Appendix B AGENCY CORRESPONDENCE





MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate John Kessler, Chief 2045 Morse Road – Bldg. E-2 Columbus, OH 43229 Phone: (614) 265-6621 Fax: (614) 267-4764

May 4, 2022

Daniel Godec Stantec Consulting Services Inc. 11687 Lebanon Road Cincinnati OH 45241

Re: 22-0379; Delano Station Expansion Project

Project: The proposed project involves expanding the existing Delano substation and installing a new transmission structure north of the station.

Location: The proposed project is located in Green Township, Ross County, 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 Ohio Natural Heritage Database indicates there are no records of state or federally listed plants or animals within one mile of the specified project area. Records searched date from 1980.

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.

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 entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally threatened species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the

leaves. However, these species are also dependent on the forest structure surrounding roost trees. If trees are present within the project area, and trees must be cut, the DOW recommends cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible. If trees are present within the project area, and trees must be cut during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any cutting. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the "OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING". If state listed bats are documented, DOW recommends cutting only occur from October 1 through March 31. However, limited summer tree cutting may be acceptable after consultation with the DOW (contact Erin Hazelton at Erin.hazelton@dnr.ohio.gov).

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "*Range-wide Indiana Bat Survey Guidelines*." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Erin Hazelton for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species. <u>Federally Endangered</u> clubshell (*Pleurobema clava*) fanshell (*Cyprogenia stegaria*) northern riffleshell (*Epioblasma torulosa rangiana*) rayed bean (*Villosa fabalis*) sheepnose (*Plethobasus cyphyus*) snuffbox (*Epioblasma triquetra*)

<u>Federally Threatened</u> rabbitsfoot (*Quadrula cylindrica cylindrica*)

<u>State Endangered</u> little spectaclecase (*Villosa lienosa*) long-solid (*Fusconaia maculata maculata*) sharp-ridged pocketbook (*Lampsilis ovata*)

<u>State Threatened</u> black sandshell (*Ligumia recta*) fawnsfoot (*Truncilla donaciformis*) threehorn wartyback (*Obliquaria reflexa*)

Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the following listed fish species. <u>State Endangered</u> goldeye (*Hiodon alosoides*) northern brook lamprey (*Ichthyomyzon fossor*) northern madtom (*Noturus stigmosus*) shortnose gar (*Lepisosteus platostomus*) shovelnose sturgeon (*Scaphirhynchus platorynchus*) spotted darter (*Etheostoma maculatum*)

<u>State Threatened</u> American eel (*Anguilla rostrata*) blue sucker (*Cycleptus elongatus*) channel darter (*Percina copelandi*) paddlefish (*Polyodon spathula*) river darter (*Percina shumardi*) Tippecanoe darter (*Etheostoma Tippecanoe*)

Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

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 of sufficient size to provide suitable habitat, this project is not likely to impact this species.

The project is within the range of the timber rattlesnake (*Crotalus horridus*), a state endangered species, and a federal species of concern. The timber rattlesnake is a woodland species, utilizing dry slopes and rocky outcrops. In addition to using wooded areas, the timber rattlesnake utilizes sunlit gaps in the canopy for basking and deep rock crevices for overwintering. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the spotted turtle (*Clemmys guttata*), a state threatened species. This species prefers fens, bogs and marshes, but also is known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the midland mud salamander (*Pseudotriton montanus diastictus*), a state threatened species. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), 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. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the upland sandpiper (*Bartramia longicauda*), a state endangered bird. 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 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this 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.

Water Resources: The Division of Water Resources has the following comment.

The local floodplain administrator should be contacted concerning the possible need for any floodplain permits or approvals for this project. Your local floodplain administrator contact information can be found at the website below.

https://ohiodnr.gov/static/documents/water/floodplains/Floodplain%20Administrator%20List.pdf

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at <u>mike.pettegrew@dnr.ohio.gov</u> if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator
 From:
 Ohio, FW3

 To:
 Godec, Daniel

 Cc:
 nathan.reardon@dnr.state.oh.us; Parsons, Kate

 Subject:
 Delano Station Expansion Project, Ross County, Ohio

 Date:
 Wednesday, April 13, 2022 9:37:43 AM

 Attachments:
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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



Project Code: 2022-0030407

Dear Mr. Godec,

The U.S Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and threatened northern long-eared bat (*Myotis septentrionalis*) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves, rock crevices and abandoned mines.

