

**PJM Business Practices**  
**for Neptune Transmission Service**

**Table of Contents**

About These Practices..... 3

1. Valid Paths for the NEPTUNE Reservations on the PJM OASIS..... 4

2. Acquiring Neptune Service..... 4

3. Release of Capacity of Neptune Service..... 5

4. Submission Deadlines for Neptune Capacity Releases and Rate Changes..... 6

5. Submission Deadlines for Purchase of Neptune Reservation..... 7

6. Available Neptune Products on the OASIS ..... 7

7. Recallability of Neptune ATC ..... 8

8. Billing for Neptune Reservations..... 8

9. Losses..... 8

10. Rebates ..... 8

11. Scheduling Power on the Neptune Line..... 9

12. Definitions..... 10

APPENDIX A: Neptune Regional Practices Revisions and Updates..... 11

## About These Practices

These practices are specifically related to service over the Neptune Merchant Transmission DC line, and are supplemented and complimented by the normal OASIS business practices as posted on the PJM OASIS (<http://oasis.pjm.com/>). For any questions related to the PJM OASIS please contact [oasisadmin@pjm.com](mailto:oasisadmin@pjm.com) or call the PJM OASIS hotline during business hours at (610)-666-8972.

To move power from PJM over the Neptune line to NY ISO, two PJM transmission service reservations are required. A transmission service reservation is required from the PJM Transmission System to the Neptune HVDC line (“Out Service”) and another transmission service reservation over the Neptune HVDC line (“Neptune Service”). The PJM Out Service falls under Part II (or Part III for non-zonal load) of the PJM Open Access Transmissions Tariff (“OATT”) and the PJM Regional Practices (<http://oasis.pjm.com/>). The Neptune Service falls under the provisions for controllable merchant facilities, Schedule 14 of the PJM OATT and these Neptune Business Practices.

## 1. Valid Paths for the NEPTUNE Reservations on the PJM OASIS

Neptune Service, like PJM Out Service, will be acquired on the PJM OASIS. Neptune Service and PJM Out Service are both required to make a complete path from PJM to NY ISO over the DC line.

The PJM Out Service path is “PJM-NEPTUNE” on the PJM OASIS. This is the PJM out-service that will be used to schedule power from PJM to the DC line. This PJM Out Service is covered by normal PJM OASIS business practices (<http://oasis.pjm.com/>). This path provides service to the NEPTUNE DC line.

The Neptune Reservation path is “PJM-LONGISLAND” on the PJM OASIS. This path provides service over the Neptune DC line. All ATC over the Neptune DC line is held by Primary Rights Holder (per Schedule 14 of the PJM OATT) until all or a portion of the ATC is released voluntarily or by default for purchase by other PJM members through the OASIS.

## 2. Acquiring Neptune Service

The PJM Out Service must be sufficiently larger than Neptune Service to cover losses across the Neptune DC line. (For exact amount of the losses see Section 9) Companies acquiring an Out Service reservation must also have or acquire a corresponding Neptune Service reservation, for the time and capacity that will be used for scheduling purposes. Transmission capability should not be held except for anticipated scheduling or resale purposes.

Neptune Service that does not have scheduled use (NERC tag) may be released voluntarily by the primary rights holder as ATC. Neptune Service that is not released voluntarily and does not have scheduled use will be released by default by PJM.

Voluntary releases will be posted before the start of service as released by the Primary rights holder. Neptune Service (over the DC line) will be default released by as described in Section 3, Release of Neptune Service. Released Neptune Service that is available for purchase can be viewed on the OASIS. Available Neptune products are listed in [table 6.1](#). The deadlines for submitting Neptune Service requests are listed in [table 5.1](#). Neptune Service can be requested through the OASIS. Requester must have access to do business through the PJM OASIS and be an Eligible Customer as defined by the PJM Tariff.

After the request is received, a reservation will be created and the customer will be contacted by email with their reservation number. The rate for the service is set by the Primary Rights Holder and is listed on the OASIS. The rate paid by the requestor of this service is the rate applicable at the time of purchase, and will not be subject to rate changes after purchase. Neptune Service may be released by the Transmission Customer. This re-release will have a new rate as specified by the secondary purchaser of the service and posted on the OASIS.

### **3. Release of Capacity of Neptune Service**

A holder of Neptune Service may release capacity for reuse according to Schedule 14 of the PJM OATT (<http://www.pjm.com/documents.aspx>). Firm Neptune Service designated as Capacity and Energy for the NY ISO (the primary-NEPT\_F\_CAP product) will not be subject to default release. All other Neptune Service is subject to the default release practices identified in this document and Schedule 14 of the OATT. Released capacity will be posted for resale on the PJM OASIS. The rates for voluntary releases Neptune Service are set by releasing Neptune Service holder. “The Neptune Transmission Owner may provide the Transmission Provider a rate to be posted on OASIS and charged for default releases pursuant to Section 3.7.2. In the event that the Neptune Transmission Owner does not separately provide to the Transmission Provider a rate for default releases, such default releases shall be charged the lowest rate posted on OASIS for voluntary release of Neptune Reservations in the applicable hour. Neptune Service (over the DC line) will be default released by 12:00 p.m. one day before the operations day.

