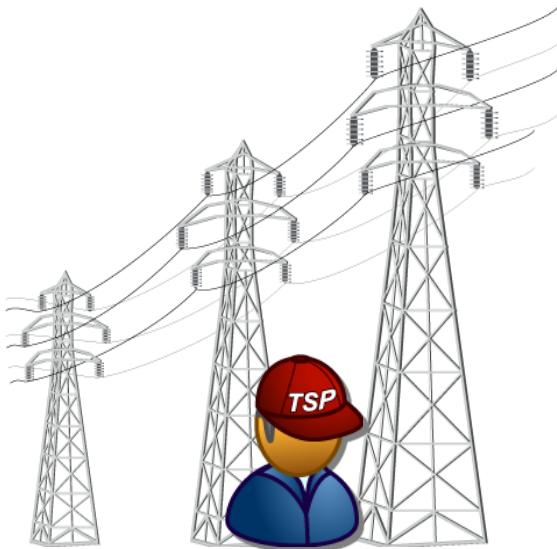
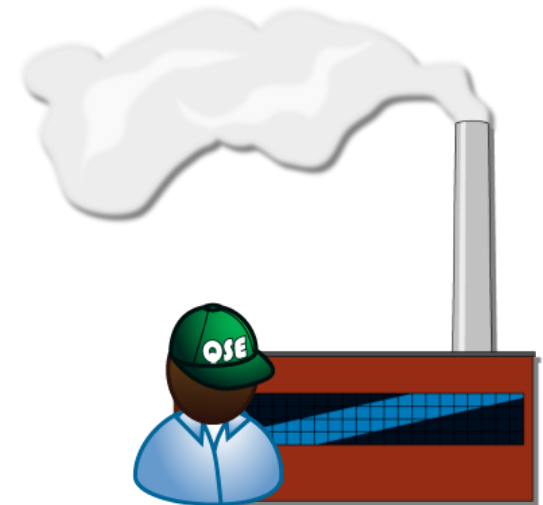


The Withdrawal of Outage AEP00058811 AJO to Rio Hondo



Shane Thomas



Initial Acceptance

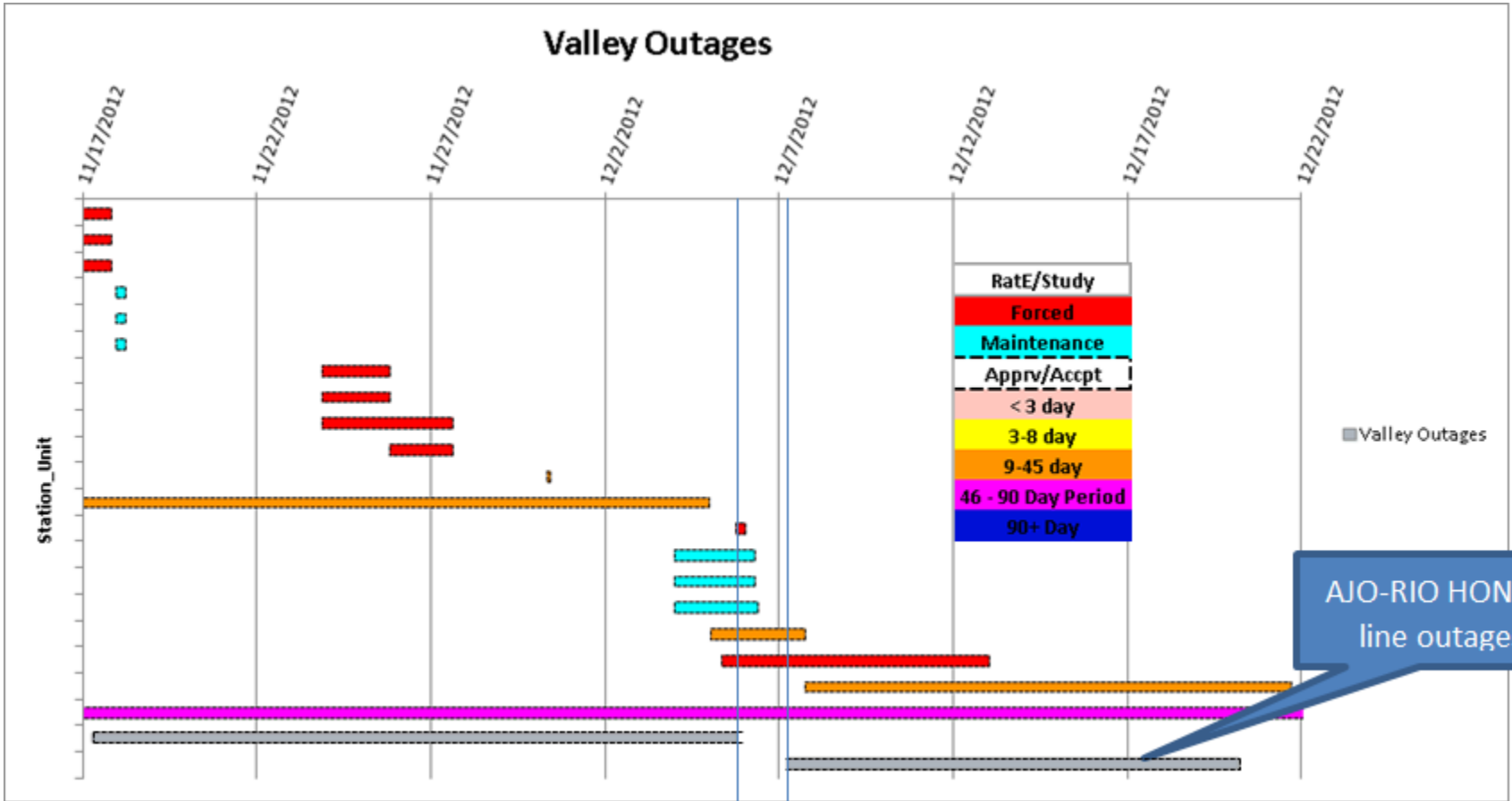
- Outage submitted September 6th into ERCOT Outage Coordination mid-term process
 - The purpose was for the reconductoring of the line
 - Studied at a load of 54000MW
 - Adequate resources shown in study
 - Study shows N-1 stability
- If the outage isn't taken at this time, conditions will only get worse
- Approved October 6th
- The outage began November 17 at 07:01