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees \geq 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees \geq 3 inches dbh cannot be avoided, we recommend removal of any trees \geq 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see http://www.fws.gov/midwest/endangered/mammals/nleb/index.html), incidental take of

Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present.

If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats. If Indiana bats are not detected during the survey, then tree clearing may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

<u>Section 7 Coordination</u>: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

<u>Stream and Wetland Avoidance</u>: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (<u>https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf</u>). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at <u>mike.pettegrew@dnr.state.oh.us</u>.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or <u>ohio@fws.gov</u>.

Sincerely,

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Patrice Ashfield Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Kate Parsons, ODNR-DOW

Appendix C REPRESENTATIVE PHOTOGRAPHS

C.1 WETLAND AND WATERBODY PHOTOGRAPHS





Photograph Location 1. View of upland (old field habitat) at wetland determination sample point SP01. Photograph taken facing north.



Photograph Location 1. View of upland (old field habitat) at wetland determination sample point SP01. Photograph taken facing east.



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Photograph Location 1. View of upland (old field habitat) at wetland determination sample point SP01. Photograph taken facing south.



Photograph Location 1. View of upland (old field habitat) at wetland determination sample point SP01. Photograph taken facing west.





Photograph Location 1. View of soil profile at wetland determination sample point SP01.



Photograph Location 2. View of upland (old field habitat) at wetland determination sample point SP02. Photograph taken facing north.





Photograph Location 2. View of upland (old field habitat) at wetland determination sample point SP02. Photograph taken facing east.



Photograph Location 2. View of upland (old field habitat) at wetland determination sample point SP02. Photograph taken facing south.





Photograph Location 2. View of upland (old field habitat) at wetland determination sample point SP02. Photograph taken facing west.



Photograph Location 2. View of soil profile at wetland determination sample point SP02.





Photograph Location 3. Representative view of an upland drainage feature within the Project area. Photograph taken facing east.

C.2 HABITAT PHOTOGRAPHS





Photograph Location 1. Representative view of industrial land (existing Delano Station). Photograph taken facing north.



Photograph Location 2. Representative view of industrial land (existing Delano Station). Photograph taken facing north.





Photograph Location 2. Representative view of new field habitat and existing Delano Station. Photograph taken facing west.



Photograph Location 3. Representative view of new field habitat and existing Delano Station. Photograph taken facing north.





Photograph Location 3. Representative view of industrial land (existing Delano Station). Photograph taken facing north.



Photograph Location 4. Representative view of new field habitat and existing Delano Station. Photograph taken facing south.





Photograph Location 4. Representative view of industrial land (existing Delano Station). Photograph taken facing west.



Photograph Location 5. Representative view of industrial land (existing Delano Station). Photograph taken facing south.





Photograph Location 6. Representative view of industrial land (existing Delano Station). Photograph taken facing east.



Photograph Location. Representative view of old field habitat and existing Delano Station. Photograph taken facing south.





Photograph Location 8. Representative view of old field habitat. Photograph taken facing south.



Photograph Location 9. Representative view of mixed early successional/second growth deciduous forest habitat and stream located just west of Project area. Photograph taken facing south.





Photograph Location 10. Representative view of mixed early successional/second growth deciduous forest habitat and stream located just west of Project area. Photograph taken facing south.

