

External Transactions

- **Define the terminology used in conjunction with PJM external energy transactions**
- **Define the requirements and components of creating external energy transactions**
- **Cite the usage of the eTools required for creating external transactions**
- **Define the types of external energy transactions available to PJM market participants**
- **Cite the relationship of NERC Tagging to PJM external energy transactions**



- **Basic Scheduling Terminology**

- eSuite / OASIS
- Ramp and Tag in PJM



Basic Scheduling Terminology

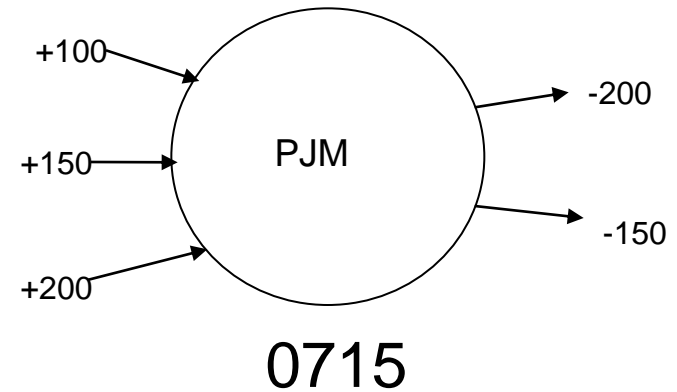
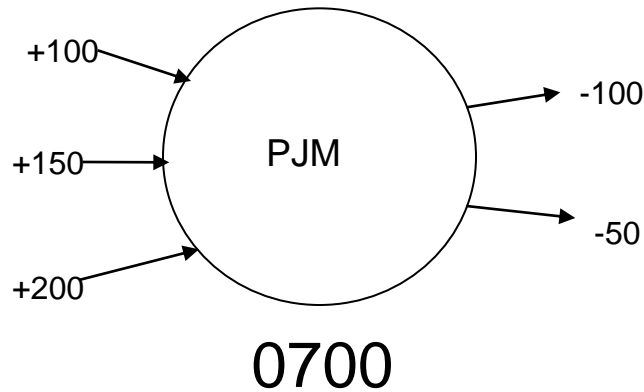
- Ramp
- Ramp Reservation
- OASIS
- EES - Enhanced Energy Schedule
- NERC Tag



- **Ramp:**
 - Change in Net Interchange
 - Limited to Control RTO Frequency
 - Variable Limit



Ramp Example:



$$NI_{0700} = (100) + (150) + (200) + (-100) + (-50) = (+300)$$

$$NI_{0715} = (100) + (150) + (200) + (-200) + (-150) = (+100)$$

$$\text{Ramp}_{0715} = NI_{0715} - NI_{0700} = (100) - (300) = (-200)$$

NOTE: NI = Net Interchange

- **Ramp Reservation:**
 - Reserved in EES
 - First-come, First-serve
 - **Not** a “schedule”
 - Expires if not scheduled against

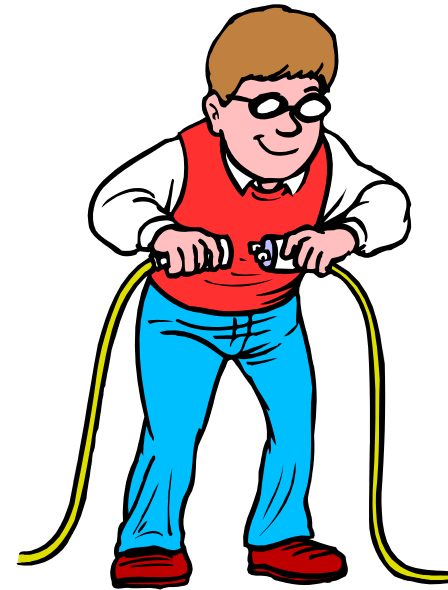


- **Reservation ID:**

- Unique identifier generated by EES

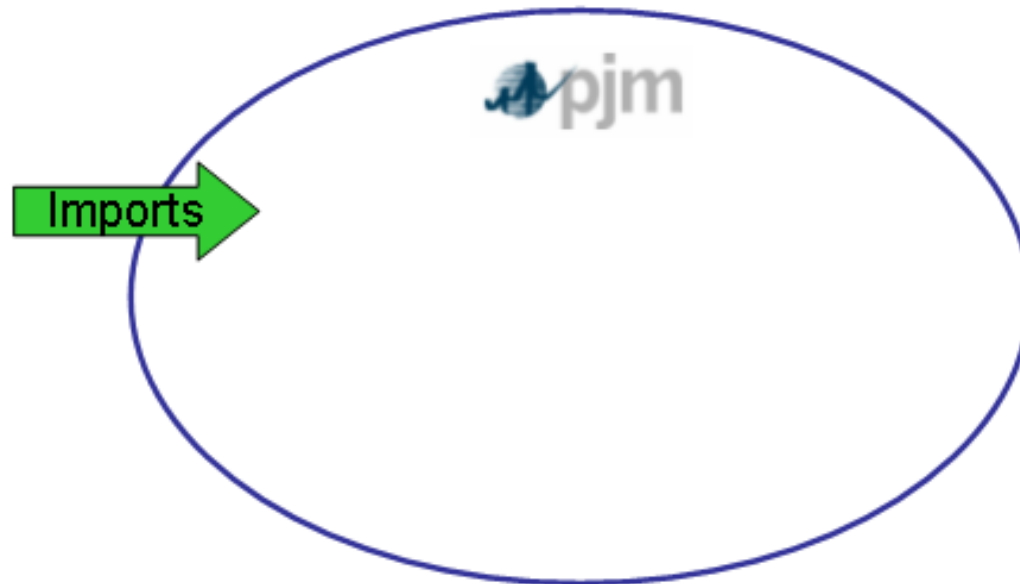
- Examples:

- New York: NYIS10000
- TVA: TVA10000
- CPLE: CPLE10000
- LGEE: LGEE10000

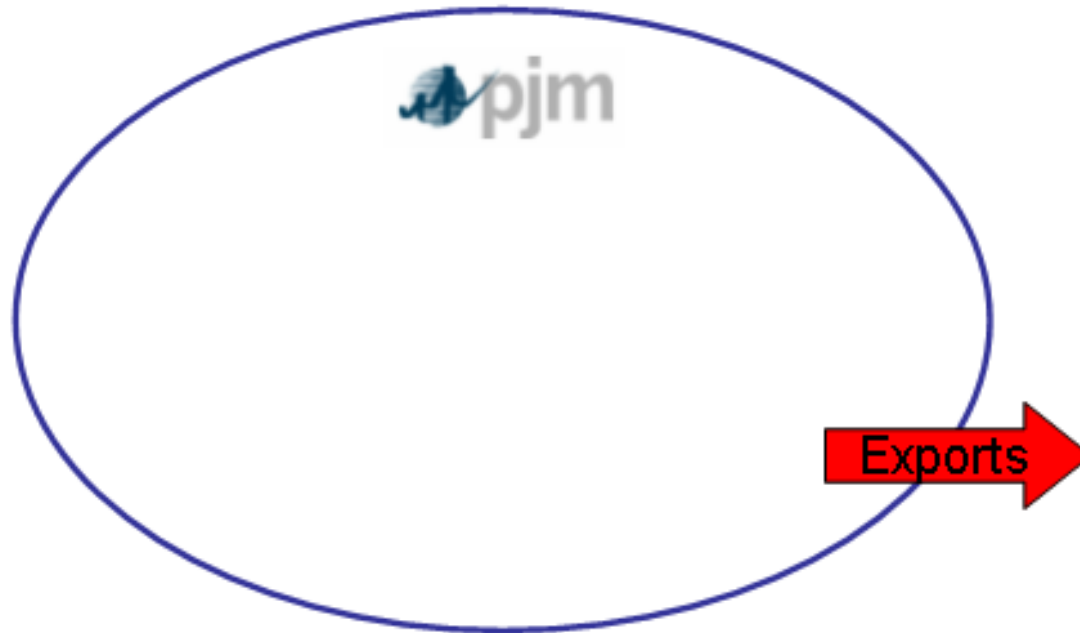


- **Import:**

- Any path flowing from a Neighboring Control Area (NCA) into the PJM RTO.

