	Reliability Coordinator Procedure	Procedure No. RC0610A
		Version No. 1.3
		Effective Date 4/01/24
Criteria for Determining Facilities Critical to Derivation of IROL		Distribution Restriction: None

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Purpose

The purpose of this document is to define criteria that will be used by RC West to determine the list of Facilities critical to the derivation of an IROL. The list of Facilities critical to the derivation of an IROL is only established and communicated for pre-defined IROLs.


1. Applicability

Reliability Coordination.

2. Introduction

NERC standard FAC-014-3 R5.2.2 requires that the RC provide “identification of the Facilities that are critical to the stability limit or IROL”.

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This document describes the criteria RC West will use in determining the list of Facilities critical to the derivation of a pre-defined IROL.

RC West’s approach is to limit the list of Facilities critical to the derivation of a pre- defined IROL to those Facilities whose status or output has a significant impact on the IROL. In other words, RC West’s list of Facilities critical to the derivation of a pre-defined IROL will include a certain limited set of Facilities, which, if removed from service because of a planned or forced outage, could significantly impact the IROL and thus BES reliability.


Certain types of IROLs can be impacted by a very large number of Facilities in an area; however, the loss of a single Facility in itself may not significantly impact the IROL. It is not the intent of the RC to potentially designate every Facility in a wide area as being critical to the derivation of an IROL. In such cases, RC West will make the determination on a case-by-case basis as to whether any Facility should be included in the list of critical Facilities. For example, system import limitations into a large load area due to steady-state voltage instability may be an IROL. In this scenario, every individual shunt capacitor in that load area may impact the import limit (i.e. the IROL) to some degree. In this example, it would not be RC West’s intent to classify every individual shunt capacitor in that load area as being critical to the derivation of the IROL.

3. Criteria

While each IROL will be reviewed on a case-by-case basis, the following general criteria will be used to determine RC West’s list of Facilities critical to the derivation of the IROL:

- If a change in Facility status determines the existence or non-existence of an IROL
- If a change in the transmission line or transformer rating results in a change of the IROL value
- If a change in the generation capability results in a change of the IROL value
- If a change of unit/synchronous condenser, static var compensator, statcom or other reactive support device capability results in a change of the IROL value
- If the Facilities are critical Contingencies for the IROL

Any facilities identified to be critical for IROL derivation will be listed in the respective IROL operating guides.

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4. Supporting Information

Operationally Affected Parties

Shared with the Public. Shared specifically with Adjacent RCs, each Planning Coordinator and Transmission Planner mapped to the RC West in the WECC database (webCDMS), and RC West TOPs.

References

NERC Requirements	
Other References	

Definitions


The following terms capitalized in this Operating Procedure are in accordance with the NERC Glossary, and/or otherwise when used are as defined below:

Term	Description
None.	

Version History

Version	Change	Date
1.0	Approved by Steering Committee.	3/12/19
1.1	Replaced CAISO RC with RC West throughout. Added note on where the specific facilities critical to IROL derivation can be located. Minor format and grammar updates.	12/01/20
1.2	Periodic Review: Updated Operationally Affected Parties to include additional procedure shared information.	10/18/22
1.3	Section 2: Updated NERC FAC-014 reference due to standard update.	4/01/24

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5. Periodic Review Procedure

Review Criteria & Incorporation of Changes

There are no specific review criteria identified for this document.

Frequency

Review at least once every three years.