September 5, 2017

nationalgrid

Hon. Kathleen H. Burgess Secretary New York State Public Service Commission Three Empire State Plaza Agency Building 3 Albany, NY 12223-1350

Re: Niagara Mohawk Power Corporation d/b/a National Grid – Part 102 Report Gardenville-Erie 54/921 115 kV Maintenance Project Case 17-T-____

Dear Secretary Burgess:

Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid"), pursuant to 16 NYCRR §102, submits for filing one CD-ROM containing a full electronic version of the *Gardenville-Erie 54/921 115 kV Maintenance Project* Part 102 Report. Upon request, National Grid will deliver one or more hard copies of the Application to DPS Staff.

The project is located in the Town of Cheektowaga in Erie County, NY.

Thank you for your attention to this matter.

Very truly yours,

Lisa M. Zafonte

Lisa M. Zafonte Senior Counsel Attorney for the Applicant, Niagara Mohawk Power Corporation d/b/a National Grid

Enclosures

cc: Rachel Gibson, National Grid (via email without enclosures) Mary Bitka, National Grid (via email without enclosures) Niagara Mohawk Power Corporation d/b/a National Grid Gardenville-Erie 54/921 115kV Reconductoring Project

Report to the State of New York Public Service Commission on the Installation of Non-Article VII Electric Transmission Facilities Pursuant to 16 NYCRR 102



Syracuse, New York 13202

September 2017

Contact Information

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1.0 INTRODUCTION, PROJECT OVERVIEW AND NEED

Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid") proposes to replace two structures (193 and 193-1), along with approximately 1,800 feet of conductor (the "Project") on the T1230 Gardenville-Erie 54/921 115kV transmission line ("Line") in order to improve the thermal rating of the Line. During studies of the system in Western NY, the Gardenville – Erie 54/921 line was observed to overload during contingency conditions. The Project is necessary because the existing copper and aluminum conductor between Structures 193 and 196 is not sufficient and will be replaced with 636 ACSR "Grosbeak" conductor, a heavier conductor; hence, the need to replace Structures 193 and 193-1 to structurally support the new conductor.

The Line is located between the National Grid Gardenville Substation in West Seneca, NY and the Depew Substation (owned by NYSEG) in Cheektowaga, NY. It is approximately 7.3 miles in length and traverses the Towns of West Seneca and Cheektowaga in Erie County, NY (*see* Figure 1). The Line, built in 1942, is supported on a combination of double circuit flexible steel structures, square based lattice towers and wood pole structures. The Line occupies its present location on a Right-of-Way (ROW) which is owned in fee. Structure 193 is a steel flex tower suspension tap structure and structure 193-1 is a 3 pole wood deadend tap structure (see Appendix A), both installed in approximately 1942 and both located in the Town of Cheektowaga, NY.

2.0 **PROJECT INFORMATION**

2.1 **Project Purpose and Scope of Work**

A review of the Project was conducted in accordance with the criteria specified in 16 NYCRR Part 102. The Project requires preparation of this Part 102 Report because: the Line has a voltage of 65 kV or higher; the proposed work is on a line where the total circuit length extends one mile or longer, even though the work to be performed is on a much shorter segment; and the proposed work involves the replacement of two (2) structures (Nos. 193 and 193-1) requiring an increase in structure height by more than 10 feet (*see* Table 1). *See* 16 NYCRR §102.2(a)(2). The increase in structure height is required in order to achieve the required conductor clearances for safety clearances over Norfolk and Southern railroad tracks.

The Project activities will take place completely within this portion of the existing ROW, which National Grid owns in fee. National Grid is actively coordinating the reconductoring activities, as described herein, with the underlying railroads. All required railroad permits (i.e., work and occupancy permits) will be obtained prior to the initiation of construction activities.

National Grid screened for the potential impact to priority areas specified in Section 102.3(a) via the use of desktop GIS analysis, agency consultation and field verification, and as indicated in Appendix B (the Part 102 Checklist), the Project will not impact the

priority areas specified in Section 102.3(a); therefore, an advantage-disadvantage analysis is not required as part of this Report. Discussion of "other areas" triggered under Section 102.3(b) is presented in Section 3.0 of this Report.

Construction access will be from Ludwig Avenue and existing access road on the ROW to access structures No. 193 and 193-1. Minor brush mowing to access structures No. 193 and 193-1 may be required and wood timber mats/work pads will be used to access the structures from the ROW access road. New structure 193 will be offset sixty (60) feet to the north from the existing location and new structure 193-1 will be offset sixteen (16) feet to the east from the existing location to permit construction of the new structures prior to removal of the existing structures. Erosion and sediment control measures (e.g., silt fence or filter socks) will be used as appropriate to minimize stormwater discharge.

2.2 **Project Area/Setting**

Figure 2 identifies the general location of the area that requires installation of replacement Structure Nos. 193 and 193-1. The Gardenville-Erie 54/921 transmission line shares a right-of-way with several other transmission lines, as shown in Figure 3, with voltages ranging from 60kV to 230kV.

As shown on Figure 2, none of the structures associated with this Project are located in agricultural districts, as determined from New York State Department of Agriculture & Markets' agricultural data. A detailed aerial map is presented in Figure 3 and shows each structure to be worked on, structure access, along with nearby mapped National Wetlands Inventory (NWI) wetlands.

