

Scheduling (PSS) and OASIS Customer Training

February 7th and 12th 2013

Time Line

- **Customer Testing**

- Started 1/8/2013 – 2/28/2013

- webTrans: <https://dev.miso.oati.com>
 - webOASIS: <https://demo.oasis.oati.com>
 - Demo Tagging: <https://demo.tag.oati.com>
 - XML: https://dev.miso.oati.com/sched_miso/mes/xml/sched-mes-soap-entrypoint.wml

- **Training Dates**

- February 7th and 12th by MISO via Webcast

- **FERC Filing**

- **Launch Dates**

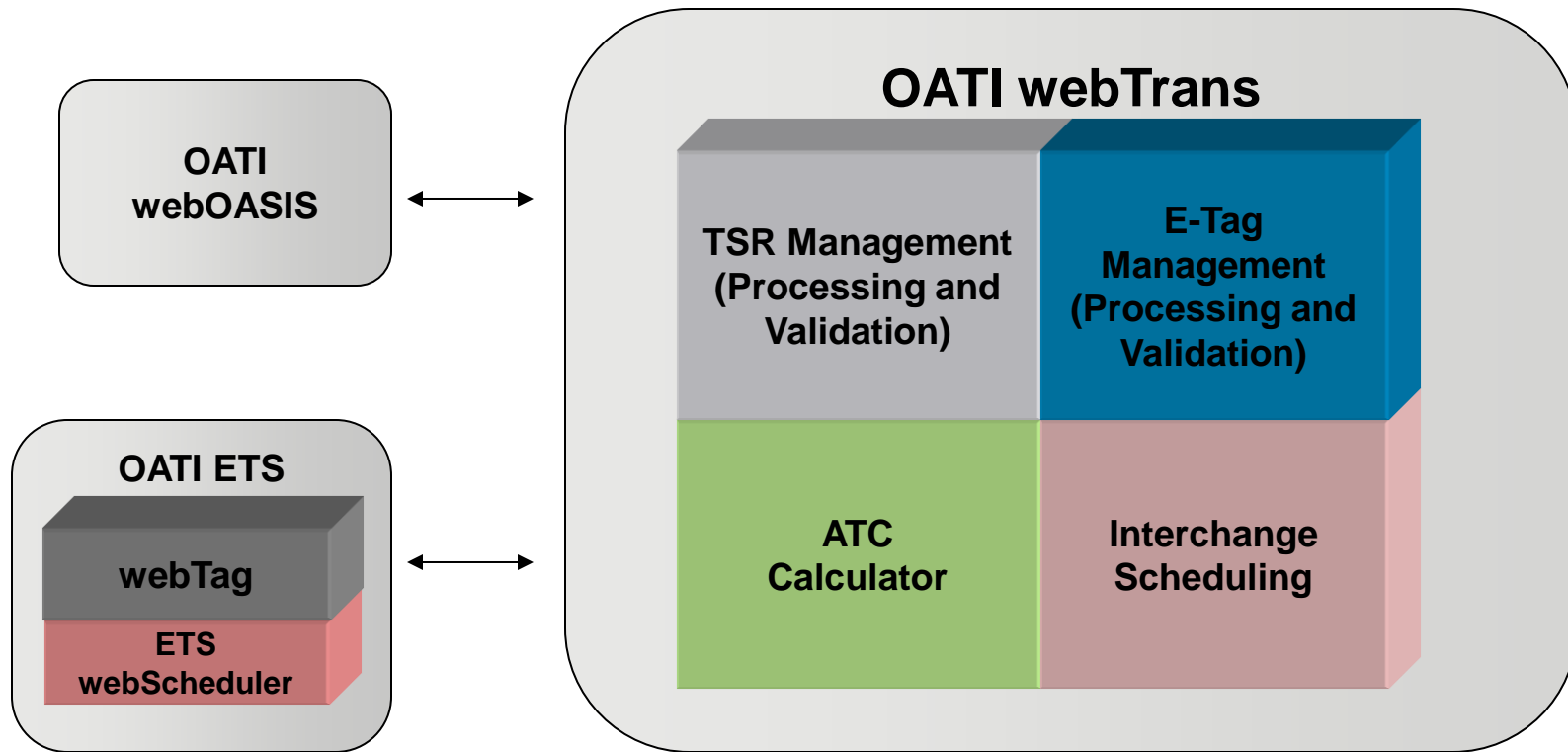
- Scheduling System
 - OASIS System

Production URL

Production URL's

- **webTrans**
 - <https://www.miso.oati.com>
- **XML**
 - https://www.miso.oati.com/sched_miso/mes/xml/sched-mes-soap-entrypoint.wml
- **webOASIS**
 - <https://www.oasis.oati.com>
- **webTag (DOES NOT CHANGE)**
 - <https://www.tag.oati.com/>

System Overview



Scheduling Topics of Discussion

- **System Access**
- **Actual Interchange/Tie Data**
- **XML functions**
- **MP approval**
- **Dynamic Schedule Update**
- **Market Clearing Screen**

Current PSS Access

Current System Access

- **PSS stands for 53 after webTrans launch**
 - Allows LBA's to update NAI and Dynamic values
 - After 53 days the GUI will be taken off line
- **MISO OASIS stands for 91 days after OATI OASIS launch**
 - After 91 days the system will be taken off line
 - Archived data posted on the MISO OASIS will not be transferred to the OATI OASIS unless still needed
- **MISO portal**
 - Customers will have the ability to access both PSS and webTrans during this period
 - webOASIS will also be available on the MISO Portal

webTrans Access



webTrans Access

- **webTrans and webOASIS**
 - OATI manages system access
 - OATI cert is required
 - LSO to contact OATI help desk for user name and password
 - 763-201-2020
 - LSO will create access for company in DEV
- **webTrans Dev user accounts will be copied to Production**
- **OATI can provide documentation on how to create accounts.**

Actual Interchange = Tie Data

Actual Interchange = Tie Data

Current view

Actual Interchange (08/05/2012 EST, Ref=GRE)

Date: 08/05/2012 Time Zone: ES Reference: GRE Counter CA: ALL Enter

Audit Trail Excel Close

		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	In	78	73	72	71	71	72	72	78	84	87	87	39	89	89	90	92	93	97	97	97	95	94	87	8
	Out	112	122	116	86	81	79	69	29	23	25	24	17	14	14	14	16	13	8	5	6	5	6	11	1
	Net	34	49	44	15	10	7	-3	-49	-61	-62	-63	-72	-75	-75	-76	-76	-80	-89	-92	-91	-90	-88	-76	-6
	CheckOut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	In	21	21	15																					
	Out				10	20	30	34	51	55	58	61	60	62	60	63	64	68	70	71	64	61	66	80	7
	Net	-21	-21	-15	10	20	30	34	51	55	58	61	60	62	60	63	64	68	70	71	64	61	66	80	7
	CheckOut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	In	216	193	179	175	175	179	192	217	250	263	267	265	264	261	256	252	260	269	273	269	264	268	245	23
	Out	9	7	7	6	7	6	7	8	8	10	10	11	9	11	9	8	10	11	9	10	10	9	10	
	Net	-207	-186	-172	-169	-168	-173	-185	-209	-242	-253	-257	-254	-255	-250	-247	-244	-250	-258	-264	-259	-254	-259	-235	-22
	CheckOut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

New look

CE	Actual Interchange	Note	MWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Audit
Hourly Totals		Net		-613	-524	-480	-484	-500	-511	-527	-573	-573	-585	-637	-706	-774	-811	-828	-776	-671	-686	-818	-819	-784	-757	-792	-671	-15900	
DPC	Actual Interchange	Note	MWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Audit
Hourly Totals		Net		-157	-162	-172	-172	-179	-176	-174	-156	-163	-171	-145	-140	-115	-100	-95	-68	-58	-55	-56	-49	-12	-26	-49	-34	-2684	
MGE	Actual Interchange	Note	MWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Audit
MGE-ALTE		<input checked="" type="checkbox"/>	Net	96	77	68	62	58	58	68	79	93	100	116	124	139	139	151	143	144	156	185	177	171	150	131	105	2790	
Hourly Totals		Net		96	77	68	62	58	58	68	79	93	100	116	124	139	139	151	143	144	156	185	177	171	150	131	105	2790	
NSP	Actual Interchange	Note	MWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Audit
Hourly Totals		Net		-179	-233	-270	-272	-268	-258	-247	-207	-270	-280	-238	-248	-214	-169	-142	-103	-96	-91	-94	-77	0	-20	-88	-98	-4162	
WEC	Actual Interchange	Note	MWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Audit
WEC-ALTE		<input checked="" type="checkbox"/>	Net	1004	994	970	976	957	933	864	866	918	946	935	992	986	974	962	859	722	684	642	609	548	580	696	657	20274	
Hourly Totals		Net		1004	994	970	976	957	933	864	866	918	946	935	992	986	974	962	859	722	684	642	609	548	580	696	657	20274	
WPS	Actual Interchange	Note	MWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	Audit
Hourly Totals		Net		-90	-158	-120	-82	-95	-94	-123	-151	-145	-157	-170	-172	-181	-214	-236	-251	-245	-237	-213	-242	-296	-334	-282	-254	-4542	
Grand Totals		Net		61	-6	-4	28	-27	-48	-139	-142	-140	-147	-139	-150	-159	-181	-188	-196	-204	-229	-354	-401	-373	-407	-384	-295	-4224	
Other Data		NAI with First Tier		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		NAI from EMS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Meter Error		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MIS

Tie Data Screen

- **The Screen Location:**
 - Scheduling → Inadvertent → Tie Data
- **Filter**
 - Container and Ref. Entity would be your Company
 - Ex: Container ALTE Ref Entity ALTE
 - This would enable ALTE values to populate in the screen
- **Net Actual Interchange can be loaded one of two ways**
 1. XML
 2. Manual upload

XML Specification

MP Approval



MP Approval

- Since MISO Energy Market start, MISO has required approval by the Market Participant of every physical schedule.

