

## **1.5 Sound Environment and Noise Assessment**

The LD-PV(R) Project does not propose the construction of new terminal or associated facilities such as substations. The work associated with the LD-PV(R) Project will not create the potential to increase existing residual ambient sound levels. Accordingly, the requirements for conducting sound environment and noise assessment studies do not apply to the LD-PV(R) Project.

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## 1.6 Storm Resiliency and Climate Change

Table 1.6.1 identifies the number and distances of river and stream flood hazard areas crossed by the Project centerline, and an estimated number of permanent structures, based on preliminary design, proposed within these areas.<sup>9</sup> Flood hazard areas are based on Federal Emergency Management Agency (“FEMA”) National Flood Insurance Program (“NFIP”) floodplain mapping. Flood hazard areas listed include FEMA-defined floodways, 100-year floodplains (Zone A and Zone AE), and 500-year floodplains.

The LD-PV(R) Project centerline has a total of 15 floodplain crossings with a total linear distance of approximately 20,270 feet, including an approximately 4,125-foot crossing of the Hudson River and associated floodplain. A total of 37 existing structures are located within flood hazard areas, none of which are located within designated floodways.

### *1.6.1 Narrative description of major flood hazard areas*

#### *Hudson River*

The LD-PV(R) Project crosses the Hudson River and the associated 100-year floodplain (Zone A and Zone AE) for a total distance of approximately 4,125 feet including a main channel crossing of approximately 2,100 feet. This crossing is located between the Town of Athens in Greene County and the Town of Greenport in Columbia County. A pair of single circuit lattice structures supporting the two 345 kV lines are located at both the east and west edges of the river; these are the only Project structures located in the Hudson River flood hazard area. Final design for this Project would include structural analysis of these critical structures and any necessary reinforcement as part of the reconductoring of these lines.

#### *Roeliff Jansen Kill*

The LD-PV(R) Project includes multiple crossings of the Roeliff Jansen Kill 100-year floodplain (Zone A) totaling approximately 12,950 feet. In this area the meandering Roeliff Jansen Kill forms the boundary between the Town of Clermont and the Town of Livingston in Columbia County. A total of 29 existing transmission line structures are located within this broad expanse of floodplain. This floodplain area is generally undeveloped with a mix of wooded areas and agricultural fields. Aerial photography shows a generally well-defined, meandering stream channel with several small areas of braided channel. Final

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<sup>9</sup> Table 1.6-1 does not include any estimates for permanent structures within flood hazard areas other than transmission facilities because access roads, culverts, and fill areas are not anticipated within flood hazard areas.

design for this Project would include structural analysis of these structures and any necessary reinforcement as part of the reconductoring of these lines.

The Roeliff Jansen Kill is a major tributary to the Hudson River and flows for a distance of 56 miles through Columbia and Dutchess Counties. The total watershed area is approximately 212 square miles.

**Table 1.6-1: River and Stream Flood Hazard Areas Crossed**

Flood Hazard Areas	Project Segment			Project Total		
	Leeds to Pleasant Valley (LD-PV)					
	Number of Crossings	Total Distance Crossed (feet)	Number of Structures	Number of Crossings	Total Distance Crossed (feet)	Number of Structures
Floodway	0	0	0	0	0	0
100-Year Floodplain - Zone A	12	15,139	31	12	15,139	31
100-Year Floodplain - Zone AE	1	3,127	2	1	3,127	2
500-Year Floodplain	2	2,005	4	2	2,005	4
<b>Totals</b>	<b>15</b>	<b>20,270</b>	<b>37</b>	<b>15</b>	<b>20,270</b>	<b>37</b>

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# **Additional Cost Information**

## **LD-PV(R) Project**

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because it contains confidential information.]*

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## **Exhibit 2.1**

### **LD-PV(R) Project Summary Estimate**

*[Submitted under separate cover to the ALJs for confidential treatment  
because it contains confidential information.]*

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