NASPI
Engineering Analysis Task Team (EATT)
Report-Out

23 Oct 2014
Houston, TX
‘Situational Awareness’ Examples

1. DVP Synchronous Condenser Issue
2. DVP Generator Synchronization
3. BPA Sustained Oscillation Analysis
4. Fault Observation and Event Analysis
PRC-002-2 Update

Disturbance Monitoring and Reporting Requirements

1. PMUs meet the Dynamic Disturbance Reporting requirements
   - Defines Elements requiring monitoring, what electrical quantities to monitor, and reporting requirements

2. Focused on data, not equipment

3. Ballot period closed last night

4. Latest results show 71% approval = quorum
High Level Goals

• Field deployment & standardization
• Institutional support
• Data Quality
  – Availability, error rate, validation process, fill-in, application requirements, latency, vocabulary
• Applications
  – ‘Operationalizing’ synchrophasor information
  – Maturity model for applications
# Vision 5-10 Years

<table>
<thead>
<tr>
<th>5 Years</th>
<th>10 Years</th>
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<tbody>
<tr>
<td>- Operating procedures</td>
<td>- Automated controls</td>
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<tr>
<td>- Network model-based applications</td>
<td>- PMU = RTU</td>
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<td>- Integration of PMU/EMS</td>
<td>- PMUs at distribution level</td>
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<tr>
<td>- Accomplishment of goals</td>
<td>- Open platform applications</td>
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<td>- Observability of SE</td>
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<td>- Breaker status</td>
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<td>- Network and data quality frameworks</td>
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Delivering Work Products

• Application Requirements for Data Quality
• Operationalizing the Data: Maturity Model
• Developing Utility Standardization for PMUs
• Utilizing PMUs for NERC Standards Compliance
• Best Practices for CIP Issues Around PMUs