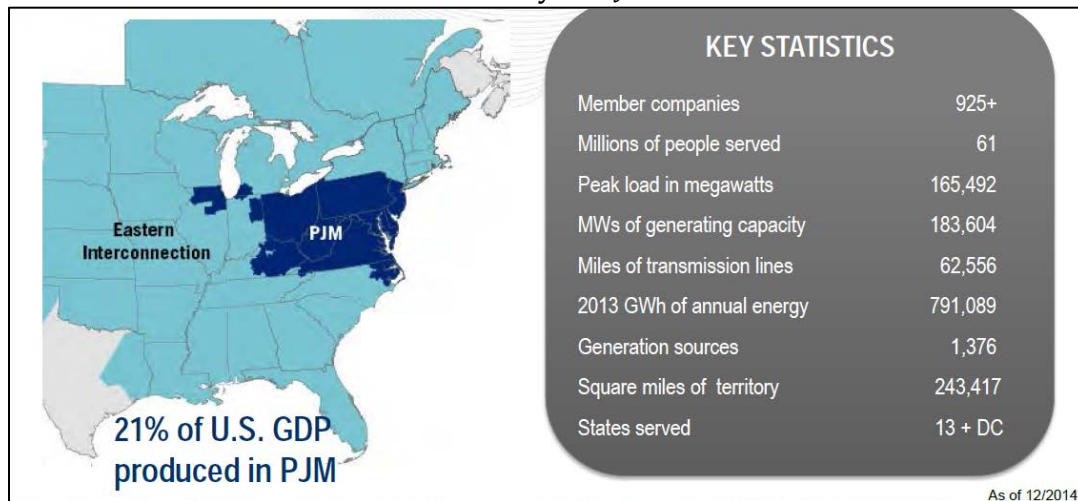
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located in Northern Ohio counties. Population values are from the U.S. Census. Establishment data are from the U.S. Census County Business Patterns. GDP data by industry are from the BEA regional data.

<sup>30</sup> Based on EIA 861 data, 2012 for bundled and delivered electricity service. See also Figure 10.

Columbia. Power plants within the PJM footprint (along with power imported from neighboring regions) are dispatched to meet the electrical energy requirements of customers in the PJM area (as well as exports of power to neighboring regions).<sup>31</sup> Accordingly, electricity customers in Ohio derive their power supply from the entire region, and power plants in Ohio similarly support power supply to the entire region.

**Figure 13**  
**Summary of PJM<sup>32</sup>**



Source: PJM, “Evolution of Supply: Managing the Evolving Fuel Mix in Markets and Operations,” February 2015.

Within PJM, Ohio is the largest PJM state as measured by total load.<sup>33</sup> Ohio accounts for nearly 10 percent of all power production, but historically, Ohio has been a net importer of electricity from PJM, with in-state generation equal to about 85 percent of its total electric demand. As

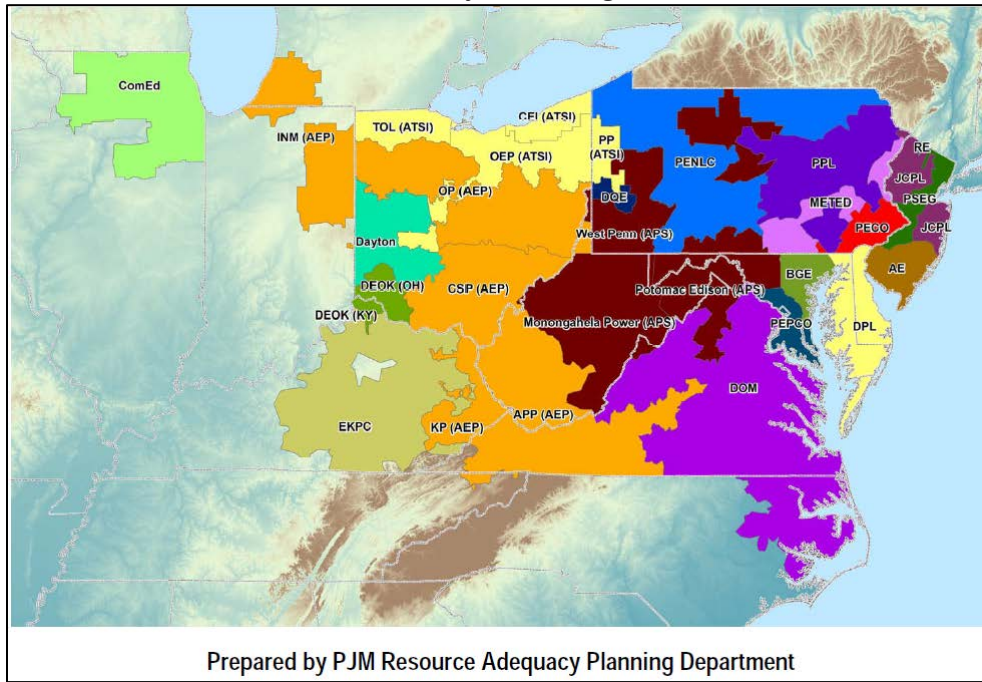
<sup>31</sup> As a Regional Transmission Operator (“RTO”), PJM administers the transmission tariffs of wires companies in the region, as well as competitive market for electric energy and capacity. PJM is responsible for ensuring the reliability of the electric power system. As part of these functions, PJM dispatches electric generators in real time to meet system demand using a “security constrained economic dispatch” model. This ensures that the most efficient and lowest-cost resources are dispatched with priority to meet system energy needs, subject to transmission security and other operational reliability constraints, taking into account limitations on dispatch that result from electric transmission constraints within PJM and between PJM and neighboring regions. As part of this process, generating resources (as well as demand-side resources) bid into the market for the right to be dispatched and supply power in specific hours, with those bids largely based on each unit’s marginal cost of production. Each generating unit’s marginal cost of production reflects unit-specific variable operating costs (including fuel costs and operating and maintenance costs) to run the unit, as well as the operating efficiency of the plant (also known as the heat rate – which reflects the energy requirement to produce a kilowatt-hour of electricity, or Btu/KWh).

<sup>32</sup> PJM, “Evolution of Supply: Managing the Evolving Fuel Mix in Markets and Operations,” February 2015.

<sup>33</sup> Comments Submitted on Behalf of the PUCO, filed December 1, 2014, Carbon Pollution Emission Guidelines for Existing Stationary Sources Electric Utility Generation Units. EPA-HQ-OAR-2013-0602, page 4.

illustrated in Figure 14, Ohio is situated on the western half portion of the PJM market. Power plants and customer loads in Northern Ohio are served by two zones: the “ATSI” (American Transmission Systems, Inc.) transmission and capacity zone, and the “OP/AEP” (Ohio Power/American Electric Power Company, Inc.) zone.

**Figure 14**  
**PJM Territory, Showing Zones**



Source: PJM, “Load Forecast Report,” February 2014.

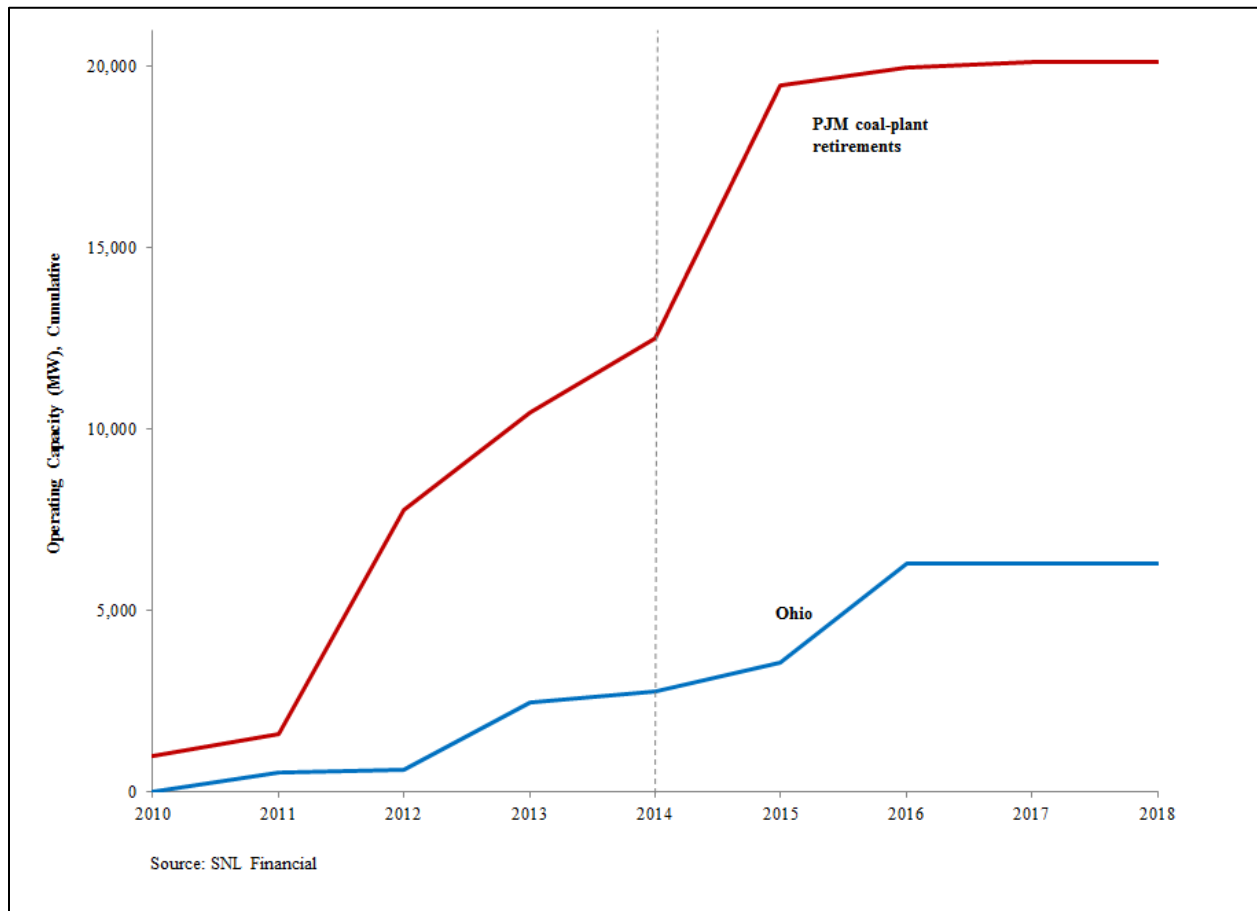
### The Changing Power Generation System in Ohio

Across the full PJM footprint, coal-fired power plants constituted 40 percent of the system’s total generating capacity of approximately 215,000 MW (as of 2012). Currently, more than 9,000 MW (approximately five percent of total PJM operating capacity) of coal-fired capacity is expected to retire by between 2014 and 2018.<sup>34</sup> When a power plant intends to retire, it no longer participates in PJM’s forward capacity market, thus freeing up greater opportunity for other power plants (including new ones seeking to enter the market) to supply power in subsequent years.

<sup>34</sup> SNL Financial. Notably, these numbers do not include any potential retirements that may arise as a result of the need for power plant owners to comply in the future with the U.S. Environmental Protection Agency’s proposed Clean Power Plan (as of 2020). See the discussion in the following section.

In 2012, these power plants that are expected to retire accounted for 20 million MWh of generation, equal to 3 percent of the total PJM electricity generated. These retirements include seven Ohio power plants (where a total of 19 separate generating units will retire). (See Figure 15.) These seven Ohio plants represent 3,525 MW of capacity, and will retire by 2016. In 2012, these Ohio generating units accounted for nearly six percent of Ohio’s total electricity production (equal to seven million MWh).<sup>35</sup>

**Figure 15**  
**Actual and Announced Coal Retirements (2010-2014, 2015-2018):**  
**PJM and Ohio**



These retirements – in Ohio and PJM more broadly – are occurring for several reasons. First, many early retirements (more than half of the capacity noted above retired as of the end of 2014) were driven by economic pressures from relatively low natural gas prices, low or no load

<sup>35</sup> SNL Financial.

growth, and the inefficiencies of smaller, older generating units.<sup>36</sup> Second, other units have announced retirements in 2015 and 2016, likely in response to requirements under the Mercury Air Toxics Standards (“MATS”) rule, which went into effect on April 16, 2015.<sup>37</sup>

These retirements will be replaced by a diverse set of resources, with incentives from both the wholesale markets and State policies. Ohio’s energy plan, authorized in 2012 under Senate Bill 315 (“SB315”), includes a number of policies to support a diverse mix of reliable, low-cost energy sources. That bill included both a renewable portfolio standard (“RPS”), requiring 12.5 percent of the State’s energy to come from renewable resources by 2027, and an alternative energy portfolio standard (“AEPS”), requiring an additional 12.5 percent to come from any process (including coal-to-natural-gas conversions) that increases output without additional CO<sub>2</sub> emissions.<sup>38</sup>

The PJM region has experienced a large quantity of proposals to construct new gas-fired (and other) generating capacity additions. There are also many proposals to repower existing coal-fired generating facilities with natural gas. Since 2010, the PJM region has attracted more than 25,000 MW of new capacity, 70 percent of which are highly efficient, new natural-gas combined-cycle power plants, which can be dispatched to meet base load power needs throughout the year. (See Figure 16.)

