



Description of Enhancements

eDART Release October 2005

- All Users
 - Tariff Facilities
- Transmission Users
 - Miscellaneous Enhancements
- Generation Users
 - Gen Checkout Enhancements
 - Miscellaneous Enhancements
- Implementation

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- New functionality added to eDART to update Tariff Facility translations
- Files will still be available at <http://www.pjm.com/services/transm-facilities.jsp>
 - New hyperlink to be added to eDART drop down list in eSuite menu to point to above address
- Files will also be available for download from eDART in XML format
 - Accessible for all user types

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- *Note: Transmission Owners please review your tariff file and report any necessary updates via your Data Management Working Group representative or Ken Thomas (thomak2 @pjm.com)*
- Fixed column header misspelling for Transmission Ack. Required Report
- Alphabetized Equipment Name drop down list for TERM Review/Revise Report Filter

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- Tolerance levels should be based on percentage values
- Ambient Air tolerances need to be expanded so that less tickets are required to check out
- Underbidding of capacity should not be allowed
- Gen Checkout not able to handle ramping up/down of nuclear units
- Faster data refresh time needed
- Filter needing to be refreshed multiple times if not a Mid-Atlantic company when Today and Tomorrow Report initially opened
- Need to understand unit mapping between Gen Checkout and Gen Tickets

- A unit with smaller ICAPs should not have the same Difference limit as bigger units
 - Ex.
 - Given: Unit A = 10MW, Unit B = 500MW, Acknowledgement Tolerance = 20
 - Result: Unit A would never need to submit and outage while Unit B would be in violation for 20MW of Ambient Air

- Difference and Tolerance values changed to percentage
 - Ex.
 - Given: Unit A = 10MW, Unit B = 500MW, Acknowledgement Tolerance = 20%
 - Result: Unit A would need to submit a ticket for Ambient Air greater than 2MW and Unit B for greater than 100MW

- **New Difference Calculation:**

- **Economic:**

$$Difference = \frac{AdjustedCapacity - EconomicMax}{ICAP} \times 100\%$$

- **Emergency:**

$$Difference = \frac{AdjustedCapacity - EmergencyMax}{ICAP} \times 100\%$$



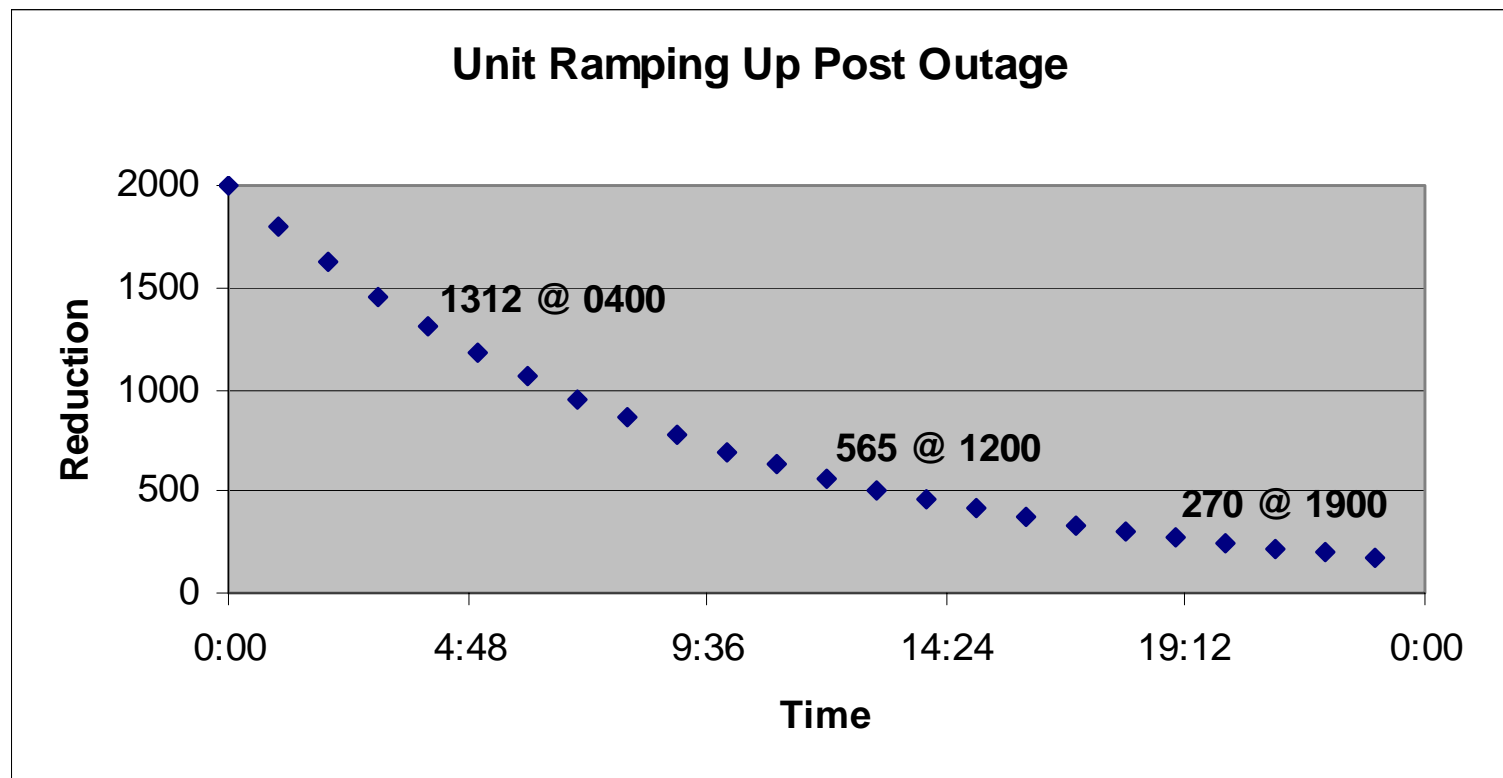
- The tolerance levels for Ambient Air too restrictive resulting in more tickets needing to be submitted
- The tolerance too much since members are required to bid their ICAP value less reduction at least as Emergency
 - Every MW of ICAP not bid must be accounted for via a Gen Ticket since receiving capacity credit

