BONNEVILLE POWER ADMINISTRATION

Short-Term ATC/AFC Analysis User Guide

Version 4

2/19/2025

This instruction document provides information on ATC/AFC analysis tools and reports that are available to Customers. This document contains Open Access Technology International System (OATI) screenshots that are proprietary and are not to be used outside the context of this document. Do not distribute without specific authorization from OATI.

For additional questions or assistance, submit questions to tblresdesk@bpa.gov.

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A. OASIS Scenario Analyzer

The Scenario Analyzer (SA) evaluates a potential Short-Term (ST) ORIGINAL or REDIRECT TSR (potential TSR) against the ATC/AFC OASIS dynamic calculations using "Outage Informed" Power Transfer Distribution Factors (PTDFs) like an
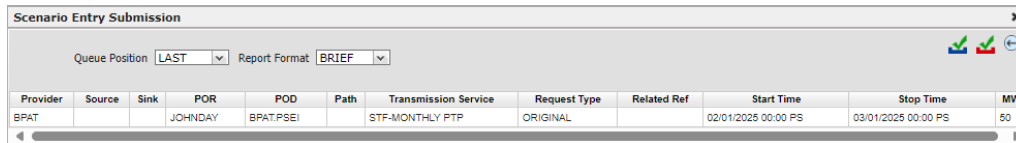
actual ST TSR. Note: The SA should only be used for evaluating a potential TSR that is less than 365 days and is within the 0- 13 months ST Horizon (ST Horizon).

New TSR Entry SA

1. Access OASIS>Transactions>Reservation Summary.

2. Enter an Original or Redirect TSR per the PTP/NT TSR User Guide. <u>Do not submit the request</u>.

3. Click the Scenario Analyzer icon to open the Scenario Entry Submission screen.

Provider	Source	Sink	POR	POD	Path	Transmission Service	Request Type	Related Ref	Start Time	Stop Time	MW
BPAT			JOHNDAY	BPAT.PSEI		STF-MONTHLY PTP	ORIGINAL		02/01/2025 00:00 PS	03/01/2025 00:00 PS	50

Scenario Entry Submission — Queue Position LAST, Report Format BRIEF

4. Select the following:

    a. Queue Position:

        i. LAST (default) – evaluates the potential TSR as last in queue.

        ii. FIRST – evaluates the potential TSR as first in queue.

    b. Report Format:

        i. BRIEF (default) - displays evaluation for only the 1:1 and/or flow-based paths (paths) that fail due to negative ST ATC/AFC.

        ii. FULL - displays evaluation for all paths.

5. Click the Check AFC and/or the Check ATC icons for Pass/Fail evaluation results and note the SA##### reference code provided for report purposes.

   a. Pass: There is sufficient ATC or AFC to grant the request

    **SA11580
    ATC Pass**

    b. Fail: There is insufficient ATC or AFC for the paths/duration listed.
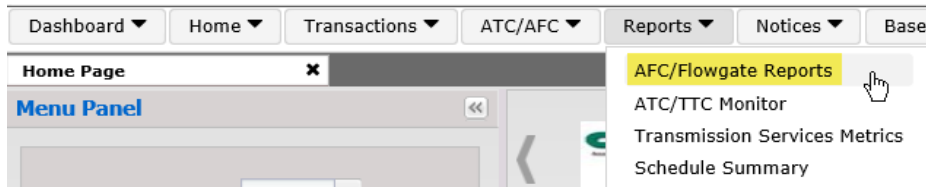
> SA11579
> AFC Fail
> AFC is unavailable. See:
> 00007 WOMCNY, 2025-01-31, 2025-02-01, AFC=-56.144
> 00007 WOMCNY, 2025-01-30, 2025-01-31, AFC=-56.144
> 00007 WOMCNY, 2025-01-29, 2025-01-30, AFC=-56.144
> 00007 WOMCNY, 2025-01-28, 2025-01-29, AFC=-56.144
> 00007 WOMCNY, 2025-01-27, 2025-01-28, AFC=-56.144

6. Click the Back icon ⊖ to return to the New TSR entry screen.

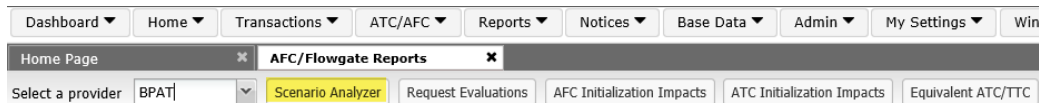7. Click the Submit icon ✅ to submit the actual TSR.

    Note: The final result of the TSR should be similar to the SA result, depending on any changes to ST ATC/AFC that has occurred in the interim.

AFC/Flowgate Reports SA

1. Access OASIS>Reports>AFC/Flowgate Reports.

2. Select a provider: BPAT.

3. Select Scenario Analyzer.

4. Select/enter the following:

    a. Queue Position: LAST (default) or FIRST (see descriptions above).

    b. Report Format: BRIEF (default) or FULL (see descriptions above).

    c. Request Type: ORIGINAL or REDIRECT.

    d. Related Ref: Enter the Parent Reservation Aref for REDIRECT.

    e. Provider: BPAT

    f. Source/Sink: Not applicable for ST scenarios.

    g. POR/POD: Required for ST scenarios.

    h. Transmission Service: Select Service Type.

    i. Path: Leave blank.

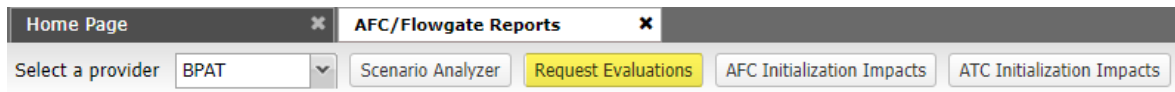   j. Start Time: Enter date/time service is to begin.

    k. Start TZ: Select the applicable time zone.

        i. PD = approximately early March through early November.

        ii. PS = approximately early November through early March.

    l. Stop Time: Enter date/time service is to end.

    m. Stop TZ: Select the applicable time zone.

    n. MW: Enter MW.