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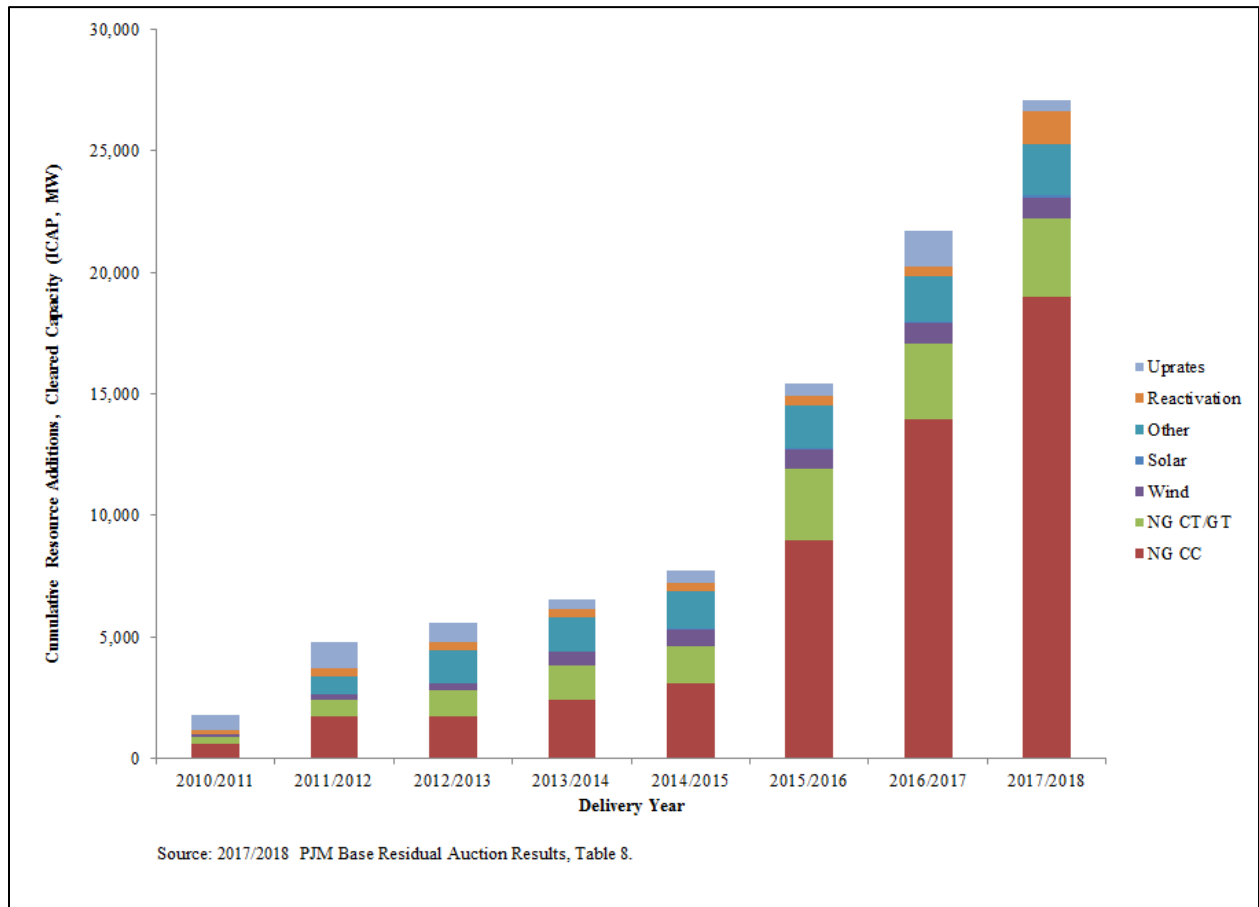
<sup>36</sup> See: Susan Tierney, “Why Coal Plants Retire: Power Market Fundamentals as of 2012,” March 2012.

<sup>37</sup> Power plants not in compliance with the emissions standards for mercury and other toxic air pollutants must retire by May 2015, unless they received extensions for reliability or other reasons.

<sup>38</sup> For a description of the AEPS, see North Carolina Clean Energy Technology Center, DSIRE Database. Ohio Alternative Energy Portfolio Standard. As part of this law, the Governor offered strong support for and encouraged conversions of coal-fired power plants to natural gas. For a description of the Governor’s support, see “SB 315: Ohio’s Energy Policy,” available at: <http://governor.ohio.gov/>.



**Figure 16**  
**PJM New Capacity, Base Residual Auction Results, 2010 to 2018**



The expected capacity additions in Figure 16 include power plants that have cleared in recent capacity auctions. (For example, the auction for the 2017/2018 delivery year was held in 2014.) Recent filings with the Ohio Power Siting Board (“OPSB”) and the PJM interconnection queue indicate that more resources are under development in Ohio than have cleared so far in PJM’s capacity markets, and these new projects could be offered in future capacity auctions. Several of these resources are located in Northern Ohio.

### Regional Markets and Proposed Carbon Air Pollution Regulations

In June 2014, the U.S. Environmental Protection Agency (“EPA”) proposed regulations under Section 111(d) of the Clean Air Act, under which CO<sub>2</sub> emissions from existing power plants

would be regulated after 2020.<sup>39</sup> Because coal-fired power plants have relatively high CO<sub>2</sub> emissions, the new regulations are likely to affect the level of output from some coal-fired power plants, and may also lead to further retirements of coal-fired power plants in upcoming years.

PJM has begun to consider how these EPA regulations might impact power plant dispatch and power flows within the region. In a series of analyses,<sup>40</sup> PJM evaluated the likely dispatch of existing and new resources under several scenarios. These scenarios assumed different levels of renewable energy and energy efficiency within each state. For Ohio, this included the state's AEPS and energy-efficiency goals. PJM also included all existing fossil-fired resources, and the addition of 14,500 MW of known resources that are commercially feasible given their current status.<sup>41</sup>

PJM found that under all scenarios, a multi-state, mass-based approach minimized overall compliance costs, and that increasing levels of new natural-gas-fired capacity (and renewable energy and energy efficiency) could improve the economics of existing steam-fired power plants.<sup>42</sup> PJM found that the majority of likely power-plant retirements are in the western part of PJM, while the majority of new project entry is located in the eastern portion of PJM. As a result, westward power flows have the potential to increase congestion costs and increase

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<sup>39</sup> Under the proposed Clean Power Plan, each state is required to meet interim target CO<sub>2</sub>-emission rate (averaged during a 2020-2029 period) and final CO<sub>2</sub> emission rate targets (by 2030) for those fossil fueled power plants located within the state's borders. States must file individual State Plans by mid-2016, with a possible one year extension through 2017. Under the EPA's proposal, states will be granted considerable flexibility in how they meet these proposed targets, including the option to form a multi-state region and submit a multi-state plan to reduce emissions across the relevant states. Multi-state plans are due by June 2017 with a one year extension possible to June 2018. See, for example: Susan Tierney, Paul Hibbard and Craig Aubuchon, "Electric System Reliability and EPA's Clean Power Plan: The Case of PJM," March 16, 2015; Susan Tierney, Paul Hibbard and Craig Aubuchon, "Electric System Reliability and EPA's Clean Power Plan: Tools and Practices," February 2015.

<sup>40</sup> PJM released its final economic analysis of the EPA Clean Power Plan on March 2, 2015 ("PJM Interconnection Economic Analysis of the EPA Clean Power Plan Proposal, March 2, 2015", hereafter "PJM Economic Analysis"). See, for example, PJM's November 11-2014 presentations to its Members Committee on the analyses it had underway on the carbon rules (see Item 03). Later updates included: Paul Sotkiewicz and Muhsin Abdur-Rahman, "EPA's Clean Power Plan Proposal: Review of PJM Analyses Preliminary Results," presented to the Members Committee Webinar, November 17, 2014 (hereafter, "PJM Preliminary Analyses"); Transmission Expansion Advisory Committee, January 7, 2015 (hereafter, "PJM Transmission Committee Analyses"); Muhsin K. Abdur-Rahman and Paul Sotkiewicz, "PJM's Economic and Reliability Analysis of the EPA's Clean Power Plan (CPP)," presented to the Members Committee Webinar, January 20, 2015 (hereafter, "PJM At-Risk Analysis").

<sup>41</sup> PJM Economic Analysis, Appendix A1, page 99. Specifically, PJM included resources with a completed Interconnection Services Agreement and/or Facilities Services Agreement. PJM notes that the commercial likelihood of these projects is greater than 70 percent and 50 percent, respectively. PJM Risk-Analysis, page 20.

<sup>42</sup> See broadly, PJM Economic Analysis, pages 6-7.

electricity prices in the western region.<sup>43</sup> Similarly, in scenarios with individual state compliance approaches, net importing States – like Ohio – must dispatch less-efficient and more-expensive in-state resources.<sup>44</sup>

These modeling results suggest that in the future, Ohio will need to meet a larger proportion of its in-state generation, and it will increasingly need to do so using highly efficient and low-emitting power sources (such as natural gas-fired units).

## Changes in Ohio Electric Markets

Over the next ten years, both PUCO and PJM anticipate increased electricity demand in Ohio, and specifically, in the Northern Ohio region. In 2012, PUCO estimated that demand would grow at more than 0.5 percent per year, and total demand would increase more than 18.8 million MWh between 2010 and 2030.<sup>45</sup> This represents a 12-percent increase in total demand relative to 2010. Similarly, in its most recent forecast, PJM found that load growth for the entire RTO was expected to increase 0.90 percent per year until 2030, adding almost 110,000 MWh during that period. The ATSI region, which covers all of Northern Ohio (as shown in Figure 15), is predicted to grow at a 0.7 percent average annual rate and add almost 7,000 MWh during that period.<sup>46</sup>

As recently as 2010, Ohio met almost 95 percent of its energy needs from coal, with natural gas beginning to show up as an increasing but still relatively small percentage of power generation. Within PJM, only West Virginia, Kentucky, and Indiana generated a higher proportion from this resource. (See Table 2.) The trend toward greater reliance on natural-gas-fired generation (shown in Figure 17) is likely to continue (and deepen), in light of anticipated retirements of coal-fired power plants in Ohio. (Table 3 lists the existing generating resource mix in the state.)

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<sup>43</sup> PJM Transmission Committee Analyses, page 65.

<sup>44</sup> PJM At-Risk Analysis, page 8.

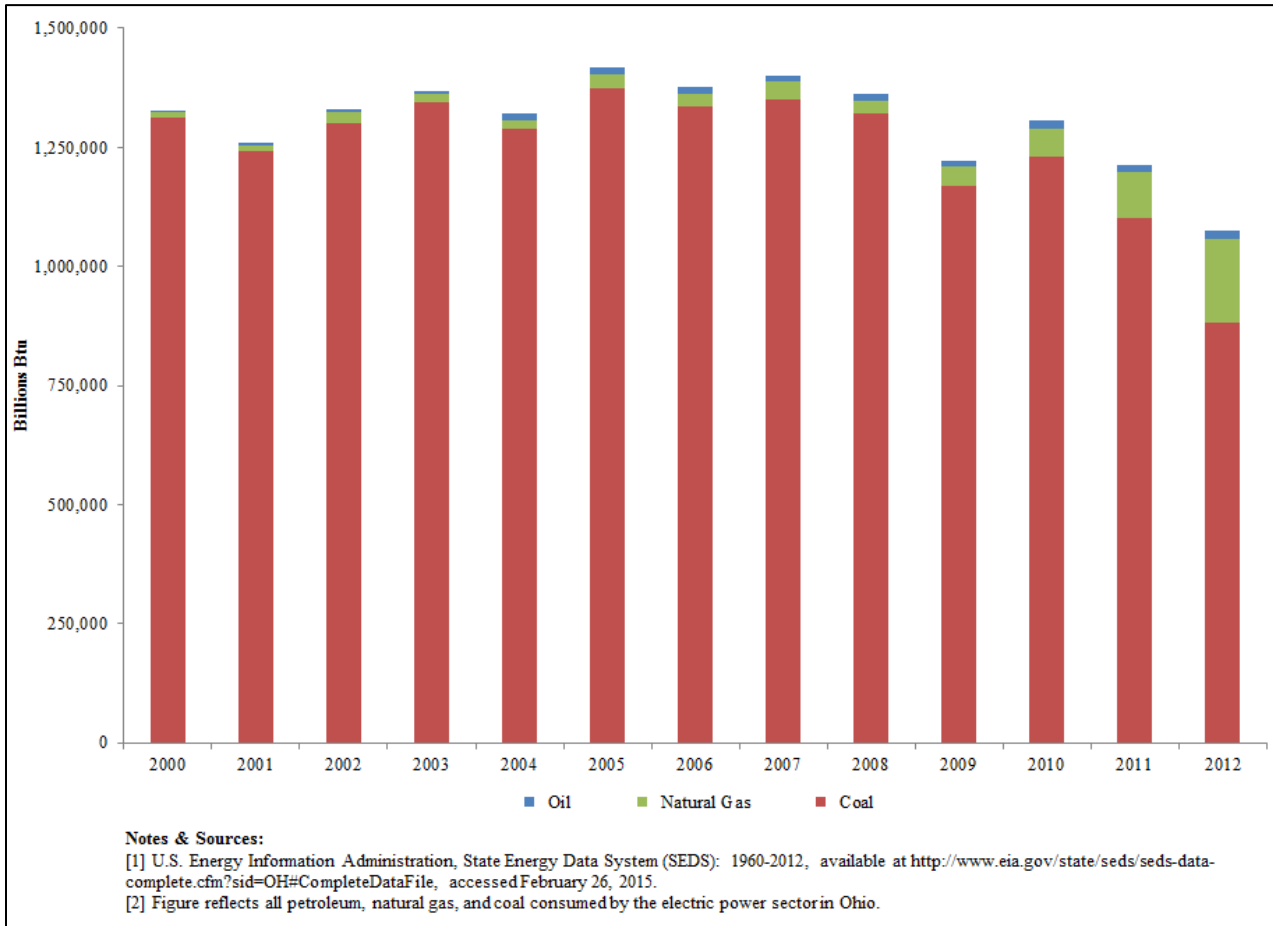
<sup>45</sup> The PUCO estimated that growth would be approximately evenly split between the Residential (0.53-percent compound annual growth rate (“CAGR”), 6.4 million MWh), Commercial (0.66-percent CAGR, 6.9 million MWh) and Industrial (0.47-percent CAGR, 5.5 million MWh) sectors.