2.3 Transmission Facility

The existing Gardenville-Erie 54/921 115 kV line is supported on a combination of double circuit flexible steel structures, square based lattice towers and wood pole structures. National Grid is replacing steel suspension flex Structure 193 with a double circuit steel pole (with a caisson foundation). The foundation size is 6 feet (diameter) x 16 feet (depth) for Structure 193. Proposed insulators are porcelain disc 30K gray. The shieldwire consists of 2-3/8" CW between structures 193 and194 and 2-3/8" H.S. ST between structures 194 and196, but will not be replaced (*see* Appendix C for details on structures, conductor, insulators and shieldwire). The grounding specification is presented in Appendix D. Table 1 identifies the proposed structure type at each work location.

The existing conductor is 636 kcmil ACSR "Kingbird," 636 kcmil AAC "Orchid" and 400 CU 19S. Reconductoring from Structure 193-1 to 196 (three wires) will consist of 636 kcmil ACSR "Grosbeak." This span of new conductor will neither increase the overall rating of the line nor change the voltages along the line. Consequently, National Grid does not intend to conduct an electric and magnetic field strength study as part of this project.

Erosion and sediment control measures for all work on ROW shall be in compliance with National Grid USA "Environmental Guidance No. EG-303NY; Natural Resource Protection-ROW Access, Maintenance and Construction Best Management Practices." Best management practices (*e.g.*, silt fencing, timber mats, etc.) will be employed, as needed, while working on this Project and the area will be restored to original conditions.

3.0 ENVIRONMENTAL RESOURCES EVALUATION

National Grid screened for the presence of §102.3(b) classes of areas via the use of desktop GIS analysis, agency consultation and field verification. Additionally, the Town of Cheektowaga online zoning map was used to identify the subject parcel zoning information, as presented in Table 1. In support of the analysis of the criteria in 16 NYCRR Part 102, §§102.3(b)(1)-(13), and as shown in Appendix B (the Part 102 Checklist), the following areas were specifically reviewed:

Threatened and Endangered Species

The New York State Department of Environmental Conservation ("NYSDEC") Natural Heritage Program (NHP) newly upgraded online Environmental Resource Mapper was reviewed for potential impacts to rare plants and rare animals. The database did not return any identification of rare or state-listed animals or plants or significant natural communities located in the Project vicinity.

The USFWS Information, Planning, and Conservation System (IPaC) was consulted to determine the potential for occurrences of federally-listed species (*see* Appendix E). According to the USFWS species list, the Northern Long-Eared Bat (*myotis septentrionalis*) ((NLEB) is listed as a threatened species, and also has the potential to occur in the Project vicinity. However, there are no trees located in the ROW of the existing transmission line that could provide summer roosting habitat for the NLEB. Therefore, this Project will have no impact upon NLEB that may be in the vicinity. Several migratory birds have been identified as potentially being affected by activities in the project vicinity; all are listed as "bird of conservation concern" as defined by the 1988 amendment to the Fish and Wildlife Conservation Act that mandates the USFWS to "identify species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become candidates for listing under the Endangered Species Act (ESA) of 1972." The proposed replacement structures are not expected to result in the take of any migratory birds nor impact the habitat of any of the bird species listed in Appendix E.

Historic Resources

The New York State Office of Parks, Recreation and Historic Preservation's (OPRHP) Division for Historic Preservation Cultural Resource Information System (CRIS) database was reviewed for the presence of any buildings, sites or districts listed on the State or National Registers of Historic Places ("NRHP") located within one mile of the Project corridor. None were identified. Additionally, via CRIS, a consultation request was sent via the New York State Historic Preservation Office ("SHPO") Cultural

Resources Information System (CRIS) requesting an opinion as to the Project's potential impact on cultural resources. On July 20th, 2017, OPRHP notified National Grid that the Project will have no impact on archaeological and/or historic resources (*see* Appendix E).

In addition to the aforementioned review, and as identified in the Part 102 checklist (*see* Appendix B), existing light industrial and commercial areas (e.g., industrial parks, shopping centers, office building complexes) \$102.3(b)(5) required additional analysis.

Wetlands

The structure replacement activities will take place only in mapped NWI wetlands. Timber mats will be used during the construction activities. Minor permanent impact to wetlands is expected (i.e., less than 0.1 acres); however, all areas will be restored to original contours and mulched as necessary to promote re-vegetation. National Grid will self-authorize the use of US Army Corps of Engineer's Nationwide Permit #12 (Utility Line Activities) for this project.

3.1 Existing Light Industrial and Commercial Areas

As indicated in the Part 102 checklist §102.3(b)(5), structure Nos. 193 and 193-1 are located in an area zoned as "M2 – General Manufacturing District" by the Town of Cheektowaga. Minimal vegetation mowing may be required to install Structures 193 and 193-1. Access to the structure will be from an existing paved access road and matting to each structure. All work will be completed using National Grid's best management practices to minimize any potential impacts to the area.

