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NERC Lessons Learned and Alerts

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[Link: Lessons Learned \(nerc.com\)](https://www.nerc.com)

NERC Alerts

Level 3 Computational Load Alert May 4, 2025

Entity Distribution:	Transmission Planner (TP), Planning Coordinator (PC), Transmission Owner (TO), Balancing Authority (BA), Reliability Coordinator (RC), and Transmission Operator (TOP)
Purpose:	To ensure Essential Actions are taken by registered entities to address the risks posed by existing and new computational loads ¹ interacting with the bulk power system (BPS), inclusive of computational load interconnecting with collocated generation.
The responses to the NERC Alert are due back to NERC August 3, 2026. Essential Actions (cont.)	<p>Essential Action #1: TPs/PCs should develop detailed modeling requirements and collect data (size, dynamics, composition, protection, ramp rates, facility use) using PERC1 or equivalent.</p> <p>Essential Action #2: TPs/PCs should study system limits, identify instability risks, and evaluate contingencies involving computational load loss.</p> <p>Essential Action #3: PCs should revise “qualified change” definitions to include load growth, configuration changes, and repurposing of computational loads.</p> <p>Essential Action #4: TOs should establish commissioning processes, including model validation, testing (full/no-load, voltage), and coordination with affected entities.</p>

NERC Alerts

Level 3 Computational Load Alert (cont.)

May 4, 2025

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The responses to the NERC Alert are due back to NERC August 3, 2026. Essential Actions (cont.)	<p>Essential Action #5: TPs and PCs should study and implement corrective actions with TOs to ensure no non-consequential loss of firm load from normally cleared non-bus faults.</p> <p>Essential Action #6: TOs should install and utilize dynamic fault recording to capture and share computational load performance during disturbances.</p> <p>Essential Action #7: TOPs/RCs/BAs should establish communication capabilities with computational loads to improve situational awareness and issue operating instructions.</p>

Thank You

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