<sup>46</sup> These load forecasts already account for the energy-efficiency goals set out by the State, which require Ohio electric utilities to reduce energy sales by 22 percent by 2027 relative to a 2009 baseline. Senate Bill 221 established the Energy Efficiency Resource Standard. See generally, <http://programs.dsireusa.org/system/program/detail/4542>.

**Table 2**  
**Percent of Generation by Fuel: U.S., PJM, and the States in PJM**  
**(Ranked by Dependence on Coal as a Share of Total Generation in 2012)**

	Coal	Nuclear	Natural Gas	Hydro, Wind, Biomass, Solar, Geothermal	Other
West Virginia	96%	0%	0%	4%	0%
Kentucky	94%	0%	3%	3%	0%
Indiana	82%	0%	12%	4%	3%
<b>Ohio</b>	<b>67%</b>	<b>13%</b>	<b>17%</b>	<b>2%</b>	<b>1%</b>
Michigan	47%	25%	21%	6%	0%
Tennessee	45%	32%	10%	12%	0%
PJM	44%	33%	18%	3%	1%
North Carolina	44%	34%	17%	5%	0%
Maryland	44%	36%	5%	7%	8%
Illinois	41%	49%	6%	4%	0%
Pennsylvania	39%	33%	24%	4%	0%
USA	38%	19%	30%	11%	1%
Virginia	17%	38%	33%	11%	1%
Delaware	17%	0%	79%	1%	3%
New Jersey	4%	50%	41%	3%	1%
District of Columbia	0%	0%	87%	0%	13%
Source: SNL Financial					

**Figure 17**  
**Fossil Fuel Use in the Ohio Electric Power Sector, 2000-2012**



**Table 3**  
**Ohio Power Plants by Fuel and Technology Type, 2013**

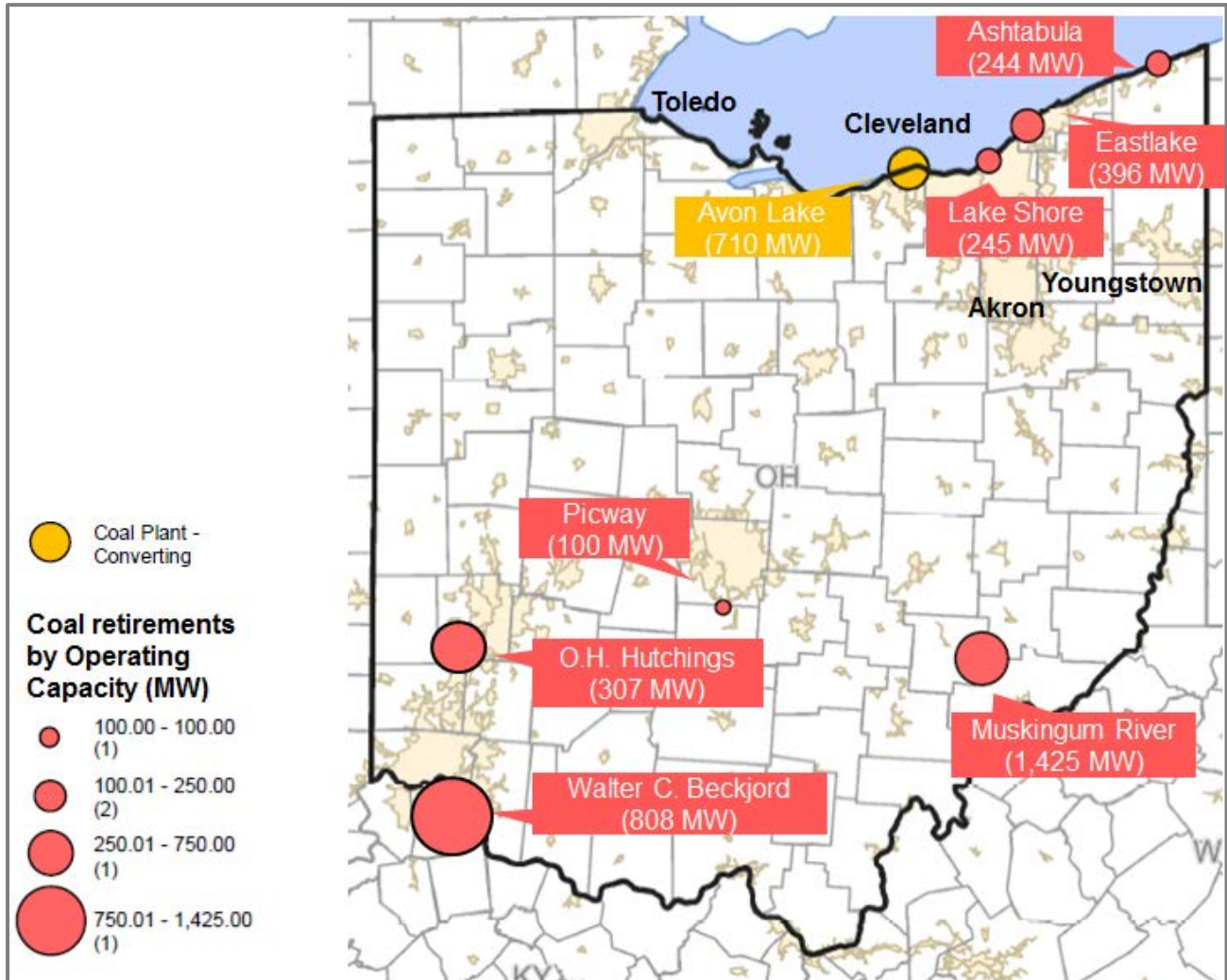
<b>Fuel and Technology Type</b>	<b>Number of Power Plants</b>	<b>Nameplate Capacity (MW)</b>	<b>Operating Capacity (MW)</b>	<b>Net Generation (MWh)</b>	<b>Capacity Factor</b>	<b>Heat Rate (Btu/kWh)</b>
<b>Biomass</b>						
Gas Turbine	1	6	5	5,619	13%	25,126
Internal Combustion	11	83	83	460,061	63%	12,386
Steam Turbine	5	127	119	552,553	53%	33,538
<b>Coal</b>	31	20,478	19,143	96,514,886	57%	10,291
<b>Natural Gas</b>						
Combined Cycle	7	4,414	4,207	20,743,747	56%	7,597
Gas Turbine	25	6,571	6,469	832,774	1%	12,449
Internal Combustion	2	33	32	1,576	1%	9,538
Steam Turbine	2	525	482	54,852	1%	16,593
<b>Nuclear</b>	2	2,237	2,206	16,121,250	83%	-
<b>Oil</b>						
Gas Turbine	12	565	610	-	-	-
Internal Combustion	44	245	238	3,923	0.2%	11,157
<b>Other Nonrenewable</b>						
Steam Turbine	3	121	117	233,750	23%	26,905
<b>Solar</b>	7	31	30	38,217	14%	-
<b>Water Hydro</b>	5	129	108	549,239	58%	-
<b>Wind</b>	7	423	423	1,144,999	31%	-
<b>Notes &amp; Sources:</b>						
[1] SNL Financial power plant database.						
[2] Analysis limited to power plants in Ohio with non-missing generation in 2013.						
[3] Fuel Type is the majority fuel for the power plant.						

Figure 18 depicts the known Ohio coal-plant retirements that have occurred or will occur between 2014 and 2016. The significant number of known and potential retirements in Northern Ohio have posed specific challenges to the operation of the grid. For example, in February 2012, FirstEnergy submitted a deactivation request for 14 units representing 2,705 MW in Ohio, Pennsylvania, and Maryland. This represents one of the largest single deactivation requests received to date, and at that time, PJM identified more than 190 reliability violations. Transmission solutions were immediately identified, and PJM determined that it needed to retain five units in Northern Ohio totaling 885 MW in service through 2015. These units include: Ashtabula 5, Eastlake 1-3, and Lake Shore 18.<sup>47</sup> New natural gas-fired generation has

<sup>47</sup> See: <http://www.pjm.com/planning/generation-deactivation/gen-deactivation-rmr.aspx>. These remained on Reliability Must Run (“RMR”) contracts, for the period through April 15, 2015. Transmission projects were put in place ahead of schedule, and the RMR contracts for all but one generator (Ashtabula) were ended on September 15, 2014.

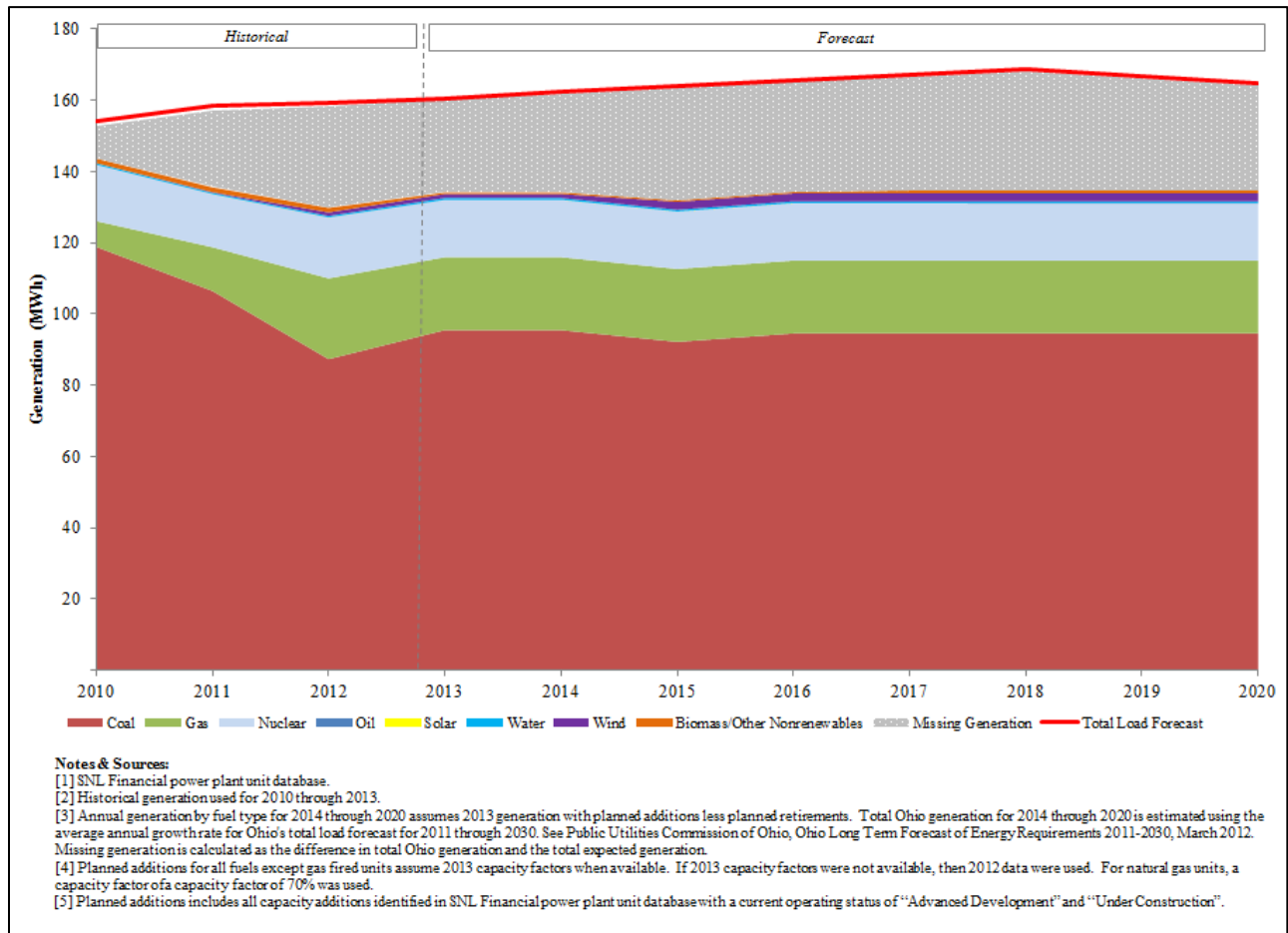
already been approved and is under construction in Northern Ohio to meet this resource adequacy need. (These new resources are described in the next section.)