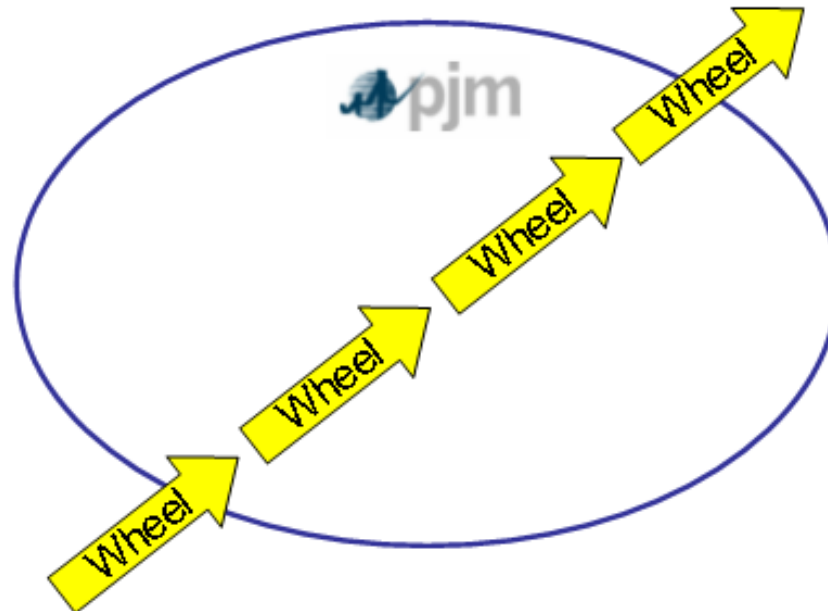


- **Export:**
 - Any path flowing **into** a Neighboring Control Area (NCA) **from** the PJM RTO.

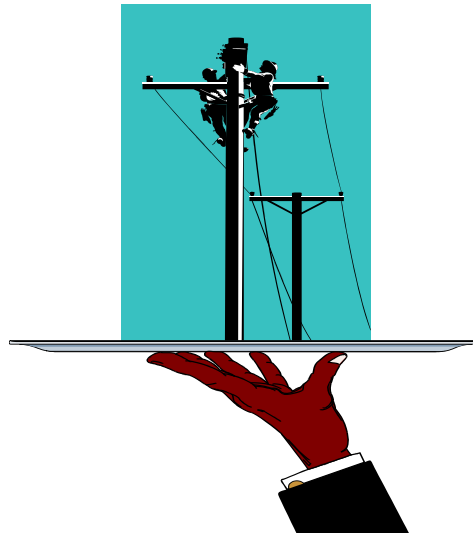


- **Wheel Through:**

- Any path flowing **from** a Neighboring Control Area (NCA) **to** another NCA **through** the PJM RTO.
- Has a net effect of 0 on Ramp and will never fail ramp validation.



- **OASIS:**
 - Open **A**ccess **S**ame Time **I**nformation **S**ystem
 - Demonstrate Required Transmission Rights
 - Product Type(s)



MORE TO COME!

- **EES:**
 - Enhanced Energy Scheduler
 - Used to make Ramp Reservations
 - Used to submit PJM specific Information
 - Can be used to submit OASIS requests
 - Can be used to view Ramp

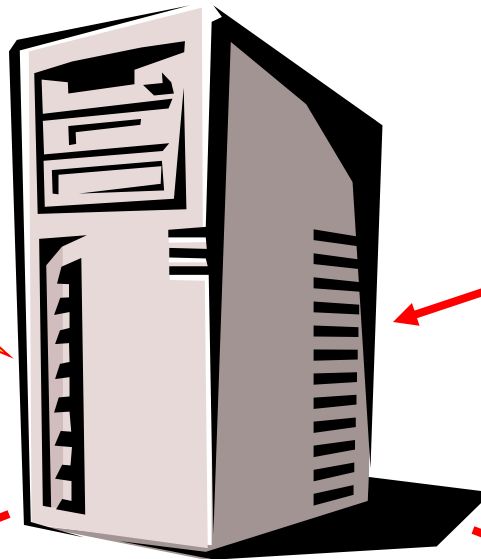


MORE TO COME!

Marketer



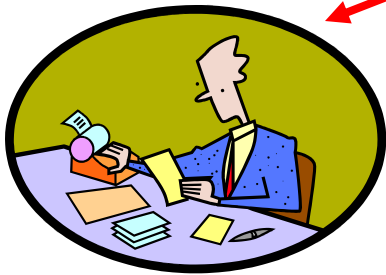
Dispatcher



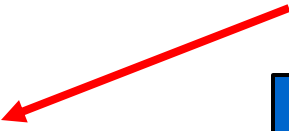
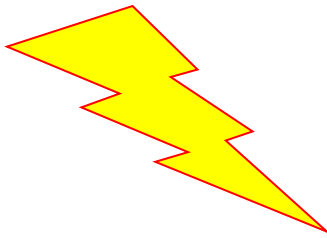
EES



EMS

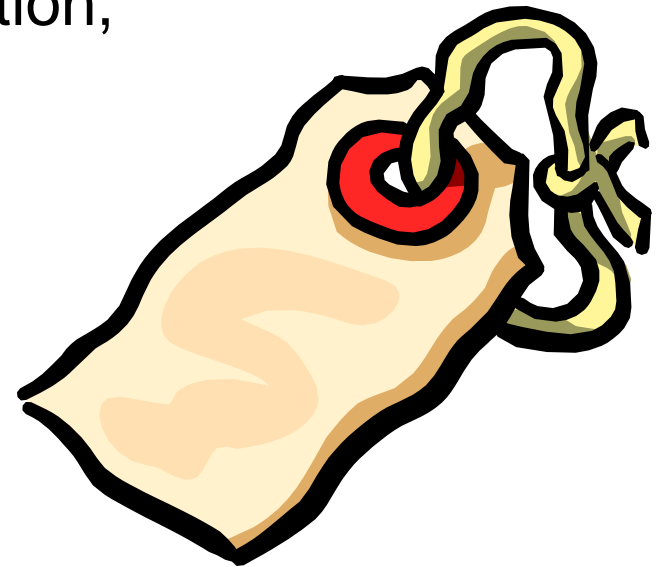


Accounting



- **NERC Tag:**
 - Common Tracking Number
 - IDC* / TLR*
 - When linked to a Ramp Reservation, becomes a schedule