Appendix D DATA FORMS

WETLAND DETERMINATION DATA FORMS



WETLAND DETERMINATION DATA FORM Midwest Region

Fillect/Site.	Delano Statio	on Expansion Project					Stantec Project #:	193708938	}	Date:	04/14/22	
Applicant:	AEP Ohio	Transmission Comp	any, Inc.							County:	Ross	
Investigator #1	Kate Boma	r		Invest	igator #2:	Rohini	/embar			State:	Ohio	
Soil Unit:	Eldean Loam,	0-2% slopes				l	WI/WWI Classification	n: NA		Wetland ID:	N/A	
Landform:	Plain			Loc	cal Relief:	Linear				Sample Point:	SP01	
Slope (%):	0-2	Latitude:	39.40784	. L	ongitude:	-82.961	461	Datum:		Community ID:	UPL	
Are climatic/hy	drologic conc	litions on the site typ	pical for this	time of	year? (If no	, explain in	remarks)	🗹 Yes 🗆	No	Section:		
Are Vegetation	□ , Soil □,	or Hydrology 🛛 sigr	nificantly dis	sturbed?			Are normal circumst	ances present	?	Township:		
Are Vegetation	\Box , Soil \Box , \bullet	or Hydrology 🗀 nati	urally proble	ematic?			Yes	NL		Range:	Dir:	
SUMMARY OF	FINDINGS	-										
Hydrophytic Ve	getation Pres	sent?			s 🗹 No			Hydric Soils	Present?			⊡ No
Wetland Hydro	logy Present	?			s 🗹 No			Is This Sam	pling Point	Within A Wetla	and? 🦳 Yes	⊻ No
Remarks:												
HYDROLOGY												
Wetland Hydr	ology Indica	ators (Check here if	indicators	are not p	resent)⊡						
Primary	<u>.</u>			_		o. · · ·			Secondary:	DO O (O	10 1	
	A1 - Surface	vvater ster Table			B13 - Agu	er-Stained	Leaves			B6 - Sufface So B10 - Drainage	DII Cracks	
	A3 - Saturatio	on			B14 - Tru	e Aquatic	Plants			C2 - Dry-Seaso	n Water Table	
	B1 - Water M	larks			C1 - Hydr	ogen Sulf	de Odor			C8 - Crayfish B	urrows	
	B2 - Sedimer	nt Deposits			C3 - Oxid	ized Rhizo	spheres on Living Roots			C9 - Saturation	Visible on Aerial Im	nagery
	B3 - Drift Dej B4 - Algal Ma	posits at or Crust			C4 - Pres	ence of R	educed Iron			D1 - Stunted or	Stressed Plants	
	B5 - Iron Der	posits			C7 - Thin	Muck Sur	face			D5 - FAC-Neuti	al Test	
	B7 - Inundati	on Visible on Aerial Ima	igery		D9 - Gau	ge or Well	Data					
	B8 - Sparsely	y Vegetated Concave S	urface		Other (Ex	plain in Re	emarks)					
	_											
Field Observa	tions:											
Surface Water	Present?	🗆 Yes 🗹 No	Depth:	0	(in.)			Wetland Hv	droloav Pr	resent?	Yes 🗵 No	
Water Table Pr	resent?	∐ Yes ⊡ No	Depth:	0	(in.)			···· · •				
Saturation Pres	sent?	🗆 Yes 🗹 No	Depth:	0	(in.)							
Describe Record	ded Data (stro	eam gauge, monitorir	ng well, aeria	al photos.	previous i	inspectio	ns) if available:		N/A			
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	e: bottom (Describe to Depth 14 Soil Field In A1- Histosol A2 - Histo E[A3 - Rick Histore]	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 ndicators (check he pipedon	o slopes cator or confirm the a Color (1 10YR re if indicate	beence of indicat Matrix Moist) 4/3 ors are n	tors.) (Type: C=C % 100 ot presen S4 - Sanc S5 - Sanc S5 - Sanc	oncentration, D: 	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix	ed/Coated Sand Grains: Loc dox Features % Indicators	ation: PL=Pore Lining Type s for Probler A16 - Coast S7 - Dark S F12 Ling Pa	Location Location	Texture (e.g. clay, sand loam) J, Ioam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	e: btion (Describe to Depth 14 Soil Field In A1- Histosol A2 - Histic Ej A3 - Black HI	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 idicators (check he pipedon istic en Sulfide	eator or confirm the a	beence of indicat Matrix Moist) 4/3 ors are n	tors.) (Type: C=C % 100 ot presen S4 - Sanc S6 - Strip F1 - Loan	oncentration, Di t) [C] by Gleved by Redox ped Matrix py Muck M	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix	d/Coated Sand Grains; Loc dox Features % <u>Indicators</u>	atton: PL=Pore Lining Type <	Location Location	es urface	l, loam)