Current view

Schedules - webTrans Version 3.8.01 - Windows Internet Explorer

[Schedule Approval](#) |
 [Daily Schedules](#) |
 [Schedule Summary](#) |
 [Schedule Detail](#) |
 [Audit Trail](#)

Proposed/Revised Schedules for MISO


Category: Schedule Code: Status:

Category	Tag Status	Tag Timer	Timer ↓	Schedule Code	Validation	MP	CCA	LCA	PSE	TP	TP 2	CA1	CA2	1stTier In	1stTier Out	Market	
PROP	PENDING	9:05	11:05	0011561	P		AECI	MISO	APMM1	MISO		MISO		AECI		Realtime	0
P ADJ	IMPLM	1:39:05	1:41:05	SIMR010 *	F		OVEC	MISO	OVPSCS	MISO		MISO		LGEE		DA/RT	0
PROP	PENDING	1:48:05	1:50:05	BP33851	F		ONT	PJM	BEMLP1	MISO		MISO		ONT	PJM	Realtime	0
P ADJ	IMPLM	1:49:05	1:51:05	0565876	P		SPA	MISO	WRGSRT	MISO		MISO		SPA		DA/RT	0

MP Approval

- **MISO has since redefined this field. MISO will now consider the approval of the MISO Transmission Owner of the E-tag implicit in the approval of the Market Participant.**
- **No additional approval in webTrans will be used.**

E-tag view

Request Status								
Company	Role	Request Approval Time	Entity Approval Time	Agent/ Approval	Approval State	Approval Type	Delivery State	Approval Rights
MISO	SC		2013-02-07 09:26:23		N/A		Delivered	No
ONT	SC		2013-02-07 09:26:23		N/A		Delivered	No
MISO	GCA, SCA		2013-02-07 09:26:23	Internal	APPROVED	Active	Delivered	Yes
ONT	LCA, SCA		2013-02-07 09:26:23	Internal	APPROVED	Active	Delivered	Yes
MISO	TP		2013-02-07 09:26:23	Internal	APPROVED	Active	Delivered	Yes
ONT	TP		2013-02-07 09:26:23	Internal	APPROVED	Active	Delivered	Yes
	LSE, TX Cust, Author		2013-02-07 09:26:23	Internal	APPROVED	Active	Delivered	Yes
MISO	GPE		2013-02-07 09:26:23	Internal	APPROVED	Active	Delivered	Yes



Dynamic Schedules

Dynamic Schedules

- **LBA's can update Dynamic schedules three ways**
 1. Via the tag after the fact*
 2. XML String
 3. Manual via the GUI
- **Dynamic Schedule Location**
 - Scheduling → Schedules → Daily Schedules or
 - Scheduling → Schedules → Schedule Search

Market Clearing Screen



Market Clearing

Current View

Market Participant Schedules (06/29/2010), TZ = ES

Date: 06/29/2010 TimeZone: ES MP: All Type: ALL Status: Active
 Start Hour: 1 End Hour: 24 Market Type: ALL Name: Enter

Bid/Offered MW
 Cleared MW
 Real Time MW

Excel Close

Schedule Name	MP	Type	Market	Status	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22
[Redacted]		Energy	RT	Active	48	48	48	48	48	48	48	48	36	0	0	0	0	0	0	0	0	0	0	0	0	0
[Redacted]		Energy	RT	Active	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
[Redacted]	APMM1	Energy	RT	Active	48	48	48	48	48	48	48	48	36	0	0	0	0	0	0	0	0	0	0	0	0	
[Redacted]	EXGNPT	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	30	48	48	0	0	0	0	0	0	0	0	
[Redacted]	TNSKDL	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

New look

OATI webTrans(miso) MISO MISO.TabithaHernan

Scheduling Oasis Tag Validation Data Misc webTag webOASIS Logout Debug Window

webTrans Dashboard x Tie Data x Schedule Search x Schedule Summary x Market Clearing x No Alarms! Wed 2/6 10:24 PM

GATI Market Clearing Date: Today (02/06/2013) Start Hour: 1:00 End Hour: 24:00 Time Zone: Default

Schedule Name	MP	Type	Market	Status	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
[Redacted]	AMUE01	Energy	DA/RT	Active	0	0	0	0	0	0	0	11	11	11	11	11	11	11	0	0	0	11	11	11	11	
[Redacted]	APMM1	Energy	RT	Active	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
[Redacted]	APMM1	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
[Redacted]	APMM1	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	50	0	0	0
[Redacted]	APMM1	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	50	0	0	0
[Redacted]	APMM1	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	16
[Redacted]	APMM1	Energy	RT	Active	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	16
[Redacted]	APMM1	Energy	RT	Active	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	



Scheduling → Schedules → Market Clearing

OASIS Topics of Discussion

- **OASIS**
- **Attachment J**
- **Simultaneous Submission Window**
- **NITS on OASIS**
- **TSR Summary and AFC Evaluation**
 - Submitting a TSR
 - AFC/ASTFC/ATC Evaluation Reports
- **Scenario Analyzer**
- **PreEmption and Competition Overview and Report**
- **System Data Postings**

MISO Home Page



Attachment J

Attachment J

Appendix A – Timing Requirements [1]												
TRANSMISSION PROVIDER/ITC ATTACHMENT J												
TRANSMISSION		REQUESTS					RESPONSE					
Service Type	Term	Start time	Min Term	Max Term	No Later Than	No Earlier Than	MISO Response [7]	Determine Available Capacity	System Impact Study	Customer Confirmation [2]	Scheduling Timing Requirements	
											Day-Ahead Market	Real-Time Only
Firm	Long-term	1st day of any month 0:00 EST	1 year	n/a	60 days prior	N/A	24 hours	30 days	60 days	15 days[3]	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Firm	Monthly	1st day of any month 0:00 EST	1 month	11 months	14 days prior	17 months prior	1 hour	7 days	60 days	7 days	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Firm	Weekly	Monday 0:00 EST	1 week	3 weeks	7 days prior	60 days prior	1 hour	2 Business Days [4]	N/A	48 hours	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Firm	Daily	0:00 EST	1 day	6 days	13:00 EST day prior	14 days prior	Best Effort	4 Bus. hours / 14:00 EST day prior for next day service	N/A	2 hours [5]	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Non-Firm	Monthly	1st day of any month	1 month	11 months	2 days prior	60 days prior	1 hour	12 hours	N/A	24 hours	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Non-Firm	Weekly	Monday 0:00 EST	1 week	3 weeks	30 hrs prior	14 days prior	1 hour	4 hours	N/A	24 hours	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Non-Firm	Daily	0:00 est	1 day	6 days	6:00 EST day prior	3 days prior	1 hour	30 minutes	N/A	2 hours	11:00 EST	30 minutes prior to start of schedule and prior to start of hour
Non-Firm	Hourly	Start of hour	1 hour	23 hours	intra-hour [6]	6:00 EST day prior	Best Effort	Best effort	N/A	30 minutes	11:00 EST	30 minutes prior to start of schedule and prior to start of hour

[1] The Transmission Provider, in its discretion exercised on a non-discriminatory basis, may waive any of these requirements.

[2] For transactions not covered by an umbrella service agreement, the customer response must be execution of a service agreement or a request that an unexecuted service agreement be filed with the Commission pursuant to Module B, Section 15.3 of this Tariff.

[3] During Rollover Request competition, the Rollover Request customer shall have three (3) business days to confirm a matching request.

[4] MISO Business Hours are 8:00am-5:00 (EPT) Monday-Friday excluding MISO Holidays.

[5] Firm Daily for a single day that is submitted more than 24 hours in advance of the start time has a 24 hour customer confirmation time.

[6] While deadlines prevent scheduling of transmission service 30-minutes prior to the start time of the transaction, transmission may be purchased for a full hour and scheduled on a partial hour basis.

[7] Five-Minute Window Batch Evaluation will be used for all similar NF and Short-Term Firm PtP, except for Hourly service. Similar reservations will be evaluated as one request and will be awarded pro-rata if necessary.



Simultaneous Submission Window - SSW



Simultaneous Submission Window - SSW

- **FERC Order 890** requiring TP's that have established a *'no earlier than clause'* for a firm service taken under OATT are to provide a time window when service is first eligible to be requested and treat all service requests received within the window as having been submitted simultaneously
- **MISO Firm services affected are the following**
 - Daily, Weekly, and Monthly
- **Window time for MISO is 5 minutes**
- **Service will be awarded in a Customer Allocation 'Lottery' methodology for awarding of transmission capacity to qualified TSR.**

SSW continued

- **The lottery is conducted for all qualified submissions to establish the order in which the TSRs will be processed in the queue based on the following:**
 - Separated into different priority tiers
 - NERC Curtailment Priority
 - Duration
 - Pre-Confirmed Status
 - For each set of requests of LIKE priority
 - Assign a customer selection order at random from the set of distinct customers that have submitted TSR's within that priority tier
 - Round-Robin basis is used to assign each qualified TSR a lottery queue position

SSW continued

- **Once all TSRs have been assigned a lottery order, webTrans will allocate AFC to TSRs in lottery order**
 - If AFC is available for all TSRs, each TSR will 'PASS' the AFC Validation
 - If AFC is not available for all TSRs, one TSR could be counteroffered based on AFC and remaining TSRs will 'FAIL' AFC Validation

AFC = 10MW

TSR1 impact 5MW – PASS AFC Validation

TSR2 impact 4MW – PASS AFC Validation

TSR3 impact 3MW – Counteroffered for 1MW

TSR4 impact 2MW – FAIL AFC Validation

NITS on OASIS

- **webTrans Functionality for NITS on OASIS**
- **Will not go live with system launch**
- **Training will be offered before functionality is enabled**

