

Network Integration (NT) Transmission Service

Version 7

Effective:

The Network Integration (NT) Transmission Service Business Practice outlines processes and procedures specific to Network Integration Transmission (NT) Service.

Version 7 reflects updates resulting from implementation of NITS on OASIS in March 2017.

Table of Contents

- A. Requesting NT Service
- B. Load & Resource Forecasts
- C. Preliminary Assessment of Draft Resource Forecasts
- D. Reserving Transmission Capacity for Forecasted Network Resources
- E. Designation of a New Network Resource
- F. Additional Requirements for Designating Network Resources
- G. Undesignation of a Designated Network Resource
- H. Designation of [New Network Load](#)
- I. Reservation Priority for NT Service Agreements
- J. Reservation Priority for Designated Network Resources

BPA Policy References

- OATT Reference: [Section III. Network Integration Transmission Service; Attachment G](#)
- Rate Schedule Provisions: [Network Integration Rate](#)

A. Requesting NT Service

1. Entities that are not yet BPA Transmission Services Customers must complete the steps in the [New Customer Application Process for Transmission Services](#) Business Practice.
2. Per Section 29.2 of the OATT, an Eligible [Customer](#) seeking NT service must submit the following over webSmartOASIS:
 - a. Transmission Service Request ([TSR](#))
 - b. NITS Application. Refer to the Network Integration (NT) Transmission Service TSR Procedures.

3. The NT Customer must also provide the following supplemental information as part of the application for NT service:
 - a. [New Network Load Supplemental Form](#) (if applicable)
 - b. Load and resource forecast. Refer to section B.3 of this business practice for submittal dates.

B. Load and Resource Forecasts

1. NT Customer 10-year load and resource forecasts are necessary to allow BPA Transmission Services to plan the Transmission System and to determine the usage of constrained transmission paths for the calculation of Available Transfer Capability ([ATC](#)) and Available [Flowgate](#) Capability (AFC).
2. NT Customers shall submit to BPA annual 10-year load and resource forecast updates pursuant to sections 29.2 and 31.6 of the OATT. These forecasts are template forms and not TSRs submitted over webSmartOASIS.
3. Resource Forecasts
 - a. Draft resource forecasts may be submitted annually to BPA by May 1st. NT Customers are encouraged to submit draft resource forecasts to receive a preliminary review in accordance with section "C - Preliminary Assessment of Draft Resource Forecasts."
 - b. Final resource forecasts must be submitted annually to BPA by September 30th.
 - c. The resource forecast should identify all existing and future resources intended to serve Network Load and forecasted Network Load growth.
 - d. For each forecasted, not yet designated resource the NT Customer must include the information in section 29.2(v) and (vi) of the OATT. The NT Customer must include at least the following information:
 - i. [Point of Receipt \(POR\)](#);
 - ii. Point(s) of Delivery ([POD](#));
 - iii. Demand (MW) to be designated;

- iv. Start and stop dates.
- e. The NT Customer must identify in the header of the resource forecast template whether the resource forecast is a draft or a final version.

4. Load Forecasts

- a. Annual updates to the 10-year load forecasts must be submitted by September 30th each year, unless otherwise specified.
- b. Load forecasts must include the information in section 29.2 (iii), (iv), and (v) of the OATT.

- i. Forecasts of Network Loads must include the monthly normal 1-in-2 year non-coincidental peak loads for the current year and each of the next 10 calendar years.

c. Light Load Hour Forecasts

- i. Some transmission paths are most constrained during light load hours. In these circumstances, BPA Transmission Services may require 10-year light load hour forecasts (e.g., of minimum load) from NT Customers. If BPA Transmission Services determines that such forecasts are required, it will notify the specific impacted NT Customers and provide at least 30 calendar days to provide the forecast.

5. Load and resource forecasts must be submitted to BPA's Load Forecasting and Analysis by email to KSLF@bpa.gov.

6. Changes in forecasted loads or resources must be submitted in writing at any time to BPA by methods specified in section B.5 as soon as the NT Customer is aware of a change in the forecast.

7. If a third party provides the load and resource forecasts on behalf of the NT Customer, the NT Customer is responsible for ensuring the forecasts are accurate and any updates are submitted by the specified due date.

C. Preliminary Assessment of Draft Resource Forecasts

1. If an NT Customer elects to submit a draft resource forecast, BPA will review the information provided and complete a preliminary

assessment of the forecasted Network Resources to determine whether BPA may have sufficient transfer capability to accommodate the forecasted Network Resources or whether BPA anticipates that transmission facility upgrades or expansion may be necessary.

