

State Environmental Quality Review  
**NEGATIVE DECLARATION**  
Notice of Determination of Non-Significance

**Project:** Lindbergh Substation and Associated Transmission Line Replacement and Reconductoring, Distribution Feeder Installation, and Conversion and Reconductoring Project

**Date:** July 30, 2019

This notice is issued in accordance with Article 8 (State Environmental Quality Review Act) of the Environmental Conservation Law and its implementing regulations at 6 NYCRR Part 617 and 21 NYCRR Part 10052.

LIPA (the “Authority”) has determined, based on information provided by PSEG Long Island and the Full Environmental Assessment Form and related documents (the “EA”) prepared by PS&S Engineering, P.C. (PS&S) that the Proposed Action described below will not have a significant adverse impact on the environment and a Draft Environmental Impact Statement will not be prepared.

**Name of Action:** Lindbergh Substation and Associated Transmission Line Replacement and Reconductoring, Distribution Feeder Installation, and Conversion and Reconductoring Project (the “Proposed Action”)

**Location:** Hamlets of Uniondale, East Meadow and Salisbury, Town of Hempstead, Nassau County, New York

**SEQR Status:** Type I

**Conditioned Negative Declaration:** No

This memorandum summarizes the environmental review of the construction of the proposed Lindbergh Substation (the “Proposed Substation”, also referred to as the “On-Site Work”) and Associated Transmission Line Replacement and Reconductoring, Distribution Feeder Installation, and Conversion and Reconductoring (“C&R”) work (collectively the “Off-Site Work”). The proposed On-Site Work and Off-Site Work is collectively referred to as the “Proposed Action”.

**Proposed Action Description:**

The Proposed Action is located in the hamlets of Uniondale, East Meadow and Salisbury, within the Town of Hempstead, Nassau County, New York. The location of the Proposed Action is depicted on **Figure 1**.

The project area is currently served by the East Garden City and Mitchel Gardens Substations. Recent engineering studies and analysis by PSEG Long Island have concluded that the Proposed Action is needed as a result of growing energy demands exceeding the capacity of the existing substations in the area. The Proposed Substation is required to provide an adequate and reliable power supply to the surrounding area and to support new developments in the area including the redevelopment of the Nassau Coliseum, the new Nassau County Police Academy, and the proposed Nassau Hub, a Nassau County sponsored multi-phase mixed-use development planned for the lands surrounding Nassau Coliseum. It is anticipated that the Proposed Action will commence in July 2019 and will be completed by the end of 2022.

The Proposed Action consists of several separate components, as detailed below. Details associated with the Proposed Action are also provided in **Attachment A**.

## **PROPOSED ON-SITE WORK**

### *PROPOSED SUBSTATION*

The Proposed Substation will be located at the northwest intersection of Perimeter Road and Charles Lindbergh Boulevard in the Town of Hempstead, hamlet of Uniondale. The Proposed Substation will be located on an approximately 1.7-acre parcel of vacant, undeveloped land that is predominantly comprised of natural vegetation (i.e., trees, shrubs and grass) that is currently owned by Nassau County. LIPA was granted property rights to construct and operate the Proposed Substation via an easement. The Nassau County Planning Commission issued a Negative Declaration for the easement on or about September 2016 for the granting of the easement. The 1.7-acre parcel of land is a portion of a 168.8-acre tax lot, identified as Section 44, Block F, Lot 317 on Nassau County Department of Assessment Land and Tax Maps.

The Proposed Substation will require the clearing of existing vegetation on the parcel, the removal and replacement/relocation of existing subsurface water and sanitary sewer pipes, and the installation of various substation equipment, as described below. An access road will be installed to the north of the substation from Perimeter Road. Stormwater runoff from the proposed gravel/dolomite surface of the Proposed Substation will generally flow from west to east toward Perimeter Road and will ultimately discharge to a small detention area containing four proposed drywells that will be installed for stormwater infiltration and treatment.

The Proposed Substation will include the installation of two 69/13kV 33 MVA transformers, two 13kV switchgears, three 69kV gas circuit breakers, four gang-operated disconnect switches, two 69kV circuit switches, four lightning masts, as well as other substation support equipment. An equipment enclosure structure and battery enclosure structure will also be constructed. Visual renderings depicting several views of the Proposed Substation are provided in **Appendix A**.

The vertical profile of the Proposed Substation equipment extends to a maximum height of approximately 17 feet above grade, with the exception of four lightning masts, which will extend to a maximum height of approximately 60 feet above grade.

## PROPOSED OFF-SITE WORK

### OVERHEAD TRANSMISSION

#### Section A

An existing section of an OH 69kV transmission line runs in an east-west direction along a Long Island Rail Road (LIRR) right-of-way located approximately 0.5-mile north of the Proposed Substation between Quentin Roosevelt Boulevard and the Meadowbrook Parkway. The Section A OH transmission line is currently connected to the Section B transmission line (discussed below) via UG 69kV transmission conductor.

Transmission tower and pole removals/installations within OH transmission Section A are summarized in **Table 1** below.