**Figure 18**  
**Known and Planned Coal Retirements, Ohio 2014-2016**



Taken together, the combination of load growth, generator retirements, and the potential for more expensive (i.e., constrained) PJM imports suggests that by 2017, Ohio may need to replace up to an additional 30 million MWh (shown as “missing generation” on Figure 19, below). While a portion of this will be met through the AEPS, a significant portion will need to be met through new baseload and intermediate load natural gas-fired capacity.

**Figure 19**  
**Ohio Historical and Forecast Electric Supply by Fuel Type, 2010-2020<sup>48</sup>**



<sup>48</sup> This figure assumes that in the future, existing fossil-fuel plants will continue to operate at their historical capacity factors. Over time, however, as more efficient and zero-cost resources are dispatched, existing fossil-fired steam turbines will be expected to provide less energy. To the extent that resources outside of Ohio and within the PJM footprint displace these coal resources, Ohio may be expected to increase its total net imports.



## Demand for Natural Gas for Power Generation in Northern Ohio

### *New Resources*

Ohio is positioned to meet its future electric generation demands, even accounting for known power-plant retirements and future load growth.<sup>49</sup> There are currently seven new natural gas-fired power plant projects (including the Avon Lake coal-to-natural gas conversion) underway and totaling 4,800 MW of new generating capacity in Ohio overall. (See Table 4.)

**Table 4**  
**Planned Generating Units: Ohio**

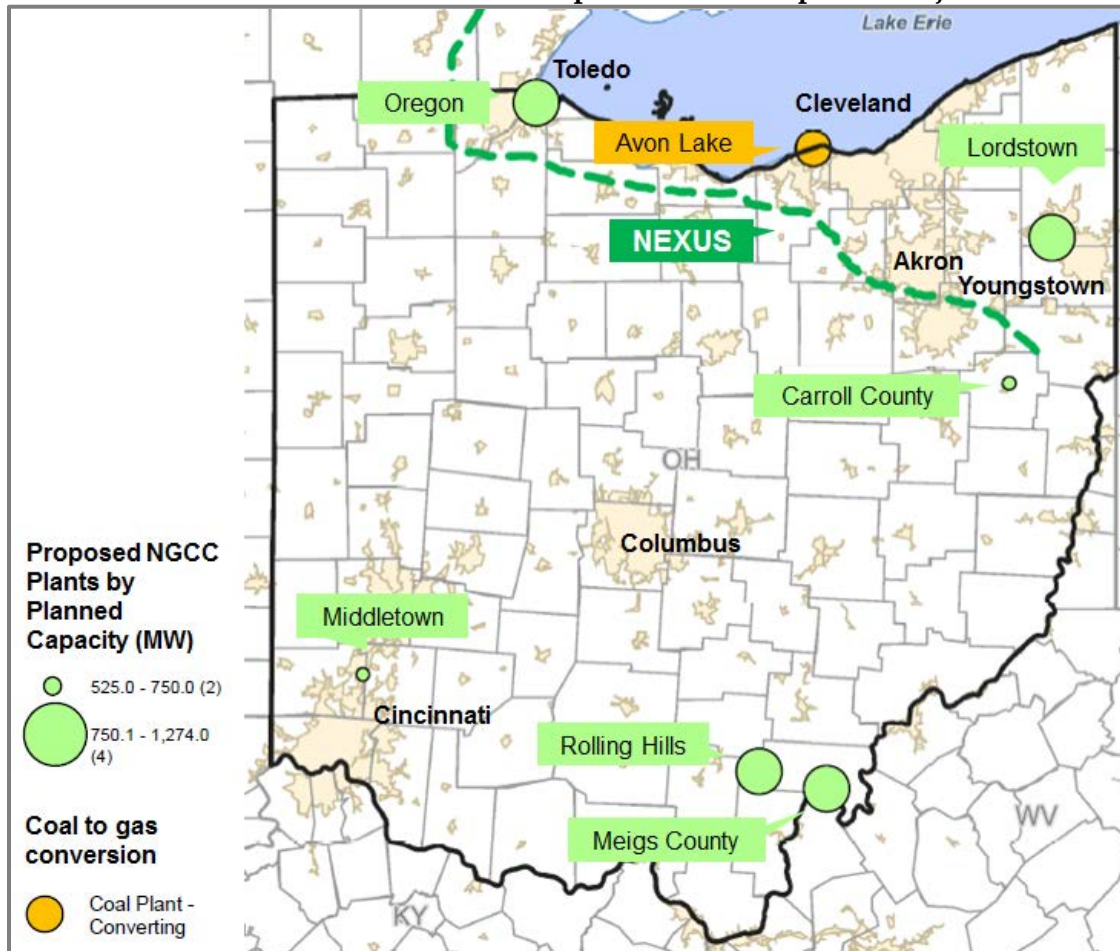
Plant Name	Capacity (MW, Nameplate)	Technology	County	In-Service Date	PJM Status	OPSB Status
<u><i>New Natural Gas Plants</i></u>						
	610 uprate					
Rolling Hills	(1,460 Net)	Combined Cycle	Vinton	Q1 2017	Feasibility	Approved
Oregon Clean Energy Center	799	Combined Cycle	Lucas	Q2 2017	FSA/ISA	Approved
Carroll County Energy Center	742	Combined Cycle	Carroll	Q3 2017	FSA/ISA	Approved
Middletown Energy Center	513	Combined Cycle	Butler	Q2 2018	ISA	Approved
Meigs County	652	Combined Cycle	Meigs	<i>-Delayed</i>	<i>Feasibility</i>	<i>Approved</i>
Lordstown Generating Station	800	Combined Cycle	Trumbull	Q2 2019	Feasibility	Pending
<u><i>Coal to Gas Conversions</i></u>						
Avon Lake	710	Steam Turbine	Lorain			Pending
<b>Notes:</b>						
[1] PJM estimates that the commercial likelihood of units with completed Facility Study Agreements (FSA) and Interconnection Services Agreements (ISA) is 50 percent and 70 percent, respectively.						
<b>Sources:</b>						
[1] Ohio Power Siting Board, Accessed April 2015, available: <a href="http://www.opsb.ohio.gov/opsb/">http://www.opsb.ohio.gov/opsb/</a>						
[2] PJM Interconnection Queue, Accessed April 2015, available: <a href="http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx">http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx</a>						

Given both resource adequacy needs and the location of known retirements (see Figure 18), most of these new natural gas-fired resources (i.e., approximately 3,050 MW) are located in Northern Ohio (Figure 20). These Northern Ohio plants are also the farthest along in their respective development and will be in-service before 2018.

<sup>49</sup> Ohio currently has two nuclear plants (Davis-Besse and Perry) which account for 2,206 MW of current capacity. Perry, located in Lake County in Northern Ohio, is due for relicensing in 2027; this report assumes it will remain in operation beyond then. If it retires then, this would mean the loss of 1,298 MW operating capacity that would need to be replaced.

As shown in Figure 20, the NEXUS Project is relatively close to several of the proposed NGCC and coal-to-gas-conversion projects.

**Figure 20**  
**New Gas-Fired Power Plants in Northern Ohio**  
**Relative to the Route of the Proposed NEXUS Pipeline Project**



PUCO has expressed concern that “the apparent slowdown in growth” of new pipeline development would not be able to support a significant transition to and redispatch of natural gas-fired capacity.<sup>50</sup> The NEXUS Project could provide the capability to address that concern, and help the state transition to a newer and cleaner energy mix.

<sup>50</sup> Comments Submitted on Behalf of the PUCO, filed December 1, 2014, Carbon Pollution Emission Guidelines for Existing Stationary Sources Electric Utility Generation Units. EPA-HQ-OAR-2013-0602, page 68.

Notably, the NEXUS Project represents a new, large-diameter high-capacity resource that, if approved and entered into service, would traverse Northern Ohio relatively close to these new power plants, and could deliver natural gas to such projects on either a firm or non-firm basis. Going forward, the NEXUS Project could support additional natural-gas transportation requests for future, as yet unplanned, expansions of power plants in Northern Ohio.

As shown in Figures 21, the NEXUS route is relatively close to many Northern Ohio generators, including:

- Oregon Clean Energy Center, an 800 MW 2x1 Combined Cycle located in Lucas County;<sup>51</sup>
- Carroll County Energy Center, a 742 MW 2x1 Combined Cycle located in Carroll County;<sup>52</sup>
- Lordstown Generating Station, an 800 MW 2x1 Combined Cycle located in Trumbull County;<sup>53</sup>
- Avon Lake Coal-to-Gas repowering, a 710 MW facility located in Lorain County.<sup>54</sup>

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<sup>51</sup> OPSB 14-1396-EL-BGA. The Oregon Clean Energy Center filed with an application to interconnect to either the ANR TransCanada pipeline or the Panhandle Eastern Pipeline. OPSB staff noted that “the Applicant is considering connection with two gas transmission pipeline companies in the area; the ANR/TransCanada Pipeline Company’s existing lines, which can deliver approximately 390 million cubic feet per day (MMCFD), and the Panhandle Eastern Pipeline Company’s (PEPL) existing lines, which can deliver approximately 330 MMCFD. The Oregon Clean Energy Center would require approximately 135 MMCFD at least 255 days per year, which is approximately 18% to 20% of the total capacity of the two interstate pipelines.” The OPSB also noted that “the procurement of adequate natural gas supplies and pipeline capacity are necessary components for the successful operation of the facility.” (OPSB, “Staff Report Investigation: Oregon Clean Energy Center Case Number 12-2959-EL-BGN,” March 18, 2013, page 6.) As discussed in Section V, the existing pipelines may not be able to adequately meet this demand in all months of the year over the life of the plant. During its initial filing, the Oregon Clean Energy Center indicated that NEXUS – if approved – would remain available as an option for interconnection. (Oregon Clean Energy Center, “Application to the Ohio Power Siting Board for a certificate of environmental compatibility and public need,” January 2013, page 21.)

<sup>52</sup> OPSB 14-2085-EL-BGA and OPSB 13-1752-EL-BGN. The Carroll County Energy Facility is located just 0.4 miles from the Tennessee Gas Pipeline. (See OPSB Docket 13-1752-EL-BGN, Carroll County Energy, “Application of Carroll County Energy, LLC,” filed November 15, 2013, Page 21.) Carroll County Energy indicated that their interconnection request would be filed separately with the OPSB. In the same filing, Carroll County Energy indicated anticipated fuel usage of 5,224 mmBtu/hr. The Tennessee Gas Pipeline may not have sufficient capacity at all times during the year to serve Carroll County.

<sup>53</sup> OPSB 14-2322-EL-BGN. On March 23, 2015, the Lordstown Energy Center filed an updated application, indicating that it was pursuing two gas delivery options that involve the development of new infrastructure.

<sup>54</sup> OPSB 14-1717-GA-BLN. The OPSB filed its Staff Report of Investigation on March 27, 2015. Avon Lake has filed plans to construct, own, and operate a 20-mile pipeline that will connect the plant with existing infrastructure in the village of Grafton.