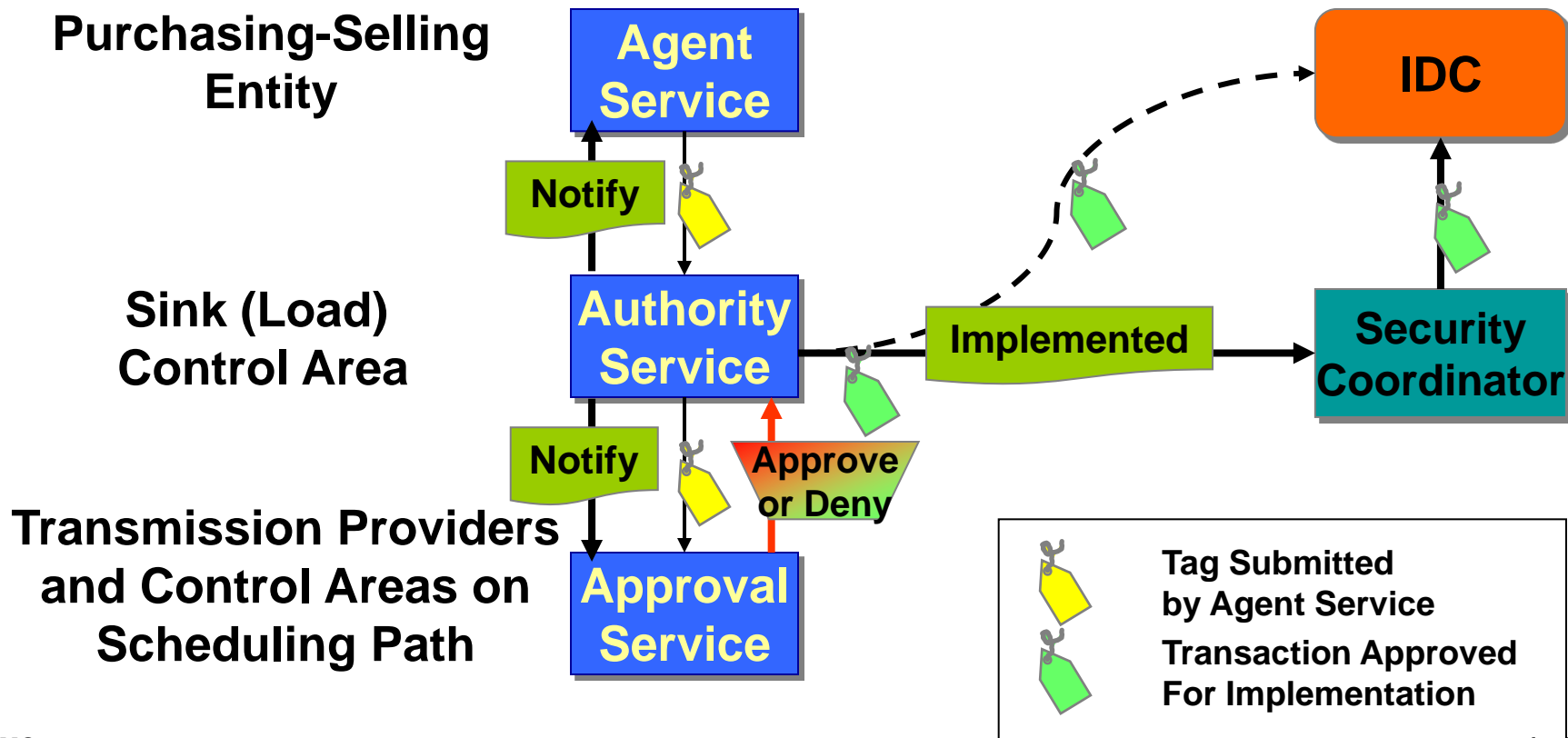
IDC: Interchange Distribution Calculator
TLR: Transmission Loading Relief



MORE TO COME!

E-Tagging Overview:

Electronic Tagging and Approval Process

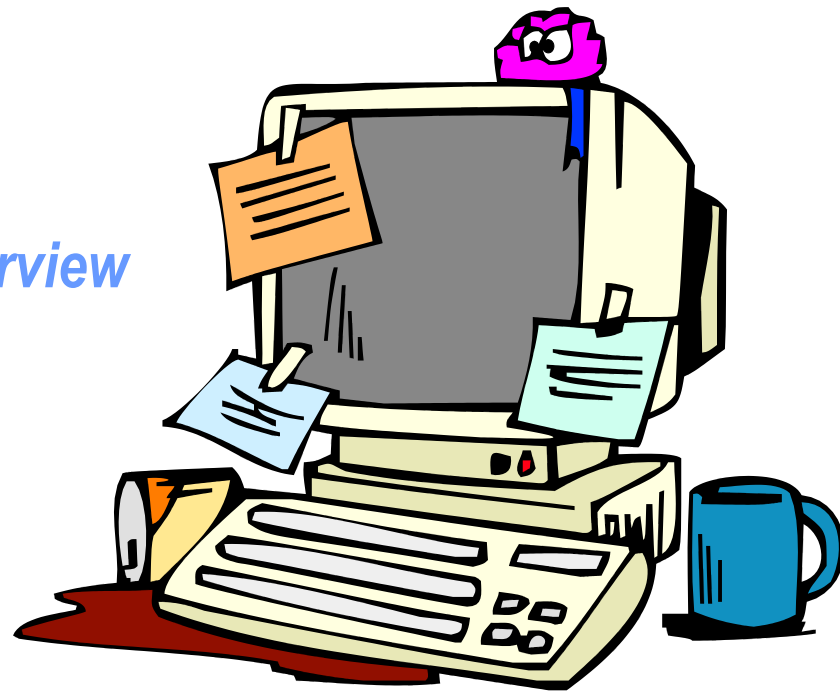


- Basic Scheduling Terminology
- **eSuite / OASIS**
- Scheduling Rules - How to Reserve Ramp and Tag in PJM
- Example Tags



<https://esuite.pjm.com>*

**Log On Procedures covered in CAM Overview*



Unique Business Practices

- Oasis business practices supplement and compliment business practices specifically related to service over:

- Linden Variable Frequency Transformer (VFT)
- Neptune Merchant Transmission DC Line

- To move power over either of these facilities to the NY ISO, two PJM Transmission Reservations are required:

1. **PJM Out Service** (Requires a NERC tag)

- PJM Transmission System to the Neptune HVDC line
- PJM Transmission System to the Linden VFT

Energy and Ancillary Service Charges apply

2. **Transmission Service Reservation Over the Facility**

- Neptune Service
- Linden VFT Service

- **Capacity reserved on the “Out Service” reservation must be large enough to cover losses on the facility reservation.**

Unique Business Practices

eTools Login | Glossary | Calendar Search for Go


pjm™ about pjm | training | committees & groups | planning | **markets & operations** | documents

Operational Data

- eTools
- eTools Information
- eTools Log In
- eDART
- eData
- eDataFeed
- EES
- eFTR
- eGADS
- eLRS
- Emergency Procedures
- eMKT
- eMTR
- eRPM
- eSchedules
- Load Response
- MIS
- OASIS**
- Merchant Transmission Facilities
- OASIS User Guide

Home > Markets & Operations > eTools > OASIS

OASIS



The Open Access Same-Time Information System (OASIS) provides information by electronic means about available transmission capability for point-to-point service and a process for requesting transmission service on a non-discriminatory basis. OASIS enables transmission providers and transmission customers to communicate requests and responses to buy and sell available transmission capacity offered under the PJM Open Access Transmission Tariff.