**Table 1**  
**Transmission Structure Modifications in Overhead Transmission Section A**

Existing Tower/Pole No.	Existing Height (feet ag)	Existing Diameter (inches)	Action	New Tower/Pole No.	New Height (feet ag)	New Diameter (inches)	Net Height Difference (± feet ag)	Finish of New Structure
Tower #204	45.34	N/A	Replace	Steel Pole # 204	70	40.05	+24.66	Galvanized
Tower #205	59.00	N/A	Remove	N/A	N/A	N/A	N/A	N/A
Steel Pole # 205A	59.06	29.04	Replace	Steel Pole # 205	70	24.81	+10.94	Galvanized
Steel Pole # 205B	62.00	22.06	Remove	N/A	N/A	N/A	N/A	N/A
Steel Pole # 212	68.13	30.83	Replace	Steel Pole # 212	70	24.81	+1.87	Galvanized
Steel Pole # 213A	60.06	29.04	Replace	Steel Pole # 213	70	24.81	+9.94	Galvanized
Steel Pole # 213B	52.57	22.06	Remove	N/A	N/A	N/A	N/A	N/A
Tower #214	52.02	N/A	Replace	Steel Pole # 214	74.5	42.50	+22.48	Natina
Tower #215	64.66	N/A	Replace	Steel Pole # 215	75.5	41.80	+10.84	Natina
Tower #216	63.93	N/A	Replace	Steel Pole # 216	74.5	26.58	+10.57	Natina
N/A	N/A	N/A	Install	Steel Riser Pole # 217	70	40.05	+70	Natina
N/A	N/A	N/A	Install	Steel Riser Pole # 217.5	74.5	23.02	+74.5	Natina

Notes:

N/A: Not Applicable

ag: Above Grade

The upgraded transmission line will be connected to an existing UG 69kV transmission line located at the western end of this section via replacement steel riser pole (Steel Pole #204). The Section A transmission structure modification locations are depicted on **Figure 2**. Visual renderings depicting several views of the Section A structure modifications are provided in **Appendix A**.

Section B

An existing section of an OH 69kV transmission line runs in an east-west direction and is generally located within the Eisenhower Park Golf Course. The Section B OH transmission is currently connected to the Section A OH transmission line via UG 69kV transmission conductor.

Transmission tower and pole removals/installations within Section B are summarized in **Table 2** below.

**Table 2  
Transmission Structure Modifications in Overhead Transmission Section B**

Existing Tower/Pole No.	Existing Height (feet ag)	Existing Diameter (inches)	Action	New Tower/Pole No.	New Height (feet ag)	New Diameter (inches)	Net Height Difference (± feet ag)	Finish of New Structure
Tower #42	74.16	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 1	70	40.05	70	Natina
N/A	N/A	N/A	Install	Steel Pole # 2	70	26.58	70	Natina
Tower #226	64.41	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 3	70	26.58	70	Natina
N/A	N/A	N/A	Install	Steel Pole # 4	70	26.58	70	Natina
Tower #227	64.95	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 5	70	26.58	70	Natina
N/A	N/A	N/A	Install	Steel Pole # 6	70	26.58	70	Natina
Tower #228	70.75	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 7	70	26.58	70	Natina
Tower #229	64.62	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 8	70	26.58	70	Natina
N/A	N/A	N/A	Install	Steel Pole #9	70	26.58	70	Natina
Tower #230	64.65	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 10	70	26.58	70	Natina
N/A	N/A	N/A	Install	Steel Pole # 11	70	26.58	70	Natina
Tower #231	64.31	N/A	Remove	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	Install	Steel Pole # 12	70	26.58	70	Natina
Pole #5Q-1	61.65	~19.21	Replace	Steel Pole # 13	70	26.98	+8.35	Natina
Pole #5Q-2	59.24	~17.62	Replace	Steel Pole # 231	65.5	33.64	+6.26	Natina

Notes:

N/A: Not Applicable  
ag: Above Grade

The upgraded transmission line will be connected to the existing UG 69kV transmission line located at the western end of this route via a new steel pole in this area (Steel Pole #1), located in the same general area as Tower #42 which will be removed. The Section B transmission

structure modification locations are depicted on **Figure 3**. Visual renderings depicting several views of the Section B structure modifications are provided in **Appendix A**.

As shown on **Table 2** above, new steel poles that will be installed will be less than 10 feet taller in height than the existing towers to be removed. In addition, the two new steel poles that will replace the existing wood poles are also less than 10 feet taller in height.

In addition to the Section B activities, an overhead transmission conductor will be removed from an existing circuit located east of the Section B OH transmission line, and minor overhead pole improvements will be conducted at select transmission structures along this alignment.

