

DEPARTMENT OF THE AIR FORCE JOINT BASE MCGUIRE-DIX-LAKEHURST

NOV - 6 2015

Colonel Frederick D. Thaden Commander 2901 Falcon Lane, Suite 100 Joint Base McGuire-Dix-Lakehurst NJ 08641-5002

The Honorable Ronald S. Dancer New Jersey Assembly 405 Rt. 539 Cream Ridge NJ 08514

Dear Assemblyman Dancer

On October 29, 2015, Joint Base McGuire-Dix-Lakehurst (JB MDL) representatives met with you, a representative from Congressman Chris Smith's Office, executives from the New Jersey Natural Gas (NJNG) Company, and other local government officials to discuss potential routes for a natural gas transmission pipeline through JB MDL to be constructed by NJNG.

The route currently proposed by NJNG, and before the New Jersey Board of Public Utilities for approval, crosses portions of JB MDL from Ocean County Route 539 through the southern edge of the former Lakehurst Naval Air Station. This route was developed in close coordination with Air Force engineering, environmental and legal experts. The current proposal is the best on-base route available because it presents minimal impacts to our mission, the people working and residing on JB MDL, and to the environment. It confines most of pipeline to already developed land areas. Careful planning resulted in placement of the proposed pipeline under existing hard-surfaced roadways. In addition, it will deliver gas to an underserved area of the base and provides energy redundancy.

The alternatives considered centered on an entrance point for the pipeline in proximity to the JB MDL Route 68 gate near Wrightstown. Bringing the pipeline from this area, across the installation to the Lakehurst side presents numerous impacts to operational requirements, to JB MDL residents and personnel, and to the environment. Moreover, a route from the east side to the west side of the installation would have to transverse the range complex. This is an area that has the potential for encountering unexploded ordnance (UXOs). Subsurface work in this area would require UXO investigation and possible clearance, which is time consuming and costly.

Gas supply to the eastern portion of JB MDL was identified as a critical system deficiency in the aftermath of Hurricane Sandy. This project provides a primary benefit of natural gas supply redundancy gained by looping the delivery pipeline, in addition to potentially converting facilities from liquid energy sources to gas. The current proposed route will provide direct service to the installation whereas, under the current state, JB MDL is near the terminus of

the existing pipeline. The majority of the gas consumed by the installation will flow via the new pipeline, if completed.

My primary point of contact for this matter is the Deputy Base Civil Engineer, Mr. Christopher Archer. If there are any questions he may be reached at (609) 754-2768 or via email to christopher.archer@us.af.mil

Sincerely

FREDERICK D.THADEN, Col, USAF Commander

cc:

Jeff Sagnip, Dist. Dir., U.S. Rep. Chris Smith
Jo Schloeder, Dir. Public Policy, U.S. Rep. Chris Smith
Kathleen T. Ellis, CEO, NJNG
Mariellen Dugan, Esq., NJNG
John B. Wyckoff, P.E., Engineering Dir., NJNG
Joseph R. Malone, III, Mayor of Bordentown
David J. McKeon, Planning Dir., Ocean Co.
William R. Burns, Esq., Burl. Co.
Martin C. Livingston, Traffic Engineer, Burl. Co.
Michael S. Nei, Engineer, Burl. Co.

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November 30, 2015

Ernest Deman Supervising Environmental Specialist New Jersey Pinelands Commission 15 Springfield Road New Lisbon, NJ 08064 APP. 2014 0045.00
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Re:

Application # 2014-0045.001 County Route 539 & 547 Block 23601, Lot 1 Jackson Township Block 70, Lot 18; Block 71, Lot 13; Block 70, Lot 18; Block 71, Lot 13; Block 71, Lot 14; Block 71, Lot 1

Block 70, Lot 18; Block 71, Lot 13; Block 72.01, Lot 14.03 & Block 73, Lot 42

Manchester Township

Block 91, Lot 1 & Block 92, Lot 1

Plumsted Township

Dear Mr. Deman:

AECOM, on behalf of New Jersey Natural Gas (NJNG), is submitting this response to the New Jersey Pinelands Commission (NJPC) to address comments received on November 19, 2015 requesting additional information for Application # 2014-0045.001 and provide updates to the Project design.