[Login](#) | [Register](#)

OASIS Documents

First Time Users

- [OASIS User Guide](#)
- [eSuite Browser Settings \(DOC\)](#)
- [Purchasing OASIS During DST \(PDF\)](#)
- [Template Information for S&CP 1.4](#)

Regional Scheduling Practices and Business Documents

- [Regional Practices \(DOC\) \(Clean version\)](#)
- [Regional Practices \(DOC\) \(Redline version\)](#)
- [Regional Practices Amendment Process \(DOC\) \(PDF\)](#)

RELATED INFORMATION

- [WEB Suite Login](#)
- [Frequently Asked Questions](#)
- [WEB OASIS Sandbox](#)
- [WEB Sandbox Training Environment](#)
- [DOC LAM Authorization Form A](#)
- [DOC LAM Authorization Form B](#)
- [Emergency Procedures](#)
- [PJM Security](#)
- [Pricing Point Calculator](#)
- [Special Notices](#)

RECENT DOCUMENTS

JUL 12	Quarter 2 of 2010 - 07.12.2010 2010 Posted 32 days ago	PDF
JUN 21	Regional Practices (Clean Version) 2010 Posted 53 days ago	DOC
JUN 21	Regional Practices (Redline version) 2010 Posted 53 days ago	DOC
MAY 27	Complete Descriptions (TXT) 2010 Posted 78 days ago	

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- **Contact PJM OASIS Hotline**
610-666-8972

- Basic Scheduling Terminology
- eSuite / OASIS
- **Scheduling Rules - How to Reserve Ramp and Tag in PJM**
- Example Tags



- **Ramp Reservation**

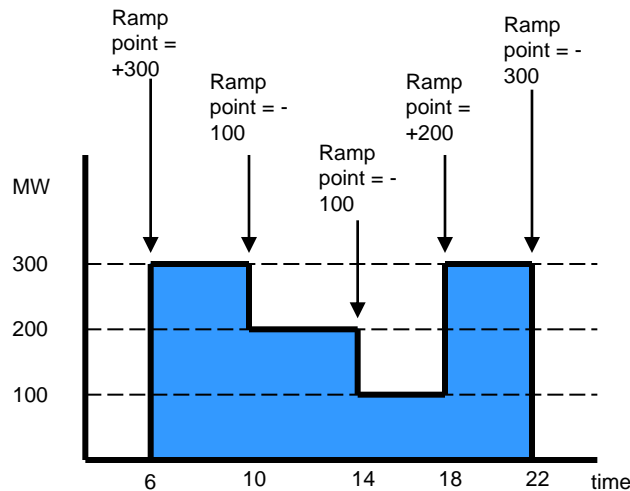
- Ramp Reservation with Price
- Withdraw Ramp Reservation
- NERC Tagging
- NERC Tag Modifications
- Curtailments
- Reloads
- Automated Denial of Ramp Reservations
- FRP
- Two – Settlement
- Other



- Ramp Reservation: *Timing Requirements*
 - First-Come, First-Serve
 - Requirements based on NERC Tagging Rules

<i>Ramp Reservations Expiration Time Frames</i>		
Pending Tag Reservations		
Submission Time	Status	Length of time to hold reservation
Before 14:30 EPT One Day Prior to Start of Schedule	Reservation held in Pending Tag Status	Until 14:30 EPT One Day Prior to Start of Schedule
Reservation submitted 1 hour prior to the start of the schedule or less	Reservation held in Pending Tag Status	10 minutes
Reservation submitted more than 1 hour, but less than 4 hours prior to the start of the schedule	Reservation held in Pending Tag Status	15 minutes
Reservation submitted 4 hours or more prior to the start of the schedule	Reservation held in Pending Tag Status	90 minutes

- Ramp Reservation: *Ramp Validations*
 - Must pass ramp validation at all ramp points



06:00	10:00	14:00	18:00	22:00
+300	-100	-100	+200	-300

- Last Action Message indicates information about last Ramp Reservation submission or action
 - Ramp Validation Results (if denied)
 - Submission Deadline Results (if denied)
 - Ramp Queue Status
 - Pending Reservation denials
- “Action Required” Messages appear on Two - Settlement schedules

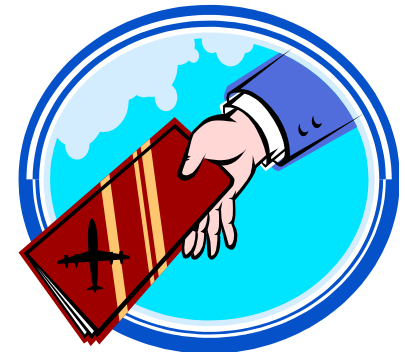


- Ramp Reservation: *Path*
 - ✓ Must match OASIS Path
 - ✓ Chosen from dropdown list
 - ✓ Must match path on NERC tag

Note: EES paths have not changed to reflect the NAESB standards used on OASIS

The bulk power paths currently listed on the PJM OASIS are:

PATH NAME	PATH NAME	PATH NAME
ALTE-PJM	CPLW-PJM-EKPC	NYIS-PJM-ALTW
ALTE-PJM-ALTW	CPLW-PJM-FE	NYIS-PJM-CIN
ALTE-PJM-CPLE	CWLP-PJM	NYIS-PJM-CPLE
ALTE-PJM-DUK	DUK-PJM	NYIS-PJM-DUK
ALTE-PJM-NIPS	DUK-PJM-CIN	NYIS-PJM-FE
ALTE MGE-ALTE-PJM	DUK-PJM-CPLE	NYIS-PJM-IPL



<http://www.pjm.com/markets-and-operations/etools/~media/etools/oasis/regional-practices-clean.ashx>

Select daily or monthly Calendar view

The screenshot displays the PJM eSuite web application interface. At the top, the browser title is "PJM eSuite - Microsoft Internet Explorer provided by PJM Interconnection". The address bar shows "https://esuite.stage.pjm.com/mui/index.htm".

On the left side, there is a navigation menu with categories like "CAM", "eCapacity", "eData", "EES", "eFTR", "eMKT", "eMTR", "eSchedules", "eSuite Messages", "Load Response", "NICApacity", "OASIS", "Non - eSuite Tools", "eDART", "eGADS", "eFuel", and "Emerg. Procedures". Under "Client Tools", there are buttons for "Organizer", "Reserve Ramp", "Ramp Viewer", "ATC Viewer", and "Buy OASIS".

The main content area shows reservation details for "DUK34". Fields include "Name", "Outside ID", "Owner: PECOEN", "Last Updated Agent: Peco Tester", and "Status: Pending Tag". A "Path" dropdown is set to "DUK-PJM".

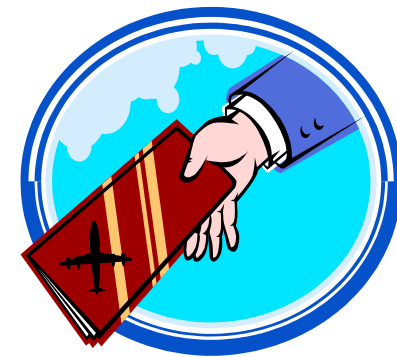
Below the details is a calendar for "07/07/2005". The calendar shows days from Sunday to Saturday. Thursday, July 7th, is highlighted in orange. Navigation arrows are present above the calendar.

To the right of the calendar, there are "Views" and "Edit" sections. The "Views" section has buttons for "Single Day" and "Calendar". The "Edit" section has buttons for "Reservation", "Reserve w/ Price", and "Two Settlement".

Below the calendar, there are several action buttons: "Create New", "Retrieve", "Comments", "Check Ramp", "Save", "Submit", "Withdraw in Queue", "Withdraw Pending/Working", and "Submit & Queue".

At the bottom right, there is a "GraphIt" section with input fields for "Start", "Stop", and "MW". The "MW" field is set to "25". Below it, "MWh" is set to "600.0".

- Ramp Reservation: *Statuses*
 - Pending Tag
 - Approved
 - Denied
 - In-Queue
 - Curtailed
 - Working



Ramp Reservation

The screenshot displays the PJM eSuite web application interface. The browser window title is "PJM eSuite - Microsoft Internet Explorer provided by PJM Interconnection". The address bar shows "https://esuite.stage.pjm.com/mui/index.htm". The main content area includes a reservation form with fields for Reservation ID (DUK34), Name, Outside ID, Nerc Tag ID, Owner (PECOEN), Last Updated, and Status (Pending Tag). A "Status Color Key" dialog box is open, providing a legend for reservation statuses. The legend is divided into "Real Time" and "Two Settlement" categories. A key icon in the main interface is circled in red, and a callout box with an arrow pointing to it contains the text "Clicking on Key gives Status legend".