### *UNDERGROUND TRANSMISSION*

Two new UG 69kV transmission tie-in cables will be installed connecting the upgraded Section A OH 69kV transmission line to the Proposed Substation along a total length of approximately  $\pm 3,800$  linear feet. The proposed UG 69kV transmission tie-in cables will connect from two riser poles located immediately west of the Meadowbrook Parkway and north of Perimeter Road, and will cross an approximately 500 linear-foot section of Nassau County-owned property. The UG 69kV transmission tie-in cables will then run parallel to each other towards the south along Perimeter Road for approximately 0.62-mile before entering the Proposed Substation. The UG 69kV transmission tie-in cables will be installed via open trench and will primarily be constructed within public roadway right-of-way, with the exception of a portion near the existing Section A OH 69kV transmission line, where the cable will cross an approximately 500 linear-foot section of Nassau County-owned property. Additionally, one splice vault (approximately 6' by 14') will be installed along each transmission tie-in cable. PSEG Long Island is in the process of obtaining a use and occupancy agreement with Nassau County to begin work in this area, which is anticipated to be obtained in July 2019. Acquisition of an easement for this property is pending with Nassau County and is expected to be obtained in July 2019.

An existing UG 69kV transmission cable located in conduit beneath the Meadowbrook Parkway currently connects the overhead transmission lines within Section A and Section B. This cable will be removed from the existing conduit and replaced in-kind as part of the Proposed Action.

### *OVERHEAD AND UNDERGROUND DISTRIBUTION*

Two UG 13kV distribution exit feeders will be installed from the southeastern corner of the Proposed Substation. These exit feeders will connect to a new PMH pad-mounted switchgear to be installed south of Charles Lindbergh Boulevard within the Nassau Coliseum property, and will travel west under Charles Lindbergh Boulevard, and then continue south below Earle Ovington Boulevard and Uniondale Avenue, for a total length of approximately  $\pm 7,000$  linear feet. These UG distribution exit feeders will ultimately connect to existing OH distribution circuits via wood riser poles. One UG distribution exit feeder will terminate at McKenna Place, approximately 0.05-mile south of Hempstead Turnpike and the second feeder will terminate at Braxton Street, approximately 0.42-mile south of the Hempstead Turnpike. The two UG 13kV distribution feeders will each be installed within a 6" conduit and two additional spare 6" conduits will be installed to accommodate future 13kV feeders that are anticipated to be installed

in 2022. A total of 13 manholes (approximately 7' by 13') will be installed along the distribution route. In addition, in order to provide temporary electric service for construction activities, a distribution feeder will be installed in an approximate 850 linear foot trench, connecting a pad-mounted transformer to be installed within the Proposed Substation, to an existing switchgear located west of the Proposed Substation. PSEG Long Island will obtain an easement amendment from Nassau County prior to installation of the new PMH pad-mounted switchgear on the Nassau Coliseum property (owned by Nassau County).

OH distribution work includes the in-kind replacement of 80 distribution poles and reconductoring of distribution conductors along approximately ±10,200 linear feet. Existing wood distribution poles measuring 35 to 40 feet in height will be replaced with new wood poles measuring 40 to 45 feet in height. All poles will be replaced within 10 feet of their existing locations. OH distribution C&R work will also be completed which will include the replacement or installation of pole top equipment, including transformers, switching equipment and electric conductor.

### **Reasons Supporting This Determination:**

The Full Environmental Assessment and supplemental information (“EA”) was completed by PS&S Engineering, P.C. (PS&S) and analyzed, reviewed, and supported by PSEG Long Island. The EA analyzed the potential environmental impacts of the Proposed Action. Supplemental information includes: (i) Noise Impact Assessment Study, prepared by PS&S, dated June 2018 (the “Noise Study”); (ii) Visual Resources Assessment (the “Visual Resources Assessment”), prepared by PS&S; (iii) Electric and Magnetic Field Assessment (the “EMF Study”), for the West Bartlett Substation, dated June 20, 2016; and (iv) the EMF Study for the Berry Street Substation, dated April 11, 2016 were evaluated for reference purposes in order to assess potential EMF impacts associated with the Proposed Action.

### *Land Use*

Land uses at and in the vicinity of the Proposed Action are discussed in **Attachment B**. The Proposed Action will support existing land uses by providing an adequate and reliable power supply to surrounding communities.

The Proposed Substation property is currently vacant, undeveloped, and is covered with vegetation (a mix of native, non-native, and invasive grasses, shrubs and woody trees). Construction of the Proposed Substation will require the removal of the existing landscape and the removal and replacement/relocation of existing subsurface sanitary sewer and water main pipes.

Construction and operation of the Proposed Substation will alter the land use of the Proposed Substation property; however, it will not result in significant adverse land use impacts to the Land Use Study Area (0.5-mile radius from the Proposed Action). The Proposed Substation is located immediately adjacent to the Nassau Energy Corporation, an industrial power plant. As such, the Proposed Substation will be consistent with the surrounding industrial land uses.

The Section A OH transmission line and structure modifications are located within a LIRR right-of-way. This existing OH transmission line in this area consists of transmission tower structures and poles measuring up to approximately 68 feet above grade in height. Land uses adjacent to the right-of-way primarily include single and multi-family residential properties, as well as some commercial and industrial properties. The Section B OH transmission line is located along a tree-lined paved pathway within the Eisenhower Park Golf Course, and extends slightly east of Carman Avenue on public roadway right-of-way. This existing OH transmission line in this area consists of tower structures measuring up to approximately 75 feet above grade in height. The Eisenhower Park Golf Course is present immediately north and south of this transmission line, with the exception of the eastern end of this line extending slightly east of Carman Avenue, which is bound by Nassau County Correctional Center.