TABLES

Table 1. Summary of Proposed Work for Gardenville-Erie 54/921									
	Structure Replacement/Reconductoring Project								
Structure(s) to be Worked	Existing Structure Type	Town	Parcel Zoning Code	Existing Structure Height Above Ground (feet)	Type of Work	Proposed Structure Height Above Ground (feet)	Proposed Structure Type		
193	Steel flex suspension / Appendix A	Cheektowaga	M2	67	Replacement	86*	Steel single pole double circuit double shieldwire /Appendix C		
193-1	Three pole wood deadend / Appendix A	Cheektowaga	M2	38.5/38.5/38.5	Replacement	70/56.5/43	Three wood pole terminal structure/Appendix C		

*- Includes an additional foot because the structures will sit on concrete foundation.

FIGURES







APPENDIX A

Existing Structure Detail



Existing Structure 193-1

ALC: NO.

APPENDIX B

Part 102 Checklist

Part 102 Checklist

Project Name: Gardenville-Erie 54-921 115kV Reconductoring Project

Date: August 2017

Triggers:	Yes	No
Are additional rights-of-way required?		X
Are any additional structures to be added to the line?		x
Will the resulting structure carry more than two circuits?		x
Will there be any additional vegetative rights or trimming required?		x
Will the height of the tower increase by 10' or more?	X	

Project Data Form Installation of Non-Article VII Electric Transmission Facilities

102.3 Classes of Areas		
(A) For transmission lines in the following areas, the analysis required by Section 102.4 of this Part must be included in the report of the proposed construction:	Will	Will Not
1 National and state parks, preserves, reservations, landmarks and monuments formally so designated and acquired for their natural, scenic or cultural value by appropriate state and federal agencies. (Included would be historic landmarks, national landmarks, national monuments and trails, and wild and scenic rivers).		x
2 Historic sites formally so designated by national or state agencies but without acquisition of rights or ownership sufficient for the purpose of preservation.		x
3 Central business districts in cities and villages.		x
4 Developed and partly developed residential areas with an existing density of one or more dwelling units per acre, as shown on approved subdivision maps, occupying a minimum contiguous area of 20 acres, all or a portion of which would be traversed by the proposed transmission facility right-of-way.		x
(B) Other Areas for which reports, but without the analysis required by Section 102.4 of this Part, are required:	Will	Will Not
1 Areas of outstanding natural or scenic value which are preserved by non-profit private agencies but which have not been formally so designated by national or state agencies.		x
2 Areas of outstanding cultural value (e.g., attractive pastoral scenes, locations of noteworthy architectural and/or social import both within and outside specific sites) that have been formally designated by the appropriate governmental authority.		x
3 Existing local (city, town, village and county) parks and open space areas that have been formally established by governmental or private authorities.		x
4 Public and semi-public facilities such as cemeteries, educational, correctional and medical facilities and military installations.		x
5 Existing light industrial and commercial areas (e.g., industrial parks, shopping centers, office building complexes).	x	
6 Partially developed residential areas where the subdivision will have an eventual population density of one or more dwelling units per acre, as shown on approved subdivision maps, comprising a minimum contiguous area of 20 acres or a portion of which is traversed by the proposed transmission facility right-of-way.		x
7 Areas of outstanding cultural value (e.g., attractive pastoral scenes, locations of noteworthy architectural and/or social import both within and outside specific sites that lend attractiveness to a neighborhood or community) that have not been formally designated by a governmental or private authority.		x
8 Residential areas with less population density than those specified in preceding categories.		x
9 Planned and zoned undeveloped light industrial, commercial and residential areas.		x
10 Managed woodlands (e.g., commercial and other productive forests).		x
11 Agricultural districts established in accordance with Chapter 25-AA of the Agriculture and Markets Law, and other farmlands.		x
12 Existing and planned heavy industrial areas.		x
13 Woods and open lands other than those included within areas specified in a priority area above.		x