TSR Summary and AFC Evaluation

AFC Evaluation – Navigation to TSR Summary

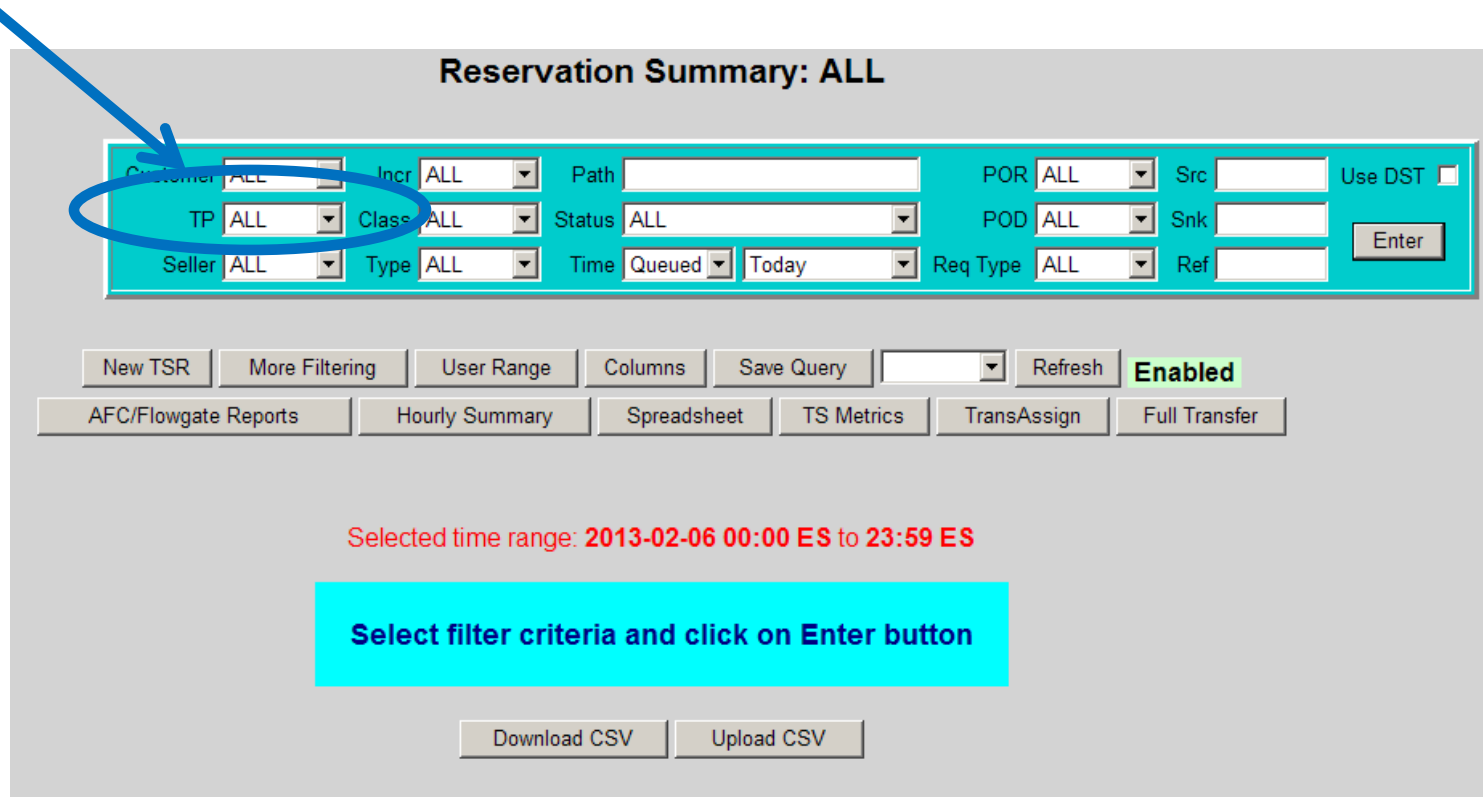
- Select tab 'Reservations' to view TSR Summary



The screenshot shows the MISO Transmission website interface. At the top, there is a navigation menu with various tabs. The 'Reservations' tab is highlighted with a blue circle and a blue arrow pointing to it. Other tabs include 'Sys Data', 'Offerings', 'Resale', 'NITS/NLS', 'Reductions', 'Data', 'Company', 'Home', 'Help', 'Logout', 'Ancillary', 'Offerings', 'Security', 'Deals', 'CG Deals', 'Schedules', 'Notices', 'User', 'Bulletin', 'Options', and 'Auction'. The user is identified as 'MISO.CliffRisley' and the date is '02-06 20:53 ES'. Below the navigation menu, there are buttons for 'Admin Control', 'Regenerate Public Page', and 'Help'. The main content area displays 'Welcome to MISO Transmission' and several links: 'Transmission Information', 'Tariff', 'System/General Information', 'Generation Information', and 'MISO Help'. On the left side, there is a 'Documents' section with a 'Select Provider' dropdown, 'Documents', 'AdminView', and 'Special Postings' buttons, and a list of document categories including 'NAESB Home Page', 'Outages', 'Standards of Conduct', 'Performance Metrics', 'Business Practices, Waivers, and Exemptions', 'ATC Information', 'OASIS Notices', 'OATI', and 'Test Script'.

AFC Evaluation – Reservation Summary

- Reservations displayed will be based on filter criteria.
- Set TP to MISO to view MISO TSRs



The screenshot shows the 'Reservation Summary: ALL' interface. A blue arrow points to the 'TP' dropdown menu, which is currently set to 'ALL'. Other filter criteria include Customer (ALL), Incr (ALL), Path, POR (ALL), Src, Use DST (checkbox), Class (ALL), Status (ALL), POD (ALL), Snk, Seller (ALL), Type (ALL), Time (Queued), Today, Req Type (ALL), and Ref. Below the filters are buttons for 'New TSR', 'More Filtering', 'User Range', 'Columns', 'Save Query', 'Refresh', and 'Enabled'. A row of buttons includes 'AFC/Flowgate Reports', 'Hourly Summary', 'Spreadsheet', 'TS Metrics', 'TransAssign', and 'Full Transfer'. A red text message indicates the selected time range: '2013-02-06 00:00 ES to 23:59 ES'. A blue box contains the instruction: 'Select filter criteria and click on Enter button'. At the bottom are 'Download CSV' and 'Upload CSV' buttons.

AFC Evaluation – Reservation Summary

- Reservations displayed will be based off filter criteria.
- Set TP to MISO to view MISO TSRs

Pricing MISO

Update MISO Info

Customer ALL Incr ALL Path

TP MISO Class ALL Status ALL

Seller ALL Type ALL Time Queued Today

POR ALL Src Use DST

POD ALL Snk

Req Type ALL Ref

Enabled

Selected time range: 2013-02-06 00:00 ES to 23:59 ES

Assign Ref	TP	Customer	MW Req	MW Grant	Source	Sink	POR	POD	Service	Increment	Type
70266805	MISO	MISO	100		CIN.08NOBSN1	TVA	CIN	TVA	DAILY FIRM PTP	DAILY	POINT_TO_POINT
70266786	MISO	MISO	15		EDE	EDE	EDE	EDE	DNF PTP	DAILY	POINT_TO_POINT
70266785	MISO	MISO	25		AECI	AECI	AECI	AECI	MONTHLY FIRM PTP	MONTHLY	POINT_TO_POINT
70266782	MISO	MISO	15		EES	EES	EES	EES	DAILY FIRM NETWORK DES	DAILY	NETWORK
70266781	MISO	MISO	15		EDE	EDE	EDE	EDE	DAILY FIRM NETWORK DES	DAILY	NETWORK

AFC Evaluation – New TSR

- Select 'New TSR' to submit a TSR

Selected time range: 2013-02-06 00:00 ES to 23:59 ES

Assign Ref	TP	Customer	MW Req	MW Grant	Source	Sink	POR	POD	Service	Increment	Type
70266805	MISO	MISO	100		CIN.08NOBSN1	TVA	CIN	TVA	DAILY FIRM PTP	DAILY	POINT_TO_POINT
70266786	MISO	MISO	15		EDE	EDE	EDE	EDE	DNF PTP	DAILY	POINT_TO_POINT
70266785	MISO	MISO	25		AECI	AECI	AECI	AECI	MONTHLY FIRM PTP	MONTHLY	POINT_TO_POINT
70266782	MISO	MISO	15		EES	EES	EES	EES	DAILY FIRM NETWORK DES	DAILY	NETWORK
70266781	MISO	MISO	15		EDE	EDE	EDE	EDE	DAILY FIRM NETWORK DES	DAILY	NETWORK

AFC Evaluation – Submitting TSR

- Select 'MISO' as the Provider to start

The screenshot shows the AFC Evaluation web application interface. A blue arrow points to the 'MISO' dropdown menu in the 'Seller' field, which is circled in blue. The interface includes various input fields, buttons, and a reservation profile section.

Buttons: Scenario Analyzer, Enter TSR, Clear Form, Save As Template, Close

Fields:

- Seller:** MISO (selected)
- Source Sink:** (empty)
- POR POD:** (empty)
- Service:** (empty)
- Request Type:** ORIGINAL
- Start:** 02/06/2013, ES, 22:00
- Stop:** 02/06/2013, ES, 23:00
- MW:** (empty)
- Bid Price:** (empty)
- Customer:** MISO
- Path:** (empty)
- Preconfirmed:**
- Asset Owner:** (empty)

Reservation Profile:

- 25Hr
- 24Hr
- H
- D
- W
- M
- Y
- Other
- Peak

Other Fields:

- Posting Ref: (empty)
- Sale Ref: (empty)
- Deal Ref: (empty)
- Request Ref: (empty)
- Related Ref: (empty)
- Comment: (empty)
- Status Notification: mailto: (empty)

AFC Evaluation – Submitting TSR

- Enter required fields:

The screenshot shows a web form for submitting a TSR. The form is divided into several sections. The top section contains navigation buttons: 'MISO', 'Select Provider', 'Scenario Analyzer', 'Enter TSR', 'Clear Form', 'Save As Template', and 'Close'. Below this is a main form area with the following fields and sections:

- Seller:** A dropdown menu showing 'MISO'.
- Source Sink *:** A dropdown menu with a blue circle around it.
- POR POD:** A dropdown menu with a blue circle around it.
- Service *:** A dropdown menu with a blue circle around it.
- Request Type:** A dropdown menu showing 'ORIGINAL'.
- Start:** A date and time selector showing '02/06/2013' at '22:00' with a blue circle around it.
- Stop:** A date and time selector showing '02/06/2013' at '23:00' with a blue circle around it.
- MW:** A dropdown menu with a blue circle around it.
- Bid Price:** A text input field with a 'Get Price' button next to it.
- Customer:** A dropdown menu showing 'MISO'.
- Asset Owner:** A dropdown menu with a blue circle around it.
- Path *:** A dropdown menu with a blue circle around it.
- Preconfirmed:** A checkbox that is currently unchecked.