The Section A and Section B OH transmission lines and structure modifications are located in areas where utility infrastructure currently exists. As such, reconductoring and replacement of existing transmission wire and the removal of transmission towers and installation of poles in these areas will result in no changes to the land use in the surrounding area. Transmission Sections A and B will continue to be developed with OH transmission structures and conductors, which will continue to be utilized as transmission right-of-way's.

The two UG 69kV transmission tie-in cables are proposed to be installed within the public roadway right-of-way of Perimeter Road. In addition, an approximate 500 linear-foot portion of these cables will be installed within a Nassau County-owned property located north of Perimeter Road. Installation of the UG 69kV transmission tie-in cables through this property will require the removal of approximately 0.28-acre of existing vegetation. Adjacent and nearby land uses consist of the Hempstead Plains Preserve and institutional land uses, including Nassau Community College and associated parking areas, and the Hempstead Plains Education Center. Given the UG use of public right-of-way, the UG 69kV transmission tie-in cables along Perimeter Road will result in no change to land use. The land use through the Nassau County-owned property will not change following installation of the UG transmission tie-in cables.

The UG 13kV distribution exit feeders are proposed to be installed within public roadway right-of-way of Charles Lindbergh Boulevard, Earle Ovington Boulevard/Uniondale Avenue, and Braxton Street. Adjacent land uses along Charles Lindbergh Boulevard include the Nassau Energy Corporation to the north, and Nassau Veterans Memorial Coliseum to the south. Adjacent land uses along Earle Ovington Boulevard include office buildings and Hofstra University to the west and Nassau Veterans Memorial Coliseum to the east. Adjacent land uses along Uniondale Avenue primarily consist of residential properties, institutional uses (including Hofstra University and Cornelius Court School) and certain commercial uses. Adjacent land uses along Braxton Street consist of residential properties. Given the UG construction and the use of public right-of-way, the 13kV UG distribution exit feeders will result in no changes to land use in the surrounding area.

Land uses adjacent to the OH distribution pole replacement and C&R activities include community services, single and multi-family residential properties, some commercial offices, and some retail, dining or hospitality land uses. OH distribution pole replacement and C&R activities will be located along existing public right-of-way or utility rights-of-way where utility

poles and OH utility infrastructure currently exist. As such, the OH distribution components of the Proposed Action will result in no changes to land use in the surrounding area.

Given the above, the Proposed Action is consistent with existing land uses and character of the study area and will not result in significant adverse impacts with respect to land use.

### *Natural Resources*

A Natural Resources Assessment was completed in order to assess the potential for the Proposed Action to affect groundwater, floodplains, wetlands, vegetation, wildlife and federal- and state-listed rare, threatened, and endangered species. The Natural Resources Assessment is provided in **Attachment C**.

Groundwater within the Proposed Action areas will not be used for construction or operation purposes. Based on the depth of excavation activities and the depth to groundwater throughout the Proposed Action area, dewatering is not anticipated; however, may be required at select locations. If warranted, groundwater will be removed utilizing pumps and will be transferred into frac tanks for on-site containment, testing, and subsequent off-site transportation and disposal. Dewatering activities will follow best management practices to avoid erosion and sediment migration concerns. Impacts to groundwater will therefore not occur as a result of construction or operation of the Proposed Action.

Although a portion of the Off-Site Work components of the Proposed Action (the two UG 69kV transmission tie-in cables) lies within the 100-year floodplain, the land use of this area will not change following installation of the UG 69kV transmission tie-in cables, and ground surface will be restored to match existing conditions. In addition, with the exception of the Proposed Substation, the Proposed Action will not result in a significant increase to impervious area. While construction of the Proposed Substation will result in an increase in impervious area, the Proposed Substation will include the installation of four dry wells which will address stormwater runoff resulting from the construction of the Proposed Substation. Therefore, the Proposed Action will not result in significant adverse impacts with respect to flood levels, flood risk, or the flow of flood waters on or within the vicinity of the Proposed Action.

A review of NYSDEC GIS data indicates that the Proposed Action will not be located within NYSDEC regulated wetlands or within regulated adjacent areas. As such, no significant adverse impacts to NYSDEC regulated wetlands will occur as a result of the Proposed Action.

As noted above, the 69kV UG transmission tie-in cables will originate from riser structures located immediately west of the Meadowbrook Parkway and north of Perimeter Road and will cross an approximate 500 linear-foot section of Nassau County owned property before following Perimeter Road south approximately 0.62-mile before entering the Proposed Substation. NWI maps depict a freshwater emergent wetland present on this Nassau County-owned property, as well as a freshwater emergent wetland, freshwater forested/shrub wetland and freshwater pond located adjacent to the east of Perimeter Road. However, these NWI wetlands are not located within the actual area of disturbance associated with construction. The installation of the 69kV UG transmission tie-in cables along Perimeter Road and within the Nassau County-owned have



been designed to avoid the NWI wetland areas. Best management practices will be implemented by PSEG Long Island and its contractors during construction to prevent erosion and sedimentation to the wetland areas. Therefore, there will be no significant adverse impacts to NWI wetlands.

