

Firm and Non Firm Transmission in BPAT OASIS

How it works today

8/29/2012

Customer PCM Meeting

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Note: No customer production transactional data is used in the screenshots.



BPA ATCID explains how the Firm and Non Firm is calculated for the different time Horizons for MOD 30 Flowgates and MOD 29 paths

In a very small nut shell ATC/AFC is:

- Firm is TTC minus ETC
- Non Firm in the Pre-schedule Horizon is unsold Firm and Counter Flow
- Non Firm in the Real time Horizon is unscheduled Firm, Non Firm Reservation not yet scheduled and Counter Flow
- MOD 30 includes Adjacent impacts where MOD 29 does not

BPA posts Firm and Non Firm availability under the Sys Data tab in BPAT OASIS

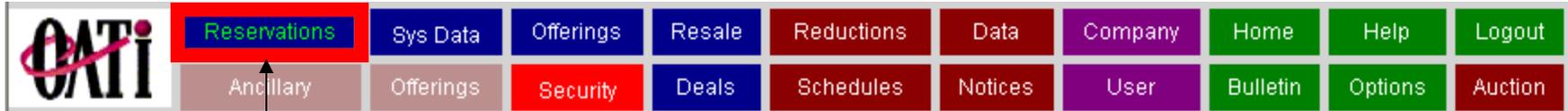
- For Firm - Confirmed Firm availability is posted
- For Non Firm - The lowest Pending Non Firm(1-NS) availability is posted

BPA systems calculates one Firm Bucket and 6 Non Firm Buckets

- Non Firm Buckets are the 6 of the 7 different NERC curtailment Priorities (*BPA does not have a NERC Priority 0*)
 - RATC6 – Non Firm NT (Monthly, Weekly, Daily and Hourly)
 - RATC5 – Non Firm Monthly PTP
 - RATC4 – Non Firm Weekly PTP
 - RATC3 – Non Firm Daily PTP
 - RATC2 – Non Firm Hourly PTP
 - RATC1 – Non Firm Secondary PTP

The AFC/ATC Reports will provide the best data on availability for NERC Priorities 6-2 and pending Short Term Firm