APPENDIX C

Structure, Insulator and Foundation Details



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RANT CLAMP, ALUMINIUM 0.7"-1.42" 9320354 CI INSULATOR, CLASS 52-3 9311629 BALL 9312243 3/4", 16" LG 9320636 INKIPS RATING, 13/16" DIA HOLE 9307405 JLATOR 9313698 ALUMOWELD 9313584 SS GUY MARKER 9313523 8", GALV 9313523 8", GALV 9313466 NASHER FOR 3/4" & 1" RODS 9313466 NASHER FOR 3/4" DIA BOLT 9320428 93202023 9312022 SR KINGBIRD PO ACSR GROSBEAK PO D" REUSE	CLASS 2 CLASS 1 CLASS 1 CLASS 1 CLASS 1 CLASS 1	9310619 9311703 9311669		ыте 4/2016
AC INSULATOR, CLASS 52-3 931 1629 BALL 9312243 '3/4', 16' LG 9312636 ioKIPS RATING, 13/16" DIA HOLE 9307405 JLATOR 9313584 ALUMOWELD 9314657 SS GUY MARKER 9313584 9314658 9314657 8: GALV 9313584 9314658 9313688 ATIC AND ADJUSTABLE 9313688 9314658 9313688 ATIC AND ADJUSTABLE 9313688 YALL LOURD 9314657 SE GUY MARKER 9313523 8: GALV 9319786 NE BOLT WITH NUT, DIA 3/4" 9319786 NASHER FOR 3/4" & 1" RODS 9313466 93202023 900 2023 SR KINGBIRD PO ACSR GROSBEAK PO D" REUSE	CLASS 2 CLASS 1 CLASS 1 CLASS 1 CLEVIS	9310619 9311703 9311669 9305140		ME DATE 04/2016
23/4", 16" LG 9320636 3/4", 16" LG 9320636 90KIPS RATING, 13/16" DIA HOLE 9307105 JLATOR 9313698 ALUMOWELD 9314657 SS GUY MARKER 9313584 9314658 9313523 8', GALV 9319496 SEMBLY, 8' DIA FOR 3/4" & 1" RODS 9313466 NE BOLT WITH NUT, DIA 3/4" 9319786 NASHER FOR 3/4" DIA BOLT 9320428 9320223 90 SR KINGBIRD PO D" REUSE	CLASS 2 CLASS 1 CLASS 1 CLASS 1 CLASS 1 CLASS 1 CLASS 2 CLASS	9310619 9311703 9311669 9305140 9320354		AL NAME DATE
NKIPS RATING, 13/16" DIA HOLE 9307178 30KIPS RATING 9307405 30KIPS RATING 9313698 ALUMOWELD 9314657 SS GUY MARKER 9313584 9314658 9313523 8'. GALV 9313466 NE BOLT WITH NUT, DIA 3/4" 9313466 NASHER FOR 3/4" & 1" RODS 9313466 NASHER FOR 3/4" DIA BOLT 9320223 SR KINGBIRD PO ACSR GROSBEAK PO D" REUSE	CLASS 2 CLASS 1 CLASS 2 CLASS	9310619 9311703 9311669 9305140 9320354 9311629 9312243		RIGINAL WWE DATE AMN Defension of the control of th
30KIPS RATING 9307405 JLATOR 9313698 ALUMOWELD 9314657 SS GUY MARKER 9313584 9314658 9313584 9314658 9313523 8'. GALV 9313466 NE BOLT WITH NUT, DIA 3/4" 9313466 NASHER FOR 3/4" & 1" RODS 9313466 NASHER FOR 3/4" DIA BOLT 9320428 93202023 93202023 SR KINGBIRD PO ACSR GROSBEAK PO D" REUSE	CLASS 2 CLASS 1 CLASS 1 -CLEVIS RANT CLAMP, ALUMNINUM, 0.7"-1.42" C INSULATOR, CLASS 52-3 BALL 3/4", 16" LG	9310619 9311703 9311669 9305140 9320354 9311629 9312243 9320636		ORIGINAL MARE DATE DRAWN OFECKED CHECKED XW 04/2016 REVIEWED XW 04/2016
JLA TOR 9313598 ALUMOWELD 9314657 ALUMOWELD 9314657 SS GUY MARKER 9313584 9314658 9313584 9314658 9313465 ATIC AND ADJUSTABLE 9313466 8'. GALV 9319496 SE MELY, 8' DIA FOR 3/4'' & 1'' RODS 9313466 NASHER FOR 3/4'' DIA BOLT 9320223 SR KINGBIRD PO ACSR GROSBEAK PO D'' REUSE	CLASS 2 CLASS 1 CLASS 1 CLASS 1 CLASS 1 CLASS 1 CLEVIS RANT CLAMP, ALUMNINUM, 0.7"-1.42" C INSULATOR, CLASS 52-3 BALL '3/4", 16" LG KOKIPS RATING, 13/16" DIA. HOLE	9310619 9311703 9311669 9305140 9320354 9311629 9312243 9320636 9307178		ORIGINAL MARE DITE DRAWN OFFICIENT CHECKED XW 04/2016 APPROVED A
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8'. GALV 9319496 9EMBLY, 8' DIAFOR 3/4" & 1" RODS 9313466 NE BOLT WITH NUT, DIA 3/4" 9319786 NASHER FOR 3/4" DIA BOLT 9320428 9322023 9322023 SR KINGBIRD PO ACSR GROSBEAK PO D" REUSE	ALUMINUM, DIA U.S. 1.05 CLASS 2 CLASS 1 CLASS 1 -CLEVIS RANT CLAMP, ALUMNINUM, 0.7"-1.42" C C INSULATOR, CLASS 52-3 BALL 3/4", 16" LG IOKIPS RATING, 13/16" DIA. HOLE 30KIPS RATING JLATOR ALUMOWELD SS GUY MARKER	9310619 9311703 9311703 9305140 9305140 930544 9311629 9312243 9320636 9307178 9307405 9313698 9314657 9313584 9314658		14-921 ORIGINAL <u>NAME DATE</u> Line <u>DAWNN DAWNN CUCTURE</u> UCTURE <u>REVIEND XW 04/2016</u> ACEMENT APPROVED A
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ACSR GROSBEAK PO D" REUSE	CLASS 2 CLASS 2 CLASS 1 CLASS 1 CLA	9310619 9311703 9311669 9305140 9320354 9311629 9312243 9320636 9320636 9320636 9307405 9313698 9314657 9313584 9314657 9313584 9314658 9313523 9319496 9313466 9319786 9320428 932023		NVIIIB - Erie 54 - 921 ORIGINAL NUE DATE V Transmission Line V POLE TERM STRUCTURE REVENDE REVENDE MARRANE REVENDE MARRANE
	ALCONINUM, DIA U.S. 1.08 CLASS 2 CLASS 1 CLEVIS RANT CLAMP, ALUMNINUM, 0.7"-1.42" CC INSULATOR, CLASS 52-3 BALL 34", 16" LG 30KIPS RATING, 13/16" DIA HOLE , 30KIPS RATING JLATOR ALUMOWELD SS GUY MARKER ATIC AND ADJUSTABLE 8', GALV SEMBLY, 8' DIA FOR 3/4" & 1" RODS NE BOLT WITH NUT, DIA 3/4" WASHER FOR 3/4" DIA BOLT SR KINGBIRD SIGNE DUE FOR FOR 140	9310619 9311703 9311703 9311669 9305140 9320354 9311629 9312243 9320636 9307178 9320636 9307178 9313698 9314657 9313584 9314658 9313523 9319496 9313466 9319786 9320428 932023 PO		Jenville – Erie 54–921 ORIGINAL NUE DATE 115kV Transmission Line DAWN 00D POLE TERM STRUCTURE DEMON 0.01 POLE TERM STRUCTURE DEMON 0.02 POLE TERM STRUCTURE DEMON
· · · · ·	ALOWINOM, DIA U.S. 108 CLASS 2 CLASS 1 CLASS 1 CLASS 1 CLASS 1 CLAMP, ALUMNINUM, 0.7"-1.42" CONSULATOR, CLASS 52-3 BALL 30KIPS RATING, 13/16" DIA HOLE 30KIPS RATING JLATOR ALUMOWELD SS GUY MARKER ATIC AND ADJUSTABLE 8". GALV SEMBLY, 8" DIA FOR 3/4" & 1" RODS NE BOLT WITH NUT, DIA 3/4" WASHER FOR 3/4" DIA BOLT SR KINGBIRD ACSR GROSBEAK D"	9310619 9311703 9311669 9305140 93020354 9311629 9312243 9320636 9307178 9307405 9313698 9314657 9313584 9314658 9313523 9319496 9313466 9319786 9319786 9320428 932023 PO PO		ardenville – Erie 54–921 ORIGINAL NULE DATE 115kV Transmission Line 5 WOOD POLE TERM STRUCTURE 5 WOOD POLE TERM