Below the main form area, there are two sections:

- Reference Fields:** A series of input fields for 'Posting Ref', 'Sale Ref', 'Deal Ref', 'Request Ref', 'Related Ref', 'Comment', and 'Status Notification' (with a 'mailto:' dropdown).
- Reservation Profile:** A section with radio buttons for '25Hr', '24Hr', 'H', 'D', 'W', 'M', 'Y', 'Other', and 'Peak'. The 'H' option is selected. A 'Create' button is located below these options.

AFC Evaluation – Submitting TSR

- Entering a POR and POD will default the Path
- *Remember Drive-In and Drive-Out TSRs now have a MISO Path!**

The screenshot shows the MISO Reservations system interface. At the top left, there is a 'MISO Time Zone' dropdown menu set to 'ES'. Below this, there are several buttons: 'MISO' (dropdown), 'Select Provider', 'Scenario Analyzer', and 'Enter TSR'. The main form area is divided into several sections:

Seller	Source Sink *	POR POD	Service *
MISO		AMIL PJM	

Below the table, there are two more sections:

Customer	Path *
MISO	MISO-PJM

At the bottom, there is an 'Asset Owner' dropdown menu.

A blue oval highlights the 'POR', 'POD', and 'Path' fields, indicating that entering a POR and POD will default the Path.

AFC Evaluation – Submitting TSR

- After completing the required fields, hit 'Enter TSR'
- You will have an opportunity to review the TSR before Final Submission.

Reservation Entry Form

MISO Time Zone: ES

Update MISO Info

MISO Select Provider Scenario Analyzer **Enter TSR** Clear Form Save As Template Close

Seller	Source Sink *	POR POD	Service *	Request Type	Start	Stop	MW	Bid Price
MISO	AMIL.ALSEYCTG1 PJMC	AMIL PJM	DAILY FIRM PTP	ORIGINAL	02/16/2013 00 : 00	02/17/2013 00 : 00	100	Get Price

Customer: MISO Path: MISO-PJM Preconfirmed:

Asset Owner: MISO

AFC Evaluation – Submitting TSR

- Review the TSR and hit ‘Submit’

TSR Entry Submission

Provider	Seller	Asset Owner	Source Sink	POR POD	Service *	Request Type	Start	Stop	MW	Bid Price
MISO	MISO	MISO	AMIL.ALSEYCTG1 PJMC	AMIL PJM	DAILY FIRM PTP	ORIGINAL	02/16/2013 00:00 (ES)	02/17/2013 00:00 (ES)	100	
Customer		Path				Preconfirmed: No				
MISO		_/MISO/MISO-PJM//				<input type="checkbox"/>				

	Reservation Profile				
	Start	Stop	MW	MWH	Price
	02/16/2013 0:00 ES	02/17/2013 0:00 ES	100	2400	
Profile Total:					2400

Posting Ref	
Sale Ref	
Deal Ref	
Request Ref	
Related Ref	
Comment	
Anc-Link	
Status Notification	
Primary Provider Approval	N/A

AFC Evaluation – Reviewing New TSR

- The new TSR will appear in the TSR Summary
- *Previously set filters may prevent the TSR from appearing
- The TSR will have a clear highlight until Validations have completed

Reservation Summary for: MISO

Pricing MISO

Update MISO Info

Customer ALL Incr ALL Path POR ALL Src Use DST

TP MISO Class ALL Status ALL POD ALL Snk

Seller ALL Type ALL Time Queued Today Req Type ALL Ref

Enabled

Selected time range: 2019-02-08 00:00 EST to 23:59 EST
TSR 70266806 has been created.

Assign Ref	TP	Customer	MW Req	MW Grant	Source	Sink	POR	POD	Service	Increment	Type	S
70266806	MISO	MISO	100		AMIL.ALSEYCTG1	PJMC	AMIL	PJM	DAILY FIRM PTP	DAILY	POINT_TO_POINT	QU
70266805	MISO	MISO	100		CIN.08NOBSN1	TVA	CIN	TVA	DAILY FIRM PTP	DAILY	POINT_TO_POINT	RE
70266786	MISO	MISO	15		EDE	EDE	EDE	EDE	DNF PTP	DAILY	POINT_TO_POINT	RE
70266785	MISO	MISO	25		AECI	AECI	AECI	AECI	MONTHLY FIRM PTP	MONTHLY	POINT_TO_POINT	RE



AFC Evaluation – Reviewing New TSR

- TSRs that pass validation will turn Yellow in Status ‘Received’
- TSRs that fail validations will turn Red in Status ‘Invalid’

Reservation Summary for: MISO

Pricing MISO

Update MISO Info

Customer ALL	Incr ALL	Path	POR ALL	Src	Use DST <input type="checkbox"/>
TP MISO	Class ALL	Status ALL	POD ALL	Snk	
Seller ALL	Type ALL	Time Queued Today	Req Type ALL	Ref	Enter

Enabled

Selected time range: 2013-02-06 00:00 ES to 23:59 ES

Assign Ref	TP	Customer	MW Req	MW Grant	Source	Sink	POR	POD	Service	Increment	Type
70266806	MISO	MISO	100		AMIL.ALSEYCTG1	PJMC	AMIL	PJM	DAILY FIRM PTP	DAILY	POINT_TO_POINT
70266772	MISO	MISO	0		CSWS	CSWS	CSWS	CSWS	DAILY FIRM NETWORK DES	DAILY	NETWORK



AFC Evaluation –TSR Detail

- Selecting the TSR will open the TSR Detail

Transmission Reservation Detail 70266806 RECEIVED

Seller	Asset Owner	Source Sink	POR POD	Request Type	Start	Stop	MW Req	MW Grant	Bid Price	Offer Price
MISO	MISO	AMIL.ALSEYCTG1 PJMC	AMIL PJM	ORIGINAL	2013-02-16 00:00 ES	2013-02-17 00:00 ES	100			

Path: [_/MISO/MISO-PJM//](#)

Service Code	Increment	Class	Type	Period	Window
DAILY FIRM PTP	DAILY	FIRM	POINT_TO_POINT	FULL_PERIOD	FIXED

Preconfirmed: No Competing: N Negotiated: Nerc Priority: 7

Reservation Profile

Start Date	Stop Date	MW Req	MW Grant	MWH	Bid Price	Offer Price
2013-02-16 00:00 ES	2013-02-17 00:00 ES	100		2400.00		
Profile Total:				2400.00		

Comments		Times	
Status	<input type="text"/>	Queued	2013-02-06 21:24:20 ES
Seller	AFC is unavailable. See: >> 03473 BROCORPONBLU, 2013-02-16, 2013-02-17, AFC=-2390.01 >> 03826	Updated	2013-02-06 21:25:14 ES

AFC Evaluation – Seller Comments

- Automatic AFC Evaluation, and any other Validation, will give general comments relating to the TSR's AFC Availability
- This suggests what Action the Operator will take on the TSR

Comments	
Status	
Seller	AFC is unavailable. See: >> 03473 BROCORPONBLU, 2013-02-16, 2013-02-17, AFC=-2390.01 >> 03826
Provider	
Customer	
Impacted	0

AFC Evaluation – AFC Evaluation Report

- More details on the AFC Evaluation can be found in the AFC/Flowgate Reports

Reservation Summary for: MISO

Pricing MISO

Update MISO Info

Customer ALL | Incr ALL | Path | POR ALL | Src | Use DST

TP MISO | Class ALL | Status ALL | POD ALL | Snk | Enter

Seller ALL | Type ALL | Time Queued | Today | Req Type ALL | Ref

Enabled

Selected time range: 2013-02-06 00:00 ES to 23:59 ES

Assign Ref	TP	Customer	MW Req	MW Grant	Source	Sink	POR	POD	Service	Increment	Type
70266806	MISO	MISO	100		AMIL.ALSEYCTG1	PJMC	AMIL	PJM	DAILY FIRM PTP	DAILY	POINT_TO_POINT
70266772	MISO	MISO	0		CSWS	CSWS	CSWS	CSWS	DAILY FIRM NETWORK DES	DAILY	NETWORK