Ecological communities within the Proposed Action areas are limited to an undeveloped parcel (i.e., poor quality Successional Old Field/Hempstead Plains Grassland mix/Successional Shrubland) and previously disturbed public right-of-way or adjacent areas (Mowed roadside/pathway, a Paved Road/path). These communities provide limited ecological value due to the extensive coverage of invasive species and regular human disturbance. As a result, operation of the Proposed Action will not result in significant adverse impacts to terrestrial ecological communities and vegetation on or within the vicinity of the Proposed Action.

The Proposed Action will not result in significant adverse impacts to wildlife at either the individual or population level. Terrestrial wildlife use on the Proposed Action areas, or within the vicinity of the Proposed Action areas, is limited due to current habitats, which are comprised of poor quality Successional Old Field/Hempstead Plains Grassland/Successional Shrubland mix, Mowed roadside/pathway, and Paved Road/Path. Wildlife species that may be present in the surrounding area would likely prefer the protected and less disturbed open space areas of the Hempstead Plains and the Francis T. Purcell Preserve when compared to the Proposed Action areas. Installation of the Proposed Action will not eliminate any high quality or valuable wildlife habitat and will not adversely affect the few urban-adapted species that may occur in the area. As habitat generalists, these species are highly disturbance-tolerant. Individuals of these species may temporarily be displaced from the Proposed Action areas during construction; however, they are likely to return once construction is completed.

No federal or state-listed endangered, threatened, and special concern species, or significant habitats were found on-site or within the vicinity of the Proposed Action.

Field surveys indicated that a small area within the boundaries of the Proposed Substation property is comprised of remnant Hempstead Plains Grassland. However, given the relatively small size of this area and as this area was surrounded by invasive species, it was determined that this area is heavily degraded, and no rare plant species were identified during site visits. Given that none of the threatened or endangered plant species were observed in this small area, or in any other portions of the Proposed Action site, the Proposed Action will not have a significant adverse impact on the Hempstead Plains Significant Natural Community, or any grassland-dependent rare, threatened or endangered species. Based on this information, the Proposed Action will not have a significant effect on rare, threatened, or endangered species or significant natural communities. Relevant figures, maps and supporting documentation associated with natural resources at and in the vicinity of the Proposed Action are provided in **Appendix B**.

### *Visual Resources*

The Proposed Action is located adjacent to the Mitchel Air Base and Flight Line Building District, which is listed on the National Register of Historic Places. In addition, 17 National Register Eligible sites, eight county, municipal and privately-owned recreational sites, and two

scenic byways were identified within one-mile of the Proposed Action. Consultation requests were submitted to the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) in order to evaluate the potential impact from the Proposed Action on archaeological and/or historic resources within the project area. Responses were received from the NYSOPRHP on February 20 and March 14, 2019 stating that the Proposed Action will have no impact on archaeological and/or historic resources listed in or eligible for the New York State and National Register of Historic Places. Based on the Visual Resources Assessment, visibility of the Proposed Action will be limited from most of the identified visual resources located within the study area (one-mile radius from the aboveground components of the Proposed Action), with the exception of the District, Eisenhower Park, the Hempstead Plains Preserve, the Francis T. Purcell Preserve and the Meadowbrook State Parkway. Although the Proposed Action may be visible from these county, municipal and privately-owned recreational sites, or scenic byways, the Proposed Action will not result in any significant adverse impacts to these properties due to intervening vegetation, topography and/or structures, and as the Proposed Action is consistent with surrounding land uses.

Based on the results of the field investigation and the Visual Resources Assessment, performed in accordance with NYSDEC Guidance Document DEP-00-2, the Proposed Action will not result in significant adverse impacts on designated visual resources or the visual character of the study area. The Proposed Action will not significantly impact the visual landscape as experienced from scenic or aesthetic resources or interfere with or reduce the public's, or nearby residents', enjoyment and/or appreciation of the appearance of inventoried scenic, open spaces, or other resources. Thus, there will be no significant adverse visual impacts as a result of the Proposed Action. The Visual Resources Assessment is provided in **Attachment D**. Visual renderings of the Proposed Action are provided in **Appendix A**. Figures depicting visual and aesthetic resources in the vicinity of the Proposed Action are provided in **Appendix C**.

### *Energy*

The Proposed Action will have beneficial impacts to energy resources and to LIPA's transmission and distribution system in the surrounding community, with its many residential, commercial, and institutional uses, through improved reliability and resiliency of electric service. The Proposed Action will not result in an increase in generating capacity. Potential impacts of the Proposed Action on Energy Resources in discussed in **Attachment E**.