Remarks: SOILS Map Unit Name Profile Descrij Top Depth 0 NRCS Hydric	e: bottom Depth 14 Soil Field In A1- Histosol A2 - Histic Ef A3 - Black H A4 - Hydroge A5 - Stratifier	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	slopes cator or confirm the a Color (I 10YR re if indicate	beence of indicat Matrix Moist) 4/3 -	tors.) (Type: C=C % 100 ot presen S4 - Sanc S5 - Sanc S5 - Strip F1 - Loan F2 - Loan	oncentration, D: 	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix	d/Coated Sand Grains; Loc dox Features % Indicator:	ation: PL=Pore Lining	a. M-Matrix) Location	es urface	d, loam)
Remarks: SOILS Map Unit Name Profile Descrij Top Depth 0 NRCS Hydric 0 NRCS Hydric	e: bottom Depth 14 Soil Field In A1- Histosol A2 - Histic El A3- Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M	Eldean Loam, 0-2% the depth needed to document the indi Horizon indicators (check he pipedon istic en Sulfide d Layers /uck	Slopes Color (I 10YR re if indicate	beence of indicat Matrix Moist) 4/3 -	tors.) (Type: C=C % 100 ot presen S4 - Sanc S5 - Sanc S5 - Sanc S6 - Strip F1 - Loan F3 - Deple	oncentration, D: t) [2] ty Gleyed ty G	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix k	ad/Coated Sand Grains: Loc dox Features % Indicators 	ation: PL=Pore Lining	a. M=Matrix)	es urface	d, loam)
Remarks: SOILS Map Unit Name Profile Descrij Top Depth 0 NRCS Hydric 0 NRCS Hydric	e: bottom (Describe to Depth 14 Soil Field In A1- Histosol A2 - Histic Ej A3- Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Depleto	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	o slopes cator or confirm the a Color (1 10YR re if indicate	bsence of indicat Matrix Moist) 4/3 -	tors.) (Type: C=C % 100 	oncentration, D: t) [2] y Gleyed by Redox ped Matrip ny Muck M ny Gleyed table Matrix x Dark Sto	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix K urface	d/Coated Sand Grains; Loc dox Features % <u></u> <u></u> -	ation: PL=Pore Lining	g. M=Matrix) Location	es urface	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric 0 0 0 0 NRCS Hydric	2: Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic EI A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deptet A12 - Thick EI S1 - Sond - N	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	o slopes cator or confirm the a Color (I 10YR re if indicate	bsence of indicat Matrix Moist) 4/3 -	tors.) (Type: C=C % 100 	oncentration, D: -	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix K Inface Surface Singes	d/Coated Sand Grains: Los dox Features % <u></u> 	ation: PL=Pore Lining	a. M=Matrix)	es	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric 0 0 0 NRCS Hydric	2: Bottom Depth 14 Soil Field In A1- Histosol A2 - Histosol A2 - Histosol A2 - Histosol A3 - Blatck Hi A4 - Hydroge A5 - Stratifice A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	slopes cator or confirm the a Color (I 10YR re if indicate	bsence of indicat Matrix Moist) 4/3 -	tors.) (Type: C=C % 100 	oncentration, Dr -	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix k urface Surface sions	d/Coated Sand Grains; Loc dox Features % <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> -	ation: PL=Pore Lining Type S for Problem A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	g. M=Matrix)	es	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric NRCS Hydric	2: Bottom Cescribe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifice A10 - 2 cm M A11 - Deplet A12 - Thick IC S1 - Sandy M S3 - 5 cm ML	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	s slopes cator or confirm the a Color (I 10YR re if indicato	bsence of indicat Matrix Moist) 4/3 	tors.) (Type: C=C % 100 	oncentration. Dr -	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix k Ineral Matrix k Inface Surface Surface	d/Coated Sand Grains; Loc dox Features % Indicators Indicators of hydrop	ation: PL=Pore Lining Type	g. M=Matrix)	es present, unless disturbed o	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric NRCS Hydric C C C C C C C C C C C C C	2: Depth Depth 14 Soil Field In A1- Histosol A2 - Histo El