AFC Evaluation – AFC Evaluation Report

- Select 'MISO' as the Provider to start

AFC/Flowgate Reports

MISO

Close

Scenario Analyzer

Request Evaluations

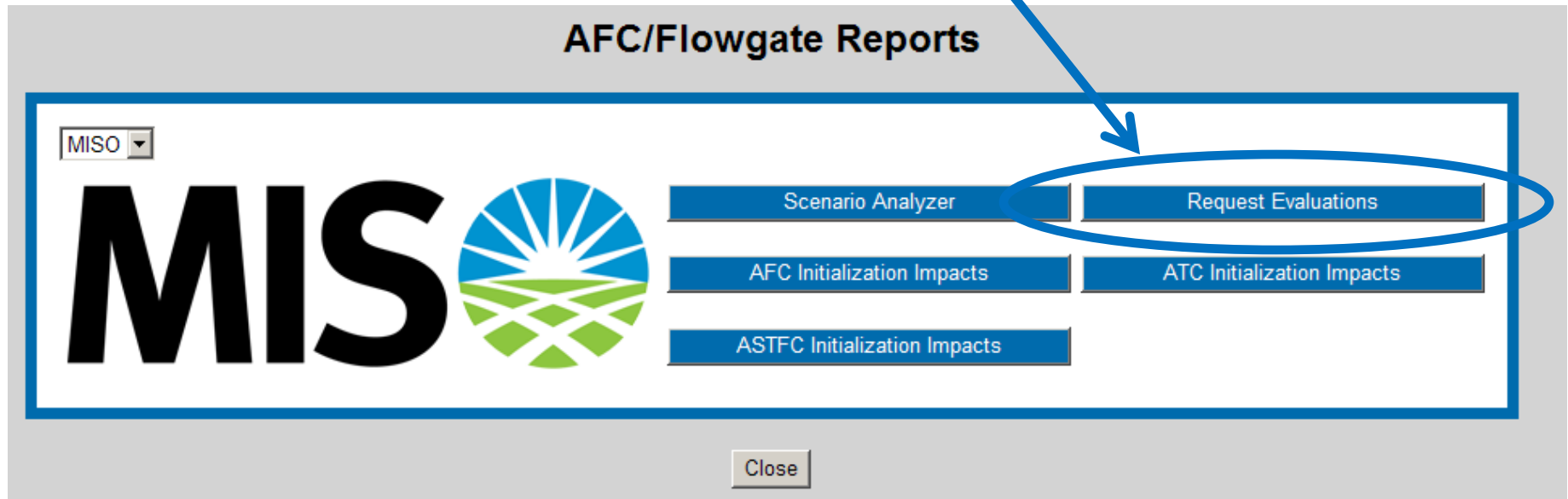
AFC Initialization Impacts

ATC Initialization Impacts

ASTFC Initialization Impacts

AFC Evaluation – AFC Evaluation Report

- Select 'Request Evaluations'



AFC Evaluation – AFC Evaluation Report

- Enter the Assignment Reference Number to View Reports

Request Evaluation Viewer

Provider AssignRef

CalcType Time

Selected time range: 2013-02-06 00:00:00 ES to 2013-02-06 23:59:59 ES

Please select filter criteria and press Enter

AFC Evaluation – AFC Evaluation Report

- Different Calculation Reports can be viewed based on the TSR. Select 'All' to view all reports.

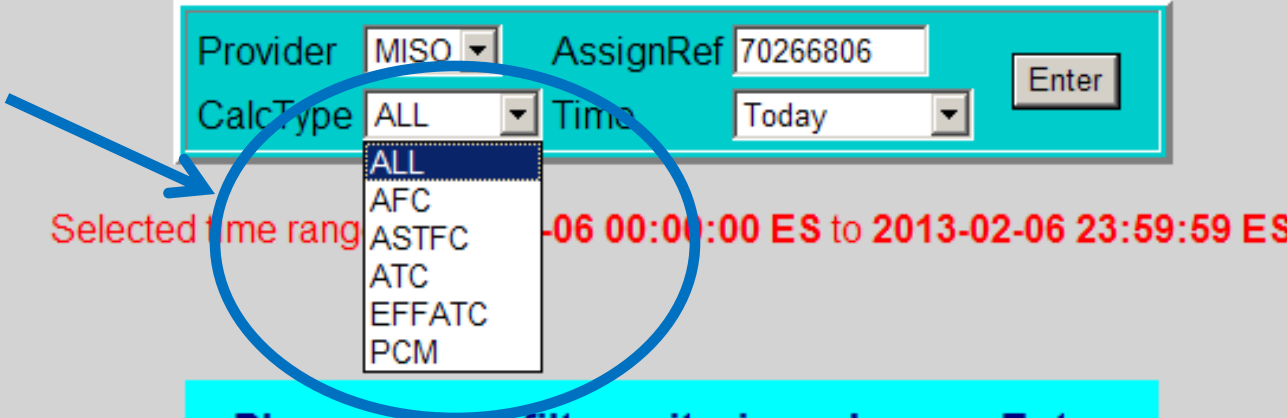
Request Evaluation Viewer

Provider AssignRef

CalcType Time

Selected time range: -06 00:00:00 ES to 2013-02-06 23:59:59 ES

Please select filter criteria and press Enter



AFC Evaluation – AFC Evaluation Report

- Since this is a Firm TSR, both AFC and ASTFC Reports were generated.
- If the TSR impacted an Interface Limit, an ATC Report will be generated.
- In this example the TSR was not eligible for PreEmption or Competition since it did not meet MISO’s criteria, otherwise a PCM Report would have been generated.

Request Evaluation Viewer

Provider AssignRef
 CalcType Time

Selected time range: 2013-02-06 00:00:00 ES to 2013-02-06 23:59:59 ES

Provider	AssignRef	Evaluation Date ↑	Customer	POR	POD	SOURCE	SINK	NERC_PRIORITY	Start	Stop	CalcType
MISO	70266806	2013-02-06 21:24:53 ES	MISO	AMIL	PJM	AMIL.ALSEYCTG1	PJMC	7	2013-02-16 00:00:00 ES	2013-02-17 00:00:00 ES	AFC
MISO	70266806	2013-02-06 21:24:53 ES	MISO	AMIL	PJM	AMIL.ALSEYCTG1	PJMC	7	2013-02-16 00:00:00 ES	2013-02-17 00:00:00 ES	ASTFC

Total: 2 Request Evaluations

AFC Evaluation – AFC Evaluation Report

- The Report will show all significant impacted flowgates, AFC on those flowgates, and the Result of the AFC Evaluation.
- Both Positive and Negative Impacted Flowgates will be shown.

Request Evaluation Detail

The results below are reported in the Transmission Provider's prevailing time zone.

Evaluation Id	Provider	AssginmentRef	Customer	POR	POD	Source	Sink	NERC Priority	Start	Stop	Result	Calc. Type
284759	MISO	70266806	MISO	AMIL	PJM	AMIL.ALSEYCTG1	PJMC	7			Fail	AFC

Start Date	Stop Date	Flowgate Number	Flowgate Name	Flowgate Type	Flowgate Owner	CAP	Dir Coeff	PTDF/OTDF	Impact	Final AFC	Effective ATC	Final ATC	Minimum ATC
2013-02-16	2013-02-17	1634	BLLVOLWBNVOL	OTDF	TVA	100.00	0.30	-0.0528	-1.58	2394.73	?	?	?
2013-02-16	2013-02-17	3473	BROCORPONBLU	PTDF	MISO	100.00	0.90	0.1028	9.25	-2390.01	-23244.59	?	-23244.59
2013-02-16	2013-02-17	3826	KENLAKARCZIO	OTDF	MISO	100.00	0.85	0.1269	10.79	-2387.02	-18805.79	?	-18805.79

AFC Evaluation – ASTFC Evaluation Report

- The ASTFC Report will show significant impacts on Reciprocal Flowgates
- The amount of ASTFC Available to borrow from Reciprocal Entities will be displayed.

Request Evaluation Detail

The results below are reported in the Transmission Provider's prevailing time zone.

Evaluation Id	Provider	AssginmentRef	Customer	POR	POD	Source	Sink	NERC Priority	Start	Stop	Result	Calc. Type
284760	MISO	70266806	MISO	AMIL	PJM	AMIL.ALSEYCTG1	PJMC	7			Pass	ASTFC

Start Date	Stop Date	Flowgate Number	Flowgate Name	Flowgate Type	Flowgate Owner	CAP	Path Coeff	Dir Coeff	PTDF/OTDF	Impact	Final ASTFC	Shared ASTFC	Result
2013-02-16	2013-02-17	1634	BLLVOLWBNVOL	OTDF	TVA	100.00	0.50	0.30	-0.0722	-1.08	52.75	911.67	None
2013-02-16	2013-02-17	3277	CRESTJWCDSPS	OTDF	PJM	100.00	0.50	1.00	0.0817	4.08	-232.60	295.75	Auto

EKPC ASTFC	EKPC Reserve	EKPC Borrow	LGEE ASTFC	LGEE Reserve	LGEE Borrow	MAPP ASTFC	MAPP Reserve	MAPP Borrow	PJM ASTFC	PJM Reserve	PJM Borrow
82.61	20.65	-	-	-	-	-	-	-	545.16	136.29	-
-	-	-	-	-	-	-	-	-	396.13	100.38	-4.08



AFC Evaluation – ATC Evaluation Report

- This is another TSR which impacted an Interface Limit
- The ATC Evaluation Report is shown below

Request Evaluation Detail

The results below are reported in the Transmission Provider's prevailing time zone.

Evaluation Id	Provider	AssginmentRef	Customer	POR	POD	Source	Sink	NERC Priority	Start	Stop	Result	Calc. Type
285099	MISO	70266091	MISO	CSWS	MI-ONT	CSWS	ONT	4			Fail	ATC

Start Date	Stop Date	Provider	Segment Name	CAP	Dir Coeff	DF	Impact	Final ATC
2013-02-27	2013-02-28	MISO	MI_ONT_IN	27.00	1.00	1.0000	27.00	966.00
2013-02-28	2013-03-01	MISO	MI_ONT_IN	27.00	1.00	1.0000	27.00	966.00
2013-03-01	2013-03-02	MISO	MI_ONT_IN	27.00	1.00	1.0000	27.00	-639.00
2013-03-02	2013-03-03	MISO	MI_ONT_IN	27.00	1.00	1.0000	27.00	-639.00
2013-03-03	2013-03-04	MISO	MI_ONT_IN	27.00	1.00	1.0000	27.00	-639.00

Scenario Analyzer

Scenario Analyzer

- To use the Scenario Analyzer, select 'AFC/Flowgate Reports'

Reservation Summary for: MISO

Pricing MISO

Update MISO Info

Customer ALL | Incr ALL | Path | POR ALL | Src | Use DST

TP MISO | Class ALL | Status ALL | POD ALL | Snk | Enter

Seller ALL | Type ALL | Time Queued | Today | Req Type ALL | Ref

New TCR | **AFC/Flowgate Reports** | More Filtering | User Range | Columns | Save Query | Refresh **Enabled**