- a. BPA will perform a preliminary flowgate analysis to determine the flowgate impacts.
 - b. BPA will also perform a preliminary sub-grid analysis for the forecasted Network Resources.
 - c. BPA will share the findings with the NT Customer who elects to submit a draft resource forecast.
2. In order for BPA to provide a preliminary analysis, the forecasted Network Resources must contain, at a minimum, the information outlined in section B.3.d.

D. Reserving Transmission Capacity for Forecasted Network Resources

1. Submission of FTSRs over webSmartOASIS for forecasted Network Resources provides BPA the ability to evaluate NT Customer forecasted Network Resources in queue order, while considering all previously submitted requests. BPA will use NT Customer Load and Resource Forecasts in planning the transmission system.
2. Establishing a Queue Time for a Forecasted Network Resource
 - a. The NT Customer may submit an FTSR over webSmartOASIS for each forecasted Network Resource included in a final or updated resource forecast (as provided in section B.6.).
 - i. When submitting an FTSR, the NT Customer may submit a shaped monthly capacity profile in accordance with section F.2.b.
 - ii. The NT Customer is not required to add a Network Resource Designation (DNR) on webSmartOASIS at the time of submittal of an FTSR, but is required to add the DNR when designating the Network Resource in accordance with section E.5.
 - b. Multiple, alternate, FTSRs may be submitted. The NT Customer must submit the alternate FTSRs in accordance with section D.1.

- i. When submitting an alternate forecasted Network Resource FTSR, the NT Customer must enter the following information into the customer comment field of the FTSR: "Alternate FTSR: related to previously submitted FTSR number XX."
- ii. If alternate FTSRs are submitted for alternate forecasted Network Resources, and these are placed in Confirmed, BPA will only set aside the amount of capacity needed to meet the MW demand being requested by any one of the FTSRs. BPA will not set aside an amount of capacity to meet the aggregate MW demand being requested by all alternate FTSRs.
- c. See the [Requesting Transmission Service Business Practice](#) for detailed information on the submission of TSRs.
- d. Queue time for the FTSR is established when the FTSR is QUEUED on webSmartOASIS.
- e. When submitting the FTSR, the NT Customer must enter the following information into the customer comment field of the FTSR: "This FTSR is for a forecasted Network Resource."

3. Updates to FTSRs

a. Decrease to MW Demand

- i. The NT Customer must submit a Conformance NT TSR over webSmartOASIS.
- ii. The Conformance TSR must reference the A-Ref of the original FTSR, in the Deal Ref field, for a forecasted Network Resource.
- iii. The NT Customer must enter the following information into the customer comment field of the Conformance TSR: "Decrease in MW demand for forecasted Network Resource."
- iv. The queue time for a Conformance TSR will be the date and time that the original FTSR was QUEUED on webSmartOASIS.

b. Increase to MW Demand

- i. To increase the MW Demand of an existing FTSR, the NT Customer must submit a new FTSR over webSmartOASIS that either: (1) reflects only the increase of the MW demand for the

forecasted Network Resource; or (2) reflects the entire new MW demand of the forecasted Network Resource.

- ii. The NT Customer must enter the following information into the customer comment field of the new FTSR: "New forecasted Network Resource to increase demand of existing forecasted Network Resource."
- iii. A new FTSR will receive a new and separate queue time from the original FTSR.

c. Changes in Start and Stop Dates

- i. To change the start and stop dates of a FTSR, the NT Customer must submit a Conformance NT TSR with the new dates and reference the A-Ref, in the Deal Ref field, of the original FTSR.
- ii. Any changes in the start and stop dates of the Conformance NTTSR must stay within the start and stop date parameters of the original FTSR.
- iii. The NT Customer must enter the following information into the customer comment field of the Conformance NT TSR:
 - For changes to start dates: "Change to start date of existing forecasted Network Resource."
 - For changes to stop dates: "Changes to stop date of existing forecasted Network Resource."
- iv. The queue time for a Conformance NT TSR will be the date and time that the original FTSR was QUEUED on webSmartOASIS.
- v. A change in the term of a forecasted Network Resource that moves the start date earlier or the stop date later than the original FTSR requires the submittal of a new FTSR.
- vi. The new Original FTSR will receive a new queue time established when the TSR is QUEUED on webSmartOASIS.

d. Changes to POR and POD

- i. Any changes to a POR or POD for a forecasted Network Resource must be done through the submission of a new FTSR. The FTSR

will receive a new queue time, established when the FTSR is QUEUED on webSmartOASIS.