5. Click Check AFC [Check AFC] icon and/or Check ATC [Check ATC] icon for path results (see example results above).

B. OASIS Request Evaluations Report

These reports show the "Pass/Fail" evaluation information for both potential and actual TSRs.

1. Access OASIS>Reports>AFC/Flowgate Reports>Request Evaluations.

Note: These reports display the same information as an actual TSR.

    a. Select a provider: BPAT.

    b. Select Request Evaluations.

    c. Filter By:

        i. Provider: BPAT.

        ii. Time: Today (modify if needed).

        iii. Assign Ref: SA (for SA reports only)
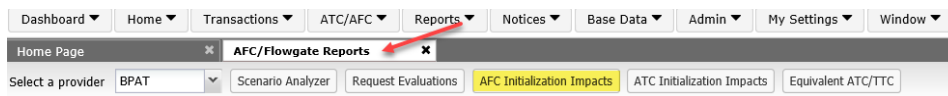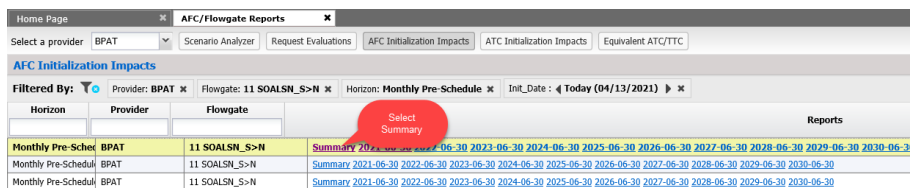
C. OASIS AFC/ATC Initialization Impacts Reports

These reports show the <u>pending</u> AFC/ATC values that are used to evaluate potential and actual ST TSRs. Note: ATC/AFC posted to OASIS beyond the ST Horizon is not used to evaluate TSRs.

1. Access OASIS>Reports>AFC/Flowgate Reports.

2. Select a provider: BPAT.

3. Select AFC Initialization Impacts (flow-based paths) or ATC Initialization Impacts (1:1 paths).

4. Filter by:

   a. Provider: BPAT.

   b. Flowgate: Select applicable path.

   c. Horizon: Select applicable horizon.

   d. Data Source: Operational.

   e. Init. Date: Select initialization date.

   f. Click Apply.

5. Select the Summary hyperlink to open the AFC/ATC Initialization Impact Detail screen.

6. Scroll to the right on the Impact Detail screen to view the following columns:

   a. Pending SAFC/SATC = used to evaluate ST Firm TSRs.

   b. Pending RAFC6/RATC6 = used to evaluate Secondary Network (6-NN) TSRs.

c. Pending RAFC2/RATC2 = used to evaluate Hourly Non-Firm PTP (2-NH) TSRs.

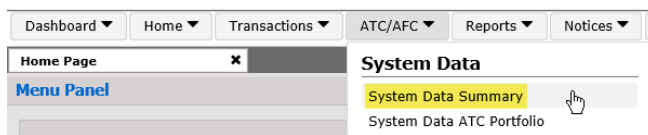d. Pending RAFC1/RATC1 = used to evaluate Non-Firm Secondary Hourly PTP/Redirect from Firm to Non-Firm (1-NS) TSRs.

Initialization Impact Detail

Start	Stop	TFC	TRM	ng C	Pending SAFC	Pending RAFC6	Pending RAFC2	Pending RAFC1
2022-03-25	2022-03-25.01	6524.00			-2939.81	975.02	968.84	697.47
2022-03-25.01	2022-03-25.02	6524.00		27	-2939.64	534.41	528.24	97.67
2022-03-25.02	2022-03-25.03	6524.00		.27	-2939.81	349.14	342.96	-87.82
2022-03-25.03	2022-03-25.04	6524.00		.27	-2943.63	296.49	290.32	-141.42
2022-03-25.04	2022-03-25.05	6524.00		/	-2959.20	560.05	553.87	122.35
2022-03-25.05	2022-03-25.06	6524.00		~3	-3046.29	936.57	930.40	635.19
2022-03-25.06	2022-03-25.07	6524.00		5	-2999.63	1247.60	1241.42	542.20
2022-03-25.07	2022-03-25.08	6524.00		.00	-3019.49	1231.26	1225.08	493.69

Note: These reports do not show columns for Non-Firm Daily (RAFC3/RATC3), Weekly (RAFC4/RATC4), or Monthly (RAFC5/RATC5).

D. OASIS System Data Summary Report

This report shows the ==available== ATC/AFC for all transmission paths for the ST Horizon only.

1. Access OASIS>ATC/AFC>System Data Summary.

2. Filter By:

    a. Provider: BPAT.

    b. Element Type: ALL.

    c. System Element: Select path name.

    d. Posting Ref: Leave blank.

    e. Attribute: Select applicable attribute.

    f. Time: Active.

    g. Time Range: Enter time range for analysis scenario.

3. Click Apply icon ✅

E. BPA ST Analysis Tools

The ST Original/Redirect Transmission Service Request Calculators (ST Calculator) calculate the path impacts of a potential TSR using "All Lines In Service" ST PTDFs, ST *de minimis* (Section D) and ST evaluation matrix (Section C.9) of the [Transmission Service Requests (TSR) Evaluation Business Practice.](#)

1. Access the [Transmission Availability webpage](#).

2. Select the applicable ST Calculator hyperlink and populate as required.