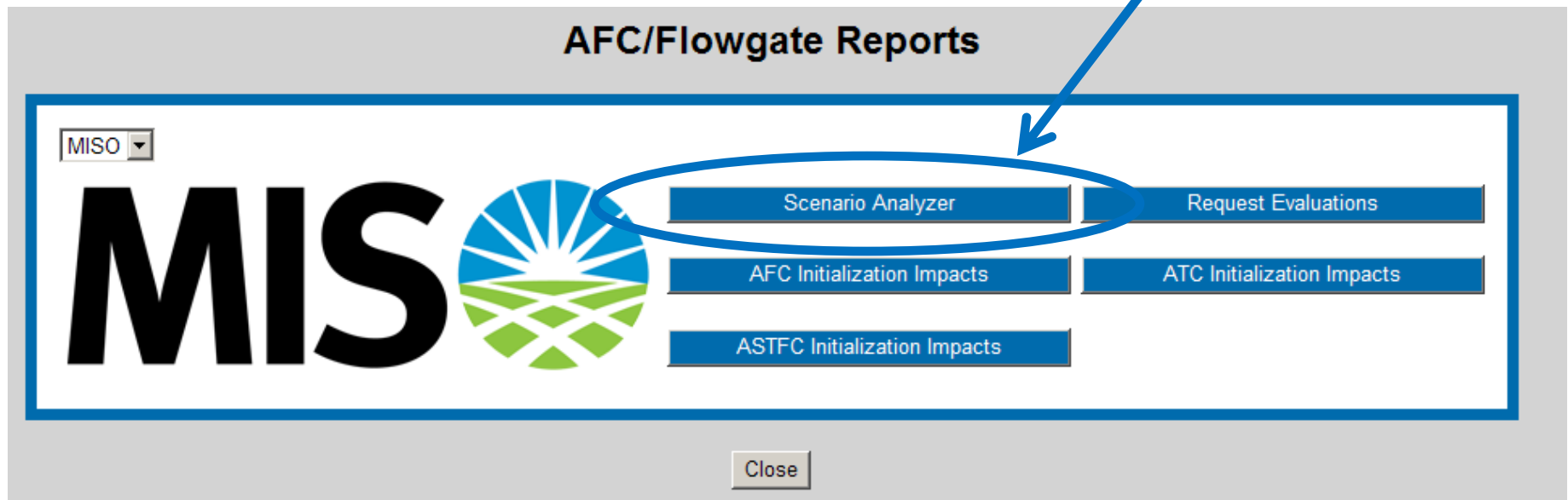
Hourly Summary | Spreadsheet | TS Metrics | TransAssign | Full Transfer

Selected time range: 2013-02-06 00:00 ES to 23:59 ES

Assign Ref	TP	Customer	MW Req	MW Grant	Source	Sink	POR	POD	Service	Increment	Type
70266806	MISO	MISO	100		AMIL.ALSEYCTG1	PJMC	AMIL	PJM	DAILY FIRM PTP	DAILY	POINT_TO_POINT
70266772	MISO	MISO	0		CSWS	CSWS	CSWS	CSWS	DAILY FIRM NETWORK DES	DAILY	NETWORK

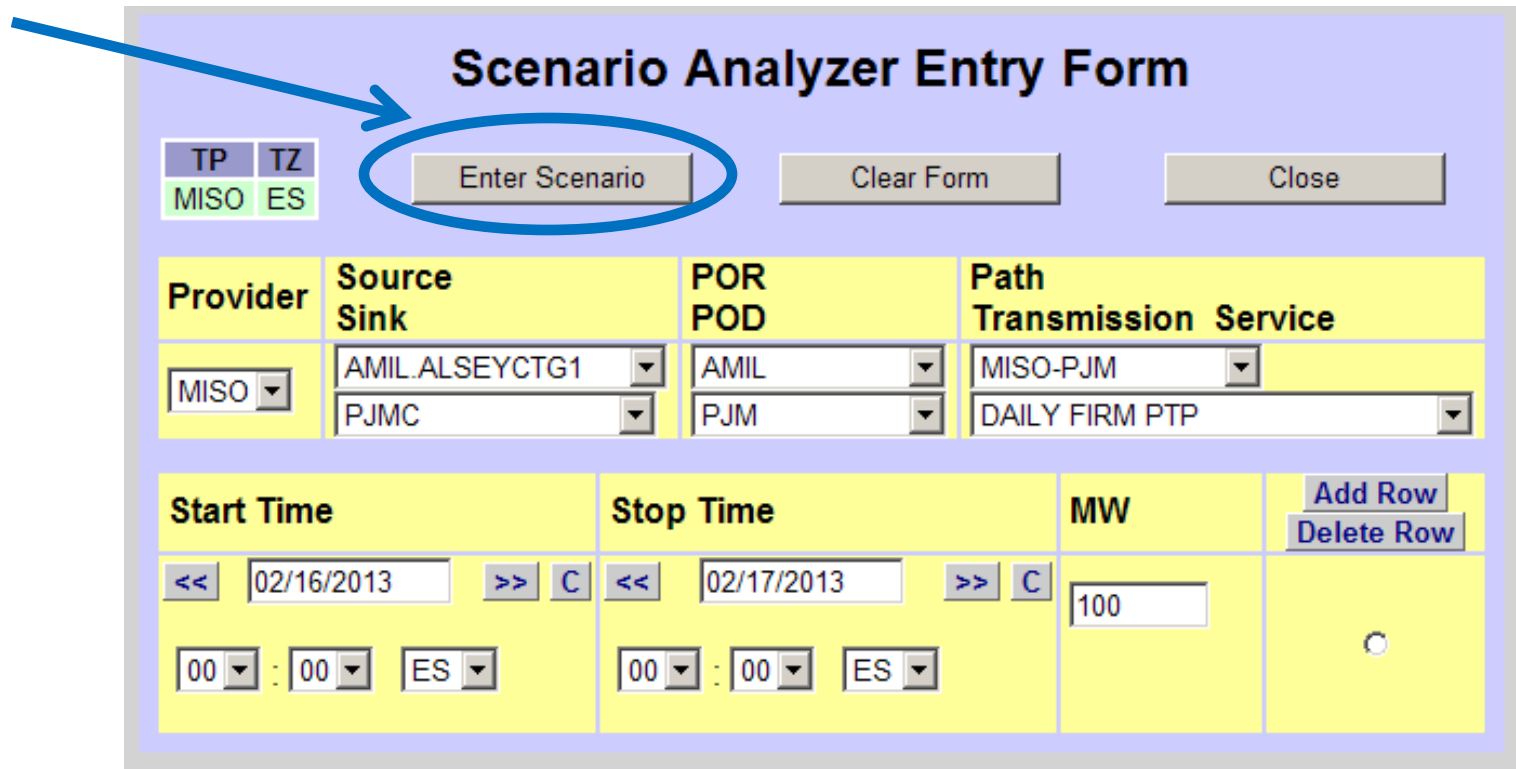
Scenario Analyzer

- Select 'Scenario Analyzer'



Scenario Analyzer– Submitting TSR

- Complete the Scenario Analyzer Entry Form as you would a normal TSR Submittal and hit 'Enter Scenario'



The screenshot shows the "Scenario Analyzer Entry Form" interface. At the top, there are two small boxes for "TP" (MISO) and "TZ" (ES). Below these are three buttons: "Enter Scenario" (circled in blue with an arrow pointing to it), "Clear Form", and "Close". The main form area is divided into several sections:

Provider	Source Sink	POR POD	Path Transmission Service
MISO	AMIL.ALSEYCTG1 PJMC	AMIL PJM	MISO-PJM DAILY FIRM PTP

Start Time	Stop Time	MW	
<< 02/16/2013 >> C 00 : 00 ES	<< 02/17/2013 >> C 00 : 00 ES	100	Add Row Delete Row

Scenario Analyzer – Evaluating Scenario

- Select desired Queue Position and Report Format
 - FULL Report shows all significantly impacted flowgates' AFC Impacts
 - BRIEF Report shows only significantly impacted flowgates with negative final AFC
- Check either AFC, ASTFC, or ATC

Scenario Entry Submission

Check AFC Check ASTFC Check ATC Back

Queue Position Report Format

Provider	Source Sink	FOR POD	Path	Transmission Service	Start Time	Stop Time	MW
MISO	AMIL.ALSEYCTG1 PJMC	AMIL PJM	_/MISO/MISO-PJM//	DAILY FIRM PTP	02/16/2013 0:00 ES	02/17/2013 0:00 ES	100

Scenario Analyzer – Evaluating Scenario

- An Evaluation Assignment Ref and Result will be displayed

Scenario Entry Submission

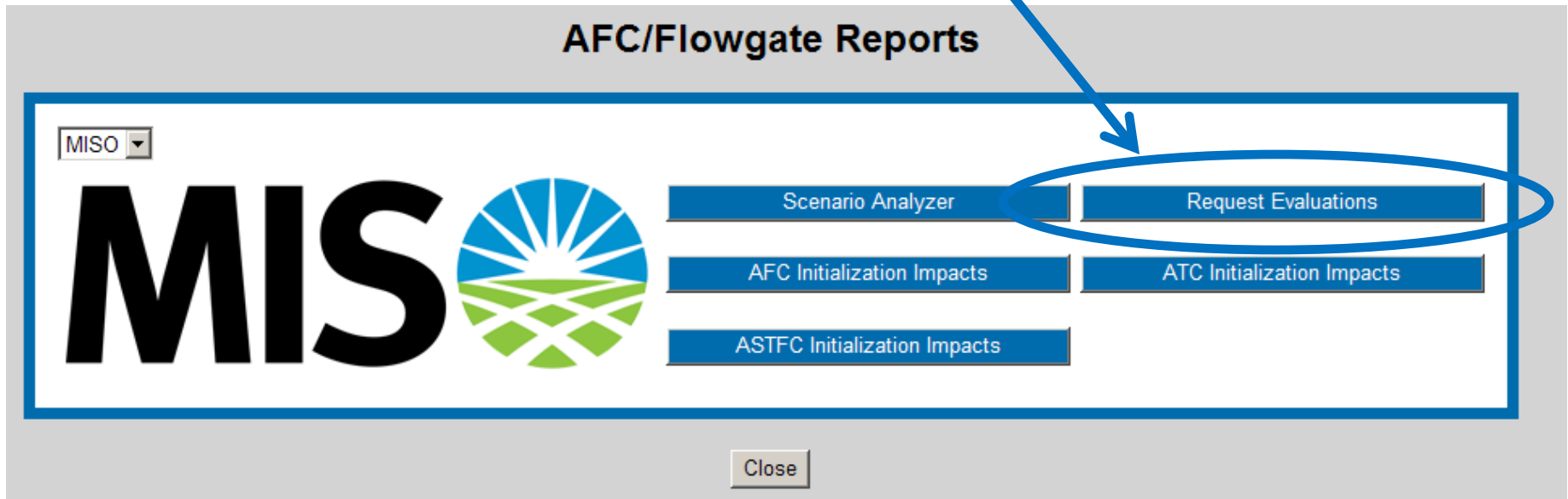
Queue Position Report Format

Provider	Source Sink	POR POD	Path	Transmission Service	Start Time	Stop Time
MISO	AMIL.ALSEYCTG1 PJMC	AMIL PJM	_/MISO/MISO-PJM//	DAILY FIRM PTP	02/16/2013 0:00 ES	02/17/2013 0:00 ES