IATERIAL LIST	
DESCRIPTION	PART
NT, DE, ALUMINUM, 0.70"-1.42"	9320354
	9312426
IS	9307402
	9308342
TY-CLEVIS	9305140
CELAIN DISK, 30K GRAY	9311544
S BALL	9312243
LOOP	9312764
SUSP, ALUMINUM, 0.75"-1.18"	9312478
PLICE FOR 7#8 COPPERWELD	9313374



INCHES ON ORIGINAL

ANCHOR BOLT LENGTH: 9'-0" MANUFACTURE DRAWING NO. : 18011-P01-ABT

FOUNDATION LENGTH: 16'-0' (INCLUDING STICK-UP) FOUNDATION DIAMETER: 6'-0"

VERTICAL REBARS: 14-#14 BARS @ 12.8" O.C. LENGTH = 15'-6" BAR CIRCLE DIAMETER = 57.3"

16.8 CUBIC YARDS OF CONCRETE ARE REQUIRED FOR THIS FOUNDATION. THIS CORRESPOND TO THE FOUNDATION'S "NEAT LINE", AND <u>DOES NOT</u> INCLUDE ANY EXTRA CONCRETE THAT MAY BE REQUIRED AS BACKFILL AROUND THE CASING.

THIS QUANTITY IS PROVIDED FOR ESTIMATING PURPOSE ONLY, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE AMOUNT OF CONCRETE NEEDED.

1. COMPRESSIVE STRENGTH OF CONCRETE TO BE 4000 PSI AT 28 DAYS.

2. AGGREGATE SHALL CONFORM TO ASTM C33, CEMENT SHALL CONFORM TO ASTM C150, TYPE II. CONCRETE SHALL BE PROTECTED FROM THE LOSS OF MOISTURE FOR A MINIMUM OF 7 DAYS.

3. ALL REINFORCING STEEL MUST MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.

4. FORMED CONCRETE SURFACES WHICH WILL BE EXPOSED ABOVE GRADE SHALL BE CLEANED AND RUBBED TO PRODUCE A SMOOTH, UNIFORM SURFACE FREE OF MARKS, VOIDS, SURFACE GLAZE AND DISCOLORATION.

5. ALL CONCRETE SHALL BE PLACED IN A SINGLE CONTINUOUS OPERATION TO PRODUCE A MONOLITHIC FOUNDATION.

6. PRE-ASSEMBLED ANCHOR BOLT CAGES SHALL BE FURNISHED BY THE STRUCTURE FABRICATOR. CONTRACTOR SHALL VERIFY ANCHOR BOLT PROJECTION AND ORIENTATION OF ANCHOR BOLT CAGE WITH FABRICATOR'S DRAWING BEFORE CONSTRUCTION. SEE STEEL POLE MANUFACTURER DRAWINGS FOR ORIENTATION OF ANCHOR BOLT CLUSTER.

7. ALL GROUNDING INCLUDING ANCHOR BOLTS PER SP.06.01.301.101

8. ALL CLEARANCES FROM FACE OF FOUNDATION TO BARS AND HOOPS ARE CLEAR SPACING (I.E. DISTANCE FROM FACE OF FOUNDATION TO EDGE OF BAR) 9. THE STRUCTURE IS NOT DESIGNED FOR TERMINAL DEADEND CONDITION.

