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RELIABILITY CORPORATION

# SPS/RAS Operations Reporting

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- It is NERC's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition.
- This policy requires the avoidance of any conduct that violates, or that might appear to violate, the antitrust laws.
- Among other things, the antitrust laws forbid any agreement between or among competitors regarding:
  - prices,
  - availability of service,
  - product design,
  - terms of sale,
  - division of markets,
  - allocation of customers,
  - or any other activity that unreasonably restrains competition.

- Participants are reminded that this conference call is public.
- The access number was posted on the NERC website and widely distributed.
- Speakers on the call should keep in mind that the listening audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.

- Data Collection History
- SPS/RAS Template Overview
- Timeline

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# SPS/RAS Data Collection History

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- Data currently collected under NERC standards PRC-016-0.1 and PRC-004-WECC-1 (in WECC)
- Significant regional differences exist in analysis and collection of SPS/RAS Operations and Misoperations
- Tracking/trending of SPS/RAS Operations and Misoperations on ERO level is difficult

- Options for consistent reporting assessed
- Near term solution - regions align SPS Operations reporting procedures
- Consistent categories, cause codes and reporting frequencies developed from various regional procedures
- ERO-RAPA requested SPCS to develop SPS Operations template
- ERO-RAPA agreed to use template to gather SPS Operations consistently
- SPS Operations template finalized and approved
- Long term solution –NERC standard development (project 2010-05.2)

- Consistent reporting format - significant step forward for industry
- Consistent with approach for Protection System Misoperations template
- Template located at <http://www.nerc.com/pa/RAPA/PA/Pages/default.aspx>



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# SPS/RAS Operation Template Overview

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- Unique identifier
- Assigned by reporting entity
- If resubmitting an operation from a prior quarter, use the same operation id

- If applicable, enter the Regional Entity assigned SPS identifier (alphanumeric and underscores only)
  - Unique identifier
  - Assigned by Region

- NERC ID (format NCR#####)
- Primary SPS owner responsible for reporting

- SPS name as it appears in the Regional database

- Entry of SPS Category Type is Voluntary (drop-down)
  - PS (Planning Significant)
  - PL (Planning Limited)
  - ES (Extreme Significant)
  - EL (Extreme Limited)
- An SPS is classified as having a significant impact on the BES if:
  - Non-Consequential Load Loss  $\geq$  300 MW
  - Generation loss  $>$  the largest unit within the interconnection
  - Loss of synchronism between two or more portions of the system each including more than one generating plant
  - Negatively damped oscillations
- If none of these criteria are met, the SPS is classified as having a limited impact on the BES.

- MM/DD/YYYY
- HH:MM:SS (24 hour format)
- Select time zone from dropdown

- Select from Drop-down list
  - Correct Operation
  - Misoperation- Failure to Operate
  - Misoperation- Unnecessary Operation
  - Misoperation- Unintended System Response
  - Misoperation- Failure to Mitigate