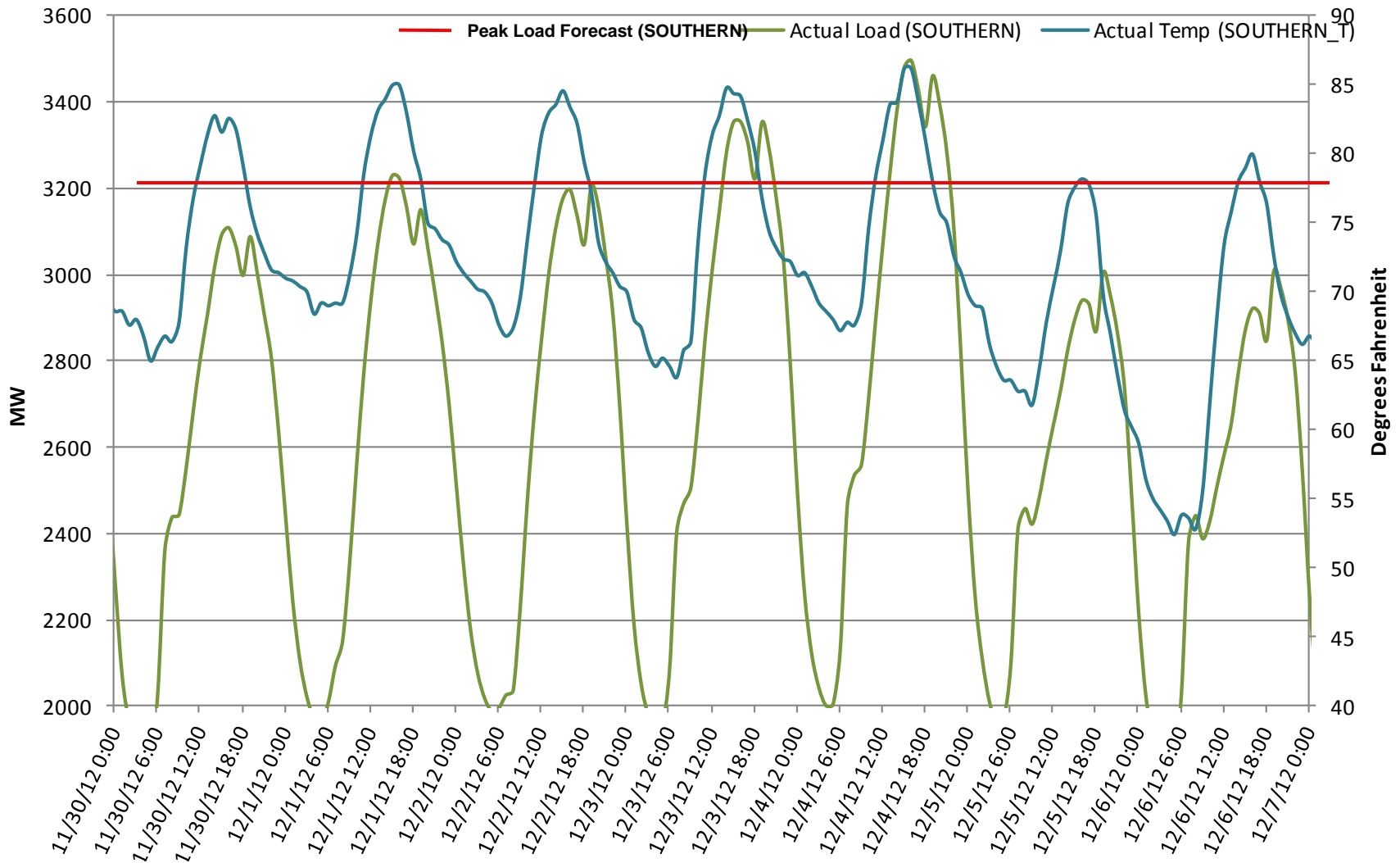


Forced/Maintenance Outages

- 11/17 – after the outage was implemented loss of significant resources in area impacted by the outage occur
 - Units return the next day
 - No issues arise
- 11/23 – loss of significant resources in area impacted by the outage occur
 - Units return 11/27
 - No issues arise
- 12/3 – loss of significant resources in area impacted by the outage occur
 - No initial threat to reliability but load forecast steadily increasing
 - Issues ensue the following day as temperatures rise to unseasonably hi levels ~90°F

Valley Outages





Reliability Issues

- 12/4 at 12:03 – ERCOT Real-Time takes measures to maintain reliability without the withdrawal of the Ajo – Rio Hondo line
- 12/4 at 12:27 – ERCOT Real-Time takes further measures for reliability
- Load continues to rise it appears that a withdrawal is only solution
- 12/4 at 14:42 – Transmission watch issued for the Valley area
- 12/4 at 14:50 – ERCOT Real-Time instructs AEP to restore outage AEP00058811
 - AEP gives 12-18hr estimated restoration time
 - Would allow line to be in service before the next peak load
 - At this time the outage is still visible in the MIS
 - “Approved and Accepted Transmission Outages”
- 12/4 at 14:50 – ERCOT Real-Time takes further measures for reliability
- 12/4 at 22:16 - Transmission watch issued for the Valley area lifted

**Real-Time Reliability measure details are available through ercot.com



Withdrawal

- 12/5 at 12:24 – Outage AEP00058811 AJO to Rio Hondo status changed to withdrawn.