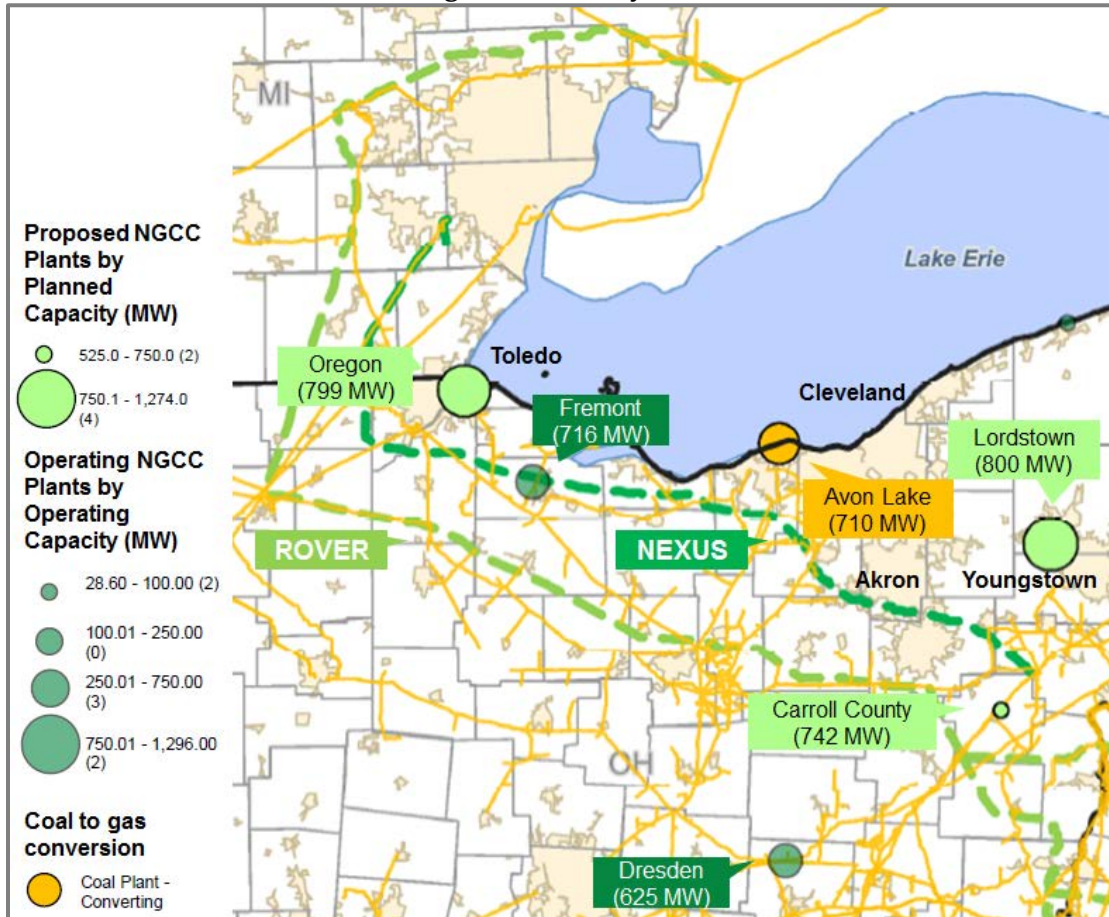
Table 5 shows these power plants' incremental demand for natural gas.

**Table 5**  
**Incremental Gas Demand from**  
**Planned (Known) New Gas-Fired Power Projects Located in Northern Ohio**

Plant Name	Capacity (MW, Nameplate)	Max Gas Demand (BCF/day)	Annual Generation (MWh)	Incremental Gas Demand (BCF/Year)
<i>New Natural Gas Plants</i>				
Oregon Clean Energy Center	799	0.140	4,899,468	35.77
Carroll County Energy Center	742	0.130	4,549,944	33.21
Lordstown Generating Station	800	0.140	4,905,600	35.81
<i>Coal to Gas Conversions</i>				
Avon Lake	710	0.124	4,353,720	31.78
<b>Total</b>		<b>0.53</b>	<b>18,708,732</b>	<b>136.57</b>
<b>Notes:</b>				
[1] Estimates assume a nominal 7,300 Btu/kWh heat rate and a 70% average annual capacity factor.				
<b>Sources:</b>				
[1] Ohio Power Siting Board, Accessed February 2015, available: <a href="http://www.opsb.ohio.gov/opsb/">http://www.opsb.ohio.gov/opsb/</a>				
[2] PJM Interconnection Queue, Accessed February 2015, available: <a href="http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx">http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx</a>				

Although some of these projects have filed interconnection applications to other pipelines, the NEXUS Project could provide optionality for these generators, potentially enabling them to deliver natural gas from alternative sellers and on alternative pipeline systems. Also, some of the other systems may not be able to fulfill requests for firm transportation, and the NEXUS Project could add incremental delivery capacity to these shippers as well as additional supply reliability.

**Figure 21**  
**Map of New Gas-Fired Power Plants in Northern Ohio**  
**Relative to the Proposed NEXUS Pipeline and the Rover Pipeline Routes,**  
**And Existing Gas-Delivery Infrastructure**



Source: SNL Financial

As new power-generation resources with relatively low heat-rates (i.e., high fuel-conversion efficiency) and relatively low CO<sub>2</sub> emissions enter the market, the new natural gas-fired power plants in Northern Ohio will be expected to be dispatched frequently by PJM and operate as base-load capacity to provide energy throughout the year. Ohio (and PJM more generally) will need to operate plants with lower carbon emission more frequently in order to comply with emissions-reduction targets. In the future, these plants may be expected to run at higher capacity factors, with some estimates at higher than 80 percent utilization.<sup>55</sup>

<sup>55</sup> For example, PJM recently found that new natural gas resources would be dispatched at up to an 83.9 percent capacity factor, assuming a regional mass based compliance approach. See PJM Economic Analysis, page 87.

If these natural-gas-fired generating units might be called upon to operate in baseload mode, they would require reliable, firm gas-transportation service on a year-round basis. As discussed in the following section, this incremental demand will also represent a new source of demand during the peak winter months, coincident with increased demand from residential consumers. The Ohio Environmental Protection Agency expressed concern that disruptions in the current pattern of gas consumption (historically, non-coincident demand from the residential sector in winter and electric power generation demand in the summer) could lead to unforeseen power-generation costs during peak periods.<sup>56</sup> The Nexus Project will provide access to natural gas storage services which can be used to balance the average supply requirements with peak day demand to provide reliability or reduce overall cost.

PJM has recognized the value of this firm fuel and fuel-delivery service to electric system reliability. In its 2014 report on fuel assurance, PJM noted that its recent Capacity Performance Proposal includes provisions for generators to include fuel assurance costs – such as firm natural gas and natural-gas-transportation contracts – in their market offers.<sup>57</sup>

Assuming these plants were to operate at a 70-percent capacity factor, the three NGCCs located in Northern Ohio would require up to 105 Bcf/year of natural gas to generate approximately 19 million MWh of electricity. This output would help Ohio (and the larger PJM region) to more easily meet its (proposed) CO<sub>2</sub>-emission reduction targets under the EPA Clean Power Plan while also minimizing costs.<sup>58</sup> Including the Avon Lake coal-to-natural gas conversion, the total incremental natural gas demand in Northern Ohio could approach 0.535 Bcf/day and approximately 140 Bcf/year.<sup>59</sup>

Assuming that some portion of this incremental demand for gas transportation is needed (and valued in PJM markets) in the future, generating units will eventually sign up for firm delivery

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<sup>56</sup> Ohio Environmental Protection Agency, comments on the EPA Clean Power Plan, page 69.

<sup>57</sup> PJM also noted other projects, including the establishment of a gas unit commitment coordination committee, that are designed to ensure adequate natural gas for generators. As part of this effort, PJM is also developing more robust geographical databases on the location of gas-fired generators, natural gas pipelines, and operational information on gas pipelines. See PJM Interconnection, L.L.C., “Report on Fuel Assurance Activities,” Federal Energy Regulatory Commission Docket No. AD13-7-000 and No. AD14-8-000.

<sup>58</sup> In its state-by-state analysis of the Clean Power Plan, PJM found that Ohio was a net negative emission position and that it was one of four states that binds on its mass target (as opposed to an emission rate target) under an individual state compliance approach. PJM noted that “the State has a significant amount of new combined cycle resources not subject to the Clean Power Plan, whose ability to increase generation helps reduce the net negative emissions position.” See PJM State by State Economic Analysis, page 72.

<sup>59</sup> This amount assumes that the four NGCCs in Table 5 (under the column Max Gas Demand (Bcf/day)) all operate at full-load operation on a simultaneous basis on a given day).

service on the pipeline system. As alluded to earlier, one way to guarantee firm service is a direct connection with a high capacity transmission system which can provide access to natural gas storage balancing services. By this measure, then, distance to an interstate pipeline is more than a matter of convenience. The costs to interconnect with an interstate pipeline will affect the competitiveness of power-generation facilities in a wholesale power market.

For example, the most recent study examining the cost for new power plants to enter the market in PJM included natural gas interconnection costs of \$3.5 million per mile.<sup>60</sup> Relative to the Rover pipeline, the proposed NEXUS Project is closer to many of these Northern Ohio generating units. (See Figure 21.) Interconnection with the NEXUS Project would reduce the total installed capital costs of natural-gas interconnection facilities by approximately \$243 million for these four power plants in Northern Ohio. To remain profitable, power plant owners will need to recover these costs in the combined electric energy, capacity and ancillary service markets, and ultimately incorporate these costs into their capacity market offers. On an annualized basis, the preferred route of the NEXUS pipeline could save up to \$31 million annually relative to the same connections to the Rover pipeline— some, if not all of which, would be reflected in wholesale electricity cost savings to consumers.<sup>61</sup>

Table 6 calculates the cost savings to power plant owners, which would be reflected in their offer prices in PJM. Under PJM pricing mechanisms, customers would realize savings at any point when such generators set the clearing price(s) in energy and/or capacity markets. In any event, lower interconnection costs would affect the economic feasibility of these power plant projects in Northern Ohio.

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<sup>60</sup> Estimates expressed in \$2014 as part of the 2017/2018 net Cost of New Entry (“CONE”) study prepared for PJM by The Brattle Group. Brattle based its estimates on a review of eight recent gas lateral projects, as identified through EIA and FERC. See, S. Newell, et al., “Cost of New Entry Estimates for Combustion Turbine and Combined Cycle Plants in PJM, with June 1, 2018 Online Date,” prepared for PJM Interconnection, L.L.C., page 21 and Table 14. The PJM net CONE estimate assumes an average distance of five miles per interconnection.

<sup>61</sup> Consistent with the PJM net CONE study, these costs are levelized in real terms over the full life of the plant using an estimated 12.69-percent capital charge rate, including the effects of taxes and depreciation.

**Table 6**  
**Estimated Gas Interconnection Costs, \$2015**

Plant Name	Location (County)	Distance (miles)		Cost Savings (\$million)	Annualized Savings (\$million/year)
		Nexus	Rover		
<i>New Natural Gas Plants</i>					
Oregon Clean Energy Center	Lucas	14.28	32.55	\$65	\$8.29
Carroll County Energy Center	Carroll	11.16	11.19	\$0.11	\$0.01
Lordstown Generating Station	Trumbull	25.45	43.83	\$66	\$8.34
<i>Coal to Gas Conversions</i>					
Avon Lake	Lorain	16.56	47.83	\$112	\$14.20
<b>Total</b>				<b>\$243</b>	<b>\$30.85</b>
<b>Notes:</b>					
[1] Estimates assume Gas Interconnection costs of \$3.58 million per mile in \$2015. Levelized values are expressed in real \$2015 and are based on the PJM 2017/2018 net Cost of New Entry ("CONE") study, and assume a 60/40 debt/equity ratio, 13.8% cost of equity, a 7% cost of debt, 35% Federal tax rate and 20 year MACRS depreciation. Estimates exclude fixed operations and maintenance expenses.					
[2] Distance to Nexus and Rover is provided as the line tangent to the pipeline that minimizes total distance.					
<b>Sources:</b>					
[1] Newell, S., et al., "Cost of New Entry Estimates for Combustion Turbine and Combined Cycle Plants in PJM, with June 1, 2018 Online Date", Prepared for PJM Interconnection, L.L.C., p. 21.					
[2] SNL Financial.					

At present, all of these facilities have provided preliminary notice that they plan to interconnect to existing natural gas delivery points. As discussed below (in the section "Current and Proposed Ohio Gas Infrastructure"), many of the delivery points on interstate pipelines near these generating resources are small, with maximum capacities well below the estimated 135 MMcf/day required to run a plant of this size. To connect to a high capacity line, these resources would need to extend out to an interconnection point or other large system line that may have sufficient capacity on an interruptible basis but not the ability to provide firm fuel contracts.

The NEXUS Project represents a new, large-diameter and high-capacity resource that traverses through the respective service territory of these power plants and can accept new firm-transportation service contracts at the location of need.

### *Existing Resources*

There are also 27 existing natural gas-fired generating units in Northern Ohio. In 2012, these units provided approximately 3 million MWh (approximately one fourth of all Ohio natural gas-fired generation). In contrast to planned capacity, most of these existing natural-gas-fired units are combustion turbine providing peaking-power supply on an as-needed basis. These



units typically operate at low annual capacity factors, but may operate at max capacity for shorter durations. As such, their natural gas demand is typically characterized by interruptible service and many units rely on dual-fuel capabilities that allow them to burn oil during periods of natural gas shortages.<sup>62</sup>

In recent years, some of these plants have relied more heavily on distillate fuel oil to fuel their output. For example, the West Lorain Power Plant includes seven combustion turbines located along Lake Erie in Lorain, Ohio. In 2012, when natural gas prices were among the lowest in recent years, the West Lorain facility operated 100 percent on natural gas and generated 207,000 MWh of energy. In contrast, during 2014, the West Lorain facility operated 100 percent on distillate fuel oil and generated just 56,000 MWh.<sup>63</sup> Access to additional economical natural gas supplies could offer the West Lorain Facility additional dispatch flexibility and lower the marginal cost of power supply. Based on historical differentials in fuel prices and estimated interconnection costs, West Lorain could see a simple payback period of under four years.<sup>64</sup>

### ***Total Electric Power Natural Gas Demand***

Taken together, these findings support the conclusion that new natural-gas-delivery capacity is needed in Northern Ohio consistent with the projected in-service date of the NEXUS Project.