WORK DONE AS SHOWN	
NOTE CHANGES ON PRINT	OR SKETCH
FOREMAN	DATE
TEST FOREMAN	DATE
THIS MUST BE FILLED	IN BY FOREMAN

APPENDIX D

Grounding Specification





INCHES ON ORIGINAL	

MATERIAL LIST			
DESCRIPTION	PS TIEM ID	SAP ITEM ID	
Common Grade Steel Wire np. Parallel Groove, Bronze	5998530	9306353	
np, Ground Rod, ⁵ / ₈ "	5106194	9305898	
, Copperweld, Ground, ½" x 8'-0"	3503013	9313616	
np, Bronze	5105146	9309820	
und Clamp for Anchor Rod	5986688	9320250	NTF 278
$\frac{\text{Hex }/_2 \text{SS}}{\text{OLT RPONZE TERMINAL LUC}}$	7001719	9319754	DETAI
T. STAINLESS STEEL 1/2"x1"	5624913	9320330	PAG ETS 272 06 E
HER, BELLEVILLE, STAINLESS STEEL, 1/2"	7006022	9319830	EM L 201
E, #4, BARE, SOLID COPPER	4015001	9316523	M ID JOFF, OR, SOBL
 NOTES: 1. TESTING OF GROUND IMPE SHALL BE PERFORMED ON SP.06.01.301, AND THE AF SUPPLEMENTARY GROUND THIS DRAWING AND AS SPI 2. TESTING OF GROUND IMPE OR LATTICE TOWERS IS NO SP.06.01.301. 3. ARRANGEMENT OF GROUND SHOWN IN FIGURES; CONN REFERENCED DETAIL DRAWI 4. STRUCTURES WHICH DO NO GROUND GRID INSTALLATION GROUND WIRE CUT OFF 12" BURIED AT LEAST 12" BEL 	DANCE FOR WO EACH POLE AS PROPRIATE GRIDS INSTALLE ECIFIED IN SP.(DANCE FOR ST DT REQUIRED P RODS AND CO ECTIONS SHOWI NGS DT REQUIRE AD N SHALL HAVE ' BELOW GROUN OW GROUNDLIN	OOD POLES S ED BASED ON D6.01.301 EEL POLES ER OUNTERPOISE N IN DITIONAL EXCESS NDLINE OR E	VERDATEVERDATE1104/25/14ADDDETAILDESCRIPTIONS, ADDHDPEPIPE1209/19/14CLARIFYDETAIL4ANDCORRECTGROUNDROD1306/23/15CHANGEWIREMESHFROMROLLEDTO5'4"x6'-1411/30/15ADD2ndPOLARMGROUNDINGP.1, ADDNOTE2P.2, R1505/04/16REPLACEGROUNDINGLUGWITH2HOLEBRONZETERMI1605/26/16REMOVESTEEL <pole< td="">FLANGECONNECTIONDETAIL1709/14/16CHANGEGROUNDRODCLAMPTOPAG21NCDEDARTMENTDOCLIMENTSCARINETINDOCLIMENTLAFINIT</pole<>
			nationalgrid
			PREPARED BY JLC 02/02/10 REVIEWED BY JME 02/02/10 APPROVED BY MSB 02/02/10 SCALE NONE SCALE NONE INDEX SP.06.01.301
			NSMISSION LINE STANDARD GROUNDING DETAILS FOR TRANSMISSION LINE STRUCTURES

ANSMISSION

R



SMISSION	STRUCTURE	GROUND	GRID	CONFIGURATION	PLAN	VIEWS



MATERIAL LIST			NO
DESCRIPTION	PS ITEM ID	SAP ITEM ID	VERS
6 WIRE MESH, 8" SQUARES, 40% Cu CLAD '—4"x6'—0" FLAT MAT	9202952	9307626	DVED
OPPER CRIMPIT ("C" TYPE)	5105243	9309996	D APPR(
/8" COMMON GRADE STEEL WIRE (FEET)	5998530	9306353	REVIEWE
LAMP, GROUND ROD	5106194	9305898	EPARED
LAMP, PARALLEL BRONZE	5962562	9320554	1 3
OD, GROUND GALV 5/8" x 8'-0" LG	3503013	9313616	Ш
OLT, MACHINE GALV 5/8" x 14" OR 16"	7001503 7001505	9309119 9320015	
ASHER, CURVED 2 1/4" SQUARE	5997810		Ш
IRE, #2 7 STRAND SD COPPER, COVERED	4001042	9312556	Ш
LIP, BONDING FOR 5/8" BOLT	5987955	9320450	Ш
UT, SQUARE GALVANIZED 5/8"	5993400	9319911	Ш
ALNUT, GALVANIZED 5/8"	7024158	9322021	TION
ASHER, SPRING CLIP FOR 5/8" BOLT	5997480	9319582	SCRIP
IOLDING, PLASTIC	3503053	9313613	A DES
TAPLES, 2" GALVANIZED	0811201	9314525	RSIO
LIP, BONDING FOR 3/4" BOLT	5987950	9313173	K
UT, GALVANIZED 3/4"	5993410	9307167	L

NOTES:

1. PLACE SIX SECTIONS OF WIRE MESH AS SHOWN IN RELATION TO THE FULL HANDLE SWING.

2. JOIN EACH GRID SECTION WITH COPPER CRIMPITS, ITEM 2. 3. DOWNLEAD WIRE AND GROUND RODS SHOULD NOT TOUCHWIRE MESH.

4. GROUND RODS TO BE PLACED AS SHOWN IN SECTION B-B. 5. STRIP ENOUGH OF THE #2 COPPER COVERED WIRE TO MAKE A GOOD CONNECTION.

