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Open Access Technology International, Inc.
Common Requirements Between Parallel Flow Visualization Project and IDC Change Order #310

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Introduction:

The NAESB Business Practice Subcommittee has requested that OATI present at the NAESB BPS meeting in Indianapolis, IN, on April 11-13, 2011, a summary of the IDC Change Order #310, IDC Treatment of Tagged, Intra-Control Area Transactions, and the reasons why deployment of Change Order #310 is not required for completing the implementation of the Parallel Flow Visualization (PFV) project.

IDC Change Order #310 – IDC Treatment of Tagged, Intra Control Area Transactions:

Change Order #310 requests that the IDC be modified to identify the intra-Balancing Authority (intra-BA) tags that source and sink in the same Balancing Authority be identified. Where the specific generation source is known for intra-BA tags, the IDC should compute the relative impact of the intra-BA tag as the difference between the generator's Generator Shift Factor (GSF) and Balancing Authority's (BA) Load Shift Factor (LSF):

$$Tag_{Impact} = GSF_{Generator} - LSF_{BA}$$

Where the specific generator is not known, the IDC should compute the relative impact of the intra-BA tag as the difference between the BA's Transfer Distribution Factor (TDF) and BA's LSF:

$$Tag_{Impact} = TDF_{BA} - LSF_{BA}$$

In doing so, the IDC would assign a non-zero relative impact to intra-BA tags, thus making these tags subject to curtailment when the relative impact is greater than the 5% threshold.
In order to meet the requirements of the Change Order, OATI indicated that there was a need for Reliability Coordinators to provide a mapping of NERC Registry Source Points as identified in tags to a set of generators in the IDC PSS/E base case model (one or multiple generators). OATI does not believe that the mechanics of the implementation of the Change Order are relevant to this discussion. In addition, Change Order #310 was for implementation and change to the Production TLR procedure.

Change Order #310 was evaluated by OATI on February 04, 2010. The requested implementation date for this Change Order was June 1, 2010. These dates are critical to the full understanding of the potential confusion regarding the need for this Change Order #310 for the PFV project.

IDC Change Order #283 – Generation to Load Reporting Requirements:

The development of the PFV project in the IDC came in the form of IDC Change Order #283, Generation to Load Reporting Requirements. Change Order #283 was originated on January

05, 2009, and last revised response from OATI was provided on November 18, 2009 and approved for development. The requested implementation date for this Change Order was November 01, 2010.

In order to meet the requirements of calculation Generation-to-Load (GTL) impacts, the IDC needed to be modified to provide additional granularity of tags, that consisted of identifying the NERC Source Point of the tags and map them to a set of generators in the IDC PSS/E base case. This granularity requirement is identical to the one in the IDC Change Order #310. While the granularity functionality is the same between the two change orders, Change Order #283 would NOT change the Production TLR procedure, but for parallel operation.

Summary:

The sources of confusion between the two change orders lie on the facts that a) Change Order #283 has never been intended for Production operation as Change Order #310, and b) Change Order #310 was requested and evaluated AFTER Change Order #283; however Change Order #310 was scheduled for deployment PRIOR to Change Order #283. As such, the schedule for Change Order #283 would not meet the needs for Change Order #310.

Concluding, OATI would like to clarify that as of this date, implementation of Change Order #310 in its current form is NOT required to complete the implementation of the Parallel Flow Visualization project.