Comments provided are represented below in bold, followed by the response.

1. This application proposes to utilize Block 76, Lots 82.02 & 83.01 in Plumsted Township for the temporary storage of pipe. Please provide written consent from the owner of Block 76, Lots 82.02 & 83.01 in Plumsted Township to the filing of the application.

Please find written survey consent from the landowner of Block 76, Lots 82.02 & 83.01 in Plumsted Township in **Attachment A**.

2. Provide a typical detail of the three proposed valve stations on the plan. If any of the proposed valve stations will result in 5,000 square feet or greater of land disturbance, please provide a stormwater management plan and calculations for that valve station prepared by an appropriately licensed professional demonstrating that the proposed valve station(s) is consistent with the stormwater regulations contained in the Pinelands Comprehensive Management Plan (CMP, N.J.A.C. 7:50-6.84(a)6).

Please find a typical detail / site plan of the three proposed valve stations in **Attachment B**. Please note, none of the proposed valve stations will exceed 5,000 square feet of land disturbance.

3. Provide a detail on the plan of the proposed stormwater infiltration swale indicating the length, width and top and bottom elevations of the swale. Please also submit revised soil logs for the infiltration swale which utilize the Munsell Soil Color Chart system to describe the soils observed within the test pits and identify the elevation at which the seasonal high water table was encountered. A revised plan with cross-sections and dimensions detailing the length and top and bottom elevations of the stormwater infiltration swale are included in **Attachment C**.

Revised soil logs, utilizing the Munsell Soil Color Chart system, are included in **Attachment D**.

4. The submitted information indicates that approximately 456 Sickle-leaved golden aster plants out of an existing population of approximately 5,014 plants will be impacted by the installation of the proposed natural gas main. The CMP requires that the proposed development be designed to avoid irreversible adverse impacts on the survival of the local population of Sickle-leaved golden aster. Please revise the plan to address the proposed impact to Sickle-leaved golden.

Horizontal Directional Drilling (HDD) techniques were selected as the installation method for this waterbody crossing to minimize impacts to JB MDL operations. In order to avoid impacts to the local population of Sickle-leaved golden aster, the design has been revised to include a conventional bore installation as opposed to an HDD. The construction footprint has been revised to remove areas of impact to Sickle-leaved golden aster. A revised plan is included in **Attachment E.**

5. The proposed gas main will be located in a Pinelands Regional Growth Area, a Pinelands Rural Development Area and a Pinelands Military and Federal Installation Area. The CMP provides that a gas main (public service infrastructure) is a permitted land use in a Pinelands Regional Growth Area and a Pinelands Rural Development Area. To be a permitted land use in a Pinelands Military and Federal Installation Area, the CMP requires that the proposed gas main be associated with the function of the Federal Installation (N.J.A.C. 7:50-5.29 (a)). Information submitted to date, including a November 6, 2015 letter from the Commander of Joint Base McGuire-Dix-Lakehurst (JB MDL) to New Jersey Assemblyman Dancer, indicates that the portion of the proposed gas main located within the Military and Federal Installation Area will provide energy redundancy and the opportunity to potentially convert facilities from liquid energy sources to natural gas.

Please confirm whether that there is an existing natural gas distribution main stub located on the Lakehurst portion of JB MDL. Clarify whether any existing uses on the Lakehurst portion of JB MDL are currently served by that existing natural gas distribution main. Indicate the purposes of the proposed valve stations on County Route 539 and within the Lakehurst portion of JB MDL.

New Jersey Natural Gas presently maintains a gas distribution system throughout the Lakehurst portion of JB MDL ("Lakehurst") that currently serves a majority of its buildings and facilities. This existing system begins near the Base's entrance on Route 547 and extends west to the New Jersey National Guard Center on Route 539.

