

EXHIBIT E-1: DESCRIPTION OF NEW TRANSMISSION FACILITIES

E-1.1 Edic to Pleasant Valley 345 kV Line Component

The Edic to Pleasant Valley 345 kV Transmission Line component is comprised of the construction of a new 345 kV line from Edic Substation to Pleasant Valley Substation, and the rebuild of portions of the #30 Porter to Rotterdam 230 kV line and the #31 Porter to Rotterdam 230 kV line.

The Edic to Pleasant Valley 345 kV Transmission Line component also includes construction of three new substations: Princetown Substation in the town of Princetown; Knickerbocker Substation in the town of Schodack; and Churchtown Substation in the town of Claverack. Information regarding these new substations as well as improvements at Edic Substation and Pleasant Valley Substation will be provided in Exhibit E-2.

The new 345 kV line from Edic Substation to new Pleasant Valley Substation is approximately 153 miles in length and will tie into the new Knickerbocker Substation. It is the intent of the Applicant to design the proposed transmission lines to be constructed entirely within existing ROWs as illustrated in Exhibit 2. However, additional survey, design and engineering analysis needs to be completed to confirm the feasibility of this design approach. The additional analyses include assessment of costs, environmental impacts, cultural impacts, and societal impacts. Other electrical modifications will be made to the 345 kV transmission system including tying the existing #14 Edic to New Scotland in and out of new Princetown Substation and tying the existing #2 New Scotland to Alps in and out of new Knickerbocker Substation.

Approximately five miles of the existing #30 Porter to Rotterdam 230 kV line and five miles of the #31 Porter to Rotterdam 230 kV line will be rebuilt between new Princetown Substation and Rotterdam Substation within existing ROW. The remaining portions of the #30 Porter to Rotterdam 230 kV line and the #31 Porter to Rotterdam 230 kV line not rebuilt, from Porter Substation to new Princetown Substation, will be retired and removed.

E-1.1.1 Design Voltage, Conductor, and Insulators

The new Edic to Pleasant Valley 345 kV transmission lines will be designed to operate at a nominal system voltage of 345 kV alternating current (“AC”). The voltage at initial operation will also be 345 kV.

The portions of the existing #30 Porter-Rotterdam 230 kV line and the existing #31 Porter-Rotterdam 230 kV line that will be rebuilt from new Princetown Substation to Rotterdam Substation will be designed to operate at a nominal system voltage of 230 kV AC. Their voltage of initial operation will also be 230 kV.

Conductor types for each circuit requiring work will be continually examined as the Project is developed