	PREPARED BY , II C 02/02/10		VER DATE	VERSION DESCRIPTION	PREPARED REVIEWED APPRO	VED VERS	SION
IRANDMIDDIUN LINE DIANDARD			11 04/25/14 ADD DETAIL DESCRIPTIONS, AD	ND HDPE PIPE	TEC KAD		
	REVIEWED BT JIVIE UZ/UZ/ IU	•	12 [09/19/14] CLARIFY DETAIL 4 AND C(ORRECT GROUND ROD CLAMP ITEM ID ON PAGE 2	2 TEC BMR KA	7	
	APPROVED BY MSB 02/02/10		1.3 06/23/15 CHANGE WIRE MESH FROM	M ROLLED TO 5'4"x6'-0" FLAT MATS, SHEETS 4 .	& 5 TEC BMR KA	Ň	
GROUNDING DETAILS FOR	SCALE NONF		14 [11/30/15] ADD 2nd POLARM GROUNDING	P.1, ADD NOTE 2 P.2, REMOVE STANDOFF BRACKET DET/	AILS P.6 TEC BMR KA	Ω	
WOOD SWITCH STRUCTURES			15 05/04/16 REPLACE GROUNDING LUG WIT	TH 2 HOLE BRONZE TERMINAL CONNECTOR, SPL 272	TEC BMR KA		
			16 05/26/16 REMOVE STEEL POLE FLANGE	CONNECTION DETAIL	TEC BMR KA	Ω	
	INDEX SP.06.01.301		17 09/14/16 CHANGE GROUND ROD CLAM	P TO PS 5106194/SAP 9305898. PROBLEM LOG ENTF	RY 278 [TEC BMR]		
					(17,77,71) U/71/17/17/17/17/17/17/17/17/17/17/17/17/		5,5 AM



MATERIAL LIST		
DESCRIPTION	PS ITEM ID	SAP ITEM ID
MESH, 8" SQUARES, 40% Cu CLAD 0" FLAT MAT	9202952	9307626
R CRIMPIT ("C" TYPE)	5105243	9309996
MMON GRADE STEEL WIRE (FEET)	5998530	9306353
GROUND ROD	3503390	9313417
ROUND GALV 5⁄8" x 8'—0" LG	5106194	9305898
MACHINE GALV 5⁄8" x 3"	5981388	9307344
2 7 STRAND SD COPPER, COVERED	4001042	9312556
BONDING FOR 5%" BOLT	5987955	9320450
QUARE GALVANIZED 5%"	5993400	9319911
, GALVANIZED ½"	7024158	9322021
BRONZE TERMINAL LUG	5965885	9320350
2 7 STRAND BARE SD COPPER	4015032	9315672
STAINLESS STEEL, 1/2"x1"	5624913	9304788
BELLEVILLE, STAINLESS STEEL, 1/2"	7006022	9319830

NOTES:

- PLACE SIX SECTIONS OF WIRE MESH AS SHOWN IN RELATION TO THE FULL HANDLE SWING.
 JOIN EACH GRID SQUARE WITH COPPER CRIMPITS, ITEM 2.
- JOIN EACH GRID SQUARE WITH COPPER CRIMPITS, ITEM 2
 GROUNDING WIRE FROM STEEL POLE VANG SHOULD NOT TOUCH WIRE MESH.
- STRIP ENOUGH OF THE #2 COPPER COVERED WIRE TO MAKE A GOOD CONNECTION.

ED REVIEWED VERSION) KAD	BMR KAD	SIBMR KAD	S BMR KAD	CIBMR KAD	S BMR KAD	CIBMR	/14/2016 10:33 AM
VER DATE VER DATE VERSION DESCRIPTION	11 04/25/14 ADD DETAIL DESCRIPTIONS, ADD HDPE PIPE	12 09/19/14 CLARIFY DETAIL 4 AND CORRECT GROUND ROD CLAMP ITEM ID ON PAGE 2	13 06/23/15 CHANGE WIRE MESH FROM ROLLED TO 5'4"x6'-0" FLAT MATS, SHEETS 4 & 5 TE	14 [11/30/15] ADD 2nd POLARM GROUNDING P.1, ADD NOTE 2 P.2, REMOVE STANDOFF BRACKET DETAILS P.6 TE	15 05/04/16 REPLACE GROUNDING LUG WITH 2 HOLE BRONZE TERMINAL CONNECTOR, SPL 272	[16 [05/26/16] REMOVE STEEL POLE FLANGE CONNECTION DETAIL	17 09/14/16 CHANGE GROUND ROD CLAMP TO PS 5106194/SAP 9305898. PROBLEM LOG ENTRY 278 TE	NEERING DEPARTMENT DOCLIMENTS CARINET IN DOCLIMENTLIM
		•						RSION DI FASF REFER TO THE ENG
		KEVIEWED BT JME UZ/UZ/10	APPROVED BY MSB 02/02/10	SCALE NONF			INDEX SP.06.01.301	E LATEST ALITHORIZED VE
	MISSIUN LINE SIANDARD			GROUNDING DETAILS FOR	STEEL SWITCH STRUCTURES			PIES ARE NOT DOCIMENT CONTROLLED FOR TH