A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplett A12 - Thick IC S1 - Sandy M S3 - 5 cm Mt	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 ndicators (check he pipedon istic en Sulfide d Layers Muck ed Below Dark Surface Dark Surface Muck Kineral ucky Peat or Peat N/A	s slopes cator or confirm the a Color (10YR re if indicato	beence of Indicat Matrix Moist) 4/3 	mail (Type: C=C % 100 S6 - String String F6 - Redd F7 - Deplik F8 - Reddo N/A	oncentration. Dr -	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix K fineral Matrix K surface Surface sions	dlCoated Sand Grains; Loc dox Features % <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	ation: PL=Pore Lining Type	g. M=Matrix) Location	es present, unless disturbed o	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric NRCS Hydric C C C C C C C C C C C C C	2: Depth Depth 14 Soil Field In A1- Histosol A2 - Histo El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick II S1 - Sandy M S3 - 5 cm Mt	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 ndicators (check he pipedon istic en Sulfide d Layers fuck ed Below Dark Surface Dark Surface Auck Mineral ucky Peat or Peat N/A	slopes cator or confirm the a Color (10YR re if indicato	beence of indicat Matrix Moist) 4/3 	tors.) (Type: C=C % 100 ot presen S4 - Sanc S5 - Strip F4 - Loan F2 - Loan F3 - Deple F6 - Redc F7 - Deple F8 - Redc	encentration, D t)[] y Gleyed y Redox ped Matrix y Muck M y Gleyed ted Dark St ted Dark St ted Dark St ted Dark St	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix k inneral Matrix k urface Surface sions	AdCoated Sand Grains; Los dox Features % Indicators 1 Indicators of hydrop Hydric Soil	ation: PL=Pore Lining Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N F12 - Very Other (Explain hytic vegetation and Present?	g. M=Matrix) Location	es urface Texture (e.g. clay, sand loam es where the second	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric NRCS Hydric C C C C C C C C C C C C C	2: Depth Depth 14 Soil Field In A1- Histosol A2 - Histo E ₁ A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mt	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	slopes cator or confirm the a Color (10YR re if indicato	beence of indicat Matrix Moist) 4/3 -	tors.) (Type: C=C % 100 ot presen S4 - Sanc S5 - Strip F1 - Loan F2 - Loan F3 - Deple F6 - Redc F7 - Deple F8 - Redc N/A	oncentration, D- t)[] ty Gleyed ty Gleyed ty Gleyed ty Gleyed that risk St eted Dark St eted Dark St eted Dark St	Depletion, RM-Reduced Matrix, CS-Covere Rec Color (Moist) Matrix sufface Surface sions	ed/Coated Sand Grains; Loc dox Features % <u>Indicators</u> [Indicators -	ation: PL=Pore Lining Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very Other (Expla	a. M=Matrix) Location matic Soils 1 t Prairie Redox urface Aanganese Mass Shallow Dark Si ain in Remarks) wetland hydrology must t	es ve present, unless disturbed o Yes ☑ No	d, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric NRCS Hydric Restrictive Layer (If Observed) Remarks:	2: Depth Depth 14 Soil Field In A1- Histosol A2 - Histo EI A3 - Black H A4 - Hydroge A5 - Stratifier A11 - Deplet A12 - Thick IC S1 - Sandy M S3 - 5 cm Mu Type:	Eldean Loam, 0-2% the depth needed to document the indi Horizon 1 	slopes cator or confirm the a Color (10YR re if indicato	beence of indicat Matrix Moist) 4/3 ors are n Depth:	tors.) (Type: C=C % 100 ot presen S4 - Sanc S5 - Satrip F4 - Loan F2 - Loan F3 - Deple F6 - Redc F7 - Deple F8 - Redc N/A	oncentration, D t)[] y Gleyed y Redox ped Matrix y Muck Matrix xx Dark Ste teted Dark xx Depress	Depletion, RM=Reduced Matrix, CS=Covere Rec Color (Moist) Matrix (ineral Matrix x urface sions	ed/Coated Sand Grains: Loc dox Features % Indicators Indicators * Indicators of hydrop Hydric Soil	ation: PL=Pore Lining Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	a. M=Matrix) Location	es ve present, unless disturbed of Yes No	d, loam)