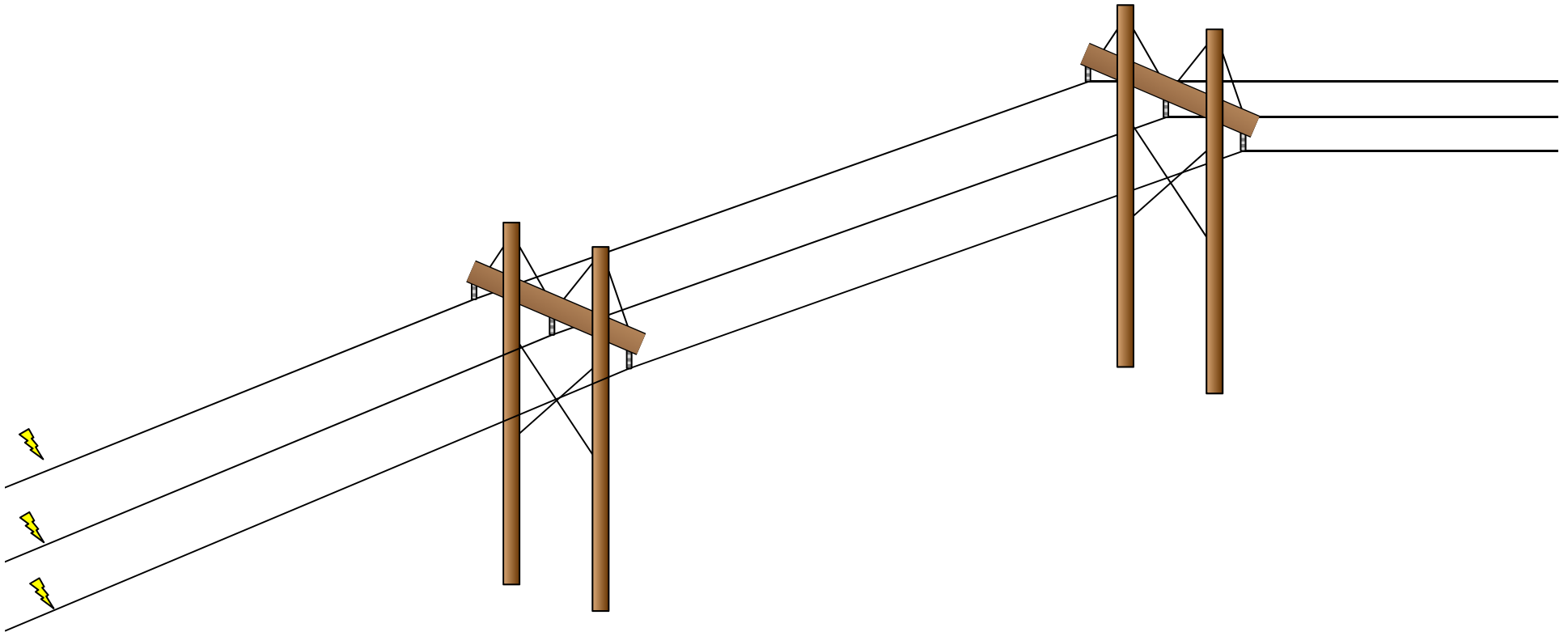


- Select from Drop-down list (16)
  - Correct Operation
  - AC System
  - As-left Personnel Error
  - Communication Failures
  - DC System
  - EMS or SCADA Failure/Errors
  - Incorrect Settings
  - Logic Errors
  - Design Errors
  - Relay Failures/Malfunctions
  - Metering Failure/Error
  - Processor/Computer Failure
  - Planning Design Error
  - Analysis - In Progress
  - Other/Explainable
  - Unknown/Unexplainable

- Identify
  - all elements removed from service
  - any generation reduction (MW)
  - any load shed that occurred (MW)
- If the operation was correct, verify that
  - system conditions were as expected
  - mitigation was sufficient
- If a misoperation, include a detailed description of root causes determined by completed corrective action plans.

- If applicable, enter NERC assigned Event Analysis Tracking ID

- If applicable, please enter (in a comma separated list with no spaces) the TADS Element identifier for each TADS Element that was outaged as a result of the SPS operation



- If the operation involved a generator forced outage, please enter the GADS ID of the generator.
- If there are multiple generators involved, please list each generator that had a forced outage in a comma separated list with no spaces.

- Select from Drop-down list
  - Correct Operation- N/A
  - Analysis - In Progress
  - Analysis - Completed
  - Corrective Action - In Progress
  - Corrective Action - Completed

- Identify the corrective actions
- If a correct operation, leave blank

- If analysis or corrective actions are not complete, estimate when either will be complete
- If a correct operation, leave blank
- MM/DD/YYYY format



- MM/DD/YYYY format

- Name of Reporter
- Phone Number
- E-mail
- Date reported (MM/DD/YYYY)

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# SPS/RAS Operation Reporting Timeline

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**SPS/RAS Data Processing Schedule**

<b>Reports Due to Regional Entities</b>	<b>Reporting Quarter</b>	<b>Data Due to NERC</b>
Dec 1, 2014	Pilot 2014Q3	Jan 1, 2015
Feb 28, 2015	2014Q4	April 15, 2015
May 31, 2015	2015Q1	July 15, 2015
Aug 31, 2015	2015Q2	Oct 15, 2015
Nov 30, 2015	2015Q3	Jan 15, 2016
Feb 29, 2016	2015Q4	April 15, 2016



# Questions and Answers