The releasing Neptune Service holder that remains obliged to pay for service. If a purchasing transmission service customer reserves the released service, the releasing Neptune Service holder will be credited and the purchasing Neptune Service holder will be charged the rate posted by the releasing Neptune Service holder at the time of the purchase.

**4. Submission Deadlines for Neptune Capacity Releases and Rate Changes**

Table 4.1

<b>Deadline Type</b>	<b>Time Period</b>	<b>Voluntary Release –hour- NEPT_F_ENERGY</b>	<b>Voluntary Release –Hour- NEPT_NF</b>	<b>Default Release – hour- NEPT_NF_DEFAULT</b>
<b>Latest Release</b> (latest time service can be released by a Neptune Service holder)	Monthly	30 calendar days prior to the first Operating Day	30 calendar days prior to the first Operating Day	N/A
	Weekly	10 calendar days prior to the first Operating Day of each Week	10 calendar days prior to the first Operating Day of each Week	N/A
	Daily	13:00 2 business days before start of service	13:00 2 business days before start of service	N/A
	Hourly	12:00 1 day before start of service	12:00 1 day before start of service	12:00 1 day before start of service
<b>Latest Release Rate</b> (latest time a rate can be changed by the Neptune Service holder releasing service)	Monthly	7 calendar days prior to the first Operating Day	7 calendar days prior to the first Operating Day	N/A
	Weekly	5 calendar days prior to the first Operating Day of each Week	5 calendar days prior to the first Operating Day of each Week	N/A
	Daily	13:00 2 business days before start of service	13:00 2 business days before start of service	13:00 2 business day before start of service
	Hourly	12:00 1 day before start of service	12:00 1 day before start of service	12:00 1 day before start of service

**5. Submission Deadlines for Purchase of Neptune Reservation**

Table 5.1

<b>Deadline Type</b>	<b>Time Period</b>	<b>Voluntary Release –hour- NEPT_F_ENERGY</b>	<b>Voluntary Release –Hour- NEPT_NF</b>	<b>Default Release – hour- NEPT_NF_DEFAULT</b>
<b>Latest Request</b> (amount of time prior to service for service on PJM-LONGISLAND)	Monthly	7 calendar days prior to the first Operating Day	7 calendar days prior to the first Operating Day	N/A
	Weekly	5 calendar days prior to the first Operating Day of each Week	5 calendar days prior to the first Operating Day of each Week	N/A
	Daily	13:00 1 business days before start of service	13:00 1 business days before start of service	13:00 1 business day before start of service
	Hourly	17:00 1 business day before start of service	17:00 1 business day before start of service	17:00 1 business day before start of service
<b>Provider Response</b> (within this amount of time after receiving request new rates will be posted)	Monthly	1 business day	1 business day	1 business day
	Weekly	1 business day	1 business day	1 business day
	Daily	4 business hours	4 business hours	4 business hours
	Hourly	4 business hours	4 business hours	4 business hours

**6. Available Neptune Products on the OASIS**

Table 6.1: OASIS Products offered on the NEPTUNE DC line

<b>Type</b>	<b>Description</b>	<b>Product Designator</b>
Default Release	Default release (hourly non-firm)	hour-NEPT_NF_DEFAULT
Primary Rights Holder	Primary Rights Holder Firm Capacity and Energy (Monthly with hourly profile)	primary-NEPT_F_CAP
	Primary Rights Holder Firm Energy Only (Monthly with hourly profile)	primary-NEPT_F_ENERGY
Voluntary Release	Hourly firm capacity and energy	hour-NEPT_F_ENERGY
	Hourly non-firm recallable	hour-NEPT_NF

## 7. Recallability of Neptune ATC

The owner of the firm Neptune Service may retain the right of recall for ATC released on a non-firm basis. The firm Neptune Service holder has until 12 p.m., 2 business days before the start of service to recall the capacity. This right of recall does not apply to service that has been released by default due to unscheduled service or to Neptune Service released as firm service.

## 8. Billing for Neptune Reservations

Billing for Neptune Service will be done on a normal monthly basis, similar to all other Point-to-Point Transmission Service billing. If you have released and sold capacity on the NEPTUNE line, the company releasing the capacity that has been purchased will be credited for the amount sold for the release; if you have purchased service you will be billed for the full amount of service you have purchase. Any questions about this billing should be directed to the OASIS hotline, at 610-666-8972 or to the [oasisadmin@pjm.com](mailto:oasisadmin@pjm.com) email.

## 9. Losses

Losses are measured between the Neptune Service Point of Receipt (PJM) and Point of Delivery (LONGISLAND). Losses across the Neptune DC line (the Neptune Service) may be as high as 2.4% of the scheduled flow. The PJM Out Service reservation must have sufficient capacity to accommodate expected losses, rounded up to the next whole MW.