E. Designation of a New Network Resource

1. To designate a New Network Resource, the NT Customer must submit a new TSR and a new DNR on webSmartOASIS.
 - a. For detailed information concerning submitting DNR requests, see Network Integration (NT) Transmission Service TSR Procedures.
 - b. For Hourly, Daily, Weekly, and Monthly designated network resources, NT Customers may submit a Short-Term Firm (STF) NT TSR in accordance with the "Short-Term and Hourly TSR Process" section of the Requesting Transmission Service Business Practice. STF NT TSRs must be submitted in accordance with the BPA Transmission Services' reservation timelines specified in the "Reservation Timelines" section of the Requesting Transmission Service Business Practice.
 - c. For information concerning submitting NITS Applications and supplemental information for STF NT TSRs, see the Network Integration (NT) Transmission Service TSR Procedures. For Deposit and Processing Fee procedures and requirements, please refer to the Requesting Transmission Service Business Practice.
 - d. Queue time is established when the TSR is QUEUED on webSmartOASIS.
 - e. For LTF NT TSRs to designate Network Resources, a DNR must be submitted on webSmartOASIS no later than 5:00 PM, Pacific Prevailing Time ([PPT](#)) on the same [Business Day](#) in which the [LTF NT TSR](#) is QUEUED. For STF NT TSRs, a DNR must be submitted on webSmartOASIS no later than 5:00 PM PPT on the same Business Day in which the TSR is QUEUED, or before delivery, whichever is earlier. The STF NT TSR may be Confirmed over webSmartOASIS before BPA Transmission Services may have an opportunity to review the STF NT TSR and the DNR. Therefore, although a STF NT TSR may be confirmed, BPA Transmission Services considers the NITS Application deficient if the NITS Application requirements are not met or are not submitted within the specified deadline.
 - f. If a NITS Application fails to meet the requirements of the OATT, BPA Transmission Services will notify the NT Customer requesting

5. Designating a Previously Forecasted Network Resource

- a. To designate a previously forecasted Network Resource for which a FTSR has been submitted, the NT Customer must submit a Conformance NT TSR and a DNR in accordance with section E.1.
 - i. The queue time for a Conformance NT TSR will be the date and time that the original FTSR was QUEUED on webSmartOASIS.
 - ii. The term of the Conformance NT TSR must stay within the start and stop date parameters of the FTSR. Any changes to the Conformance NT TSR must comport with the principles outlined in section D.3.
 - iii. When submitting the Conformance NT TSR to designate a previously forecasted Network Resource, the NT Customer must enter the A-Ref number of the original FTSR in the Deal Ref field of the designation TSR.
 - iv. The NT Customer must enter the following information into the customer comment field of the Conformance TSR: "TSR to designate a previously forecasted Network Resource."

F. Additional Requirements for Designating Network Resources

1. For the POR field of the webSmartOASIS Reservation Entry Form, NT Customers may use the following PORs:
 - a. The POR of the identified [On-System Generating Resource](#).
 - i. The POR of the generating resource may be [Newpoint](#) (POR: NEWPOINTBPAT) if the point is not currently modeled on webSmartOASIS. See the Requesting Transmission Service/Requesting Transmission Service Business Practice for more information on designating Newpoint.
 - ii. The POR for a generating resource located within a Load Serving [Entity](#)'s distribution system is the point of interconnection between the Load Serving Entity and the BPA BAA.
 - b. BAA Delivery Point
 - i. A BAA Delivery Point may only be used for Network Resources originating from outside the BPA BAA.

- ii. If the originating BAA is interconnected with the BPA BAA, the NT Customer must use the BAA Point between the BPA BAA and the adjacent or nested BAA from which the Network Resource(s) originate.
 - iii. Network Resources must be delivered to the BAA Delivery Point on Firm or Conditional Firm transmission for the duration of the TSR. The TSR will be DECLINED if the NT Customer is unable to provide an [AREF](#) and an attestation for the upstream transmission at the time the DNR is submitted on webSmartOASIS. See section M of the Network Integration (NT) Transmission Service TSR Procedures.
 - iv. If the upstream Firm or Conditional Firm transmission contract includes rollover rights which may be exercised during the duration of the NT TSR, the NT Customer must provide the AREF for the rollover TSR at the time the TSR is submitted and again within five Business Days of the rollover being Confirmed in order for the NT TSR to continue to be a valid [DNR](#). The notification must be emailed to TxRequests@bpa.gov.
- c. The Northwest Market Hub (POR: NWH)
- i. Network Resources must be delivered to the Northwest Market Hub on Firm or Conditional Firm transmission for the duration of the NT TSR and in accordance with iii below. The TSR will be DECLINED if the NT Customer is unable to provide an AREF and an attestation for the upstream transmission at the time the DNR is submitted on webSmartOASIS.
 - ii. If the source is physically located within the BPA BAA, the NT Customer may only identify a single generating resource for each TSR and must provide a DNR for each resource. The TSR will be DECLINED if the NT Customer is unable to identify a specific source at the time the DNR is submitted on webSmartOASIS.
 - iii. For the Start date and the Stop Date field of the webSmartOASIS Reservation Form, the NT Customer must use dates when the resource will be available on a non-interruptible basis to serve the NT Customer's load.