**SA7963
AFC Fail**

Scenario Analyzer – Evaluation Report

- View the Report in the same way you would view a normal submitted TSR



The screenshot displays the 'AFC/Flowgate Reports' interface. At the top, the title 'AFC/Flowgate Reports' is centered. Below the title, there is a dropdown menu set to 'MISO'. To the left of the menu is the 'MIS' logo, which consists of the letters 'MIS' in a bold, black font followed by a circular icon with a sunburst pattern in blue and green. To the right of the logo, there are five blue buttons arranged in two columns. The top row contains 'Scenario Analyzer' and 'Request Evaluations'. The middle row contains 'AFC Initialization Impacts' and 'ATC Initialization Impacts'. The bottom row contains 'ASTFC Initialization Impacts'. A blue arrow points from the top right towards the 'Request Evaluations' button, which is also circled in blue. At the bottom center of the interface is a 'Close' button.

Scenario Analyzer – Evaluation Report

- Enter the Assignment Reference Number to View Report

Request Evaluation Viewer

Provider AssignRef

CalcType Time

Selected time range: 2000-01-01 00:00:00 ES to 2013-02-05 23:59:59 ES

Please select filter criteria and press Enter

Scenario Analyzer – Evaluation Report

- The Evaluation Report will be shown for the selected Calculation Type

Request Evaluation Viewer

Provider AssignRef
 CalcType Time

Selected time range: 2000-01-01 00:00:00 ES to 2013-02-05 23:59:59 ES

Provider	AssignRef	Evaluation Date ↑	Customer	POR	POD	SOURCE	SINK	NERC_PRIORITY	Start	Stop	CalcType
MISO	SA7963	2013-02-06 23:17:26 ES	MISO	AMIL	PJM	AMILALSEYCTG1	PJMC	7	2013-02-16 00:00:00 ES	2013-02-17 00:00:00 ES	AFC
Total: 1 Request Evaluation											

Scenario Analyzer – Evaluation Report

- The Report will show all significantly impacted flowgates if FULL was chosen, or only negative AFC flowgates if BREIF was chosen
- FULL was chosen for the example Report Below

Request Evaluation Detail

The results below are reported in the Transmission Provider's prevailing time zone.

Evaluation Id	Provider	AssginmentRef	Customer	POR	POD	Source	Sink	NERC Priority	Start	Stop	Result	Calc. Type
285115	MISO	SA7963	MISO	AMIL	PJM	AMIL.ALSEYCTG1	PJMC	7			Fail	AFC

Start Date	Stop Date	Flowgate Number	Flowgate Name	Flowgate Type	Flowgate Owner	CAP	Dir Coeff	PTDF/OTDF	Impact	Final AFC	Effective ATC	Final ATC	Minimum ATC
2013-02-16	2013-02-17	1634	BLLVOLWBNVOL	OTDF	TVA	100.00	0.30	-0.0528	-1.58	2394.73	?	?	?
2013-02-16	2013-02-17	3473	BROCORPONBLU	PTDF	MISO	100.00	0.90	0.1028	9.25	-2369.68	-23046.84	?	-23046.84
2013-02-16	2013-02-17	3826	KENLAKARCZIO	OTDF	MISO	100.00	0.85	0.1269	10.79	-2359.69	-18590.50	?	-18590.50

PreEmption and Competition

PCM – Overview

- **PCM – PreEmption and Competition Module**
 - OATI's PCM will run MISO's PreEmption and Competition Rules
- **MISO's Eligibility Rules for PCM**
 - Flat Profile Required: No megawatt profiles on the TSR
 - Preconfirmation Required: TSR must be submitted Preconfirmed
 - Full Service Required: MISO must be able to grant every MW of the submitted TSR using AFC or PCM
- **Three General PreEmption and Competition Scenarios**
 - Defender Class A
 - Defender Class B
 - Defender Class C

PCM – Defender Class A

- **Defender Class A: Non-Confirmed TSRs identified to have AFC on a constrained flowgate**
 - Defenders of Class A could be in Queued, Received, Study, or Accepted Status
 - Defenders of Class A will be ‘Superseded’ by the Challenger if in Queued, Received, or Study Status
 - Defenders of Class A will be ‘Displaced’ by the Challenger if in Accepted Status

PCM – Defender Class B

- **Defender Class B: Confirmed TSRs identified to have AFC on a constrained flowgate; no Right-of-First-Refusal (ROFR)**
 - Defenders of Class B will always be in Confirmed Status
 - Defenders of Class B will have Recalls go out against the TSR
 - Defenders of Class B do not have Right-of-First-Refusal and will not be given the opportunity to Match the Challenger
 - Defenders of Class B are Point-to-Point TSRs being “bumped” by a Network TSR; thus no Right-of-First-Refusal

PCM – Defender Class C

- **Defender Class C: Confirmed TSRs identified to have AFC on a constrained flowgate; have ROFR**
 - Defenders of Class C will always be in Confirmed Status
 - Defenders of Class C have Right-of-First-Refusal and will be given the opportunity to Match the Challenger
 - Defenders of Class C are Point-to-Point TSRs being “bumped” by a longer duration Point-to-Point TSR

PCM – Unconditional Firm Window

- Once a TSR reaches the Unconditional Firm Window, it will be ineligible to be a Defender in PCM

Challenger Service	Defender Service	Challenger Queued In Advance of the Start Time of the Defender	
Tier 1 Services - Short-Term Firm Network			
FIRM MONTHLY NETWORK	FIRM MONTHLY PTP	38	Day(s)
	FIRM WEEKLY PTP	14	Day(s)
	FIRM DAILY PTP	N/A*	
FIRM WEEKLY NETWORK	FIRM MONTHLY PTP	33	Day(s)
	FIRM WEEKLY PTP	9	Day(s)
	FIRM DAILY PTP	3	Day(s)
FIRM DAILY NETWORK	FIRM MONTHLY PTP	N/A*	
	FIRM WEEKLY PTP	8	Day(s)
	FIRM DAILY PTP	2	Day(s)
Tier 2 Services - Short-Term Firm PTP			
FIRM MONTHLY PTP	FIRM MONTHLY PTP	39	Day(s)
	FIRM WEEKLY PTP	15	Day(s)
	FIRM DAILY PTP	N/A*	
FIRM WEEKLY PTP	FIRM WEEKLY PTP	10	Day(s)
	FIRM DAILY PTP	4	Day(s)
FIRM DAILY PTP	FIRM DAILY PTP	3	Day(s)
*No Submission Window Overlap - For these challenger-defender pairs either the submission window for the defender has not opened by the time the challenger submission window closes or the submission window overlap does not allow adequate time for Preemption or Competition			

PCM – Unconditional Firm Window

Challenger Service	Defender Service	Challenger Queued In Advance of the Start Time of the Defender
Tier 3 Services - Non-Firm Network		
NF MONTHLY NETWORK	NF MONTHLY PTP	Anytime (No Restriction)
	NF WEEKLY PTP	Anytime (No Restriction)
	NF DAILY PTP	Anytime (No Restriction)
	NF HOURLY PTP	N/A*
	NF HOURLY REDIRECT	N/A*
NF WEEKLY NETWORK	NF MONTHLY PTP	Anytime (No Restriction)
	NF WEEKLY PTP	Anytime (No Restriction)
	NF DAILY PTP	Anytime (No Restriction)
	NF HOURLY PTP	Anytime (No Restriction)
	NF HOURLY REDIRECT	Anytime (No Restriction)
NF DAILY NETWORK	NF MONTHLY PTP	0800 Day Prior
	NF WEEKLY PTP	0800 Day Prior
	NF DAILY PTP	0800 Day Prior
	NF HOURLY PTP	0800 Day Prior
	NF HOURLY REDIRECT	0800 Day Prior
NF HOURLY NETWORK	NF MONTHLY PTP	0800 Day Prior
	NF WEEKLY PTP	0800 Day Prior
	NF DAILY PTP	0800 Day Prior
	NF HOURLY PTP	0800 Day Prior
	NF HOURLY REDIRECT	0800 Day Prior
*No Submission Window Overlap - For these challenger-defender pairs either the submission window for the defender has not opened by the time the challenger submission window closes or the submission window overlap does not allow adequate time for Preemption or Competition		

PCM – Unconditional Firm Window

Challenger Service	Defender Service	Challenger Queued In Advance of the Start Time of the Defender
Tier 4 Services - Non-Firm PTP		
NF MONTHLY PTP	NF MONTHLY PTP	3 Day(s)
	NF WEEKLY PTP	3 Day(s)
	NF DAILY PTP	2 Day(s)
	NF HOURLY PTP	N/A*
	NF HOURLY REDIRECT	N/A*
NF WEEKLY PTP	NF WEEKLY PTP	3 Day(s)
	NF DAILY PTP	2 Day(s)
	NF HOURLY PTP	N/A*
	NF HOURLY REDIRECT	N/A*
NF DAILY PTP	NF DAILY PTP	2 Day(s)
	NF HOURLY PTP	N/A*
	NF HOURLY REDIRECT	N/A*
NF HOURLY PTP	NF HOURLY PTP	0800 Day Prior
	NF HOURLY REDIRECT	0800 Day Prior
*No Submission Window Overlap - For these challenger-defender pairs either the submission window for the defender has not opened by the time the challenger submission window closes or the submission window overlap does not allow adequate time for Preemption or Competition		