**PJM Out Service reservation:** scheduled flow at POD + expected losses between POR and POD

**Neptune Service reservation:** schedule flow at POD

## 10. Rebates

The PJM practices for rebates for Neptune Service and PJM Out Service are identical. These practices are listed in section 1.19 of the PJM OASIS Regional Practices (<http://oasis.pjm.com/>).



## 11. Scheduling Power on the Neptune Line

Both PJM Out Service and Neptune Service are required to schedule an export from PJM over the Neptune line for delivery to the NY ISO (a “Neptune Schedule”). PJM Out Service must be identified on the NERC Tag for all Neptune Schedules.

Neptune tags will look similar to other NYISO tags with the exception of the POR and POD on the PJM TP line in the Physical Path. Instead of “PJM – NYIS”, the POR and POD should be “PJM – NEPT”; however, the GCA/ LCA on the tag will still be “PJM” and “NYIS” since Neptune tags ultimately sink in the NYISO.

The PJM Out Service reservation (PJM-NEPT path) must be included on the NERC Tag. The Neptune Service reservation should not be included on the OASIS field on the NERC tag; it should be included in the Contract field on the PJM TP line in the Physical Path.

To ensure that Neptune transactions receive the correct pricing, a PJM special exception must always be attached to the tag. This special exception should be placed on the PJM TP line in the Physical Path section of the tag. In the MISC INFO field, the Token should be “EXCEPTION” and the Value should be “NEPTUNE.”

The net interchange scheduled for delivery at Newbridge over the Neptune line (Neptune Net Scheduled Interchange) will be capped at a maximum of 660 MW at any given time. Additionally, the Neptune Net Scheduled Interchange can not go below 60 MW unless the Neptune Net Scheduled Interchange is 0 MW. Transaction requests that violate these limits will not be accepted.

All schedules must match the OASIS Out Service reservation start and stop times. “Sliding” transmission reservations by up to one hour due to ramp restrictions is permitted for all reservations *except* those related to merchant transmission facilities.

## 12. Definitions

12.1 Neptune Reservation: A right, denoted in Megawatts and for a specified period, to request the withdrawal of energy and capacity from the Transmission System at the Point of Interconnection and submit schedules for transmission service over the Neptune DC Line on a firm or non-firm basis as set forth in Schedule 14 of the PJM OATT.

12.2 Neptune Transmission Customer: An entity that (i) is an Eligible Customer (or its Designated Agent) that meets the creditworthiness requirements of the Transmission Provider set forth in Attachment Q to the OATT and is in good-standing with respect to all payments owed under the Tariff and Operating Agreement; (ii) executes a Neptune Service Agreement, the form of which is attached as Exhibit A to this Schedule 14; and (iii) holds a Neptune Reservation.

12.3 Neptune Line: The Neptune Line is a controllable, high voltage, direct current Merchant Transmission Facility that runs undersea between the Raritan River (Sayreville) Substation in Sayreville, New Jersey to the Newbridge Road Substation in Long Island, New York, which was the subject of Commission orders in FERC Docket No. ER01-2099 et al. regarding operation of the line as a merchant transmission facility and as more particularly described in the Interconnection Service Agreement among PJM Interconnection, L.L.C. and Neptune Regional Transmission System, LLC and Jersey Central Power & Light Company a First Energy Company, which was accepted for filing by the Commission in FERC Docket No. ER05-1010.

12.4 Neptune Schedule: The schedule for the transmission of capacity and energy on the Neptune Line pursuant to the terms and conditions of service set forth in this Schedule 14.

12.5 Neptune Out Service Schedule: The schedule for the transmission for delivery to the Neptune line using the PJM point to point out service required to schedule energy for delivery to the Neptune DC line.

12.6 Neptune Transmission Owner: Neptune Regional Transmission System, LLC, its agents, successors or assigns.

12.7 Primary Rights Holder: An entity that has been allocated rights to the use of the transmission capability of the Neptune Line and assigned Firm and Non-Firm Transmission Withdrawal Rights by the Neptune Transmission Owner in accordance with Section 2.1.

12.8 Secondary Rights Holder: An entity that has been allocated rights to the use of the transmission capability of the Neptune Line and assigned Firm and Non-Firm Transmission Withdrawal Rights by the Primary Rights holder in accordance proper release, allocation, or reassignment rules.

## **APPENDIX A: Neptune Regional Practices Revisions and Updates**

06/22/2007 First Draft Created

07/05/2007 First Draft Finalized

07/06/2007 Revision 2: Changed tagging information in section 11 for clarity.

07/06/2007 Changed timing requirement to format date/time to 24hour format.

9/3/2009 Updated Section 2 Acquiring Neptune Service clarifying reservations required, Section 11 Scheduling Power on the Neptune Line clarifying sliding schedules not permitted for merchant transmission. Also updated active hyperlinks throughout document. Updated Section 8 Billing for Neptune Reservations to clarify normal monthly billing.

8/21/2015 Updated hyperlinks throughout document. Updated Section 2 to reflect OASIS automation of releases. Updated Section 3 to reflect OASIS automation of releases. Updated Section 9 to correct losses language. Administrative clean-up including removal of fax references and Regional Practices section alignment.