Real Time

Green	Approved	Red	Denied
Blue	Curtailed	Yellow	In-Queue
Orange	Pending Tag	Grey	Working

Two Settlement

Black	Requested	Red	Invalid
Green	Result	Yellow	Pending Oasis

Close

Clicking on Key gives Status legend

- Ramp Reservation: *Modifications*
 - May be modified up to 30 minutes before the start of modification
 - Modification must pass ramp



- EES allows a Ramp Reservation to be submitted into working status at any time
- This can be used to save a reservation you are working on
- Also, it can be utilized during batch submittal of ramp reservations
- No validations performed on save



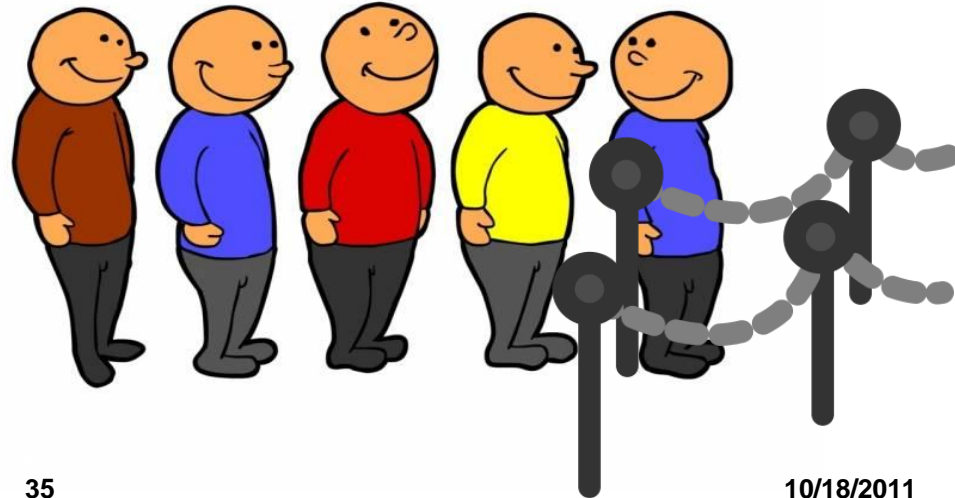
- Ramp Reservation: *Batch Submit*
 - Ability to submit multiple schedules at once
 - Multiple schedules evaluated against ramp
 - Only Denied, Working or In-Queue reservations can be batch submitted



- **Example**
 - Ramp limits show 500 MW available
 - Schedule 1: User wants to submit a 700 MW Import schedule from 07:00 – 23:00
 - Schedule 2: User also wants to submit a 700 MW Export schedule from 07:00 – 23:00
- Submitted separately, schedule 1 would be denied due to ramp, however if submitted together they will offset each other and pass ramp validation



- Ramp Reservation: *Ramp Queue*
 - Option on submittal
 - Continually evaluated against ramp
 - If passes, reservation moves to Pending Tag
 - Modifications can also be submitted into Ramp Queue



Ramp Reservation

The screenshot shows the PJM eSuite interface in Microsoft Internet Explorer. The browser address bar displays `https://esuite.stage.pjm.com/mui/index.htm`. The page title is "PJM eSuite - Microsoft Internet Explorer provided by PJM Interconnection".

The main content area features a reservation form with the following fields:

- Reservation ID: FE1933
- Name: [Empty]
- Outside ID: [Empty]
- Nerc Tag ID: [Empty]
- Owner: PECOEN
- Last Updated Agent: Peco Tester
- Last Updated Timestamp: Thu Jul 07 09:50:15 EDT 2
- Status: In Queue
- Path: FE-PJM

On the right side, there are "Views" (Single Day, Calendar) and "Edit" (Reservation, Reserve w/ Price, Two Settlement) buttons. A red exclamation mark icon is positioned above the "Reservation" button, with a red arrow pointing to it from a callout box.

The callout box contains the text: "Ramp violation message can be viewed in last action message".

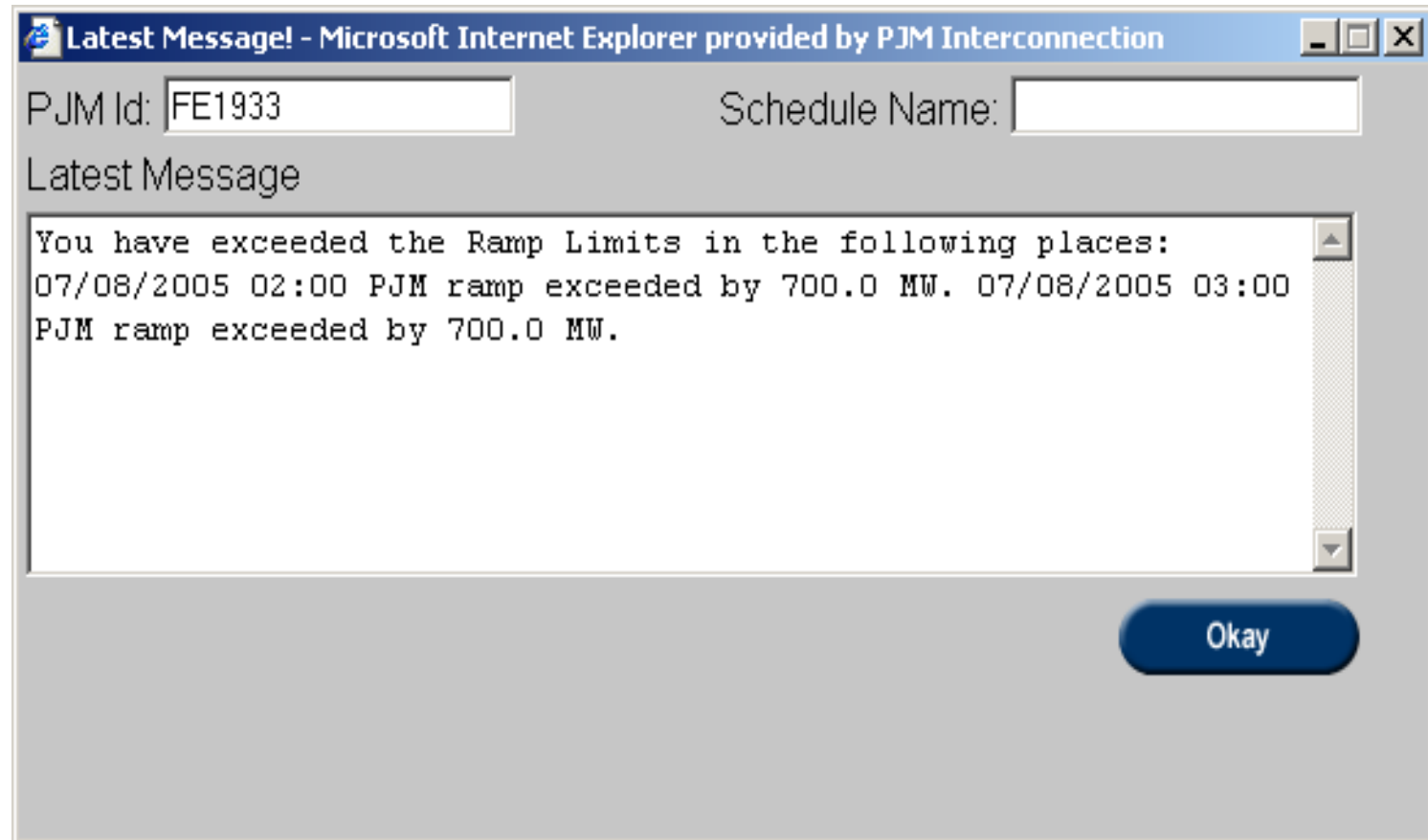
Below the form is a "Graphit" section with a table showing reservation details:

Start	Stop	MW
02:00	03:00	1100

Below the graph, the MWh value is 1100.0.