Locating BPAT ATC/AFC Reports

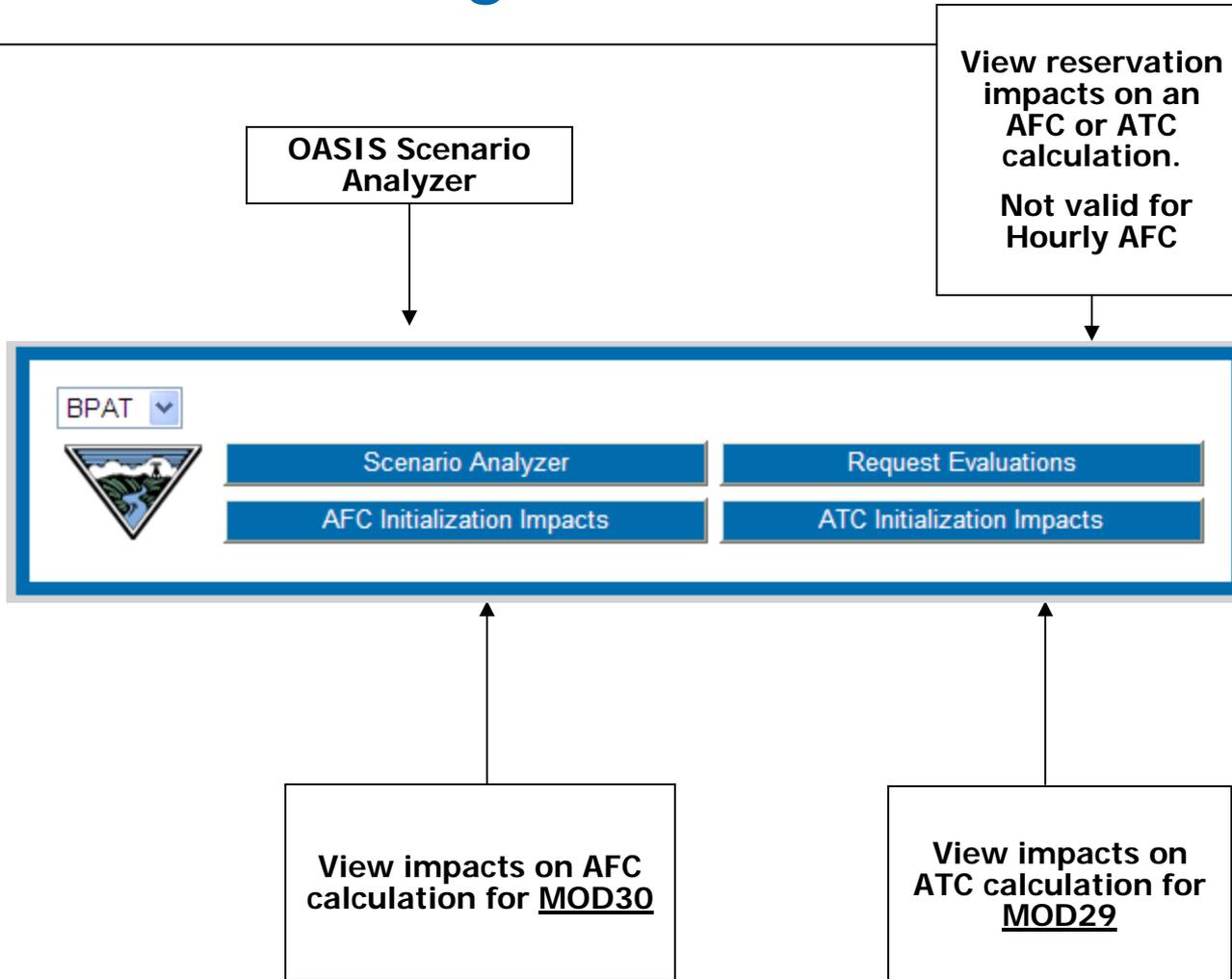


1. Click "Reservations" button.

The screenshot shows the OATI Power Administration interface with various filters and buttons. The 'AFC/Flowgate Reports' checkbox is highlighted with a red box. Other filters include 'Cust ALL', 'Incr ALL', 'Path', 'TP WestTra', 'Class ALL', 'Status ALL', 'Seller ALL', 'Type ALL', and 'Time Queued'. Buttons include 'New TSR', 'More Filtering', 'User Range', 'Columns', and 'Hourly Summary'.

2. Click "AFC/Flowgate Reports" checkbox.

Understanding BPAT ATC/AFC Reports



ATC Initialization Reports

ATC Initialization Summary

Provider **BPAT** Init. Date
 Path **AC_N>S** * Horizon **Hourly Real Time**

(Time: 2012-08-26 08:00:00 PD TO 2012-08-26 10:00 PD)

**Click on
Provider
Summary**

Init. Date	Horizon	Provider	Segment	Reports
2012-08-26 08:00:19 PD	Hourly Real Time	BPAT	AC_N>S	Summary 2012-08-26 2012-08-26
2012-08-26 08:01:36 PD	Hourly Real Time	BPAT	AC_N>S	Summary
2012-08-26 08:03:16 PD	Hourly Real Time	BPAT	AC_N>S	Summary
2012-08-26 08:04:23 PD	Hourly Real Time	BPAT	AC_N>S	Summary
2012-08-26 08:05:25 PD	Hourly Real Time	BPAT	AC_N>S	Summary
2012-08-26 08:06:25 PD	Hourly Real Time	BPAT	AC_N>S	Summary
2012-08-26 08:07:26 PD	Hourly Real Time	BPAT	AC_N>S	Summary 2012-08-26
2012-08-26 08:08:25 PD	Hourly Real Time	BPAT	AC_N>S	Summary
2012-08-26 08:10:24 PD	Hourly Real Time	BPAT	AC_N>S	Summary