The purpose of the proposed line valves on Route 539 and within Lakehurst is consistent with the other valves along the route, which is to isolate and shut down sections of the pipeline if needed. The location of the proposed valve on Route 539 specifically will facilitate the installation of a future regulator station that will provide a secondary gas supply to further enhance the reliability of the existing Lakehurst distribution system in JB MDL, to support conversion of other existing facilities in the Fort Dix portion of the Base to natural gas from other liquid fuel sources, as well as to supply any new facilities in the area that JBMDL may require natural gas service for in the future.

If you should require additional information or have any questions please contact me at (610) 832-3580 or barry.baker@aecom.com.

Sincerely, **AECOM**

Barry A. Baker

Bary A Bake

Impact Assessment and Permitting Department Manager

Cc:

Keith Sturn, NJNG

Bryan Pariseault, AECOM

ATTACHMENT A: Written Survey Consent for Raceway. ATTACHMENT B: Typical valve setting layout / detail ATTACHMENT C: Revised stormwater feature plan

ATTACHMENT D: Revised soil logs, utilizing the Munsell Soil Color Chart system

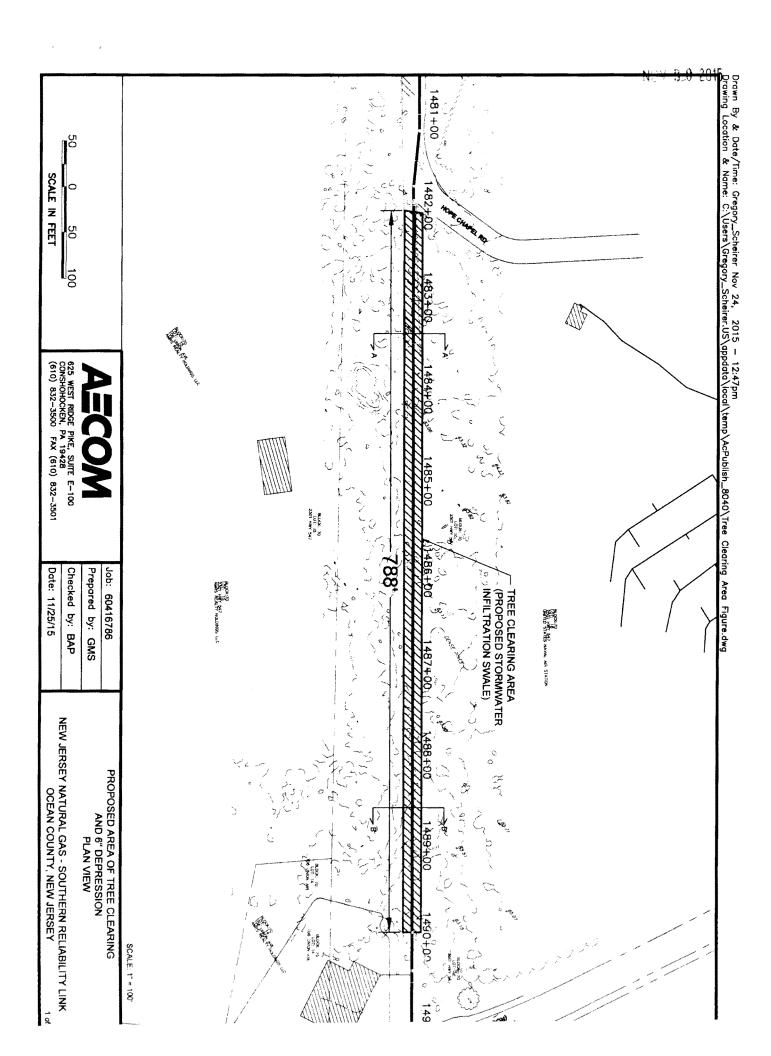
ATTACHMENT E: Revised crossing plan utilizing conventional bore