### *Noise Study*

A detailed Noise Impact Assessment Study was completed in order to evaluate the potential sound-level impact of future operational noise levels at the Proposed Substation. The Proposed Off-Site Work components of the Proposed Action do not include the installation of operational-phase noise-generating equipment and as such, were not included in the Noise Impact Assessment Study. The Noise Impact Assessment Study is included as **Appendix D**. A detailed discussion of potential noise impacts of the On-Site Work is provided in **Attachment F**.

As part of the Noise Impact Assessment Study, existing ambient background noise levels were measured at five locations on April 17, 2018, during both the daytime (9 am – 10 pm) and

nighttime (10 pm – 9 am) periods. These noise monitoring locations were positioned at the nearest non-industrial receptor, the Hempstead Plains Education Center, a recreational and educational center located approximately 300 feet northeast of the Proposed Substation, as well as along the future fence lines of the Proposed Substation. Potential noise level impacts at these locations were compared to NYSDEC Noise Policy Guidelines.

Existing ambient background daytime noise levels measured at the future fence line of the Proposed Substation ranged from 62 dBA (western property line) to 74 dBA (southern property line). Nighttime ambient background noise levels ranged from 56 dBA (northern property line) to 71 dBA (southern property line). Ambient daytime and nighttime noise levels at the closest non-industrial receptor, the Hempstead Plains Education Center, were 65 dBA and 56 dBA, respectively.

The projected (modeled) noise impact levels for the Proposed Substation were evaluated based on worst-case future noise levels from the simultaneous operation of the proposed two new 69kV transformers at maximum capacity. The future noise level (ambient noise level plus the noise level from the transformers) at the nearest non-industrial receptor will not result in any recordable (<0.1 dBA increase) or perceptible noise increase above existing ambient noise levels (a maximum daytime ambient noise level of 65 dBA was recorded at this location). Although the Noise Impact Assessment Study concluded that existing ambient noise levels near the Proposed Substation exceed 65 dBA, operation of the Proposed Substation will not result in any perceptible noise increase above background levels at the nearest non-industrial receptor, and therefore, will not result in any adverse impacts.

The closest residential receptor is located approximately 0.35 miles (1,848 feet) northwest of the Proposed Substation and the nearest commercial receptors are located more than 700 feet from the Proposed Substation. As future noise levels at the Hempstead Plains Education Center located 300 feet northeast of the Proposed Substation will not result in any perceptible noise increase, the Proposed Substation will not result in any adverse noise impacts at the closest residential and commercial receptors.

#### *Electromagnetic Field (EMF) Study*

According to the New York State Public Service Commission's (NYSPSC's) Statement of Interim Policy on Magnetic Fields of Major Electric Transmission Facilities (issued and effective September 11, 1990), the standard for magnetic field is 200 milligauss (mG). Potential impacts of the Proposed Action with regards to EMFs is provided in **Attachment F**.

The potential EMF impact of the Proposed On-Site Work and Proposed Off-Site Work components were evaluated relative to the EMF levels modeled for the West Bartlett and Berry Street Substation projects, given that they consisted of the same components operating at equal voltages. The EMF levels for the West Bartlett and Berry Street Substation projects were well below the "prudence avoidance" health standard of 200 mG for all project components (the substation, OH transmission, UG transmission, OH distribution and UG distribution). Based on a comparative analysis of the West Bartlett Substation and Berry Street Substation Electric and Magnetic Field Assessments, the predicted EMF levels from of the Proposed Action would be

well below the 200 mG threshold established by the NYSPSC and will not result in any significant adverse environmental impacts.

The Electric and Magnetic Field Assessments for the West Bartlett Substation and Berry Street Substation are provided in **Appendix E**.

#### *Operational, Construction and Outreach Issues*

The Proposed Action will not cause significant operational or construction impacts. Potential impacts due to construction of the Proposed Action is discussed in **Attachment G**.

During the majority of the Proposed Substation construction work, there will be no impact on traffic since all work will occur on the Proposed Substation property. Flaggers will be deployed any time traffic needs to be regulated. Traffic may be impacted temporarily during the Proposed Off-Site Work. However, most of the time traffic will be able to flow in both directions along roadways with the use of cones to shift lanes. If lane closures are required, flagmen will be used to control traffic.

In the immediate vicinity of construction activities, access to residences and businesses will be temporarily limited, but at no point completely blocked. During work shifts, a worker will be assigned to move protective barriers to provide access to properties. A path for emergency equipment to access all residences and businesses will be provided at all times. Access will be returned to normal at completion of work. Notifications relating to temporary limited access will be sent in advance to effected local residences and businesses. Based on the limited increases in vehicular trips and traffic control implementation in impacted areas, the Proposed Action will not result in significant adverse impacts to traffic. In addition, although the Proposed Substation will operate 24 hours per day, 7 days per week, the facility is unmanned with the exception of occasional visits from PSEG Long Island personnel and subcontractors for routine maintenance. As such, operation of the Proposed Action will not result in any increase to existing traffic conditions.