ATC Initialization Reports

(the more useful columns to the customer)

Initialization Impact Details Actuals

Init. Id	Init. Date	Horizon														
35022370	2012-08-26 09:42:03 PD	Hourly Real Time														
Start	Stop	TTC	Committed SATC	Committed RATC6	Committed RATC5	Committed RATC4	Committed RATC3	Committed RATC2	Committed RATC1	Pending SATC	Pending RATC6	Pending RATC5	Pending RATC4	Pending RATC3	Pending RATC2	Pending RATC1
2012-08-26.09	2012-08-26.10	2725	-100	2054	2054	2054	2054	1946	1946	-100	2054	2054	2054	2054	1946	1946
2012-08-26.10	2012-08-26.11	2725	-100	2060	2060	2060	2060	1952	1952	-100	2060	2060	2060	2060	1952	1952
2012-08-26.11	2012-08-26.12	2725	-100	2056	2056	2056	2056	1948	1948	-100	2056	2056	2056	2056	1948	1948
2012-08-26.12	2012-08-26.13	2725	-100	2052	2052	2052	2052	1944	1944	-100	2052	2052	2052	2052	1944	1944
2012-08-26.13	2012-08-26.14	2725	-100	2048	2048	2048	2048	1940	1940	-100	2048	2048	2048	2048	1940	1940
2012-08-26.14	2012-08-26.15	2725	-100	2044	2044	2044	2044	1936	1936	-100	2044	2044	2044	2044	1936	1936
2012-08-26.15	2012-08-26.16	2725	-100	2040	2040	2040	2040	1932	1932	-100	2040	2040	2040	2040	1932	1932
2012-08-26.16	2012-08-26.17	2725	-100	2132	2132	2132	2132	2024	2024	-100	2132	2132	2132	2132	2024	2024
2012-08-26.17	2012-08-26.18	2725	-100	2128	2128	2128	2128	2020	2020	-100	2128	2128	2128	2128	2020	2020
2012-08-26.18	2012-08-26.19	2725	-100	2124	2124	2124	2124	2016	2016	-100	2124	2124	2124	2124	2016	2016
2012-08-26.19	2012-08-26.20	2725	-100	2120	2120	2120	2120	2012	2012	-100	2120	2120	2120	2120	2012	2012
2012-08-26.20	2012-08-26.21	2725	-100	2727	2727	2727	2727	2727	2727	-100	2727	2727	2727	2727	2727	2727
2012-08-26.21	2012-08-26.22	2725	-100	2723	2723	2723	2723	2723	2723	-100	2723	2723	2723	2723	2723	2723
2012-08-26.22	2012-08-26.23	2725	-100	2719	2719	2719	2719	2719	2719	-100	2719	2719	2719	2719	2719	2719
2012-08-26.23	8/27/2012	2725	-100	2715	2715	2715	2715	2715	2715	-100	2715	2715	2715	2715	2715	2715

Example of How the Buckets Work Today

Starting availability per ATC Report

- A TSR is first evaluated against the pending bucket for the NERC Priority
- When a TSR is submitted the corresponding pending bucket is impacted until the request is Confirmed. Once the TSR is Confirmed, the Committed bucket will also be impacted.

Committed	Pending												
SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Customer A submits a request for 100MW Firm (7-F) (TSR #777777) in the Pre-schedule Horizon

The pending RSATC and RATC6-1 will be impacted while the TSR is in a pending state

Committed	Pending												
SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
2054	2054	2054	2054	2054	2054	2054	1954	1954	1954	1954	1954	1954	1954
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once TSR 777777 is Confirmed, the Committed bucket SATC and RATC6-1 will be impacted

Committed	Pending												
SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Customer B submits a request for 10MW Non Firm NT (6-NN) (TSR #666666)

The pending RATC6-1 will be impacted while the TSR is in a pending state

Committed	Pending	Pending	Pending	Pending	Pending	Pending							
SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1954	1954	1954	1954	1954	1954	1954	1944	1944	1944	1944	1944	1944
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once TSR 666666 is Confirmed, the Committed bucket RATC6-1 will be impacted

