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TECHNICAL BULLETIN

Import Limit Definition and Management in Support of Under-Frequency Load Shedding (UFLS)

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(Updated on December 17, 2012)

(Updated on September 30, 2013. Limit to be removed on October 1, 2013)

Revision History

Date	Version	Description	Author
12/3/2012	1.0	Provided information regarding import limit definition and management	ISO
12/17/2012	2.0	Removed branch group component list	ISO
09/30/2013	3.0	Limit is no longer needed starting on October 1, 2013.	ISO

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SCE_PCT_IMP_BG is removed from the ISO real-time and day ahead markets effective on trade day October 1, 2013. This is to align with the removal of the under-frequency import limit to the SCE area.

The under-frequency import limit was enforced based on the Transmission Owners local reliability criteria under the Transmission Control Agreement. The limit was intended to maintain sufficient resource supply balance within an area under a severe under frequency load shedding and intertie separation event. The limit recognized the pre-ISO intertie under frequency separation scheme that would separate the SCE area at designed intertie points and intra-tie locations.

ISO and SCE recently conducted a joint study to evaluate the effectiveness of the existing Under Frequency Load Shedding and separation scheme and considered potential modifications to the separation scheme. The joint study result recommended that ISO and SCE (with coordination with other PTOs) make slight change in the UFLS intertie separation scheme. The UFLS intertie separation scheme works independently of the limit and the limit is not required for application of the scheme. The limit as previously applied by the ISO was necessary to ensure the ISO met the PTO requirements for managing their system reliably in the event of an under frequency event. However, in such cases, the UFLS protocols worked independent of the import limit, pursuant to WECC requirements. With the change on the UFLS intertie separation scheme targeted to be implemented in October 1, the under-frequency import limit that was based on the separation scheme to isolate SCE area in case of a under frequency separation event was deemed to no longer be necessary by the PTO and the ISO. Therefore, the import limit will be removed from the ISO's requirements.

The SCE_PCT_IMP_BG constraint will also be removed from the monthly CRR model starting with the November 2013 CRR process. However, the constraint is included in the 2014 annual CRR model since the annual process was already started in August. The SCE_PCT_IMP_BG limit will no longer be considered in the ISO transmission planning requirements.

This limit is not replaced by another limit and the ISO will not make operational adjustments to honor this limit.