Measured on a peak-day basis (and not taking into account, for example, the summer demand from the West Lorain facility), total gas demand from the electric power sector could approach 0.535 Bcf/day, with total annual demand of 140 Bcf per year by the year 2019 (Figures 22 and 23). This estimate includes only the potential demand of known projects that have filings in both the PJM interconnection queue and at the OPSB. Beyond 2020, demand could be far greater, as additional aging steam-turbine plants eventually face retirement decisions. As described previously, the ability of the NEXUS pipeline to take additional customers as estimated demand develops provides important flexibility to power-plant developers and public officials within Ohio when making long-term energy siting decisions.

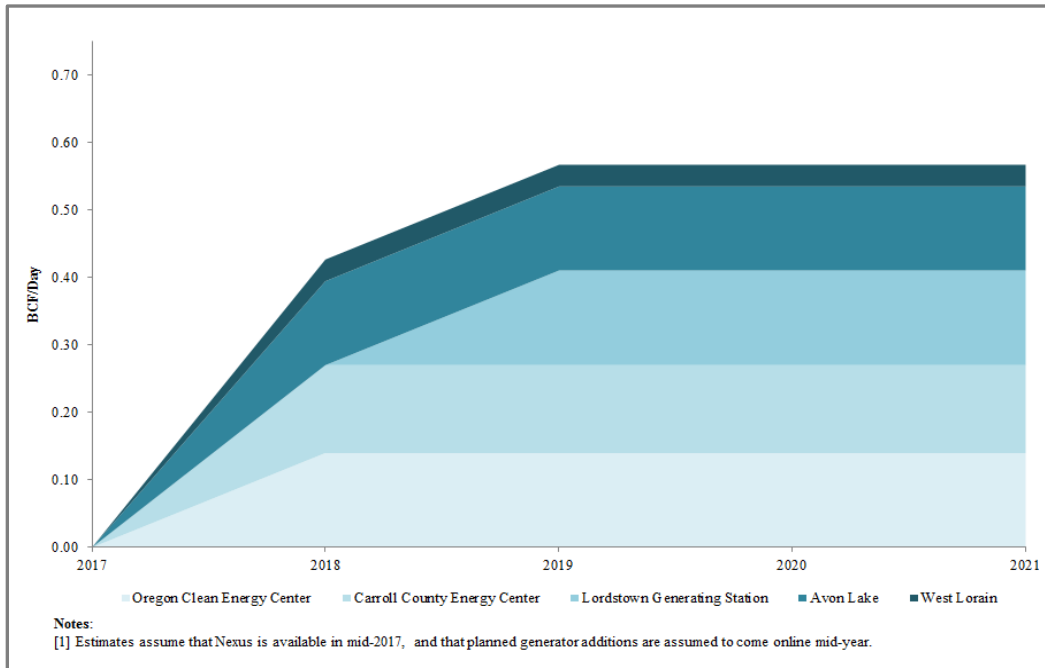
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<sup>62</sup> Sam Newell, et al., “Cost of New Entry Estimates for Combustion Turbine and Combined Cycle Plants in PJM, with June 1, 2018 Online Date,” Prepared for PJM Interconnection, L.L.C., page 15.

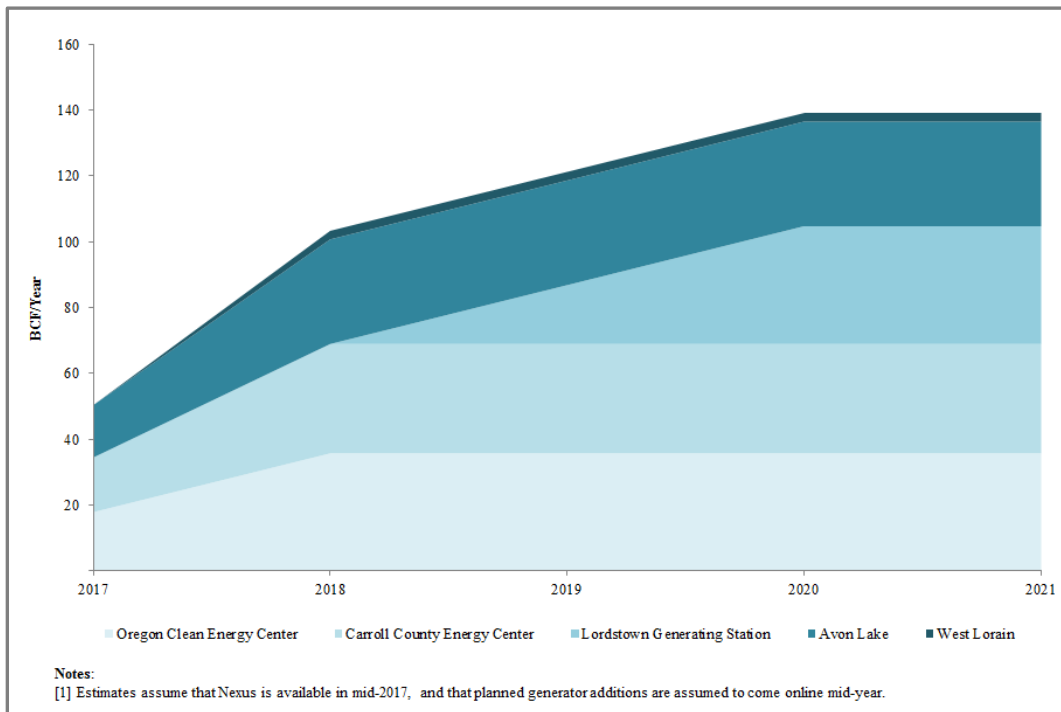
<sup>63</sup> West Lorain generated 112,000 MWh in 2011, and 58,000 MWh in both 2010 and 2013. SNL Financial data.

<sup>64</sup> In 2014, West Lorain spent \$18.7 million dollars on distillate fuel oil; in 2012, West Lorain spent \$7.8 million on natural gas. At an estimated interconnection cost of \$3.5 million per mile, total capital costs would be approximately \$36 million dollars in \$2015. SNL Financial data.

**Figure 22**  
**Maximum Potential Incremental Peak Demand Associated with**  
**Known Natural Gas Power Plant Projects in Northern Ohio (Bcf/Day)**



**Figure 23**  
**Maximum Potential Incremental Peak Demand Associated with**  
**Known Natural Gas Power Plant Projects in Northern Ohio (Bcf/Year)**



## 5. CURRENT AND PROPOSED NATURAL-GAS DELIVERY INFRASTRUCTURE IN OHIO

### Existing Natural-Gas-Delivery Infrastructure

Ohio's current natural-gas-delivery infrastructure ranges from interstate pipelines that cross through the state to more localized networks of lower-pressure delivery pipelines. The eastern part of the state – home to Ohio's shale gas reserves and bordering the well-known Marcellus and Utica shale gas basins – contains overlapping interstate pipeline capacity. Other parts of the state, however, such as the northeast and southwest of the Ohio, contain far fewer networks. (See Figure 24.)

Much of Ohio's existing high-pressure interstate pipeline infrastructure is part of large interstate natural-gas pipeline systems that span thousands of miles. While these pipelines are extensive with large throughput capacity generally, their service territory is such that much of their natural gas-delivery capacity ultimately serves customers outside of Ohio. (See Table 7.)

**Figure 24**  
**Existing Interstate Gas Pipelines in Ohio**



Source: SNL Financial

**Table 7**  
**Summary of Interstate Natural Gas Infrastructure Crossing Ohio (2014)**

<b>Pipeline Name</b>	<b>Ultimate Parent</b>	<b>Starting State(s)</b>	<b>Ending State(s)</b>	<b>Pipeline Capacity (BCF/d)</b>	<b>Total Length (miles)</b>	<b>Capacity to serve Ohio (BCF/d)</b>	<b>Length in Ohio (miles)</b>
<i>ANR Pipeline</i>	TransCanada Corporation	Louisiana/Texas/Oklahoma	Wisconsin/Michigan	6.3	8,890	0.6	378
<i>Columbia Gas Transmission, LLC</i>	NiSource Inc.	Kentucky	New York	10.5	9,651	0.9	3,661
<i>Crossroads Pipeline Company</i>	NiSource Inc.	Indiana	Ohio	N/A	203	0.3	63
<i>Dominion Transmission, Inc.</i>	Dominion Resources Inc.	Virginia	New York	5.1	3,691	0.6	234
<i>Panhandle Eastern Pipeline</i>	Energy Transfer Partners LP	Texas	Michigan	2.6	6,009	0.2	348
<i>Rockies Express Pipeline, LLC</i>	Kinder Morgan, Inc.	Colorado	Ohio	2.1	1,698	1.6	239
<i>Tennessee Gas Pipeline Company, LLC</i>	Kinder Morgan, Inc.	Texas	Massachusetts	10.2	12,195	0.2	876
<i>Texas Eastern Transmission, LP</i>	Spectra Energy Partners, LP	Texas	New York	9.5	9,554	-0.3	1,159
<i>Texas Gas Transmission, LLC</i>	Loews Corp.	Louisiana	Ohio	4.7	5,859	1.0	86

**Notes:**

[1] Pipeline capacities and total line length come from the 2014 FERC Form 2 filings for each pipeline. In each respective filing, pipeline capacity information can be found on page 518, and pipeline length information can be found on page 514. The exception is the filing for the Crossroads pipeline, whose information is on page 211. No total capacity information was available for the Crossroads Pipeline Company.

[2] Capacity in Ohio information came from the EIA state-to-state capacity data. Capacity in Ohio is calculated as the amount of natural gas that flows into the state minus the amount of natural gas that flows out of the state.

[3] Pipeline lengths are rounded to the nearest whole number. Capacity is rounded to the nearest tenth decimal place.

**Sources:**

[1] SNL Financial.

[2] FERC Form 2 & 2A "Major and Non-major Natural Gas Pipeline Annual Report," 2014.

[3] [http://www.eia.gov/pub/oil\\_gas/natural\\_gas/analysis\\_publications/ngpipeline/MajorInterstatesTable.html](http://www.eia.gov/pub/oil_gas/natural_gas/analysis_publications/ngpipeline/MajorInterstatesTable.html).

[4] [http://www.eia.gov/pub/oil\\_gas/natural\\_gas/analysis\\_publications/ngpipeline/StatetoState.xls](http://www.eia.gov/pub/oil_gas/natural_gas/analysis_publications/ngpipeline/StatetoState.xls).

When evaluating a pipeline's ability to serve demand, there are several key measures to consider: total capacity, total scheduled capacity (and hence, available capacity), and peak day demand. The ratio of scheduled capacity relative to total capacity is known as the peak-day utilization rate.

There are several other measures of utilization rates, including, for example use measured based on average day conditions or as the average over a total year. These aggregate utilization rates are typically measured at state or regional borders by entities such as the EIA. Utilization rates are also calculated and assessed at individual delivery points for specific points in time. The detailed utilization rates vary throughout the day and nomination cycle; they also vary seasonally, owing to changes in peak day gas demand.

Peak-day gas demand can be a critically important measure of capacity, since certain types of demands will tend to be concentrated by season. For example, demand from residential customers for home heating is highest in the winter, during cold periods and typically must be delivered on a firm basis. And historically, demand from the electric power generation sector is highest in the summer, when demand for electricity is greatest but when there may be greater interruptible capacity available on the pipeline system. This is one reason why average year-round utilization is not always the appropriate measure of available capacity – low pipeline utilization in March does not mean that the same pipeline can meet peak demands for heating in December or for electricity in July.

Pipeline utilization rates are difficult to calculate and interpret with respect to a particular state, region or set of delivery points on a pipeline traversing multiple states and regions.<sup>65</sup> As such, a detailed analysis of the utilization rates of existing interstate pipelines in Ohio presents many difficulties, especially assessing delivery trends in aggregate.<sup>66</sup> For example, the EIA reported total inflow capacity to Ohio of 13,259 MMcf/day and a total outflow capacity from Ohio of 8,076 MMcf/day in 2014. This suggests an 'average' annual utilization rate of 39 percent. This fails to account, however, for important constraints on the system at different times throughout the year and at various locations throughout Ohio. The Ohio Environmental Protection Agency expressed concern that new gas demand from the electric generation sector and in particular

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<sup>65</sup> See, for example, [http://www.eia.gov/pub/oil\\_gas/natural\\_gas/analysis\\_publications/ngpipeline/usage.html](http://www.eia.gov/pub/oil_gas/natural_gas/analysis_publications/ngpipeline/usage.html).