At the bottom, there are several action buttons: Create New, Retrieve, Comments, Check Ramp, Save, Submit, Withdraw in Queue, Withdraw Pending/Working, and Submit & Queue.

Ramp Reservation



- Ramp Reservation
- **Ramp Reservation with Price**
- Withdraw Ramp Reservation
- NERC Tagging
- NERC Tag Modifications
- Curtailments
- Reloads
- Automated Denial of Ramp Reservations
- FRP
- Two – Settlement
- Other



- Ramp Reservation with Price: *Evaluation*
 - Does not hold ramp
 - Requires NERC Tag
 - Dispatched by Generation Dispatcher based on price at interface



- Ramp Reservation with Price: *Timing Requirements*
 - Real-time product
 - Must be submitted by 12:00 noon, Day prior
 - Is not part of the Day-ahead market
 - Dispatched 30 minutes prior to next hour based on bid price
 - Must match linked tag exactly



- Ramp Reservation
- Ramp Reservation with Price
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- Withdraw Ramp Reservation
 - Ramp Reservations can be withdrawn at any time as long as they are not linked to a tag
 - User is allowed to withdraw Pending, In-Queue or Working ramp reservations at any time
 - To withdraw pending or working portion of a ramp reservation click on withdraw button
 - ALL pending or working portions of the ramp reservation will be withdrawn
 - To withdraw the in-queue portion of a ramp reservation click the in-queue withdraw button
 - ALL in-queue portions of the ramp reservation will be withdrawn
 - Withdraws do NOT need to pass ramp validation

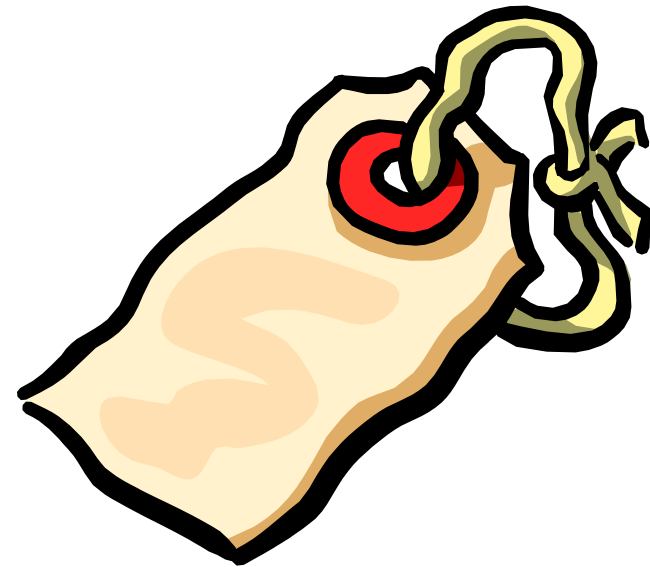


- Ramp Reservation
- Ramp Reservation with Price
- Withdraw Ramp Reservation
- **NERC Tagging**
- NERC Tag Modifications
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- NERC Tagging: *Path Validation*
 - Path on PJM TP line(s) must match that of Ramp Reservation and OASIS Reservation
 - Path built as POR + SE + POD

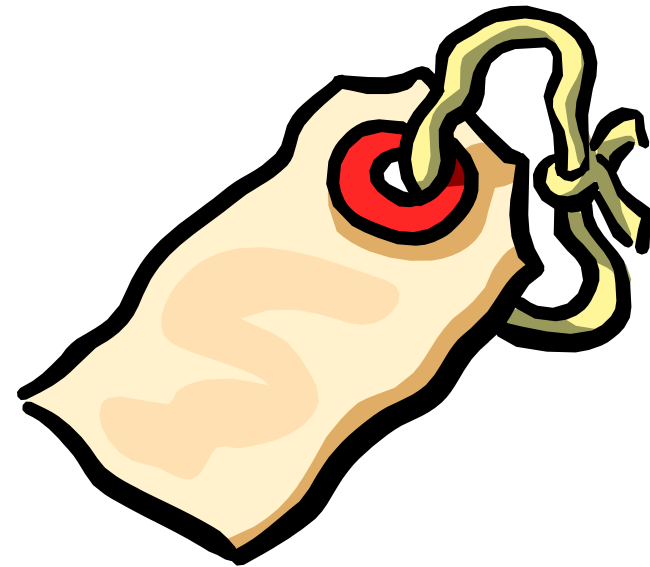
POD = Point of Deposit
POR = Point of Receipt
SE = Scheduling Entity
TP = Transmission Provider



- NERC Tagging: *Ramp Validation*
 - Ramp reservation must be in Pending Tag
 - Energy profiles should match
 - If not, the ramp reservation will be modified to tag profile, and re-evaluated
 - Associated with a tag by going to the Miscellaneous Fields and entering the following:
 - Token = RAMPRES
 - Value = *Reservation Number* (Ex. IPL1234)



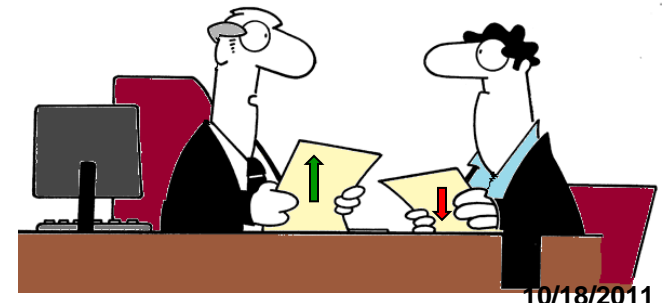
- NERC Tagging: *Auto Create Ramp*
 - If no Ramp reservation is specified on tag, one will be attempted to be created



- Ramp Reservation
- Ramp Reservation with Price
- Withdraw Ramp Reservation
- NERC Tagging
- **NERC Tag Modifications**
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- NERC Tagging: *Two Methods of Adjusting Tag*
 1. Adjust Tag and Ramp Reservation will be adjusted automatically
 - Allows market participant to make changes through tag system without touching EES
 2. Adjust Ramp Reservation first and Tag second
 - Ensures ramp will be validated prior to tag adjustment
 - If tag adjust doesn't match ramp reservation adjustment, the ramp reservation will be made to match the tag.



- Ramp Reservation
- Ramp Reservation with Price
- Withdraw Ramp Reservation
- NERC Tagging
- NERC Tag Modifications
- **Curtailments**
- Reloads
- Automated Denial of Ramp Reservations
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- **Curtailments:**

- **TLR**

- All IDC-issued curtailments that start on a quarter-hour interval will be automatically approved, regardless of their effect on PJM's net ramp.

- **PJM**

- All PJM-issued curtailments that start on a quarter-hour interval will be automatically approved, regardless of their effect on PJM's net ramp

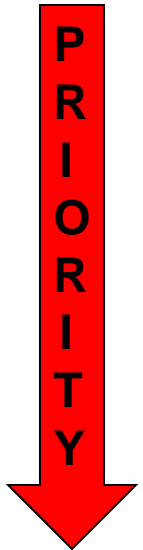
- **View Actuals**

- Allows market participant to view actual energy flowing on a particular tag



Curtailment Order

- **Non-Firm over Secondary Points not willing to pay congestion charges**
- **Non-Firm not willing to pay congestion charges**
- **Network Import not willing to pay congestion charges**
- **Spot Market Import**
- **Non-Firm over Secondary Points willing to pay congestion charges**
- **Non-Firm willing to pay congestion charges**
- **Network Import willing to pay congestion charges**
- **Firm (Holds the same priority as network service)**



- Ramp Reservation
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- **Reloads**
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- Reloads:

- **TLR**

- All IDC-issued reloads that start on a quarter-hour interval will be automatically approved, regardless of their effect on PJM's net ramp.

