eDART March 2015 Release Enhancements

eDART Users Group Meeting
02/27/2015
• Production
  – Release of enhancements scheduled for Wednesday, March 25th.

• Sandbox
  – Enhancements released by Wednesday, March 11th.
Password Security Enhancements

March 2015 Enhancements
- Enhancements to RXB Adjustment Functionality
- Unit D-Curve Acknowledgement
- Changes to BlackStart Restoration Plans
- Other March 2015 Enhancements

Future Enhancements

Question & Answer Resolution Session
Password Security Enhancements

- New password security algorithm has been implemented.
  - Changes transparent to users.

- Users are being asked to log in/connect to eDART as soon as possible.
  - Production and Sandbox environments.

- Users still on old algorithm to be revoked on March 30, 2015.
Password Security Enhancements

March 2015 Enhancements

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Future Enhancements

Question & Answer Resolution Session
• New Base Data section for impedance and Tariff related reports.
• Improved data precision by removing conversion from admittances.
  – Tickets will be moved to implemented more frequently.
• Users can now filter by unit type, station, voltage, etc.
• Users can enter a date range and search by ticket ID.
• Addition of current production values.
• New “Awaiting Build” status for changes that will take effect in the next model build.
Password Security Enhancements

March 2015 Enhancements

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Future Enhancements

Question & Answer Resolution Session
• D-Curves will now be acknowledged on a per-unit basis.
  – Option available to Acknowledge All.
  – Log of acknowledgements in the current review added.
  – Latest Completed New Default MVAR Ticket displayed per unit.
    • D-Curve Match/Mismatch status also displayed.
    • Will remain available outside review period.
  – D-Curve Report button will remain red if there are any unacknowledged D-Curves.
D-Curve Unit Acknowledgement Help

How to Acknowledge, Un-Acknowledge and Overwrite Timestamps for D-Curve Review

To Acknowledge a Unit, check "Acknowledge" box

Acknowledge
✓

To update the "Acknowledge Timestamp" to the current time, check "Acknowledge" and "Overwrite" boxes

Acknowledge Timestamp
01/01/2015 00:00
✓ ✓

To Un-Acknowledge, uncheck "Acknowledge" box. Please note that un-acknowledging a unit's D-Curve will cause that unit's row to turn yellow

Acknowledge
□

Close Window
# D-Curve Report – Acknowledgement Log

![D-Curve Report](image)

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Unit Type</th>
<th>Installed Capacity</th>
<th>Voltage Control Philosophy</th>
<th>D-Curve Metered VAR Location</th>
<th>Power System Stabilizer</th>
<th>EMS Equipment Name</th>
<th>MW Point</th>
<th>MVAR Min</th>
<th>MVAR Max</th>
<th>User ID</th>
<th>Last Update Timestamp</th>
<th>Acknowledge</th>
<th>Overwrite</th>
<th>Latest MVAR Ticket</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABCDEFGH</td>
<td>Combustion Turbine</td>
<td>0</td>
<td>Reactive Power Schedule</td>
<td>Low-side Gross</td>
<td>Yes</td>
<td>ABCDEFGH 13U EE-13</td>
<td>45</td>
<td>-42</td>
<td>76</td>
<td>human</td>
<td>02/26/2015 17:55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPECIALTN</td>
<td>Combustion Turbine</td>
<td>150</td>
<td>Reactive Power Schedule</td>
<td>Low-side Gross</td>
<td>No</td>
<td>SPECIALTN CT 1-4</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>human</td>
<td>02/26/2015 17:55</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Acknowledgement Log**

**Company:** Electric Company

**Unit Name:** ABCDEFGH

<table>
<thead>
<tr>
<th>User ID</th>
<th>Action</th>
<th>Timestamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>human</td>
<td>Acknowledge</td>
<td>02/26/2015 17:59</td>
</tr>
<tr>
<td>human</td>
<td>Unacknowledge</td>
<td>02/26/2015 17:59</td>
</tr>
</tbody>
</table>

Click to open last completed New Default MVAR Ticket.
Password Security Enhancements

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- Enhancements to RXB Adjustment Functionality
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- Changes to BlackStart Restoration Plans
- Other March 2015 Enhancements

Miscellaneous

Future Enhancements

Question & Answer Resolution Session
• Transmission Owners will now be able to view the approved restoration plans of other TOs.
  – Users can select which TOs plan they would like to view.
  – New button, Restoration Plans Notif. Request, added to the Black Start Main Menu for transmission users.
Select ‘View’ on Restoration Plan Notification Request form to indicate which TO’s plan should be displayed.

