

**ICS 2021 White Paper SCOPE (DRAFT)**

**Investigate Inconsistencies Between TAN-45 and Alternative LCR Results**

**Study Purpose and Summary**

Due to concerns that arose during the review of 2021 IRM and LCR results regarding inconsistencies between TAN-45 and Alternative LCR results, the NYSRC Executive Council directed that the ICS investigate parameters and method differences between the two analyses that have contributed to significant differences between LCR determinations and TAN-45 results. For example, one area of investigation could be whether or not the current Tan45 method can, or should, implement constraints that are present in LCR analysis, such as a transmission security limit. Options such as use of the Optimizer should be explored to address potentially harmonizing the two methods to achieve more consistent results.

**Study Scope**

Investigate causes of differences between TAN-45 results and Alternative LCR analysis, possibly using an Optimizer to implement Transmission Security Limits in TAN-45 analysis, or more broadly, how could TAN-45 be performed by selecting a limit, amongst other changes that might be indicated.

Provide recommended changes in methods that would enable more consistent results between the two types of analysis.

**Study Schedule**

This study will be completed by May 2021.