- **PJM**

- All PJM-issued reloads that start on a quarter-hour interval will be automatically approved, regardless of their effect on PJM's net ramp.



- Ramp Reservation
- Ramp Reservation with Price
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Automated Denial of Ramp Reservations

- Automated Denial of Ramp Reservations:
Reasons for Automated Denial
 - Ensures only intended schedules are in system
 - Prevent Ramp hoarding



Automated Denial of Ramp Reservations

Automated Denial of Ramp Reservations: *Timing Requirements*

Pending Tag Reservations		
Submission Time	Status	Length of time to hold reservation
Before 14:30 EPT One Day Prior to Start of Schedule	Reservation held in Pending Tag Status	Until 14:30 EPT One Day Prior to Start of Schedule
Reservation submitted 1 hour prior to the start of the schedule or less	Reservation held in Pending Tag Status	10 minutes
Reservation submitted more than 1 hour, but less than 4 hours prior to the start of the schedule	Reservation held in Pending Tag Status	15 minutes
Reservation submitted 4 hours or more prior to the start of the schedule	Reservation held in Pending Tag Status	90 minutes
In-Queue Reservations		
Reservation Duration	Time Before Start of Reservation Submitted	Length of time to hold reservation
<= 24 hours	Any time	Until 30 minutes prior to the start of the reservation
> 24 hours	Any time	Until 5 hours prior to the start of the reservation

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- Two – Settlement
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- Financially Responsible Party (FRP): *Approving Non-FRP Tags*
 - Ensures that PSE's can't submit a schedule that would hold another PSE financially responsible in PJM without their knowledge
 - PJM will hold off on approving or denying Tag request until FRP takes action in EES

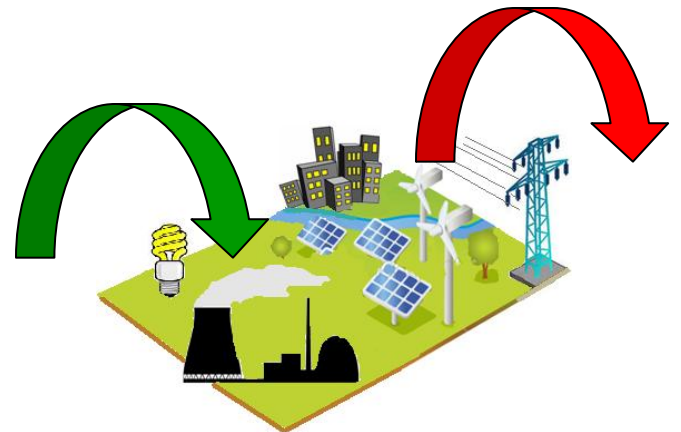


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- Other



Two-Settlement Fixed Transaction

- Can be:
 - Into PJM (Import)
 - Out of PJM (Export)
 - Through PJM (Wheel)
- Fixed MW schedule with no price attached
- Transaction is a “price taker”
- Ramp is cleared prior to passing to two settlement



Two-Settlement Dispatchable Transaction

- Can be:
 - Into PJM (Import looks like a dispatchable resource)
 - Out of PJM (Export looks like price-sensitive demand)
- MW schedule is determined by the two settlement software during the day-ahead market clearing process
- Requires a price to be specified
 - For imports, if LMP clears equal to or higher than the price specified the transaction will be accepted in the day-ahead market
 - For exports, if LMP clears equal to or below the price specified the transaction will be accepted in the day-ahead market
- Price must be consistent with \$1,000 MWH price cap
- Ramp is cleared after transaction is cleared by two-settlement software



Two-Settlement “Up-to-Congestion” Transaction

- Can be:

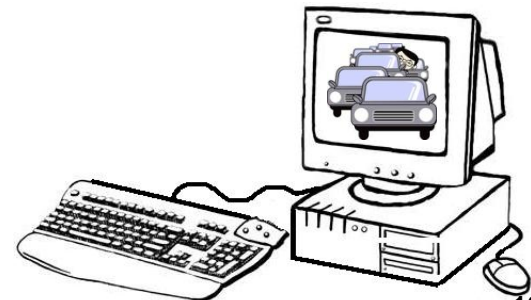
- Into PJM (Import)
- Out of PJM (Export)
- Through PJM (Wheel)



- MW schedule determined by the two settlement software based on the amount of congestion you are willing to pay
- Amount specified can be -\$50 to +\$50
- Ramp is cleared after transaction being cleared by two-settlement software
- Transaction is cleared based on the total LMP price difference between the source and sink
- “Up-to-Congestion” transactions are not modeled in the day-ahead commitment but are handled in the day-ahead dispatch
- PJM does not commit generation to support Up-to-Congestion transactions
- “Up-to-Congestion” required to be selected for OASIS

“Up-to-Congestion” on OASIS

- “Up-to-Congestion” on OASIS is **NOT** a transmission service reservation
- There are no transmission rights associated with this product
- Up-to-Congestion is available on the OASIS strictly for the purpose of allowing market participants to submit Up-to-Congestion bids into the Day-Ahead Energy Market
- Up-to-Congestion does not decrement ATC
- Serves as a mechanism to relay necessary information needed for an Up-to-Congestion bid
- Up-to-Congestion is not charged and does not receive any credited allocations



- Transaction Pricing requires additional information to be supplied by the market participant entering a schedule including:
 - OASIS Reservation must be attached
 - Pricing Point(s) must be selected
 - The pricing point (or pricing point combination) selected must match the direction of the OASIS reservation
 - Import – Requires Import Pricing Point
 - Export – Requires Export Pricing Point
 - Wheel – Requires Import and Export Pricing Point



Mapping of External Control Areas to Interface Pricing Points

- All external control areas are mapped to one pricing point relative to the PJM footprint.

CPLEIMP
CPLEEXP
DUKIMP
DUKEXP
IMO
LINDENVFT
MICHFE
MISO
NCMPAIMP - Available only for EES two-settlement transactions
NCMPAEXP - Available only for EES two-settlement transactions
NEPTUNE
NIPSCO
NORTHWEST
NYIS
OVEC
SOUTHEAST – Available only for EES two-settlement transactions
SOUTHIMP
SOUTHEXP
SOUTHWEST – Available only for EES two-settlement transactions

Control Area Pricing Points

<http://www.pjm.com/markets-and-operations/etools/~media/etools/ees/pricing-point-guide.ashx>

NERC Acronym	Control Area	Pricing Point Group
GREN	Great River Energy	NORTHWEST
GRES	Great River Energy	NORTHWEST
GRMA	Gila River Maricopa Arizona	NORTHWEST
GSOC	Georgia System Operations Corporation	SOUTHEAST
GTC	Georgia Transmission Corporation	SOUTHEAST
GVL	Gainesville Regional Utilities	SOUTHEAST
HE	Hoosier Energy	SOUTHWEST
HGMA	Harquahala L.L.C.	NORTHWEST
HQT	Hydro-Quebec, TransEnergie	NYIS
HST	City of Homestead	SOUTHEAST
IID	Imperial Irrigation District	NORTHWEST
INDN	City of Independence P&L Dept.	SOUTHWEST
IP	Illinois Power Co.	SOUTHWEST
IPCO	Idaho Power Company	NORTHWEST
IPL	Indianapolis Power & Light Company	NORTHWEST
IPRV	Illinois Power Company	NORTHWEST
ISNE	ISO New England Inc.	NORTHWEST
JEA	JEA	NORTHWEST
KACY	Board of Public Utilities	NORTHWEST
KCPL	Kansas City Power & Light, Co	NORTHWEST
LAFA	Lafayette Utilities System	NORTHWEST

