## Commonwealth of Massachusetts Executive Office of Environmental Affairs ■ MEPA Office



## **Environmental Notification Form**

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 13900 MEPA Analyst: BILL GA98 Phone: 617-626-

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Q-169 Transmission Line Re	furbishment Project			
	,			
	nrough Revere to Lynn Substation #21 in Lynn			
Municipality: Saugus, Revere and Lynn	Watershed: Saugus River			
Universal Tranverse Mercator Coordinates:	Latitude: 42-28-18 to 42-27-17			
	Longitude: 071-02-45 to 070-57-07			
Estimated commencement date: Winter 200				
Approximate cost:	Status of project design: 100 %complete			
Proponent: National Grid				
Street: 25 Research Drive	<del>_</del>			
Municipality: Westborough	State: MA Zip Code: 01582			
Name of Contact Person From Whom Copie	es of this ENF May Be Obtained:			
Paul M. Knapik				
Firm/Agency: Vanasse Hangen Brustlin, Inc				
Municipality: Providence	State: RI Zip Code: 02909			
Phone: (401) 272-8100 Fax: (4	101) 273-9694   E-mail: <u>pknapik@vh.com</u>			
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?  ☐ Yes ☐ No				
Has this project been filed with MEPA before?	]Yes (EOEA No) ⊠No			
Has any project on this site been filed with MEP	_ ,			
Is this an Expanded ENF (see 301 CMR 11.05(7)) req a Single EIR? (see 301 CMR 11.06(8)) a Special Review Procedure? (see 301 CMR 11.09) a Waiver of mandatory EIR? (see 301 CMR 11.11) a Phase I Waiver? (see 301 CMR 11.11)				
Identify any financial assistance or land transfer the agency name and the amount of funding or <b>None</b>	from an agency of the Commonwealth, including land area (in acres):			
Are you requesting coordinated review with any Yes(Specify				
List Local or Federal Permits and Approvals: ACOE Category II PGP; possible Notice of Intent	with Saugus Conservation Commission			

☐ Water ☐ Energy ☐ ACEC	Rare Speci Wastewate Air Regulations	r 🔲	Transportati Solid & Haz	Vaterways, & Tidelands ion ardous Waste Archaeological
Summary of Project Size	Existing	Change	Total	State Permits &
& Environmental Impacts				Approvals
	AND			☐ Order of Conditions☐ Superseding Order of
Total site acreage	Approx. 160		466000	Conditions
New acres of land altered		Approx. 8.6	HEREN	│
Acres of impervious area	0	0	0	Certification
Square feet of new bordering vegetated wetlands alteration		11,505 sf (swamp mats temp.)		MHD or MDC Access Permit
Square feet of new other wetland alteration		800 sf salt marsh fill; 880 sf salt marsh replacement; 97,445 sf (swamp mats temp.)		☐ Water Management Act Permit ☐ New Source Approval ☐ DEP or MWRA Sewer Connection/ Extension Permit
Acres of new non-water dependent use of tidelands or waterways	OTUBES	0		Other Permits     (including Legislative     Approvals) − Specify:
Gross square footage	CTURES N/A	N/A	N/A	BWP SW 36 Post-closure Use – Major
Number of housing units	N/A	N/A	N/A	- Use – Major
Maximum height (in feet)	N/A	N/A	N/A	
	PORTATION			
	0	0	0	
Vehicle trips per day		I .		
Vehicle trips per day	0	0	0	
Parking spaces			0	
Parking spaces WATER/W	0 /ASTEWAT		0	
Parking spaces WATER/W Gallons/day (GPD) of water use	ASTEWAT	ER		
Parking spaces WATER/W	ASTEWAT	ER 0	0	

∐Yes (Specify) ⊠No
RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?  ☐ Yes (Specify_Spotted turtle and common tern (see correspondence)) ☐ No
HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district lister
in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth Yes (Specify(see correspondence))
If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?
☐Yes (Specify)
AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?
Yes (Specify The line crosses the Rumney Marshes ACEC )

**PROJECT DESCRIPTION:** The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (*You may attach one additional page, if necessary.*)

This project consists of the refurbishment and reconductoring of the termed Q-169 115 kilovolt (kV) electric transmission line along an existing power line right-of-way (ROW). The line was constructed in 1970. The refurbishment and reconductoring of the line is needed to maintain the reliability of the electric supply servicing the City of Lynn and surrounding areas. The Q-169 line will be reconstructed between National Grid's Golden Hills Substation in Saugus and the Lynn Substation #21 in Lynn, a distance of approximately 6.5 miles (Figure 1). The line is primarily composed of wood pole H-frame structures, with 6 steel towers at the Saugus River crossing, 2 steel pole H-frame structures at the Route 107 crossing, 3 single pole steel davit arm structures at the Route 1 crossing and 1 single pole davit arm structure at Salem Street.

Following a detailed inspection of the line and structures, National Grid has determined that certain structures and equipment are deteriorated and nearing the ends of their useful service lives. In addition, the power wires (conductors) are proposed for replacement in order to continue to provide reliable electric service. Wood pole structures would be replaced at select locations, and crossarms and hardware would be replaced as needed. All existing steel poles and towers would be reused with no modifications.