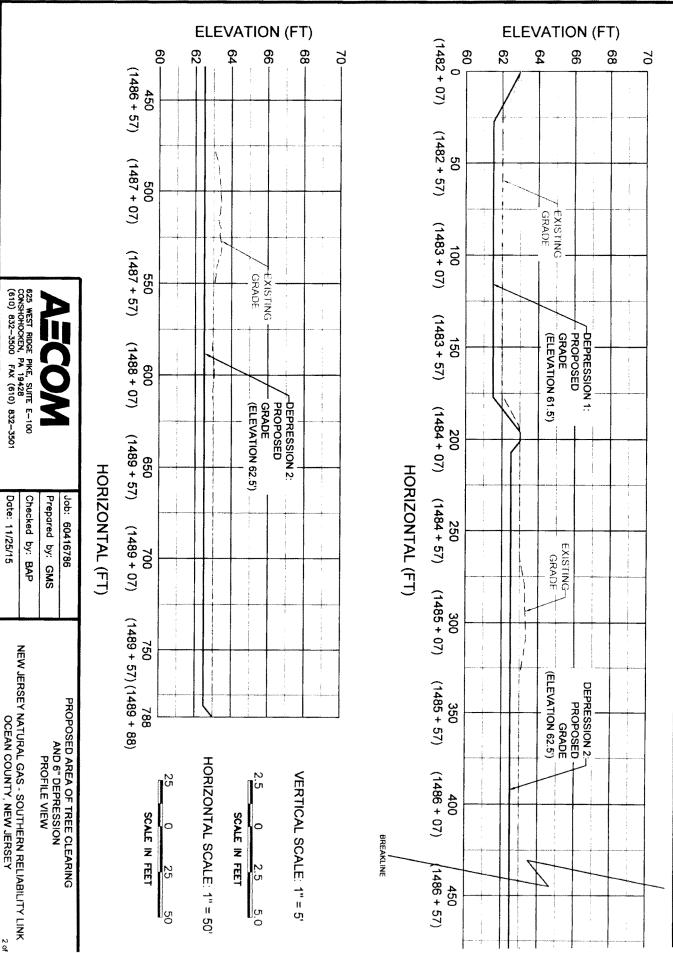
I hereby authorize the staff of the Pinelands Commission to conduct such onsite inspections of the parcel as are necessary to review this application and ensure compliance with the requirements of the Pinelands Comprehensive Management Plan. I also acknowledge that if my application involves extraordinary or complex issue(s) that necessitate the retention of consultants with expertise in such matters, I will be advised of that need and the amount of money that must be placed in escrow to retain the consultants and that review of my application will not proceed until I provide the required escrow amount.

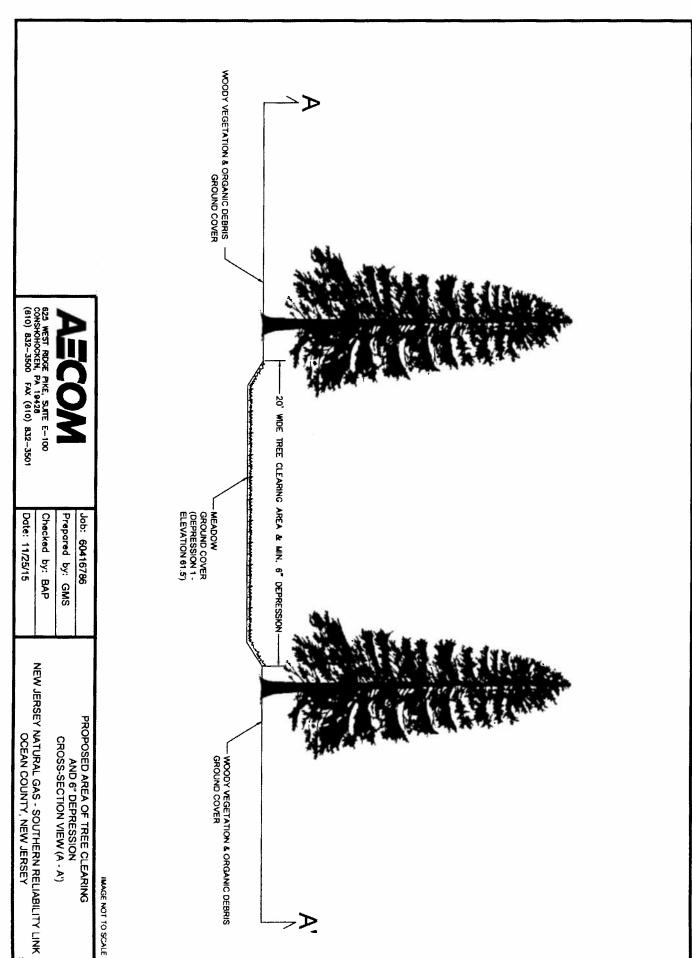
I hereby certify that the information furnished on this application form and all supplemental materials is true.