Since construction vehicles, worker vehicles and construction equipment are not expected to operate on a continuous basis during any day, any generated air emissions are not expected to result in significant air quality impacts. Fugitive dust emissions occur as a result of soil or other fine material transport or transfer operations, and traffic over unpaved areas. Dust suppression techniques (i.e. wetting, reduced load heights, etc.) will be implemented during demolition/construction activities to minimize the amount of dust generated. Appropriate equipment and truck idling reduction, and fugitive dust control measures, such as dust covers and rinsing of trucks, will be implemented as necessary to minimize emissions. As best practices will be implemented to minimize fugitive dust, the potential for fugitive dust will not result in any significant adverse environmental impacts.

The construction of the Proposed Action will generate temporary, elevated noise levels near the Proposed Substation and the proposed Off-Site Work locations. Anticipated noise impacts due to construction activities are directly related to the type of equipment utilized (magnitude) and average length of construction time (duration) and distance from the noise source to the receptor

location. Noise from the construction of the Proposed Substation will not result in significant increased noise levels for surrounding properties due to its distance from the closest receptors. Construction of the Proposed Off-Site Work will result in an increase in noise levels for a limited amount of time. Therefore, construction of the Proposed Action will not result in a significant noise impact to nearby properties due to the nature, and limited duration of these activities.

With the exception of select transmission pole installations, excavation activities related to the Proposed Action construction will not reach the depth of groundwater and will therefore not result in any significant adverse impacts to groundwater. If warranted during select transmission pole installations, groundwater will be removed from the pole boreholes utilizing pumps and will be transferred into frac tanks for on-site containment, testing, and subsequent off-site transportation and disposal. Dewatering activities will follow best management practices to avoid erosion and sediment migration concerns and will be conducted in compliance with PSEG Long Island SOP EG-706.

As the Proposed Action is not located within an archaeological sensitive area, there will be no impact on archaeological resources. The Proposed Action is predominantly located on land that has been previously subjected to extensive filling and a variety of other disturbance activities. Proposed Off-Site Work along the Section A OH transmission line is located within and immediately adjacent to the Mitchel Air Base and Flight Line Historic District (referred to as “the District”), which is listed on the National Register of Historic Places. The District is large, with over 100 extant structures from the period of significance in the early 1930s. The Proposed Action will have no physical impact on these structures. Although the potential for visual impacts resulting from these structures exists, they will not constitute a significant adverse impact to architectural resources within the District given the presence of the existing OH transmission lines and structures within and immediately adjacent to the District. In addition, the District has been adaptively repurposed and is currently located in an urban setting with numerous modern visual intrusions, including large office buildings and various commercial and residential structures.

Consultation requests were submitted to the NYSOPRHP in order to evaluate the potential impact from the Proposed Action on archaeological and/or historic resources within the project area. Responses were received from the NYSOPRHP on February 20 and March 14, 2019 stating that the Proposed Action will have no impact on archaeological and/or historic resources listed in or eligible for the New York State and National Register of Historic Places.

Several of the steel transmission towers that will be removed as part of the Proposed Action contain lead based paint (LBP). LBP coated towers will be properly abated and disposed of/recycled in accordance with applicable federal and state regulations.

Based upon review of information provided, the Authority has determined that the Proposed Action would not have any significant adverse impacts on the environment and, accordingly, that an environmental impact statement is not required. A full statement of the reasons supporting this determination is set forth in the EA and related documents.

**For Further Information:**

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/s/ Rick Shansky

Rick Shansky

Vice President of Operations Oversight

Dated: July 30, 2019

## LINDBERGH SUBSTATION REPORT

### **1.0 INTRODUCTION AND PROJECT DESCRIPTION**

#### **1.1 INTRODUCTION**

PSEG Long Island (PSEG LI), as agent for Long Island Lighting Company d/b/a LIPA, a wholly owned Subsidiary of the Long Island Power Authority (“LIPA”), is proposing to upgrade approximately 1.75 miles of an existing 69 kilovolt (kV) transmission line (Circuit 69-465) in connection with its proposed construction of the Lindbergh Substation (the “Proposed Substation”, also referred to as “on-site work”) and Associated Transmission Line Replacement and Reconductoring Distribution Feeder Installation Conversion and Reconductoring (C&R) work (collectively, the “off-site work.”). The proposed on-site work and off-site work is referred to as the “Proposed Action.” Circuit 69-465 is primarily an overhead (“OH”) line with limited underground (“UG”) facilities and runs east-west between an existing substation located in Uniondale and an existing substation located in East Meadow. Transmission upgrades will be limited to two sections of the existing transmission line, including one 4600 foot section located in the hamlet of Uniondale (identified as Section A) and one 4500 foot section located in the hamlet of Salisbury, Town of Hempstead (identified as Section B), Nassau County, New York (see Figure 1 in Appendix A).

In accordance with the LIPA Board Policy on Construction of Transmission and Distribution Projects (the “Policy”), PSEG Long Island has prepared this Report to evaluate the system wide benefits and costs to the public pursuant to New York State standardized criteria (the “Report”).