A portion of the proposed work occurs within the Rumney Marshes Area of Critical Environmental Concern (ACEC). The MEPA review threshold (at 301 CMR 11.03[11]b) that pertains to work within a state-defined ACEC stipulates that a Project is subject, at a minimum, to the filing of an Environmental Notification Form (ENF) with the MEPA Office for "Any Project within a designated ACEC, unless the Project consists solely of one single-family dwelling."

With respect to M.G.L. c 91, all of the waterways crossings along the ROW have been previously licensed: Bride's Brook (License No. 5467), Bear Creek (License No. 5464), Saugus River (License No. 5347 as modified by License No. 6114) and RESCO Tap (License No. 1147). National Grid will request that the Department of Environmental Protection's Waterways Regulation Program ("DEP") authorize the proposed work as Minor Project Modifications to the existing licenses in accordance with 310 CMR 9.22(3). In one instance, with respect to the RESCO Tap (License No. 1147), the proposed project will result in the removal of the licensed structures and National Grid will therefore request the approval from DEP pursuant to 310 CMR 9.22(1)(d) for the removal of unused structures that are no longer suitable for the uses authorized by License No. 1147.

In accordance with the Massachusetts Wetlands Protection Act (MGL Ch. 131 s. 40), "no person shall remove, fill, dredge or alter any bank, riverfront area, fresh water wetland, coastal wetland, beach, dune, flat, marsh, meadow or swamp bordering on the ocean or on any estuary, creek, river, stream, pond, or lake, or any land under said waters or any land subject to tidal action, coastal storm flowage, or flooding, other than in the course of maintaining, repairing or replacing, but not substantially changing or enlarging, an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, telephone, telegraph and other telecommunication services, without filing written notice of his intention to so remove, fill, dredge or alter". As noted, the project involves replacing transmission line structures, crossarms, insulators, and conductors that are nearing the end of their useful service lives with no substantial changes or enlargement. The reconductoring project, therefore, would qualify as exempt from filing a Notice of Intent with the respective Conservation Commissions and Department of Environmental Protection (DEP). The portion of the project that proposes to remove two structures from the salt marsh and one at the edge of the marsh and replace them with a new 3-way loadbreak switch structure at the adjacent RESCO landfill site may require filing a Notice of Intent with the Saugus Conservation Commission if the work associated with installing the new structure is within 200-foot Riverfront Area associated with the Saugus River.

The project requires the extensive use of timber mats (i.e. swamp mats) to support the construction equipment used to replace structures in order to protect the salt marsh substrate in Rumney Marsh and other wetland areas along the ROW during construction. Because greater than 5,000 square feet of temporary fill (i.e. swamp mats) and approximately 800 square feet of permanent fill (i.e. the footprint of new wood-pole structures in wetlands) are proposed, the project requires filing an application to the Army Corps of Engineers (Corps) for Category II eligibility under the Massachusetts Programmatic General Permit (MAPGP). An application has been submitted to the Corps and is reviewed by state and federal agencies through a joint review process as Category II activities. The general requirements of the PGP state that swamp or timber mats are considered temporary fill when they are removed immediately upon work completion.

Additionally, a portion of the project is within Massachusetts Water Quality Standards (314 CMR 4.00) designated Outstanding Resource Waters (ORW) and salt marsh. The regulations (314 CMR 9.04) require any activity resulting in any discharge of dredged or fill material to any ORW or salt marsh to file an application for Water Quality Certification. A comprehensive marsh access plan has been developed to avoid or minimize impacts to salt marsh and tidal creeks by accessing the ROW from upland locations and utilizing previously disturbed portions of the marsh (i.e. the former Saugus racetrack footprint) as an access route. A Water Quality Certification application, describing alternatives and mitigation measures, has been filed with the DEP.

A Post-Closure Use Permit Application will be submitted to the Department of Environmental Protection Bureau of Waste Prevention – Solid Waste Management for the portion of the project within the limits of the RESCO landfill. Work within the limits of the landfill includes installing a new 3-way loadbreak switch structure and new side guy anchors at an existing structure. The new loadbreak switch structure will result in the removing loadbreak structures from salt marsh will greatly increase accessibility to the loadbreak switch while avoiding impacts to salt marsh in the event of a line outage.

The refurbishment and reconductoring of the Q-169 transmission line will result in the temporary alteration of approximately 11,505 square feet of bordering vegetated wetland and 97,445 square feet of salt marsh due to the placement of swamp mats to access and replace transmission line structures. This activity is not expected to cause any long-term adverse impacts to wetland resources, as swamp mats effectively distribute the load of construction equipment and minimize ground disturbance. Approximately 800 square feet square feet of salt marsh will be permanently filled due to structure replacement. After new structures are installed the old structures will be removed and the restoration of the areas occupied by the replaced wood pole structures is proposed for all fill impacts in salt marsh to provide approximately 1:1 restoration of lost salt marsh area..