 - At this time the outage is no longer visible in the “Approved and Accepted Transmission Outages” report but it still visible in the MIS
 - Now in the “Withdrawal of Approved/Accepted Transmission Outages” report
- 12/5 at 18:49 – the AJO to Rio Hondo line is reenergized
 - Line energized still in dollies
 - Actual restoration time 26hrs

New Outage

- 12/5 at 18:57 – Outage AEP00071738 submitted for the continuation of the reconductoring of the AJO-Rio Hondo line
 - In addition to reconductoring, AEP is doing prep work to do the remaining line work hot
- Majority of critical generation restored
- 12/6 at 08:28 – ERCOT approves outage
 - At this time the new outage is visible in the MIS
 - “Approved and Accepted Transmission Outages”
 - The original withdrawn outage is still visible in the “Withdrawal of Approved/Accepted Transmission Outages” report
- 12/7 at 05:34 – Outage begins effectively continuing outage AEP00058811



Reports on MIS

The screenshot displays the ERCOT Market Information System (MIS) interface. At the top left is the ERCOT logo and the text "ERCOT.com". To the right are links for "Contact Us", "Help", and "Protocol View". Below this is a search bar with a "Search >" button. A main navigation bar contains "Markets", "Grid", "Reports", "Applications", "Groups and Rules", "Services", and "Notices". Under "Grid", there are sub-links for "Transmission", "Generation", "Forecasts", and "Long-Term Planning". The "Transmission" link is highlighted with a red box. Below the navigation bar, there are four report category panels, each with a "S" icon and a minus sign:

- Voltage and Dynamic Ratings**:
 - Title
 - Dynamic Ratings Submission Exceptions
 - Forecasted Temperature Adjusted Dynamic Ratings
 - Monthly Average Dynamic Ratings Report
 - Transmission Elements Recommended for Dynamic Ratings
 - Voltage Profiles
- Transmission Outages**:
 - Title
 - Advanced Transmission Outage Schedule Statistics
 - Approved and Accepted Transmission Outages
 - Planned vs. Actual Transmission Outage Annual Statistics
 - Planned vs. Actual Transmission Outage Monthly Statistics
 - Proposed Transmission Outages
 - Rejected Transmission Outages
 - Withdrawal of Approved/Accepted Transmission Outages
- Generic Transmission Limits**:
 - Title
 - Generic Transmission Limits
 - Generic Transmission Limits
 - Market Comments
 - Generic Transmission Limits
- Real-Time Operations**:
 - Title
 - Assessment of Chronic Congestion
 - ICCP Link Availability Statistics Report
 - LMP/SCED Differences

Red arrows point from the "Transmission" link in the navigation bar to the "Approved and Accepted Transmission Outages" and "Withdrawal of Approved/Accepted Transmission Outages" links in the "Transmission Outages" panel.



Info on ERCOT.com

The screenshot displays the ERCOT.com website interface. At the top left is the ERCOT logo. To the right is a search bar with a 'Search >' button. Below the logo and search bar is a navigation menu with links for 'News', 'Careers', 'Feeds', 'FAQ', and 'Contact Us'. A secondary navigation bar contains 'About ERCOT', 'Services', 'Committees and Groups', 'Market Rules', 'Market Information', and 'Grid Information'. The 'Services' link is highlighted with a red box. Below this is a breadcrumb trail: 'Home > Services > Market Participant Communications > Market Notices and Bulletins'. On the left side, there is a vertical menu with several items: 'Client Services', 'Market Participant Communications', 'ERCOT RSS Feeds', 'Market Notices and Bulletins', 'Retail Market Call', 'System Change and Outage Notices', 'Programs', 'Projects', 'Registration and Qualification', 'Service Level Agreements', 'Training', and 'Market Data Transparency'. The 'Market Notices and Bulletins' item is highlighted with a red box, and a red arrow points from the 'Services' menu to it. The main content area is titled 'MARKET NOTICES AND BULLETINS' and contains the following text: 'ERCOT notifies market participants about changes to market processes, operating procedures and ERCOT systems.' Below this is a section titled 'In This Section' with four sub-sections: 'Market Notice Archive' (View archive of market notices sent to all self-serve email distribution lists with prefix name of "Notices".), 'Market Operations Bulletins' (View notices about ERCOT processes, procedures and protocols affecting market transactions.), 'Operations Messages' (Find important messages from the ERCOT Control Room on operational information, ancillary services, curtailments, violations and more.), and 'Power Operations Bulletins' (Stay current with changes to operating procedures.). The 'Operations Messages' link is highlighted with a red box. At the bottom of the page, there is a footer with the copyright notice '© 2005 Electric Reliability Council of Texas, Inc. All rights reserved.' and a row of links: 'Feedback', 'Site Map', 'Glossary', 'Terms of Use', and 'Privacy'. The ERCOT logo is also present at the bottom center of the page.

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System Change and Outage Notices

Programs

Projects

Registration and Qualification

Service Level Agreements

Training

Market Data Transparency

MARKET NOTICES AND BULLETINS

ERCOT notifies market participants about changes to market processes, operating procedures and ERCOT systems.

In This Section

Market Notice Archive
View archive of market notices sent to all self-serve email distribution lists with prefix name of "Notices".

Market Operations Bulletins
View notices about ERCOT processes, procedures and protocols affecting market transactions.

Operations Messages
Find important messages from the ERCOT Control Room on operational information, ancillary services, curtailments, violations and more.

Power Operations Bulletins
Stay current with changes to operating procedures.

Public Notices
Find important messages from ERCOT on Resettlement, Price Corrections, Emergency Notifications, and OCN.

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Questions?