#### **1.2 PROJECT DESCRIPTION**

The project area is currently served by the existing substations in Uniondale and East Meadow. Recent engineering studies and analysis by PSEG Long Island have concluded that the Proposed Action is needed as a result of growing energy demands exceeding the capacity of the existing substations in the area. The Proposed Substation is required to provide an adequate and reliable power supply to the surrounding area and to support new developments in the area including the redevelopment of the Nassau Coliseum, the new Nassau County Police Academy, and the proposed Nassau Hub, a Nassau County sponsored multi-phase mixed-use development planned for the lands surrounding Nassau Coliseum. It is anticipated that the Proposed Action will commence in July 2019 and will be completed by the end of 2022.

A detailed Project Description is available at <https://www.psegliny.com/reliability/Lindbergh> (hereinafter referred to as the “SEQRA Link”).

## 2.0 INVENTORY OF PRIORITY AREAS AND OTHER CLASSES OF RELEVANT AREAS THROUGH WHICH WORK ON THE TRANSMISSION LINE WILL BE UNDERTAKEN

Section A of the OH transmission line will traverse residential development that exists on both sides of Ellington Avenue E, which has an average density of approximately one dwelling unit per acre. Section A of the OH transmission line along the LIRR right of way (“ROW”) will be adjacent to but will not traverse the Mitchel Air Base and Flight Line Building District, which is listed on the National Register of Historic Places.

Section B of the OH transmission line traverses Eisenhower Park, which is a Nassau County Park. The following table identifies the Priority Areas and other Areas in which the OH transmission line is located.

<b>Table 2-1 Priority Areas</b>			
<b>A. Priority Areas Requiring Advantage/Disadvantage Analysis as listed in the Policy</b>		<b>Proposed Project Located Within Area</b>	
		<b>Yes</b>	<b>No</b>
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>B. Other Areas NOT Requiring Advantage/Disadvantage Analysis as listed in the Policy</b>		<b>Proposed Project Located Within Area</b>	
		<b>Yes</b>	<b>No</b>
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 semipublic 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		X



	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.		
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 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 article 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 any priority area above.		X

### **ADVANTAGE/DISADVANTAGE ANALYSIS**

Both Sections A and B of the OH transmission line are existing. The existing route of the transmission line will not change. The only structural changes to the existing OH transmission line will be the following:

#### **OH Section A**

- a. Four existing towers will be replaced by steel poles and one tower will be eliminated. Three of the replacement poles will be 10-11 feet taller than the towers they are replacing. One replacement pole will be 25 feet taller than the tower it is replacing.
- b. Three existing steel poles will be replaced by steel poles that are 11 feet taller or less.
- c. Two new steel riser poles, one 70 feet and the other 74.5 feet tall will be installed. Two existing steel poles, with heights of 62 feet and 52.57 feet respectively, will be removed.

#### **OH Section B**

- a. Seven towers which range in height from 74.16 feet to 64.31 feet will be removed.
- b. Twelve new steel poles, all of which will be 70 feet tall, will be installed.
- c. Two existing steel poles will be replaced by steel poles each of which will be taller by less than 10 feet.

Additional details for the structure modifications of OH Transmission Sections A and B are set forth in the Project Description at the SEQRA Link. Maps depicting the locations of the structure modifications for OH Transmission Sections A and B are also available at the SEQRA Link.

These structural changes are limited in scope and will not cause any adverse visual or community character impact. See Visual Resources Assessment Documentation available at the SEQRA Link.

The cost of the Off-Site Work on the OH transmission line will be \$8.2 mln.

The cost to underground the existing OH transmission line would be \$21.1 mln.

<b>Section</b>	<b>OH (\$, mln)</b>	<b>UG (\$, mln)</b>	<b>Difference (UG-OH, \$, mln)</b>
Section A	3.5	11.7	+8.2
Section B	4.7	9.4	+4.7
Total	8.2	21.1	

Undergrounding the existing line would involve removal of OH facilities from the right of way. For Section A, which is mainly along the railway that contains multiple structures similar to OH facilities, the advantage would be negligible. For Section B, which goes through the golf-course section of a public park, removal of OH facilities would confer some visual benefit, but it would not overcome the disadvantage of doubling the cost, since OH facilities have been in the park for a long time and the golf course was designed around them. The increased cost to underground either Section A or B of the existing OH transmission line would be a significant disadvantage. This increased cost, which would have to be paid by all customers within the Service Territory, lacks any environmental, engineering or technical justification. Moreover, since the OH transmission line is an existing facility, and the limited structural modifications are to the overhead portions of the line and will not cause any adverse visual or community character impacts, maintaining the transmission line as an existing OH structure is the best alternative and will not be a disadvantage for the adjacent communities.

The advantage/disadvantage analysis supports maintaining both sections of the existing transmission line as an OH line.

## OUTREACH

Outreach for the Proposed Action was conducted during several meetings in accordance with PSEGLI's outreach standards. Outreach was conducted with the Town of Hempstead, various Nassau County agencies, including the Executive's Office and the Legislature, the Department of Public Service staff, Nassau County Community College and a significant number of customers in the vicinity of the Proposed Action.

## **Conclusion**

As this Report indicates, this Project and the Proposed Action satisfies the requirements of the LIPA Board Policy on Construction of Transmission and Distribution Projects for selection of construction type and public outreach.