Plans for selected TOs available on the Approved Restoration Plans report.
• ‘Other’ and ‘My Company’ radio buttons added to toggle between viewing user’s plan and plans for other TOs.
  – ‘My Company’ selected by default.
• SOS-T notified of approved restoration plans daily.
• Changes to Restoration Plan Review Logic:
  – Removed requirement to select a restoration plan and impacted companies.
  – Removed dependence on cranking path for restoration plan review needed.
  – For cut-in tickets, Restoration Plan Review Needed is set to “Yes” regardless of ticket duration and user entered value.
    • If cut-in flag is unchecked, Restoration Plan Review Needed changed to “No”.
  – If Restoration Plan Review Needed = “Yes”, notification emails to be sent every day beginning 30 days before the estimated start until plan is uploaded.
Password Security Enhancements

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Future Enhancements

Question & Answer Resolution Session
Other March 2015 Enhancements

- Fixed ratings.CSV download errors due to file size.
- Identified issues during Flow CB rollout.
  - On-hold while we work with our EMS vendor.
- Warning indicator for overlapping dates on equipment when submitting transmission tickets.
Other March 2015 Enhancements

• Updates to Unit Types and Generator Outage Cause Types.
  – Email notifications will be sent.
  – Updates currently available in Sandbox: Generation Cause List download.

• Transmission NERC-TADS Report Changes
  – Reporting now required for Automatic Outages (Form 4.X) to 0-99 kV BES and 100-199 kV BES equipment.
  – New Outage Initiation Code: “Protection System-Initiated”
  – New Operational Cause Code: “Human Error”
Other March 2015 Enhancements

• “Blackstart Units Only” checkbox added to D-Curve Report filter.
• Added user ability to search by Ticket ID only, regardless of other filters in the Owners Report.
• Emergency Procedures Messages removed from SSR Reports
  – Active EP messages are currently displayed in completed reports.
  – Button to log into EP as guest also removed.
  – Part of Emergency Procedures tool refresh.
Other March 2015 Enhancements

- PJM removed the requirement to submit Load Management data in eDART and to support this the Load Mgmt. form will be removed from the PJM Status Report main menu.
 Password Security Enhancements
 March 2015 Enhancements
   Enhancements to RXB Adjustment Functionality
   Unit D-Curve Acknowledgement
   Changes to BlackStart Restoration Plans
   Other March 2015 Enhancements
 Future Enhancements
 Question & Answer Resolution Session
Future Enhancements

- Reorder One Line Diagrams list in alphabetical order.
- Legal sign-off for one-line diagrams.
- Additional BlackStart information to Transmission Owners Report.
- Network Model submit on-time functionality.
- Rejection of company submitted tickets based on new TERM Ratings criteria.
• Instantaneous Reserve Check (IRC) Enhancements:
  – Reserve data pre-populated from PJM Markets and EMS systems.
  – User option to acknowledge reserve values: all units or per unit.
  – User entry fields to submit changes to reserve values.
  – Display of current reserve data when IRC is not in progress.
  – Design still in progress.
# Future Enhancements - IRC

**IRC Company Data**

<table>
<thead>
<tr>
<th></th>
<th>MidAtl</th>
<th>CE</th>
<th>AP</th>
<th>DUQ</th>
<th>AEP</th>
<th>DAY</th>
<th>DOM</th>
<th>FE</th>
<th>DEOK</th>
<th>EKPC</th>
<th>RTO Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Synchronized Reserve*</td>
<td>390</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NSR Hydro</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NSR Other</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Quick Start - Non synchronized Reserve</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Primary Reserve</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<tr>
<td>Secondary Reserve</td>
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<td>0</td>
<td>0</td>
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<tr>
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<td>0</td>
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<td>0</td>
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<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>Beyond Secondary</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Notes to PJM Operator (500 chr. Max)**

*Regulation assignments should not be included in the Synchronized Reserves unless the reserve is beyond the regulation bandwidth.*

Submitted By: [Blank]

**Unit Data**

If you do not wish to acknowledge any unit, please uncheck the acknowledge check box prior to clicking 'Recalc/Submit'

<table>
<thead>
<tr>
<th>2</th>
<th>1</th>
<th>Real-Time</th>
<th>Synchronized Reserves*/ New Value</th>
<th>Quick Start NSR/ New Value</th>
<th>Secondary/ New Value</th>
<th>Beyond Secondary/ New Value</th>
<th>Acknowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
• Tools Refresh of Emergency Procedures:
  – Users can request EP accounts or use the Guest login.
  – Command Line Interface replacing browserless client.
  – XML file format will change from the current version.
  – Parallel Production environment to be available soon.
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Future Enhancements

Question & Answer Resolution Session
Questions

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