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| NOGRR Number | [227](http://www.ercot.com/mktrules/issues/NOGRR227) | NOGRR Title | Add Phasor Measurement Recording Equipment Location for Main Power Transformer for Intermittent Renewable Resource (IRR) |
| Impact Analysis Date | May 19, 2021 |
| Estimated Cost/Budgetary Impact | None. |
| Estimated Time Requirements | No project required. This Nodal Operating Guide Revision Request (NOGRR) can take effect upon Technical Advisory Committee (TAC) approval. |
| ERCOT Staffing Impacts (across all areas) | Ongoing Requirements: No impacts to ERCOT staffing. |
| ERCOT Computer System Impacts | No impacts to ERCOT computer systems.  |
| ERCOT Business Function Impacts | No impacts to ERCOT business functions. |
| Grid Operations & Practices Impacts | ERCOT will update grid operations and practices to implement this NOGRR. |

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| Evaluation of Interim Solutions or Alternatives for a More Efficient Implementation |
| None offered. |

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| Comments |
| None. |