

## **A. INTRODUCTION**

PSEG Long Island, as Agent for LIPA, is proposing the construction of the 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”.

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 Proposed Action is subject to review under the State Environmental Quality Review Act (“SEQRA”), as it is an “action” being undertaken by LIPA. SEQRA is codified at Article 8 of the New York Environmental Conservation Law, as well as the implementing regulations, promulgated at Part 10052 of Title 21 and Part 617 Title 6 of the New York Codes, Rules and Regulations (“N.Y.C.R.R.”), which set forth the requirements for the State Environmental Quality Review (SEQR) process for the Proposed Action. This Environmental Assessment therefore follows SEQRA. The Proposed Action is a “Type I” Action as defined in SEQRA.

## **B. PROJECT NEED AND DESCRIPTION**

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 components, as detailed below.

### **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 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.

### **C. SITE SETTING**

The Proposed Substation (“On-Site Work”) property is situated on the northwest corner of the intersection of Perimeter Road and Charles Lindbergh Boulevard, and is located in a mixed-use area, primarily characterized by industrial, commercial and institutional land uses. An industrial power plant, Nassau Energy Corporation, is currently located immediately west of the Proposed Substation property. Nassau Veterans Memorial Coliseum (an indoor arena hosting sporting and entertainment events) and an associated parking area is located south of the Proposed Substation property, across Charles Lindbergh Boulevard. The Long Island Marriot hotel and an associated surface parking area is located south of the Proposed Substation property, across Charles Lindbergh Boulevard. The Francis T. Purcell Preserve is located southeast of the Proposed Substation, across Charles Lindbergh Boulevard. The Hempstead Plains, an area of native grassland, as well as the Hempstead Plains Education Center, is located east-northeast of the Proposed Substation property and vegetated undeveloped land and a Nassau Community College parking lot is located north of the Proposed Substation property.

The Proposed Off-Site Work will primarily be constructed within public roadway right-of-way. The Section A OH transmission line located adjacent to the LIRR right-of-way located approximately 0.5-mile north of the Proposed Substation between Quentin Roosevelt Boulevard and the Meadowbrook Parkway is located in an area primarily characterized by commercial, residential and light industrial uses. The Section B OH transmission line is located along a paved pathway within the Eisenhower Park Golf Course, and extends slightly east past Carman Avenue. The portion of the Section B OH transmission line located east of the Eisenhower Golf Course is adjacent to Nassau County Correctional Center.

The two UG 69kV transmission tie-in cables to be installed along Perimeter Road between the existing right-of-way and the Proposed Substation will be primarily constructed within the public roadway right-of-way, located in an area primarily characterized by commercial and institutional uses. In addition, vegetated, undeveloped land bounds the majority of this area.

The two UG 13kV distribution exit feeders to be installed from the Proposed Substation property and along Earle Ovington Boulevard, Uniondale Avenue and Braxton Avenue will

primarily be installed within the public roadway right-of-way; however, will exit the ground and connect to OH distribution circuits in areas located south of Hempstead Turnpike and west of the Meadowbrook Parkway. These areas are primarily characterized by residential, institutional and certain commercial use.