<sup>66</sup> Notably, the Ohio Environmental Protection Agency recently expressed concern that the full range of available capacity was declining in recent years, following a rapid expansion from 2005 to 2010. The agency noted that due to this slowdown, existing infrastructure may not be able to fully accommodate the redispatch of existing natural gas combined cycle power plants, as assumed by the U.S. EPA under the proposed Clean Power Plan. See Comments Submitted on Behalf of the Public Utilities Commission of Ohio, filed December 1, 2014, Carbon Pollution Emission Guidelines for Existing Stationary Sources Electric Utility Generation Units. EPA-HQ-OAR-2013-0602, page 68.

from NGCCs like those entering Northern Ohio, will lead to new demand in winter months, during periods of peak residential and overall system demand.<sup>67</sup>

Instead, by focusing on specific delivery point types (e.g., delivered to power plants) and other areas of interest allows for a reasonable analysis of the natural gas utilization rates in Ohio. Based on the information on the existing high-capacity gas-delivery infrastructure presented in Figure 24 and Table 7, combined with data on actual pipeline flows as reported by the pipeline companies, it appears that many of the critical delivery points in Ohio are (or have recently been) close to full throughput capacity in recent years.

Figures 25 and 26 reflect the maximum daily capacity utilization of existing interstate natural gas pipelines in Ohio at each month throughout the year. These figures show the highest daily utilization rate per month for timely natural-gas day at delivery points associated with LDCs in Northern Ohio (Figure 25) and with electric sector power plants throughout Ohio (Figure 26).<sup>68</sup> These figures highlight the seasonal nature of natural gas demand. LDCs typically operate at low capacity utilization rates in summer months, when residential heating loads are virtually non-existent. Then, during the winter months, these pipelines operate at or near 100 percent – and in some rare cases, operate above their named capacity rates for shorter periods of time.

At the same time, power plants – particularly NGCCs that may be economical to operate throughout the year – consume natural gas with less seasonality. (Low delivery rates may reflect situations where a power plant’s interruptible delivery service has been curtailed or where a plant is out of operations for maintenance.) Therefore, any incremental demand for firm transportation service from the power sector will be coincident with peak demand from the residential sector, thereby increasing stress on the current system.

Two of these plants (Waterford Energy Facility and Dresden Energy Facility) operated at close to 100 percent natural gas utilization rates throughout the year. Both of them obtain their fuel through firm-fuel contracts. Two others – the Washington Energy Center and the Hanging Rock Facility – operated at delivery-capacity-utilization rates above 50 percent and steadily increased their demand throughout 2014, with monthly utilization rates above 100 percent in the 2014/15 winter. In 2013 and 2014, the Washington Energy Facility operated with interruptible natural gas service. Both the Waterford and Washington Facilities operated above

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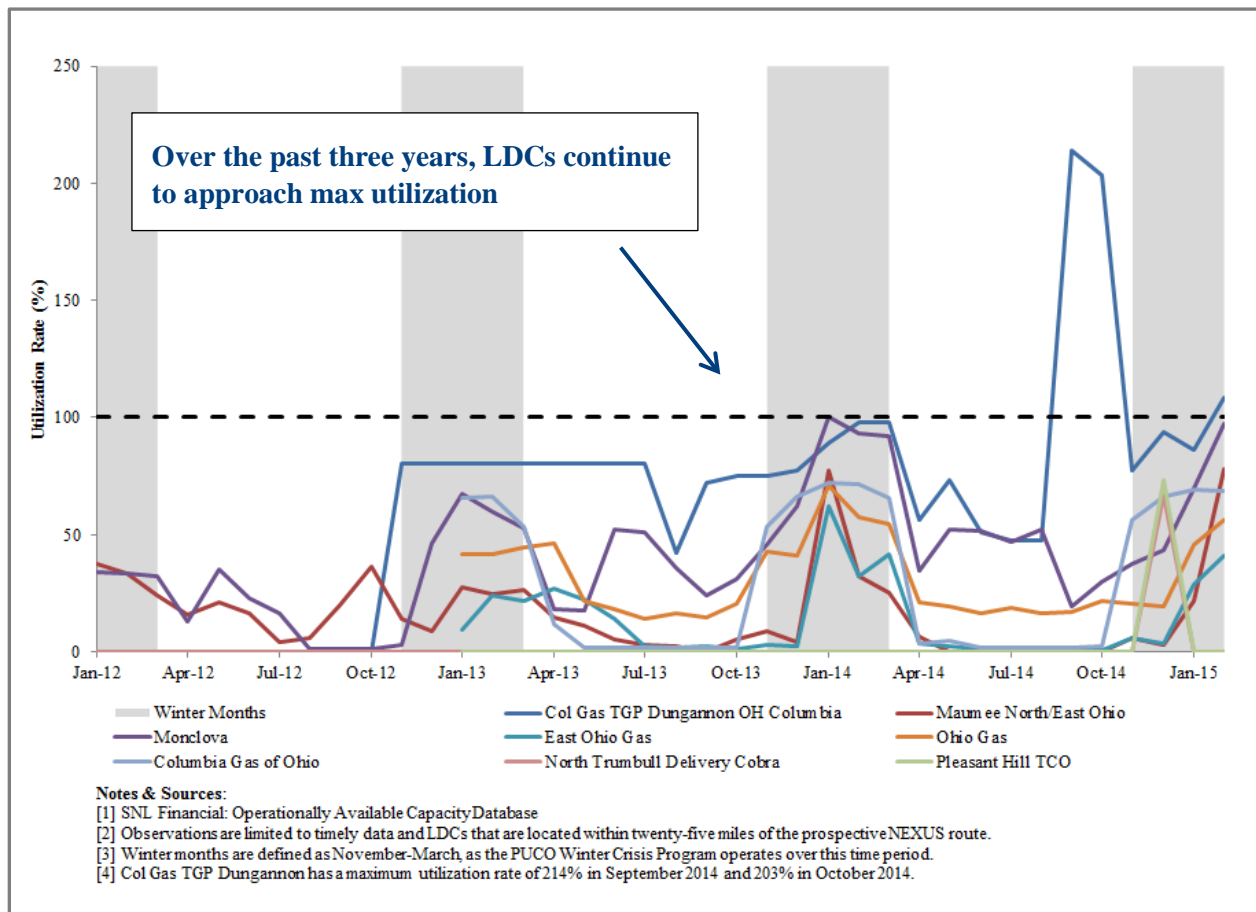
<sup>67</sup> Ohio Environmental Protection Agency, comments on the EPA Clean Power Plan, page 69.

<sup>68</sup> This includes all delivery points with delivery type identified as ‘power plant’ in the SNL Operational Pipeline Capacity database. SNL only tracks delivery points on interstate pipelines. Therefore, any power plants connected to intrastate pipelines are not represented here.

100 percent in winter months – at the exact period when LDCs also required the most natural gas – highlighting the importance of natural gas availability to service these units.

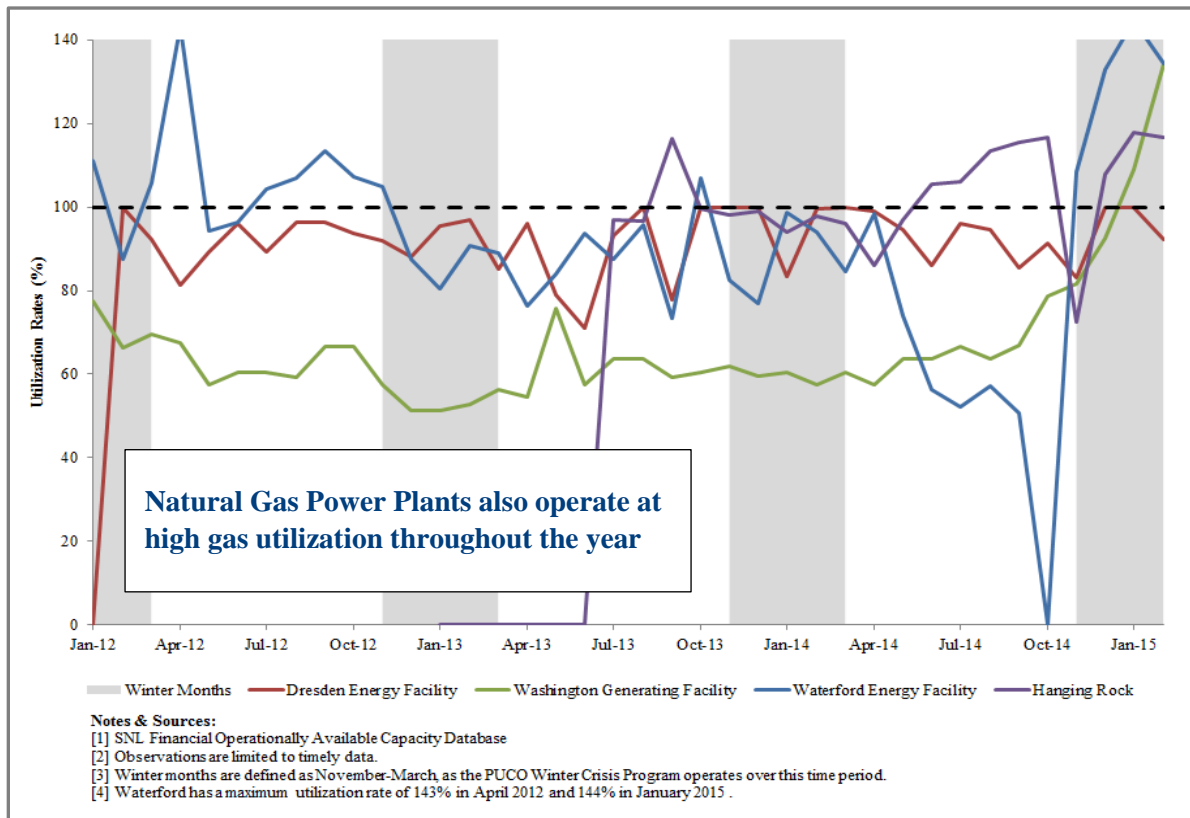
Recently, PJM has prepared a fuel-assurance plan and capacity-performance proposal that are designed, in part, to shore up the availability of fuels for power generation during winter-peak-season electrical demand.<sup>69</sup> These changes are designed to avoid situations where demand from firm-gas-transportation customers makes gas unavailable to a natural gas-fired generating unit.

**Figure 25**  
**Capacity Utilization Rates at Select LDCs in Northern Ohio**  
**January 2012 – February 2015**



<sup>69</sup> In 2014, PJM’s proposed new “Capacity Performance” allows, among other things, for natural gas-fired units to include the cost of firm fuel assurance in their market offers into daily energy and capacity markets. PJM also elected to let natural gas-fired units change their bid offers within a single day to account for changes in fuel delivery costs. See, PJM Interconnection, L.L.C., “Report on Fuel Assurance Activities,” submitted in FERC Docket No. AD13-7-000 and No. AD14-8-000.

**Figure 26**  
**Maximum Monthly Utilization Rates, Select Natural Gas Plants in Northern Ohio**  
**January 2012 – February 2015**



The majority of LDC and commercial/industrial consumers typically require firm service.<sup>70</sup> But with new market rules to support fuel assurance in PJM, this will become increasingly true for NGCCs that seek to provide electric generation service year round as well.<sup>71</sup>

Taken together, this highlights the potential for constraints to arise on the existing natural gas-delivery system, and the need for incremental gas-delivery capacity to serve power plants in Northern Ohio. There may be existing or potentially new NGCCs that have traditionally taken

<sup>70</sup> Firm transportation service is “service offered to customers (regardless of class of service) under schedules or contracts which anticipate no interruptions. The period of service may be for only a specified part of the year as in off-peak service. Certain firm service contracts may contain clauses that permit unexpected interruption in case the supply to residential customers is threatened during an emergency.”