	INCH	ES ON ORIC	GINAL	

APPENDIX E

Agency Correspondence

State Historic Preservation Office Correspondence

Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO Governor ROSE HARVEY Commissioner

July 20, 2017

Mrs. Mary Bitka 144 Kensington Avenue Buffalo, NY 14214

Re: USACE Gardenville-Erie 54-921 Reconductoring 2851 Broadway Street, Cheektowaga, Erie County, NY 17PR04561

Dear Mrs. Bitka:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the provided documentation in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based upon this review, the New York SHPO has determined that no historic properties will be affected by this undertaking. This recommendation pertains only to the Area of Potential Effects (APE) examined during the above-referenced investigation. It is not applicable to any other portion of the project property. Should the project design be changed SHPO recommends further consultation with this office.

If further correspondence is required regarding this project, please refer to the project number (PR) noted above. If you have any questions, I can be reached at 518-268-2218 or via e-mail at <u>Josalyn.Ferguson@parks.ny.gov</u>.

Sincerely,

yum

Josalyn Ferguson (B.A., M.A.) Historic Preservation Specialist/Archaeology

via e-mail only

USFWS IPaC Species List **IPaC**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as trust resources) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Local office

New York Ecological Services Field Office

\$ (607) 753-9334 (607) 753-9699

3817 Luker Road Cortland, NY 13045-9349

http://www.fws.gov/northeast/nyfo/es/section7.htm

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and projectspecific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

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Listed species¹ are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.

The following species are potentially affected by activities in this location:

Mammals

NAME

STATUS

Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045 Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service³. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. The <u>Migratory Birds Treaty Act</u> of 1918.

- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> <u>birds-of-conservation-concern.php</u>
- Conservation measures for birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The migratory birds species listed below are species of particular conservation concern (e.g. <u>Birds of Conservation Concern</u>) that may be potentially affected by activities in this location. It is not a list of every bird species you may find in this location, nor a guarantee that all of the bird species on this list will be found on or near this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the <u>AKN Histogram Tools</u> and <u>Other Bird Data Resources</u>. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

NAME	SEASON(S)
American Bittern Botaurus lentiginosus https://ecos.fws.gov/ecp/species/6582	Breeding
Bald Eagle Haliaeetus leucocephalus https://ecos.fws.gov/ecp/species/1626	Year-round
Black Tern Chlidonias niger https://ecos.fws.gov/ecp/species/3093	Breeding
Black-billed Cuckoo Coccyzus erythropthalmus https://ecos.fws.gov/ecp/species/9399	Breeding

Black-crowned Night-heron Nycticorax nycticorax https://ecos.fws.gov/ecp/species/6487	Breeding
Blue-winged Warbler Vermivora pinus	Breeding
Canada Warbler Wilsonia canadensis	Breeding
Cerulean Warbler Dendroica cerulea https://ecos.fws.gov/ecp/species/2974	Breeding
Common Tern Sterna hirundo https://ecos.fws.gov/ecp/species/4963	Breeding
Golden-winged Warbler Vermivora chrysoptera https://ecos.fws.gov/ecp/species/8745	Breeding
Least Bittern Ixobrychus exilis https://ecos.fws.gov/ecp/species/6175	Breeding
Olive-sided Flycatcher Contopus cooperi https://ecos.fws.gov/ecp/species/3914	Breeding
Peregrine Falcon Falco peregrinus https://ecos.fws.gov/ecp/species/8831	Breeding
Pied-billed Grebe Podilymbus podiceps	Breeding
Red-headed Woodpecker Melanerpes erythrocephalus	Breeding
Short-eared Owl Asio flammeus https://ecos.fws.gov/ecp/species/9295	Wintering
Upland Sandpiper Bartramia longicauda https://ecos.fws.gov/ecp/species/9294	Breeding
Willow Flycatcher Empidonax traillii https://ecos.fws.gov/ecp/species/3482	Breeding
Wood Thrush Hylocichla mustelina	Breeding

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

Landbirds:

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: <u>Integrative Statistical Modeling and Predictive Mapping of Marine</u> <u>Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u>. The models resulting from this project are being used in a number of decisionsupport/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the <u>Northeast Ocean Data Portal</u>, which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

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IPaC: Explore Location

Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

Landbirds:

The Avian Knowledge Network (AKN) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest, survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the <u>Migratory Bird Programs AKN Histogram Tools</u> webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North, Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

Atlantic Seabirds:

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAANCCOS <u>Integrative Statistical</u> <u>Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project</u> webpage.

Facilities

Wildlife refuges

Any activity proposed on <u>National Wildlife Refuge</u> lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGES AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND
PEM1E

A full description for each wetland code can be found at the National Wetlands Inventory website: https://ecos.fws.gov/ipac/wetlands/decoder

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

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IPaC: Explore Location

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.