Committed	Pending	Pending	Pending	Pending	Pending	Pending							
SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	SATC	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1944	1944	1944	1944	1944	1944	1954	1944	1944	1944	1944	1944	1944
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Customer C submits a request for 40MW of Monthly Non Firm PTP (5-NM) (TSR #555555)

The Pending RATC5-1 will be impacted while the TSR is in a pending state

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1954	1954	1954	1954	1954	1954	1904	1904	1904	1904	1904
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once 555555 is Confirmed, the Committed RATC5-1 will be impacted

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1904	1904	1904	1904	1954	1904	1904	1904	1904	1904
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Customer D submits a request for 100MW of Weekly Non Firm PTP (4-NW) (TSR #444444)

The Pending RATC4-1 will be impacted while the TSR is in a pending state

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1904	1904	1904	1904	1954	1904	1804	1804	1804	1804
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once 444444 is Confirmed, the Committed RATC4-1 will be impacted

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1804	1804	1804	1804	1954	1904	1804	1804	1804	1804
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Customer E submits a request for 30 MW of Daily Non Firm PTP (3-ND) (TSR #333333)

The Pending RATC3-1 will be impacted while the TSR is in a pending state

Committed RATC6	Committed RATC5	Committed RATC4	Committed RATC3	Committed RATC2	Committed RATC1	Pending RATC6	Pending RATC5	Pending RATC4	Pending RATC3	Pending RATC2	Pending RATC1
1954	1904	1804	1804	1804	1804	1954	1904	1804	1774	1774	1774
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once 333333 is Confirmed, the Committed RATC3-1 will be impacted

Committed RATC6	Committed RATC5	Committed RATC4	Committed RATC3	Committed RATC2	Committed RATC1	Pending RATC6	Pending RATC5	Pending RATC4	Pending RATC3	Pending RATC2	Pending RATC1
1954	1904	1804	1774	1774	1774	1954	1904	1804	1774	1774	1774
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

I think you have the basic idea!

Any Questions?

Now I am going to change it up

Customer F submits a request for 1774 MW of Hourly Secondary Non Firm PTP (1-NS) (TSR #111111)

The Pending RATC1 will be impacted while the TSR is in a pending state

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1804	1774	1774	1774	1954	1904	1804	1774	1774	0
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once 111111 is Confirmed, the Committed RATC1 will be impacted

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1804	1774	1774	0	1954	1904	1804	1774	1774	0
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Customer A submits a request for 200 MW of Hourly Non Firm PTP (2-NH) (TSR #222222)

The Pending RATC2 and 1 will be impacted while the TSR is in a pending state

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1804	1774	1774	0	1954	1904	1804	1774	1574	-200
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Once 222222 is Confirmed, the Committed RATC2 and 1 will be impacted

Committed						Pending					
RATC6	RATC5	RATC4	RATC3	RATC2	RATC1	RATC6	RATC5	RATC4	RATC3	RATC2	RATC1
1954	1904	1804	1774	1574	-200	1954	1904	1804	1774	1574	-200
2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060	2060

Currently, the system would not pre-empt the 1-NS Reservation. For the MOD 29 paths, if Schedules exceed the TTC, Real time may initiate Next Hour Congestion management. For MOD 30, if Flow exceeds the SOL, BPA Dispatch may initiate ICRS curtailments.

What happens when PCM is Implemented?

Can or Will TSR 111111 be a Defender?

- NAESB has a motion that states "*Redirect on a Non-Firm basis shall be subject to preemption without ROFR as required to meet the needs of any challenging request. Preemption of Redirect on a Non-Firm basis shall be treated in the same manner as a customer initiated RELINQUISH and will restore scheduling rights and capacity available to redirect on the parent Firm reservation.*"

What happens if a Customer submits a Weekly Non Firm PTP for 1804? Will AREF 333333 be a Defender?

What happens if a Customer submits a Monthly Non Firm PTP for 1994?