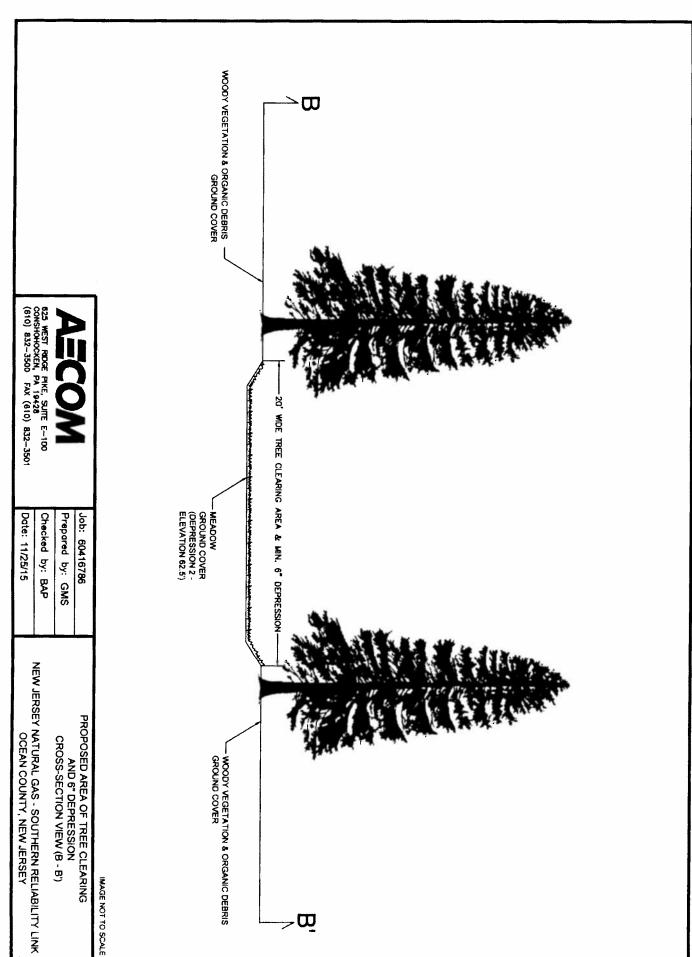
Signatures of Applicant	(s): - 11-24-15		
Signature	Date	Signature	Date
Name (Print) Keith NEW EGYPT PACEWAY IN BLOCK 16, LOTS 82.02 \$ 83.		Name (Print)	
Signatures of Property (
Signature	Date	Signature	Date
Name (Print)		Name (Print)	

³If an individual has signed the application form on the property owner's behalf, please provide a written explanation indicating how he/she is authorized to act on behalf of the property owner(s). Please also attach documentation demonstrating that he/she is authorized to act on behalf of the property owner.