- Ambient Air and Underbidding Tolerance split
- Tolerance values at top of report, now only for Ambient Air, have been widened
- Underbidding tolerance to initially be set to 10% but will soon be adjusted to 1% for all unit types
 - This tolerance not displayed on report
 - Note to be sent out before tolerance lowered
 - All Ambient Air situations causing unit to be unable to meet ICAP, forcing an underbid, still require tickets

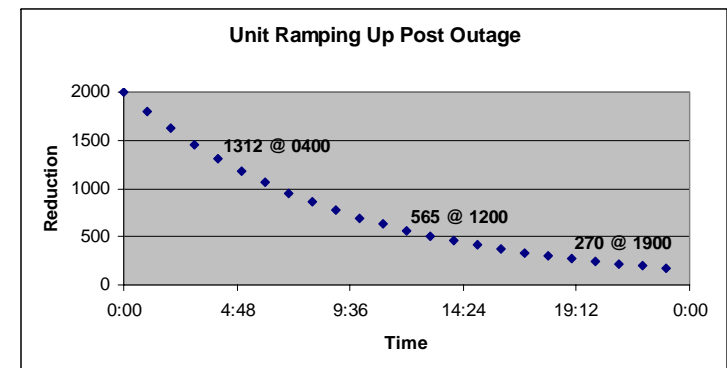
- Initial release ambient air tolerance settings per unit type:
 - Combined Cycle, Diesel/CT, NUG, Steam/Fossil
 - Warning = 15% & Acknowledgement = 20%
 - Diesel/CT (Small Units < 21MW)
 - Warning = 20% & Acknowledgement = 50%
 - Hydro
 - Warning = 99% & Acknowledgement = 100%
 - Nuclear
 - Warning = 5% & Acknowledgement = 10%

- As nuclear units ramp up from outage or coast down to outage level the amount the unit produces changes as a function of time resulting in the need to adjust the gen tickets accordingly
- Gen Checkout not using each ramp change revision in gen tickets; instead using only last submitted

- Gen Checkout will now use each ramp change revision as a function of effective date



- Example:
 - Initial Gen Ticket Reduction 2000MW
 - Revision 1: MW Reduction 1312, Effective Date xx/xx/xx 0400
 - Revision 1: MW Reduction 565, Effective Date xx/xx/xx 1200
 - Revision 1: MW Reduction 270, Effective Date xx/xx/xx 1900



- Issue: Refresh rate of 15 minutes too long when trying to perform checkout expeditiously as eMarket changes not reflected for up to 15 minutes in report
- Resolution: Refresh rate to be changed to 10 minutes
 - Note: PJM will monitor the results to eDART resulting from this change and if shown to not cause problems will look to decrease time further

- Issue: When user has no units in the Mid-Atlantic Region the screen doesn't initially load correctly resulting in the user needing to click "Apply Filter" twice before data displays
- Resolution: Fixed

Region:	Zone:	Type:	Period:
Western ▾		Diesel/CT Steam/Fossil	Mid - 04:00 Day - 12:00 Eve - 19:00

- Issue: Certain units that are modeled in the Gen Ticket application are rolled together in Gen Checkout to reflect how the units are bid in eMarket but it is not always apparent how these groupings are made
- Resolution: New report available from the Gen Checkout sub-menu called “Unit Translation Report” containing this information

- If there are any further questions, please feel free to get in touch with either:
 - Augustine Caven – cavena@pjm.com
 - Elliot Hoffman – hoffmael@pjm.com
 - Ron DeLoach – deloar@pjm.com



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- Ignore switch dates when added to forecasted planning generator tickets
 - Note: Forecasted planning tickets are scheduled for greater than 30 days in the future
- Fixed date filter bug for Owners Report
- Alphabetized unit name drop down list for Outage History Report

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- eDART unavailable October 20th from 1800 to 0600 during enhancement implementation
- Functionality not immediately available after release
 - Tariff Facilities files to be posted on PJM.COM by 1500 on October 21st
 - Tariff Facilities hyperlink added to eSuite by 1500 on October 21st