- iv. If the Network Resource is a generating resource physically located outside of the BPA BAA, the NT Customer must provide an AREF and an attestation that the upstream transmission arrangements are Firm or Conditional Firm and identify the Balancing Authority Area Delivery Point in the NITS Resource Description of the DNR.
- v. If the Network Resource is a power purchase agreement from generating resources physically located outside of the BPA BAA, the NT Customer must also identify the Balancing Authority from which the power will originate and the Balancing Authority Area Delivery Point in the NITS Resource Description of the DNR.

2. NT Resource Demand

a. Federal Resource Demand

- i. If the POR is the FCRPS and the demand varies over the term of designation, e.g.; a Load Following or [Slice](#)/Block contract.
 - Enter "99,999 MW" should be input as the requested demand in the MW field of the TSR
 - Enter the peak demand in the Customer Comments Field of the TSR
- ii. If the POR is the FCRPS and the demand is fixed, e.g.; a 10MW contract, the NT Customer should input the specific requested demand in the MW field of the TSR.
- iii. If the NT Customer plans to displace an existing resource that is not FCRPS, the NT Customer should identify the resource being displaced in the Customer Comments field of the TSR

b. Non-Federal Network Resource Demand

- i. The NT Customer may submit a shaped monthly capacity profile.
- ii. Each monthly MW value must be less than or equal to the peak demand listed in the associated Power Purchase Agreement.

3. The NT Customer must specify in the Customer Comments field of the LTF TSR "New Network Resource".

4. The term of the TSR may not exceed the term to which the NT Customer owns the resource or has rights to the resource.
5. The Stop date of the NT TSR may be later than the termination date of the NT Customer's NT Service Agreement. However, if the NT Customer's NT Service Agreements is not renewed and subsequently terminates, then the NT Customer's DNRs that extend past the termination of the NT Service Agreement are no longer valid.
6. BPA Transmission Services will evaluate TSRs submitted on webSmartOASIS for NT service to determine whether transmission service can be provided. See ATC Methodology website, Reference Documents, ATC Impacts of Long-Term Firm Requests.
7. Behind the Meter Resources
 - a. If a generating resource used to serve Network Load is a [Behind the Meter Resource](#), the NT Customer must notify BPA Transmission Services by submitting a DNR over webSmartOASIS, and an updated 10-year Load and Resource Forecast.
 - i. No webSmartOASIS TSR is required for a Behind the Meter Resource.
 - ii. The customer must notify BPA the resource is a Behind the Meter Resource by entering the comment "Behind the Meter Resource" in the Customer Comment field of the DNR submitted over webSmartOASIS.
 - b. The integrated hourly sum of generation from an NT Customer's Behind the Meter Resources may not exceed the NT Customer's total Network Load for any given hour.
8. Use of Point-to-Point (PTP) service to serve Network Load
 - a. PTP service may be used to serve Network Load at a NT [Point of Delivery](#) provided that the NT Customer continues to pay the NT rate for full load service and the PTP contract holder pays the full PTP service costs. The PTP reservation must be a flat transmission capacity MW profile for the full duration of the reservation. Neither the Network Load nor the NT bill will be reduced by the amount of load served with PTP service.
 - b. The NT Customer may be required to undesignate its DNR pursuant to Section 30.3 of the OATT if the DNR has the same POR as the

PTP service and the PTP service is used to serve Network Load for more than one year.