PIT NUMBER:



AECOM PROJECT NUMBER:

WILLIAMSPORT, PA OFFICE

SOIL EVALUATION FORM

	SOIL TYPE Lakewood sand Limiting Zone: WATER TABLE Depth: 96"	COMMENTS:						Horizon	MORPHOLOGIC DETERMINATION:	CLIENT:	DATE: _
	Lakewood sand : WATER TABL			48	24	10	0	Depth Upper Lower	GIC DE		8/26/2015
	ood sand R TABI			8	# *	24	10	h	TERMII	NJNG	015
								Boundary A/C/D/G	VATION:		
COVER: SLOPE: WEATHER:	USDA Soil Drainage Class: X Excessivel Well Drained Moderatel			10YR 6/6	10YR 6/1	10YR 2/I	10YR 4/3	Color	SEWAGE	SUBDIVISION:	STATE:
Grass 0-5% 85°F, Sunny	Drainage Class: X Excessively Drained Well Drained Moderately Well Drained			S	S	ASPHALT	SL	Texture	STORMWATER		Z
	ned Drained							% CFs	ËR		
				F/F	F/F		F/F	REDOX A/C	SHWT Soils		COUNTY:
METH EXCAVATION DE LANDSCAPE POSIT	Somewhat Poorly Drained Poorly Drained Very Poorly Drained			GR	GR		GR	Structure	ils		
METHOD: EXCAVATION DEPTH: ANDSCAPE POSITION:				VFR	VFR		VFR	Consistence	INVEST	SITE LO	
	SOIL DESCRIP			F/F	F/F		C/F	Roots	GATOR:	TE LOCATION: SRL	MUNIC
EXCAVATED 96 inches Side of road	SIGNATURES: SOIL DESCRIPTION PREPARER:							NOTES (% clay, macro pores)	INVESTIGATOR: Stacey Dom	SRL	MUNICIPALITY:

Roots/Pores - f - few, c - common, m - many; f - fine, m - medium, c - coarse REDOX - Redoxymorphic features (Drainage Mottling) A/C - Abundance/Contrast Boundary: A-abrupt, C-clear, G-gradual, D-diffuse

715 Washington Blvd. Williamsport, PA 17701

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AECOM PROJECT NUMBER:

WILLIAMSPORT, PA OFFICE

SOIL EVALUATION FORM

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8/26/20	STATE:	Z	COUNTY:			MUNICI	MUNICIPALITY:
CLIENT: NING	SUBDIVISION:				SITE LC	E LOCATION: SRL	SRL
MORPHOLOGIC DETERMINATION:	ATION: SEWAGE	STORMWATER	SHWT Soils	is	INVEST	IGATOR:	INVESTIGATOR: Stacey Dorn
Horizon Depth Bo	Boundary Color	Texture 0/ Cr	REDOX	Structure	Consistence	Roots	NOTES
Upper Lower A/	A/C/D/G	70 CFS	П				(% clay, macro pores)
0 18	10YR 6/1	S	F/F	GR	VFR	C/F	
18 72	10YR 6/6	S	F/F	GR	VFR	F/F	
		ļ					
COMMENTS:							
SOIL TYPE: Lakehurst sand Limiting Zone: WATER TABLE	USDA Soil Drai	ainage Class: Excessively Drained Well Drained		Somewhat Poorly Drained Poorly Drained		SIGNATURES: SOIL DESCRIP	SIGNATURES: SOIL DESCRIPTION PREPARER:
Depth: 72"	X	Moderately Well Drained		Very Poorly Drained	ned	r A	STATE OF THE STATE
	COVER:	TRESS			METHOD:		EXCAVATED
	WEATHER:	0-5% 85°F, Sunny		ANDSCAPE	LANDSCAPE POSITION:		WOODS

Roots/Pores - f - few, c - common, m - many; f - fine, m - medium, c - coarse REDOX - Redoxymorphic features (Drainage Mottling) A/C - Abundance/Contrast Boundary: A-abrupt, C-clear, G-gradual, D-diffuse

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