NERC and Regional Coordination Update

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Sr. Lead Engineer, NERC and Regional Coordination Planning Committee
April 7, 2016
PER-006-1 | Project 2007-06.2 Phase 2 of System Protection Coordination
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Phase 2 is addressing the remaining Requirements R1, R2, R5, and R6 of PRC-001-1.1(ii). See the Mapping Document for a complete explanation on how the reliability objectives of Requirements R1, R2, R5, and R6 are addressed by other standards. Specifically, this project proposes:
- Modifications to the definitions of Operational Planning Analysis (OPA) and Real-Time Assessment (RTA);
- New Reliability Standard PER-006-1, “Specific Training for Personnel” (for Generator Operators)

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<tr>
<th>Activity</th>
<th>Due Date</th>
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<tr>
<td>Comments Close</td>
<td>4/25/16</td>
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<tr>
<td>Initial Ballot</td>
<td>4/15/16 to 4/25/16</td>
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NERC Standards Under Development

<table>
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<tr>
<th>Standards</th>
<th>Project 2015-07 Internal Communications Capabilities</th>
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<tr>
<td>COM-001-3</td>
<td>Project 2015-07 Internal Communications Capabilities</td>
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FERC directed that NERC to either develop a new standard or make the following modification to the existing COM-001-2 standard:

- Address our concerns regarding ensuring the adequacy of internal communications capability whenever internal communications could directly affect the reliable operation of the Bulk-Power System.
- The Commission directs NERC to develop a modification to Reliability Standard COM-001-2 that addresses internal communications capabilities that could involve the issuance or receipt of Operating Instructions or other communications that could have an impact on reliability.
- “address the adequacy of internal telecommunications (or other internal communication systems) that may have an adverse effect on reliability, even within a single functional entity, including:
  - (1) communications between geographically separate control centers within the same functional entity; and
  - (2) communications between a control center and field personnel.
- These scenarios present a gap in reliability of the Bulk-Power System that NERC should address.”

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<th>Activity</th>
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<tr>
<td>Comments Close</td>
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<td>Additional Ballot</td>
<td>4/27/16 to 5/6/16</td>
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July 1, 2016

- CIP-002-5.1 - Cyber Security – BES Cyber System Categorization;
- CIP-005-5 - Cyber Security – Electronic Security Perimeter(s);
- CIP-003-6 - Cyber Security – Security Management Controls;
- CIP-004-6 - Cyber Security – Personnel & Training;
- CIP-006-6 - Cyber Security – Physical Security of BES Cyber Systems;
- CIP-007-6 - Cyber Security – System Security Management;
- CIP-008-5 - Cyber Security – Incident Reporting and Response Planning;
- CIP-009-6 - Cyber Security – Recovery Plans for BES Cyber Systems;
- CIP-010-2 - Cyber Security – Configuration Change Management and Vulnerability Assessments;
- CIP-011-2 - Cyber Security – Information Protection
- BAL-001-2 - Real Power Balancing Control Performance
- COM-002-4 - Operating Personnel Communications Protocols
- MOD-025-2 - Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability
NERC Standards Subject to Future Enforcement

- July 1, 2016
  - MOD-031-1 - Demand and Energy Data
  - PER-005-2 - Operations Personnel Training
  - PRC-002-2 - Disturbance Monitoring and Reporting Requirements
  - PRC-004-4(i) - Protection System Misoperation Identification and Correction;
  - PRC-019-1 - Coord of Gen Unit or Plant Capabilities, Voltage Regulating Controls, and Protection
  - PRC-019-2 - Coord of Gen Unit or Plant Capabilities, Voltage Regulating Controls, and Protection
  - PRC-024-1 - Generator Frequency and Voltage Protective Relay Settings
  - PRC-024-2 - Generator Frequency and Voltage Protective Relay Settings
NERC Standards Subject to Future Enforcement

- January 1, 2017
  - IRO-010-2 – Reliability Coordinator Data Specification and Collection (R1 and R2)
  - TOP-003-3 – Operational Reliability Data (All Requirements but R5)

- April 1, 2017
  - EOP-011-1 – Emergency Operations
  - IRO-001-4 – Reliability Coordination – Responsibilities
  - IRO-002-4 - Reliability Coordination — Monitoring and Analysis
  - IRO-008-2 – Reliability Coordinator Operational Analyses and Real-time Assessments
  - IRO-010-2 – Reliability Coordinator Data Specification and Collection (R3)
  - IRO-014-3 — Coordination Among Reliability Coordinators
  - IRO-017-1 — Outage Coordination
  - PRC-010-1 – Undervoltage Load Shedding
  - TOP-001-3 – Transmission Operations
  - TOP-002-4 – Operations Planning
  - TOP-003-3 – Operational Reliability Data (R5)
NERC Standards Subject to Future Enforcement

- April 2, 2017
  - PRC-004-5(i) - Protection System Misoperation Identification and Correction
  - PRC-010-2 – Undervoltage Load Shedding

- July 1, 2017
  - MOD-033-1 - Steady-State and Dynamic System Model Validation