**Online
List and
Calculator
For Your
Reference!**

> Home > eTools > Documentation > Pricing Point Calculator

Pricing Point Calculator

Generation Control Area (GCA)

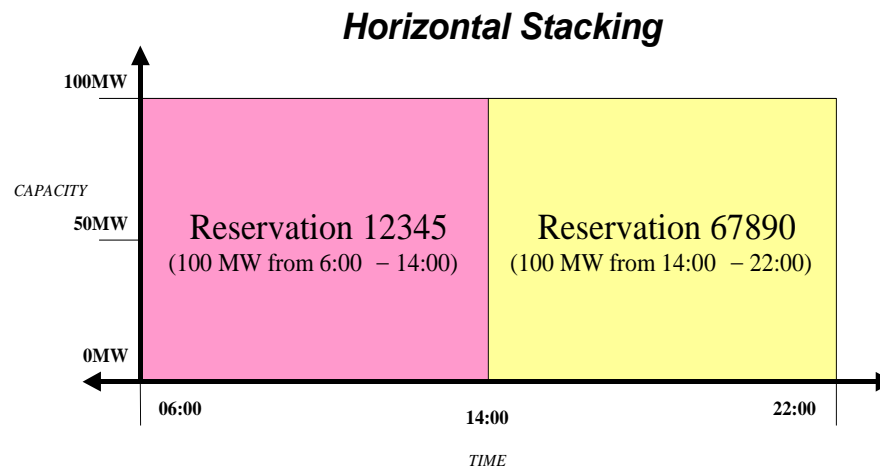
Load Control Area (LCA)

- Ramp Reservation
- Ramp Reservation with Price
- Withdraw Ramp Reservation
- NERC Tagging
- NERC Tag Modifications
- Curtailments
- Reloads
- Automated Denial of Ramp Reservations
- FRP
- Two – Settlement
- **Other**



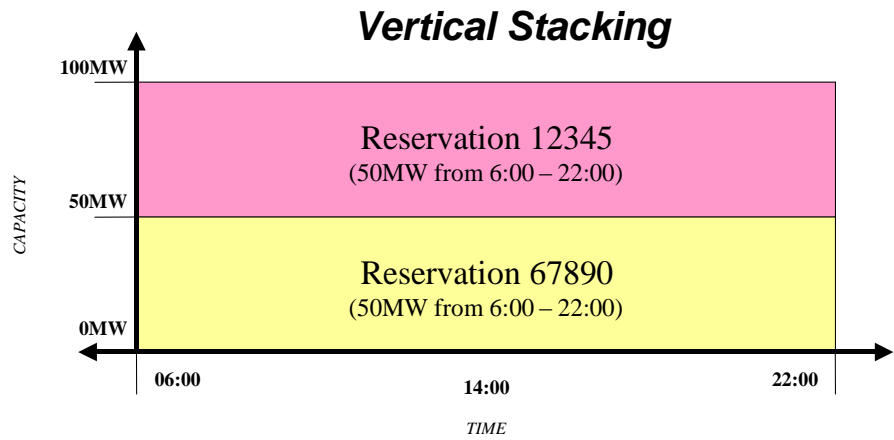
- Other:
 - **Transmission Stacking**
 - Ramp Viewer
 - Allows Ramp and Ramp Limits to be viewed by market participants
 - ATC Viewer
 - View into OASIS showing available ATC on specific paths
 - Buy OASIS
 - Allows market participants to purchase OASIS from PJM OASIS node through EES
 - Customer Reports
 - Allows market participants to view all Tags/Schedules for a particular period of time

- “Stacking” transmission reservations describes how multiple reservations can be attached to a single energy reservation
 - Horizontal Stacking
 - Attach multiple OASIS reservations to a single energy schedule
 - Each reservation is attached to a different set of hours on the schedule



– Vertical Stacking

- Apply multiple reservations on a single energy schedule within the same hour
- **NOT SUPPORTED IN THE PJM CONTROL AREA**



- Other:
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 - **Ramp Viewer**
 - **Allows Ramp and Ramp Limits to be viewed by market participants**
 - ATC Viewer
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Click to view ramp limits and available ramp

eSUITE > Login > Upload > E-mail

EES

Select Status:

Approved In Ramp Queue Requested

Denied Working Invalid

Pending Tag Pending OASIS

Sort Refresh

Tao Status	Ramp ID	Path	Name	Outside ID	Ramp Status	Start Date	End Date
------------	---------	------	------	------------	-------------	------------	----------

Client Tools

Organizer

Reserve Ramp

Ramp Viewer

ATC Viewer

Buy OASIS

Create New Retrieve Download Reports FRP Monitor Batch Submit Submit

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Address: <https://testweb.pjm.com/mui/>

eSUITE > Login > Upload > E-mail

Create View

Select Date:
From:
To:

Select Status:
 Approved In Ramp Queue Requested
 Denied Working Invalid
 Pending Tag Pending OASIS

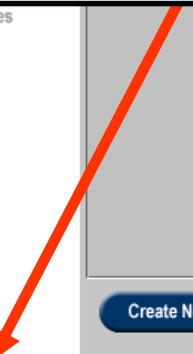
Sort
Refresh

Tao Name	Tao Status	Ramp ID	Path	Name	Outside ID	Ramp Status	Start Date	End Date
----------	------------	---------	------	------	------------	-------------	------------	----------

Client Tools
Organizer
Reserve Ramp
Ramp Viewer
ATC Viewer
Buy OASIS

Create New Retrieve Download Reports FRP Monitor Batch Submit Submit

Click to view ATC



- Other:
 - Transmission Stacking
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Click to Buy OASIS

eSUITE > Login > Upload > E-mail

EES

Select Status:

Approved In Ramp Queue Requested

Denied Working Invalid

Pending Tag Pending OASIS

Sort

Refresh

Tag Name	Tag Status	Ramp ID	Path	Name	Outside ID	Ramp Status	Start Date	End Date

Create New Retrieve Download Reports FRP Monitor Batch Submit Submit

- > CAM
- > eCapacity
- > eData
- > eSuite Messages
- > Load Response
- > NICCapacity
- > OASIS
- Non - eSuite Tools
- > eDART
- > eGADS
- > eFuel
- > Emerg. Procedures

- Client Tools
- Organizer
 - Reserve Ramp
 - Ramp Viewer
 - ATC Viewer
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The screenshot shows a web browser window with the address <https://testweb.pjm.com/mui/>. The page title is "eSuite" and it features a navigation menu on the left with categories like CAM, eCapacity, eData, EES, eFTR, eMKT, eMTR, eSchedules, eSuite Messages, Load Response, NICCapacity, OASIS, Non - eSuite Tools, eDART, eGADS, eFuel, and Emerg. Procedures. The main content area is titled "Create View" and includes a "Select Date:" section with "From:" and "To:" fields both set to "07/06/2005". A "Select Status:" section has checkboxes for "Approved", "Denied", "Pending Tag", "In Ramp Queue", "Working", "Requested", and "Invalid". There are "Sort" and "Refresh" buttons. Below this is a table with columns for "Tag Name", "Tag Status", "Ramp ID", "Path", and "Name". At the bottom of the page, there is a row of buttons: "Create New", "Retrieve", "Download", "Reports", "FRP Monitor", "Batch Submit", and "Submit". A red arrow points from a light blue box labeled "Reports button" to the "Reports" button.

Questions?



PJM Member Relations

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email: <http://www.pjm.com/about-pjm/who-we-are/contact-us.aspx>