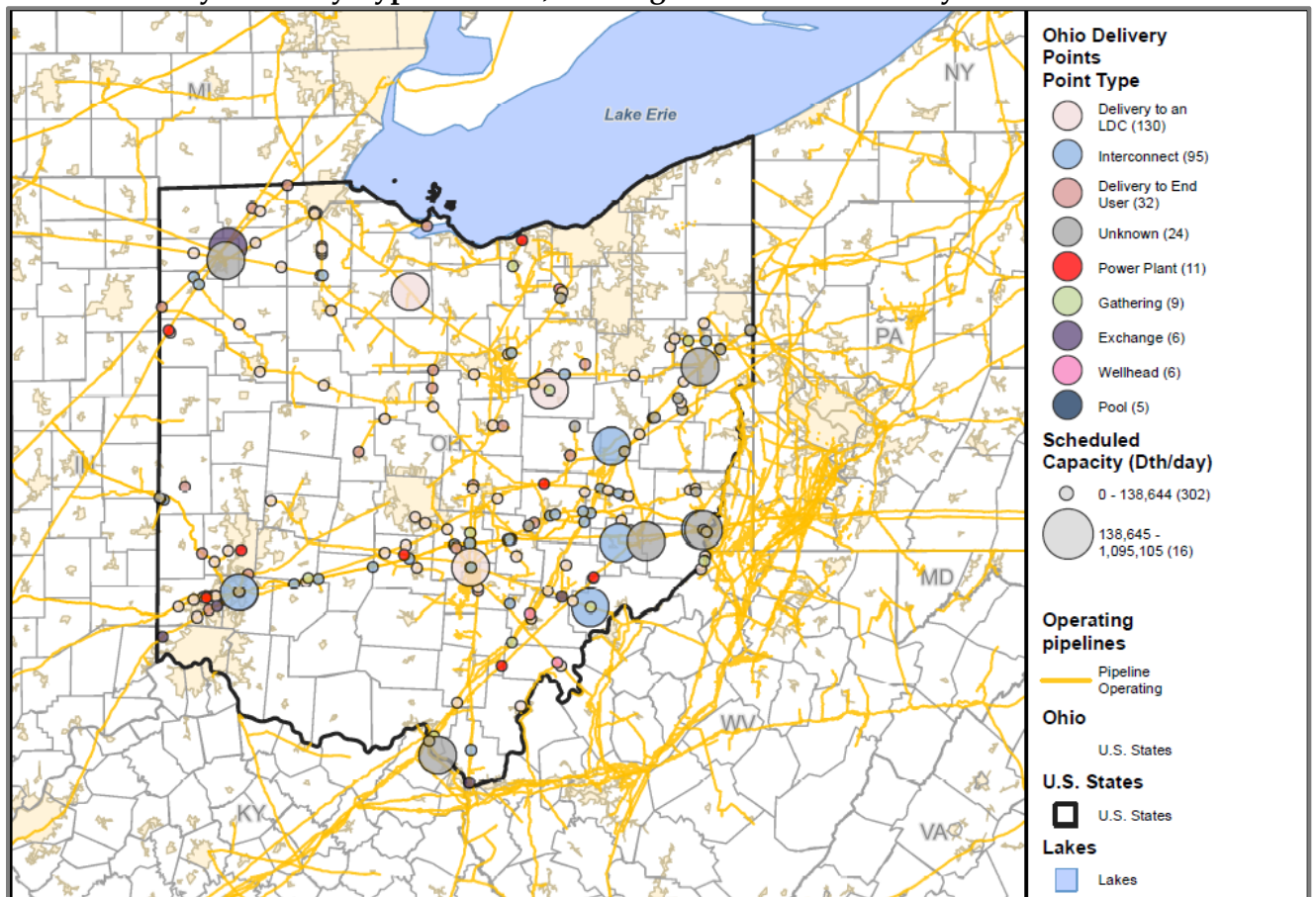
[http://www.eia.gov/pub/oil\\_gas/natural\\_gas/analysis\\_publications/deliverability/pdf/glossary.pdf](http://www.eia.gov/pub/oil_gas/natural_gas/analysis_publications/deliverability/pdf/glossary.pdf).

<sup>71</sup> In 2013, Ohio purchased 43 percent of its natural gas on firm fuel contracts. In contrast, Pennsylvania purchased 75 percent of its gas using firm contracts. Across all PJM states (including regions not served by PJM), more than 60 percent of all natural gas was purchased on firm contracts. EIA 923 Fuel Receipts and Costs, 2013.



natural gas-service on an interruptible basis who will find it economically attractive to firm up delivery service. Also, many of the current interstate delivery points on pipelines in Northern Ohio are on smaller-diameter lines that typically operate at lower pressures and that cannot deliver the volumes at the pressure that than are needed by large customers – like energy-intensive industrial applications or power plants that are currently being installed on the system. As illustrated in Figure 27, the majority of interstate delivery points that are sized with a maximum capacity larger than 135 MMcf/day (the estimated quantity of fuel for an 800 MW natural-gas combined-cycle unit running at full operation) are located at exchange points, near the borders of the state. There is insufficient high-capacity, large-diameter resources to meet incremental firm demand in Northern Ohio.

**Figure 27**  
**Delivery Points by Type and Size, Existing Natural Gas Delivery Infrastructure**



Source: SNL Financial

## 6. PROPOSED PIPELINES: NEED FOR AND POTENTIAL BENEFITS OF THE NEXUS GAS PIPELINE

### Overall Incremental Demand for Natural Gas and Gas-Delivery Infrastructure in Ohio

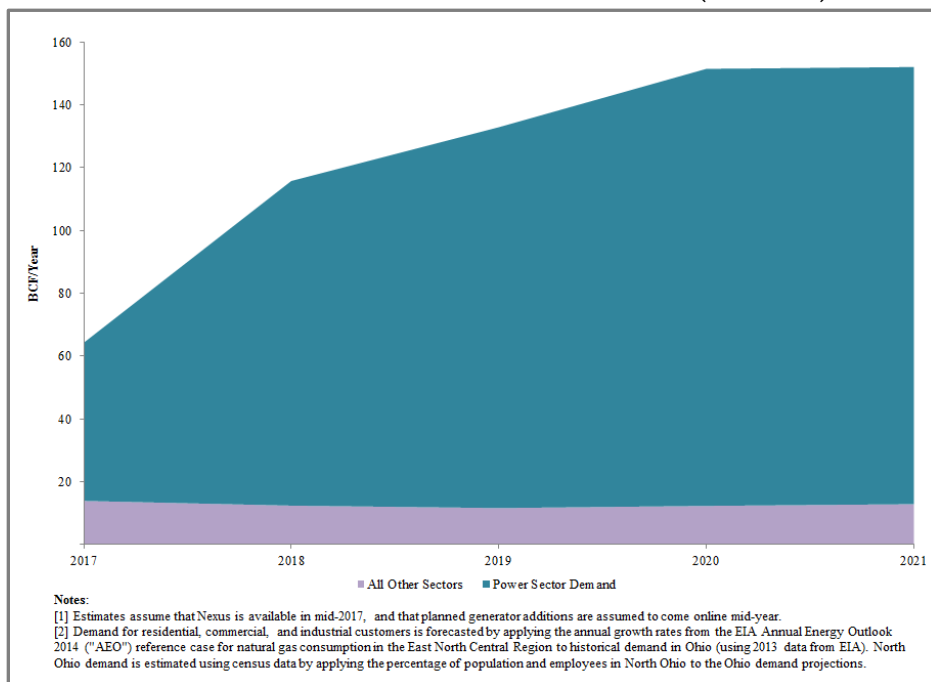
There is strong incremental demand for natural gas-delivery capability to meet potential customer needs in the state. This demand is driven by a number of important factors, including:

- *A substantial increase in regional production within the Appalachian Basin has already changed the dominant flow of natural gas within the U.S., with new flows expected to move westwardly from the Appalachian region, crossing through Ohio into Michigan, Canada and beyond.* This increased production has lowered prices substantially in the near term and prices are expected to remain low for the foreseeable future. This has already provided initial economic benefits to consumers in Ohio and elsewhere in the form of lower electricity and natural gas costs, and additional jobs and economic opportunities to the State of Ohio
- *Significant potential incremental peak-day demand is associated with known new natural gas combined cycle power plants, coal-to-gas plant conversions and other power plants.* We estimate that the potential incremental gas-delivery demand for currently planned generating units to be 0.535 Bcf/day. Because this potential demand reflects only the currently identified new power-plant projects, there could be much more in the future as the region transitions to an electricity mix that depends less on coal and more on natural gas. Demand of traditional customers would be above that daily demand of power generators.
- *Existing gas-delivery capacity needs to expand to accommodate greater use of natural gas in Northern Ohio.* Figure 28 summarizes potential incremental year-round demand for natural gas of traditional customers and power-generation customers in Northern Ohio, which would require up to an additional 150 Bcf/year. Much of this demand will need to be served by firm fuel contracts to ensure reliable access during heating season. Further, as natural gas demand grows in other parts of Ohio, additional pipeline capacity will be required to meet that demand. The NEXUS Project's access to Northern Ohio markets may free up capacity on pipelines currently serving that market and allow them to meet the demand needs in other parts of the state along their systems.
- *A strong industrial base in Northern Ohio needs access to low-cost energy to remain competitive.* For example, studies indicate that with greater access to natural gas,

energy-intensive manufacturing sectors could outperform the growth of U.S. industries as a whole. Providing incremental access to low-cost energy to Ohio’s manufacturing base will benefit those industries and the broader state as well.

- ***An opportunity to serve incremental residential heating needs could be accommodated through greater access to natural gas delivery-capability and storage-balancing services.*** The ability of LDCs or their retail energy marketers to take on additional firm customers depends upon incremental pipeline capacity such as the NEXUS Project
- ***Incremental gas delivery capacity can support the transition of Ohio’s and the region’s power sector to an overall fleet with lower overall CO<sub>2</sub> emissions, in order to meet state and federal clean energy goals.*** More than 3,500 MW of coal-fired capacity in Ohio will retire by 2016. These coal units will be replaced by almost 5,000 MW of NGCC capacity, with the vast majority of that capacity located in Northern Ohio. These units support not only Ohio’s electricity demand but also a regional economic dispatch of power plants taking CO<sub>2</sub> emissions into account. These units will be expected to run with high capacity factors including operations during winter seasons when incremental firm natural-gas delivery service will be needed to ensure NGCCs’ availability for power generation.

**Figure 28**  
**Potential Near-Term Incremental Demand for Natural Gas in Northern Ohio:**  
**Potential Residential, Commercial, and Industrial Demand and**  
**Demand for Known/Planned Power Plants (Bcf/Year)**



The NEXUS Project includes a unique bundle of attributes that can enable it meet these emerging natural gas opportunities in Northern Ohio. These attributes include:

- ***A project that can move forward in development, given the financial commitment of anchor shippers.*** The NEXUS Project’s overall economics will allow it proceed now. And it will have the capability to allow other shippers in the future to contract for firm and interruptible capacity over time. This will allow the NEXUS Project to meet new and emerging demand on an as-needed basis Northern Ohio customers can decide when and how to access new fuel supplies. It will also benefit customers (including those directly served by LDCs, and industrials and power generators) that are already connected to existing gas-delivery systems, through increasing their options to access low-cost gas supplies and natural gas storage, and increasing competition and potentially lowering consumer prices over the long-term.
- ***Use of existing infrastructure corridors*** with three-fifths of the route’s mileage located on existing pipeline or railroad corridors. As such, the NEXUS Project can provide incremental access to natural gas delivery for a large portion of Northern Ohio with less disruption to communities and natural resources than would occur with an entirely new right of way.
- ***Provision of a new, state-of-the-art large-diameter and high-capacity line*** in an area populated by relatively small-diameter, lower-pressure systems. The NEXUS Project can help support the new flow of natural gas from the Marcellus Shale basin into the Midwest and Canada. This new westwardly flow is even more important because traditional supply areas in Western Canada and Alberta are expected to continue to decrease their production. The NEXUS Project will be able to transport large volumes of natural gas at the pressures required to support NGCC projects as well as providing pressure support to an underserved region, which will benefit both existing and new customers through increased reliability and supply options.
- ***Capability to meet potential incremental demand for natural gas in a time frame that coincides with significant changes in the overall energy landscape in the region.*** These changes include retirements of coal-fired power plants in Northern Ohio that will be replaced by new NGCCs, as well as incremental demand for low-cost natural gas supply by Northern Ohio’s important industrial and manufacturing base.
- ***Ability for timely and incremental expansion of infrastructure to meet growing demand for natural gas.*** The NEXUS Project’s mainline through Northern Ohio also offers the capability for incremental mainline expansion and lateral lines to new end-use customers that could use natural gas if they could access it economically. For example, households in

several Northern Ohio counties continue to rely on distillate fuel oil and electricity for residential heating. With access to sustained low-cost natural gas and increasingly more-efficient boilers, these homes may find it economical to switch to natural gas if more supply and delivery capability becomes available. The NEXUS Project can open access for a whole new set of potential gas-heating customers. LDCs in this region support the conversion of homes to natural gas through the use of financial incentives like rebates.

- ***Support for Ohio’s environmental and clean-energy goals, with the ability to help enable timely and cost-effective compliance with CO<sub>2</sub>-emission reduction requirements in the electric sector.*** The Ohio Environmental Protection Agency has expressed concern that “an apparent slowdown in the growth” of new pipeline development would make it harder to support a significant transition to and redispatch of natural-gas-fired capacity. The NEXUS Project would provide the capability to address that concern in a timely way and help the state transition to a newer, more-efficient energy mix with lower CO<sub>2</sub> emissions. The NEXUS Project would provide the capability to address that concern in a timely way and help the state transition to a newer, more-efficient energy mix with lower CO<sub>2</sub> emissions. The region’s grid operator, PJM, has found that greater reliance on new NGCCs could help the state meet its emissions-reduction goals at lower overall costs to consumers.

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**APPENDIX 1D**

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- **Landowner List**
- **List of Abutters Within ½ Mile of Proposed Compressor Stations**

**[PRIVILEGED AND CONFIDENTIAL  
BOUND SEPARATELY IN VOLUME III]**