G. Undesignation of a Designated Network Resource

1. To make third-party sales of one year or more from a DNR, or if output or contractual rights to a DNR cease, an NT Customer must first undesignate that Network Resource. An NT Customer must use PTP Transmission Service for third party sales.
2. An NT Customer may undesignate all or part of a DNR by submitting a request to terminate a DNR on webSmartOASIS.
3. Temporary Undesignation of a DNR.
 - a. See Section H. Temporary Undesignation of the Network Integration (NT) Transmission Service TSR Procedures.
 - b. The NT Customer forfeits its ATC rights during the period that the Network Resource or portion thereof, is temporarily undesignated.
 - i. A new TSR is required if an NT Customer elects to re-designate a resource prior to the end date of the Temporary Undesignation.
 - c. After the period of temporary undesignation, the NT Customer will retain its right to Transmission Service from the original DNR.
 - d. If no stop date is specified in the undesignation notice, BPA Transmission Services will consider the Network Resource to be permanently undesignated.
4. Permanent Undesignation of a DNR
 - a. See Section I. Indefinite (Permanent) Undesignation of the Network Integration (NT) Transmission Service TSR Procedures.:
 - b. The NT Customer forfeits its reservation priority and ATC rights for any permanently undesignated Network Resources.
 - c. Upon permanent undesignation of a DNR, to designate a new Network Resource, the NT Customer must submit a new LTF NT TSR on webSmartOASIS.

H. Designation of New Network Load

1. The NT Customer must submit a LTF NT TSR and a new DNR for the new Network Load on webSmartOASIS. For detailed information on submitting NT requests, see the [Requesting Business Practice](#). If applicable, the NT Customer must also submit a new Network Load Supplemental form.
2. For Deposit and Processing Fee procedures and requirements, please refer to the [Requesting Transmission Service](#) Business Practice.
3. For information about submitting a new DNR, see the Network Integration(NT) Transmission Service TSR Procedures.
3. Queue time is established when the TSR for a New Network Load is QUEUED on webSmartOASIS.
4. A new DNR must be submitted on webSmartOASIS no later than 5:00PM, PPT on the same Business Day in which the LTF NT TSR is QUEUED.
 - a. If a NITS Application fails to meet the requirements of the OATT, BPA Transmission Services will notify the NT Customer requesting service within 15 calendar days from the day the TSR is QUEUED and specify the reasons for such failure.
 - b. If, within 10 Business Days of notification, efforts to remedy the deficiencies through informal communications with the NT Customer are unsuccessful, BPA Transmission Services will change the webSmartOASIS status of the TSR and the NITS Application to DECLINED.
5. The NT Customer must specify in the Customer Comments field of the TSR "New Network Load."
6. The NT Customer must demonstrate sufficient resources to serve the New Network Load.
7. BPA Transmission Services will evaluate NT TSRs submitted on webSmartOASIS for New Network Load to determine if transmission service can be provided. See [ATC Methodology, ATC Impacts of Long-Term Firm Requests](#).
8. For detailed information on the submission and processing of TSRs, refer to the [Requesting Transmission Service](#) Business Practice.

9. For additional requirements to interconnecting New Network Load, refer to the Line and Load Interconnection Procedures Business Practice.

I. Reservation Priority for NT Service Agreements

1. NT Customers with existing firm transmission service may have the right to continue to take transmission service when their contract expires, rolls over, or is renewed. For detailed information on exercising Reservation Priority rights, please refer to the [Reservation Priority](#) Business Practice.
4. For Deposit and Processing Fee procedures and requirements, please refer to the [Requesting Transmission Service](#) Business Practice.

J. Reservation Priority for Designated Network Resources

1. NT Customers with existing firm Transmission Service may have the right to renew their DNRs. For detailed information on exercising Reservation Priority rights, please refer to the [Reservation Priority](#) Business Practice.
2. The NT Customer must submit a TSR with a Request Type of RENEWAL and a NITS Application on webSmartOASISa .
 - a. For detailed information on submitting Renewal requests, see the [Requesting Business Practice](#).
 - b. For Deposit and Processing Fee procedures and requirements, refer to the [Requesting Transmission Service](#) Business Practice.
 - c. The DNR must be submitted on webSmartOASIS no later than 5:00 PM, PPT on the same Business Day in which the LTF NT TSR is QUEUED. .
 - d. If a NITS Application fails to meet the requirements of the OATT, BPA Transmission Services will notify the NT Customer within 15 calendar days from the day the NT TSR is QUEUED and specify the reasons for such failure.
 - e. If, within 10 Business Days of notification, efforts to remedy the deficiencies through informal communications with the NT Customer are unsuccessful, BPA Transmission Services will change

the webSmartOASIS status of the NT TSR and the NITS Application to DECLINED.