

# Project 2021-03 CIP-002 Transmission Owner Control Centers

## Field Test – Questionnaire 2

*Please complete the following questions to help us better understand your system.*

*As a NERC Control Center (CC) is applicable to specific configurations, an entity may have no CC, may have one, or could possibly have multiple CC locations. To the extent that an entity has multiple CC locations that control different Facilities, the entity should complete a separate questionnaire for each CC location or clearly delineate between each CC location on the questionnaire as the individual outcomes of the application of Criterion 2.12 could be different.*

*Terms explained for the purposes of this questionnaire. (Definitions below apply to this questionnaire and are not necessarily consistent with other ERO approaches)*

- **Capability** – An entity has the capability to Operate if that registered entity's "control environment" (Control Center, control room, site where personnel are physically located to perform duties to conduct the delivery of electricity) has one or more SCADA/PLC/Other electronic control system(s) that can operate electrical equipment such as breakers, switches, or disconnects in either normal or emergency conditions. The entity may have the authority to Operate electrical equipment or may require authorization from another entity prior to operating electrical equipment.
- **Authority** – An entity with the authority to Operate electrical equipment has the contractual ability to either Operate electrical equipment, or give orders to another entity with the capability (but no authority) to Operate electrical equipment.

**Reference Question 2 from Questionnaire 1:**

**Do you have a site that is staffed by operating personnel, from which you can remotely operate Facilities at two or more locations?**

Yes     No

**Complete the following for the site(s) referenced in Question 2:**

1. How many transmission breakers do you have the capability to operate from this site via SCADA, including any breakers that you would only Operate with authority from another entity?

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2. How many transmission switches do you have the capability to operate from this site via SCADA, including any switches that you would only Operate with authority from another entity?

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3. Aside from your Capability to Operate devices from this site via SCADA, do you require Authorization from another entity prior to Operating any device? Do you have the Capability to operate any devices via SCADA in an emergency independent of your Authorizing entity? Please describe your Capability and Authority with respect to Operation of your electrical devices.

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4. Have you adapted your SCADA system at this site to enable/disable the Capability to Operate your electrical equipment? If so, did your enabling/disabling occur via a physical disconnection (visible open/air gap) or via software? What actions would be required to restore SCADA capability?

Yes     No

Yes     No

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5. Does another entity have the Capability to fully isolate your transmission assets from the Bulk Electric System via their own SCADA systems that do not rely on cyber systems located at this site?

Yes     No

6. Have your transmission assets ever intentionally or unintentionally been cut off from the Bulk Electric System? If yes, describe any resulting impacts to the remaining Bulk Electric System.

Yes       No

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7. Does any other entity have the Capability to Operate your equipment via their own SCADA system? If yes, does that entity have an independent SCADA system to Operate the equipment or does that entity rely on your Cyber Systems located at this site?

Yes       No

Yes       No

8. Are you required to provide data from your BES Cyber Systems to TOPs or RCs per IRO-010 and TOP-003, as necessary for those entities to perform their Operational Planning Analysis, Real-time monitoring, and Real-time Assessments? If so, describe the impact to those entities if your data link to that entity were to go down. Please provide the date and time, along with a description of impacts to any TOPs/RCs, for any past event in which your data link to that entity went down in the past 5 years.

Yes       No

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9. Can protective relays be accessed by your SCADA system? What level of access (i.e., event and fault data only and/or ability to change relay settings)?

Yes       No

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10. Do you have a contingency plan for loss/interruption of cyber system(s) located at your site? At a high level, what does it cover?

Yes       No

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Potential power flow studies to consider for gauging impact are provided below. Specific direction will need to be given regarding case selection and solution parameters to ensure consistent application between participants.

1. Evaluate system response (entity’s system and neighboring systems) if all breakers/switches that can be operated remotely from the entity’s BES Cyber System are simultaneously opened.
2. Evaluate system response (entity’s system and neighboring systems) lines/autos for which an entity is capable of interrupting through-flow from the entity’s BES Cyber System are operated sequentially, starting with the most heavily loaded line/auto.
3. Evaluate system response (entity’s system and neighboring systems) to a broad spectrum of System conditions and following a wide range of probably Contingencies. Essentially, provide the results of the TPL-001-4 Planning Assessment that was performed for their assets. All but six of the entities are also registered as Transmission Planners.