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| SCR Number | [818](http://www.ercot.org/mktrules/issues/scr818) | SCR Title | Changes to Incorporate GIC Modeling Data into Existing Modeling Applications |

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| Date | March 7, 2022 |

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| Submitter’s Information | |
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| Market Segment | Investor Owned Utility (IOU) |

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| Comments |

Oncor, CenterPoint, and American Electric Power (Joint TSPs) provide these comments in support of System Change Request (SCR) 818, Changes to Incorporate GIC Modeling Data into Existing Modeling Applications. The last Geomagnetically-Induced Current (GIC) system model development process utilized Microsoft Excel spreadsheet templates that were populated by and transmitted between ERCOT and Transmission Service Providers (TSPs), and was a heavily manual process that should be improved for the next model development cycle.

Incorporating GIC equipment parameters in the Network Model Management System (NMMS) will enable TSPs to leverage the existing Network Operations Model Change Request (NOMCR) process by including operational attributes for equipment as necessary for GIC model development. This process change will be more efficient than utilizing spreadsheet templates, increasing the level of security in transferring data, reducing the likelihood of GIC data mapping errors as the network topology changes over time, and providing consistency with how other operational attributes for TSP equipment are transmitted to ERCOT for inclusion in ERCOT system models. This process change would also improve knowledge retention related to collecting data and building the GIC models.

North American Electric Reliability Corporation (NERC) Reliability Standard TPL-007-4, Transmission System Planned Performance for Geomagnetic Disturbance Events, requires ERCOT and TSPs to develop and maintain GIC system models. The Joint TSPs believe the process proposed by SCR818 will allow TSPs to more effectively prove compliance with the NERC standard by demonstrating that the GIC model maintenance activity is a continuous update and retention method seamlessly integrated into existing TSP processes, versus a once-per-five-year manual effort involving spreadsheets that is subject to potential manual entry and transmittal errors and subject matter expert attrition.

For these reasons, the Joint TSPs recommend that PRS approve the Impact Analysis for SCR818 with a recommended implementation Priority of 2023, and a Rank of 3710.

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| Revised Cover Page Language |

None

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| Proposed System Change |

None