

**Submission of Indicated New York Transmission  
Owners  
For Authority to Construct and Operate Electric  
Transmission Facilities in Multiple Counties in  
New York**

**Case 13-M-0457**

**Exhibit E-1**

**Description of Proposed Transmission Facilities**

*New Scotland to Leeds 345 kV Transmission Line  
Reconductoring  
and  
Leeds to Pleasant Valley  
345 kV Transmission Line Project  
(NS-LD(R)/LD-PV)*

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**NEW SCOTLAND TO LEEDS 345 KV TRANSMISSION LINE RECONDUCTORING  
AND  
LEEDS TO PLEASANT VALLEY 345 KV TRANSMISSION LINE PROJECT  
(NS-LD(R)/LD-PV)**

**EXHIBIT E-1: DESCRIPTION OF PROPOSED TRANSMISSION FACILITIES**

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## **EXHIBIT E-1: DESCRIPTION OF PROPOSED TRANSMISSION FACILITIES**

### **E-1.1 New Scotland to Leeds 345 kV Transmission Line Reconductoring and Leeds to Pleasant Valley 345 kV Transmission Line Project**

#### ***E-1.1.1 New Scotland to Leeds Reconductoring***

The New Scotland to Leeds reconductoring segment starts at the existing New Scotland Substation in the Town of New Scotland, Albany County. The scope of work consists of the reconductoring of two existing 345 kV lattice structure lines and replacement of certain structures for approximately 25.9 miles within an existing ROW. This segment passes through the Towns of New Scotland and Coeymans in Albany County, and the Towns of New Baltimore, Cocksackie and Athens in Greene County.

#### ***E-1.1.2 Leeds to Churchtown***

The Leeds to Churchtown segment starts at the Leeds Switching Station in the Town of Athens, Greene County. The scope of work consists of the removal of the existing 115 kV double-circuit lattice structure lines and the construction of a new monopole double-circuit 115/345 kV line. This segment includes an existing aerial crossing of the Hudson River and terminates at the rebuilt and expanded 115 kV Churchtown Switching Station in the Town of Claverack, Columbia County. This segment passes through the Town of Athens and the Village of Athens in Greene County and the Towns of Greenport and Claverack in Columbia County.

#### ***E-1.1.3 Churchtown to Pleasant Valley***

The CT-PV segment starts at the rebuilt and expanded Churchtown Switching Station. The scope of work consists of the removal of two existing 115 kV double-circuit lattice structures, and the construction of a new 115/345 kV double-circuit monopole structure line within approximately 32.3 miles of existing ROW. This segment terminates at the existing Consolidated Edison 345 kV Pleasant Valley Substation in the Town of Pleasant Valley, Dutchess County. All work at the Pleasant Valley Substation will be within the existing fenceline. The CT-PV segment passes through the Towns of Claverack, Livingston, Gallatin, and Clermont in Columbia County, and the Towns of Milan, Clinton, and Pleasant Valley in Dutchess County.

## E-1.2 Design Voltage, Conductor, and Insulators

Table E-1-1 below summarizes the design voltages, operating voltages, and conductor types for each segment.

**Table E-1-1: Design Voltage and Conductor**

| <b>Project / Line</b>                 | <b>Design Voltage (kV)</b> | <b>Operating Voltage (kV)</b> | <b>Proposed Conductor</b>          |
|---------------------------------------|----------------------------|-------------------------------|------------------------------------|
| <b>New Scotland-Leeds Reconductor</b> |                            |                               |                                    |
| #93 New Scotland-Leeds                | 345                        | 345                           | 2 - 795 kcmil 26/7 "Drake" ACSS    |
| #94 New Scotland-Leeds                | 345                        | 345                           | 2 - 795 kcmil 26/7 "Drake" ACSS    |
| <b>Leeds-Pleasant Valley</b>          |                            |                               |                                    |
| #96 Leeds-Pleasant Valley             | 345                        | 345                           | 2 - 954 kcmil 54/7 "Cardinal" ACSS |
| #5 North Catskill-Churchtown          | 115                        | 115                           | 954 kcmil 54/7 "Cardinal" ACSS     |
| #4 Churchtown-Blue Stores             | 115                        | 115                           | 954 kcmil 54/7 "Cardinal" ACSS     |
| #T7 Blue Stores-Milan                 | 115                        | 115                           | 954 kcmil 54/7 "Cardinal" ACSS /   |
| #10 Milan-Pleasant Valley             | 115                        | 115                           | 954 kcmil 54/7 "Cardinal" ACSS     |

Insulators for all the new transmission lines will typically be suspension-type ball-and-socket ceramic insulators in “I” or “V” configuration. Insulator color will match the finish of the new structures to the greatest extent possible. Grey insulators will be used with galvanized steel structures and brown insulators will be used with weathered steel or wood structures.

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