PCM – PCM Evaluation Report

- When a submitted TSR is eligible for PCM, a PCM report will be generated

Request Evaluation Viewer

Provider AssignRef
 CalcType Time

Selected time range: 2000-01-01 00:00:00 ES to 2013-02-05 23:59:59 ES

Provider	AssignRef	Evaluation Date ↑	Customer	POR	POD	SOURCE	SINK	NERC_PRIORITY	Start	Stop	Calc Type
MISO	70266588	2013-02-06 10:44:32 ES	OATI	MP.HVDCW	MP.HVDCE	MP.HVDCW	MP.HVDCE	7	2013-02-10 00:00:00 ES	2013-02-12 00:00:00 ES	AFC
MISO	70266588	2013-02-06 10:44:32 ES	OATI	MP.HVDCW	MP.HVDCE	MP.HVDCW	MP.HVDCE	7	2013-02-10 00:00:00 ES	2013-02-12 00:00:00 ES	ASTFC
MISO	70266588	2013-02-06 10:42:43 ES	OATI	MP.HVDCW	MP.HVDCE	MP.HVDCW	MP.HVDCE	7	2013-02-10 00:00:00 ES	2013-02-12 00:00:00 ES	PCM

PCM – PCM Evaluation Report

- The Report will show Defender TSRs and flowgate(s) on which AFC is Competing
- If Matches were created, their AREF will be shown

Request Evaluation Detail

The results below are reported in the Transmission Provider's prevailing time zone.

Evaluation Id	Provider	AssginmentRef	Customer	POR	POD	Source	Sink	NERC Priority	Start	Stop	Result	Calc. Type
282600	MISO	70266588	OATI	MP.HVDCW	MP.HVDCE	MP.HVDCW	MP.HVDCE	7			Fail	PCM

Provider	Assignment Ref	Queued Time	Status	POR	POD	Source	Sink	Priority	Price	Start	Stop	Duration	Service	Pre-Confirmed	Rank	Type	Action
MISO	70266574	2013-02-06.10:29:03	Confirmed	MP.HVDCW	MP.HVDCE	MP.HVDCW	MP.HVDCE	7	0.00	2013-02-10	2013-02-11	1D	DAILY FIRM PTP	Yes	1	Competing	Compete
MISO	70266588	2013-02-06.10:40:56	Received	MP.HVDCW	MP.HVDCE	MP.HVDCW	MP.HVDCE	7	0.00	2013-02-10	2013-02-12	2D	DAILY FIRM PTP	Yes	1	Challenger	

Profile	2013-02-10 Capacity	2013-02-11 Capacity
70266574	25.00	-
70266588	25.00	25.00
AFC for 3472-LANXFMKNCLAT	-19.00	6.00
Initial Offer	6.00	25.00
Pending Offer	6.00	25.00
Recall 70266574	19.00	-
Match 70266574	25.00	19.00
Committed Offer	25.00	25.00



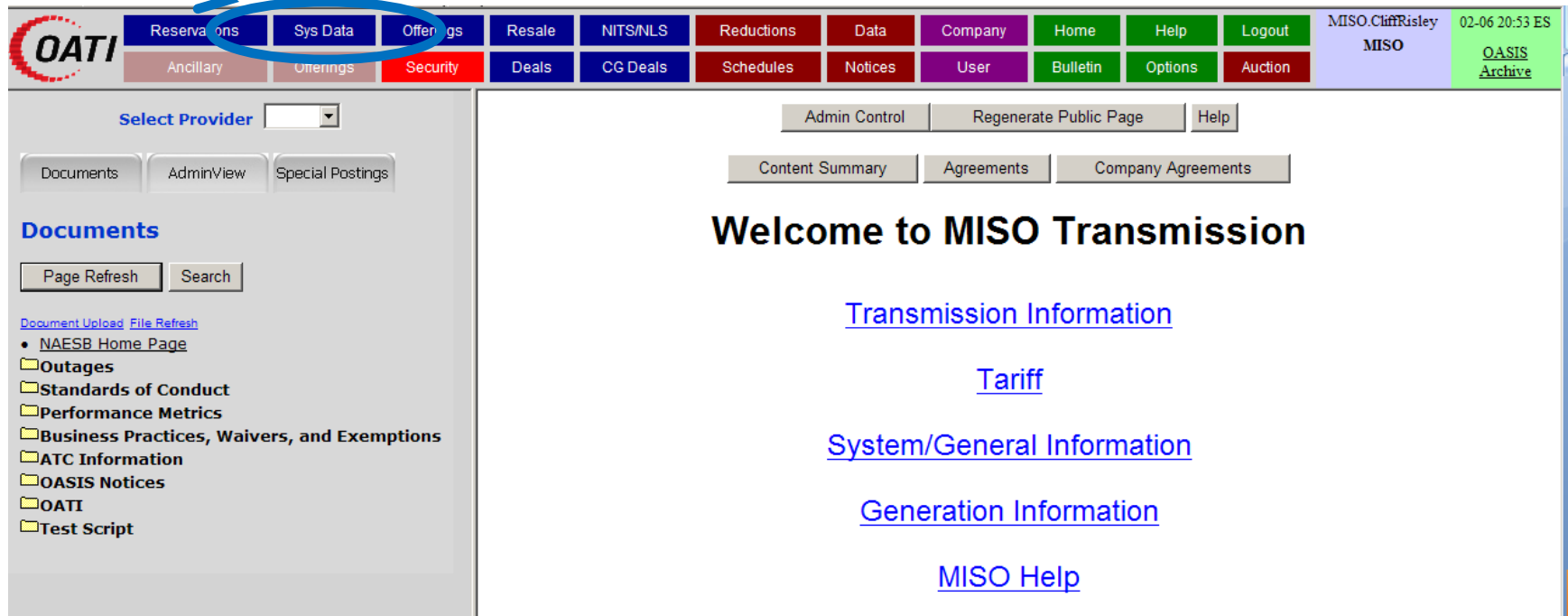
System Data Postings

System Data Postings

- **Four Types of System Data Postings will be available**
- **Flowgate Values**
 - Flowgate AFC Values and TFC (Total Flowgate Capability)
- **ATC Values**
 - Effective ATC Values
 - Path CBM
 - Path TRM
 - Effective Path TTC
- **Narratives**
 - Zero ATC Narrative
 - 10% Change Narrative
- **Load_Zone Postings**

System Data Postings

- Select tab 'Sys Data' to view System Data Postings



The screenshot displays the MISO Transmission website interface. At the top, a navigation menu contains various tabs: Reservations, Sys Data (highlighted with a blue circle and arrow), Offerings, Resale, NITS/NLS, Reductions, Data, Company, Home, Help, Logout, MISO.CliffRisley, and 02-06 20:53 ES. Below this, a secondary row of tabs includes Ancillary, Offerings, Security, Deals, CG Deals, Schedules, Notices, User, Bulletin, Options, and Auction. The main content area features a 'Welcome to MISO Transmission' message with several links: [Transmission Information](#), [Tariff](#), [System/General Information](#), [Generation Information](#), and [MISO Help](#). On the left side, there is a 'Documents' section with a 'Select Provider' dropdown, buttons for 'Documents', 'AdminView', and 'Special Postings', and a list of document categories including NAESB Home Page, Outages, Standards of Conduct, Performance Metrics, Business Practices, Waivers, and Exemptions, ATC Information, OASIS Notices, OATI, and Test Script.

System Data Postings

- Select TP of 'MISO' to view MISO Postings

System Data Summary for: MISO

TP * Type Attribute * Element *

Posting Time Daylight Savings

Selected time range: 2013-05-01 00:00:00 ES to 2013-06-02 00:00:00 ES

Select filter criteria and click on Enter button

System Data Postings

System Data Summary for: MISO

TP	MISO	* Type	ALL	Attribute	ALL	* Element	ALL	Enter
Posting		Time		Range		Daylight		
New ATC	ATC					Column		Close

Selected time range

Select

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to 2013-0

on Enter

by Internation

Attribute	Element
ALL	ALL
CBM	526TILBALWMV
FAFC	526TILWMVEWF
FAFC CHANGE NARRATIVE	8STKERARNHAZ
FATC	92HILLOUHILL
FATC_CHANGE_NARRATIVE	A/MISO/AECI-LES//
FCF	A/MISO/AECI-MHEB//
FCU	A/MISO/AECI-NPPD//
FETC	A/MISO/AECI-OPPD//
FGF	A/MISO/AECI-WAUE//
FMI	A/MISO/ALTE-ALTW//
FNITS	A/MISO/ALTE-DPC//
FNL	A/MISO/ALTE-GRE//
FOS	A/MISO/ALTE-MDU//
FPB	A/MISO/ALTE-MEC//
FROR	A/MISO/ALTE-MGE//
FTRM	A/MISO/ALTE-MP//
NATIVE_ACTUAL_LOAD	A/MISO/ALTE-MPDCE//
NATIVE_FORECASTED_LOAD	A/MISO/ALTE-MPDCW//
NFAFC	A/MISO/ALTE-MPW//
NFAFC_CHANGE_NARRATIVE	A/MISO/ALTE-NSP//
NFATC	A/MISO/ALTE-OTP//
NFATC_CHANGE_NARRATIVE	A/MISO/ALTE-SMP//
NFCF	A/MISO/ALTE-UPPC//
NFCU	A/MISO/ALTE-WPS//
NFETC	A/MISO/ALTW-ALTE//
NFGF	A/MISO/ALTW-DPC//
NFMI	A/MISO/ALTW-GRE//
NFNITS	A/MISO/ALTW-MDU//
NFNL	A/MISO/ALTW-MEC//

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