WETLAND DETERMINATION DATA FORM

Midwest Region

Project/Site:	Delano Station Expansion Project				Wetland ID: N/A	Sample Point: SP01
VEGETATION	(Species identified in all uppercase are not	n-native species.)				
Tree Stratum (P	lot size: 30 ft radius)					
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet	
1.						
2.					Number of Dominant Species that are OBL, FACW, or FAC:	1 (A)
3.						
4.					Total Number of Dominant Species Across All Strata:	<u> </u>
5.						
0.					Percent of Dominant Species That Are OBL, FACW, or FAC:	50% (A/B)
1.					Drevelance Index Warkshoot	
8.					Tetel % Cover of	
9.					<u>Total % Cover ol:</u> <u>Multiply by:</u>	
10.	 Total C				$\begin{array}{c c} \text{OBL spp.} & 0 & x & 1 - \\ \hline & \text{CACW spp.} & \text{or} & x & 2 - \\ \hline \end{array}$	
	Total C				FACW spp. 35 x 2 - 70	
Conling/Chrub Ct	rotum (Diot cize) 15 ft rodius)				FAC spp. 10 x 3 - 30	
Sapiing/Shrub Su	Acer pequado	5	N	FAC	$10 \times 5 = 50$	
1.				170	or <u>e</u> spp. <u>10</u> x o = <u>50</u>	
2.					Total 105 (A) 350	(B)
<u> </u>						(D)
4.					$Provolonoo \ln dox = P/A = 2.222$	
6						
8					Hydrophytic Vegetation Indicators:	
9					Ves V No Rapid Test for Hydrophytic Ve	adatation
10					\Box Ves \Box No. Dominance Test is > 50%	Systemory
10.	Total C	over = 5				
					Ves VID Morphological Adaptations (Ev	vnlain) *
Herb Stratum (Pl	ot size: 5 ft radius)					ion (Evolain) *
1.	Conium maculatum	35	Y	FACW		
2.	Lamium purpureum	10	N	UPL	* Indicators of hydric soil and wetland hydrolo	gy must be
3.	Plantago lanceolata	15	N	FACU	present, unless disturbed or problematic.	
4.	Solidado canadensis	10	Ν	FACU	Definitions of Vegetation Strata:	
5.	Taraxacum officinale	5	N	FACU		
6	Thlaspi arvense	20	Y	FACU	Tree - Woody plants 3 in. (7.6cm) or more	in diameter at breast
7.	Viola sororia	5	Ν	FAC	height (DBH), regardless of height.	
8.						
9.					Sapling/Shrub - Woody plants less than 3 in. DBH at	nd greater than 3.28
10.					ft. tall.	
11.						
12.					Herb - All herbaceous (non-woody) plants,	regardless of size,
13.					and woody plants less than 3.28 ft. t	tall.
14.						
15.					Woody Vines - All woody vines greater than 3.28 ft.	. in height.
	Total C	over = 100				
Woody Vine Stra	tum (Plot size: 30 ft radius)					
1.						
2.						
3.					Hydrophytic Vegetation Present	Yes 🗵 No
4.						
5.						
	Total C	over = 0				
Remarks:						

Additional Remarks:



WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: Applicant: Investigator #1:	Delano Statio AEP Ohio	on Expansion Project Transmission Comp r	any, Inc.	Invest	igator #2:	Rohini	Stantec Proj	iect #: 19370	08938	Date: County: State:	04/14 Ross Obio	/22
Soil Unit:	Eldean Loam, 0-2% slopes NWI/WWI Classification: NA								Wetland ID:	N/A		
Landform:	Plain			Loc	al Relief:	Linear				Sample Point:	SP02	
Slope (%):	0-1	Latitude:	39.40864	L	ongitude:	-82.961	467	D	atum:	Community ID	: UPL	
Are climatic/hyd	drologic cond	litions on the site typ	pical for this	time of	year? (If no	, explain in	remarks)	🗹 Ye	s 🗆 No	Section:		
Are Vegetation	\Box , Soil \Box ,	or Hydrology 🛛 sigr	nificantly dis	sturbed?			Are normal circ	cumstances pre	esent?	Township:		
Are Vegetation	\Box , Soil \Box ,	or Hydrology 🛛 nati	urally proble	ematic?			⊡ Ye	es N⊄		Range:		Dir:
SUMMARY OF	FINDINGS											
Hydrophytic Ve	getation Pre	sent?			s 🗹 No			Hydric	Soils Present?)		🗌 Yes 🗹 No
Wetland Hydro	logy Present	?			s 🗹 No			Is This	Sampling Poir	nt Within A Wet	land?	📕 Yes 🧧 No
HYDROLOGY Wetland Hydr	ology Indic	ators (Check here if	indicators	are not p	resent)⊡			Granda			
	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water N B2 - Sedime B3 - Drift De B4 - Algal Ma B5 - Iron De B7 - Inundati B8 - Sparsel	Water ater Table on larks nt Deposits oosits at or Crust oosits on Visible on Aerial Ima y Vegetated Concave S	gery urface		B9 - Wate B13 - Aqu B14 - Tru C1 - Hydr C3 - Oxid C4 - Pres C6 - Rece C7 - Thin D9 - Gaug Other (Ex	er-Stained latic Faunce ogen Sulfi ized Rhizce ence of Re muck Sur Muck Sur ge or Well plain in Re	Leaves a Plants de Odor Jospheres on Living Ro educed Iron eduction in Tilled Soils face Data emarks)	pots s	<u>Seconda</u>	IV: B6 - Surface S B10 - Drainage C2 - Dry-Seas C2 - Saturation C9 - Saturation D1 - Stunted o D1 - Stunted o D2 - Geomorp D5 - FAC-Neur	coil Crack Pattern on Wate Burrows Nisible r Stresse hic Posit tral Test	ks s r Table on Aerial Imagery ed Plants ion
Field Observat Surface Water Water Table Pr Saturation Pres	tions: Present? resent? sent? ded Data (str	Yes ✓ No Yes ✓ No Yes ✓ No Yes ✓ No Yes ✓ No eam gauge, monitorir	Depth: Depth: Depth: ng well, aeria	0 0 0 al photos,	(in.) (in.) (in.) previous i	inspection	ns), if available:	Wetla	nd Hydrology N/A	Present?	□ Yes	☑ No
Remarks:	(5 5 /	5,	,			<i>''</i>					
SOILS												
Map Unit Name):	Eldean Loam, 0-2%	slopes									
Profile Descrip	otion (Describe to	the depth needed to document the indi	cator or confirm the a	bsence of indica	tors.) (Type: C=C	oncentration, D=	Depletion, RM=Reduced Matrix, C	CS=Covered/Coated Sand C	Grains; Location: PL=Pore L	ining, M=Matrix)		
Тор	Bottom			Matrix				Redox Featu	ures		1	Texture
Depth	Depth	Horizon	Color (I	Moist)	%		Color (Moist)	%	б Туре	Location	(e.g.	clay, sand, loam
0	10	1	10YR	4/3	100			-				clay loam
10	14	2	10YR	4/3	60							clay loam
			10YR	5/4	30			-			-	clay loam
			TUYR	5/6	10						-	ciay loam
								-				
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm M	idicators (check he pipedon stic en Sulfide d Layers Muck ed Below Dark Surface Dark Surface Muck Mineral ucky Peat or Peat	re if indicate	ors are n	ot presen S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Deple F6 - Redc F7 - Deple F8 - Redc	t) Iv Gleved Iv Gleved Iv Redox ped Matrix ny Muck M ny Gleved ted Matri ox Dark Su box Dark Su box Depress	Matrix Gineral Matrix Kurface Surface sions	Ind	icators for Prob A16 - Coa S7 - Dark F12 - Iror TF12 - Va Other (Ex of hydrophylic vegetation	tematic Soils ¹ ast Prairie Redox Surface -Manganese Mas ery Shallow Dark S plain in Remarks) and wetland hydrology must	ses Surface	unless disturbed or problemat
Restrictive Layer	Type:	N/A		Depth:	N/A			Hydrid	Soil Present	?	Yes	☑ No
(If Observed)	71							,				
rtemarks:												



