

Mohawk Solar

Case No. 17-F-0182

1001.40 Exhibit 40

Telecommunications Interconnection

EXHIBIT 40 TELECOMMUNICATIONS INTERCONNECTION

It is not anticipated that the Facility will require telecommunication interconnections as defined by Article 10, 16 NYCRR 1000.2. It is likely that data will be transmitted to National Grid and others using existing cellular and broadband telecommunications facilities. In addition, Facility communications will be installed on-site as part of substation and operation and maintenance (O&M) building improvements.

(a) Operational Data Transmitted to NYISO

It is anticipated that the Facility's operational generating data will be transmitted to NYISO/National Grid through an underground conduit or duct from the collection substation into the POI, and will include generation data (MW output, MVAR, and any curtailment) and environmental data. The Facility's meter is anticipated to be located at the POI substation. From the metered location, generation data would travel along a fiber optic line connecting the POI substation to the adjacent collection substation. Similar internet service would also be provided for the O&M building. At the collection substation, a T-1 line, which is a paired copper line, would be established by the local internet service provider. Once the collection substation and O&M building have internet service, a secure Internet Protocol Security (IPsec) Virtual Private Network (VPN) will be established between the collection substation and O&M building to allow for secure communication between the two locations.

(b) Facility Operations Communications Methods

High speed internet (T-1 or other provider) will be established at the collection substation. At that point, a secure IPSEC VPN will be established over that line and an energy management firm will provide the Applicant with the real-time telemetry from the collection substation remote terminal unit (RTU). In addition, an IP address can be established for other necessary parties to access the telemetry as well. A T-1 line at a typical standard 1.54 megabytes per second (MB/s) is sufficient to transmit the necessary park telemetry, data, and other information to the appropriate parties for monitoring and reporting purposes.

At the O&M building, a similar setup will be established for high speed data communications. A Voice over Internet Protocol (VoIP) telecommunications network will be set up to allow communications between the Applicant and NYSEG as well as allowing for telecommunications to the public and first responders/emergency responders, if necessary. At both the O&M building and collection substation, there will be VPNs tied back to Avangrid Renewables' corporate offices for remote monitoring and access to the Facility.

(c) Status of Negotiations

The regulation requires a description of the status of negotiations, or a copy of agreements that have been executed, with companies or individuals for providing the communications interconnection, including any restrictions or conditions of approval placed on the Facility imposed by the provider, if applicable. Such negotiations have not yet been initiated for the Facility because the need for these agreements had not been identified as of the time of the Application.