WETLAND DETERMINATION DATA FORM

Midwest Region

Project/Site:	Delano Station Expansion	Project				Wetland ID: N/A Sample Point:	SP02
VEGETATION	(Species identified in all upperc	ase are non-native	species.)				
Tree Stratum (P	lot size: 30 ft radius)						
	Species Name		% Cover	Dominant	Ind.Status	Dominance Test Worksheet	
1.							
2.						Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	
3.							
4.						Total Number of Dominant Species Across All Strata:(B)	
5.							
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)	
7.							
8.						Prevalence Index Worksheet	
9.						Total % Cover of: Multiply by:	
10.						$OBL spp. \qquad 0 \qquad x \ 1 = 0$	
		Total Cover =	0			FACW spp. 15 x 2 = 30	
			Ŭ			$FAC spp = 10 \qquad x 3 = 30$	
Sapling/Shrub St	ratum (Plot size: 15 ft radius)					$FACU spp. 75 \times 4 = 300$	
Japining/Shirub St						$\frac{1100 \text{ spp}}{100 \text{ spp}} = \frac{75}{100 \text{ spp}} = \frac{75}{100 \text{ spp}}$	
1. 2						$01 L spp. _ 0 x 0 = 0$	
2.						Total 100 (A) 260 (P)	
3.						100 (A) <u>500 (B)</u>	
4.							
5.						Prevalence Index = $B/A = 3.600$	
6.							
7.							
8.						Hydrophytic Vegetation Indicators:	
9.						Yes I No Rapid Test for Hydrophytic Vegetation	
10.						Yes I No Dominance Test is > 50%	
		Total Cover =	0			□ Yes \Box No Prevalence Index is ≤ 3.0 *	
						Yes Vo Morphological Adaptations (Explain) *	
Herb Stratum (PI	ot size: 5 ft radius)					□ Yes	
1.	Sorghum halepense		40	Y	FACU		
2.	Viola sororia		10	Ν	FAC	 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic 	
3.	Conium maculatum		15	Ν	FACW		
4.	Thlaspi arvense		10	N	FACU	Definitions of Vegetation Strata:	
5.	Allium canadense		10	Ν	FACU	•	
6	Galium aparine		15	N	FACU	Tree - Woody plants 3 in (7.6cm) or more in diameter at breast	
7						height (DBH), regardless of height.	
8							
0. Q						Sanling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28	
10						ft. tall.	
10.							
11.						Horh _ All herbaceous (non-woody) plants regardless of size	
12.						and woody plants less than 3.28 ft. tall.	
13.							
14.							
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.	
		Total Cover =	100				
Woody Vine Stra	tum (Plot size: 30 ft radius)						
1.							
2.							
3.						Hydrophytic Vegetation Present Ves No	
4.							
5.							
<u> </u>		Total Cover =	0				
Remarks:		10101 00101 -	.				
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<u> </u>							

Additional Remarks:

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/27/2022 11:44:41 AM

in

Case No(s). 22-0577-EL-BNR

Summary: Notice Construction Notice Delano Station Expansion Project. Part 3 of 3 electronically filed by Hector Garcia-Santana on behalf of Ohio Power Company