

OASIS – Where, When, Why?

Transmission Customer Forum
September 30 – October 1, 2010

Jim Viikinsalo

Some Perspective



the bridge we are crossing



first attempt at packing



last attempt at packing

OASIS – The 3 “W’s”

- **Where...** is the information I am looking for?
- **When...** will my request get answered?
- **Why...** did ATC change, etc.?

Where... (OASIS Data Posting Requirements)

- ATC/TTC values on each posted path:
 - at least 13 months of Monthly service
 - at least 30 days of Daily service
 - at least 168 hours of Hourly service
- 82 paths presently posted on Southern's OASIS
- Result – an “ocean” of data, with most customers searching for their specific “bucket”

Where... (Other Information Posted on OASIS)

- Reservations and Schedules
- Interruptions and Curtailments
- Planned and Other Significant Transmission Outages
- Tariff and Rate Summaries
- System Impact and Facilities Studies
- Interconnection Requests and Information
- See "General Information" page for details

Where... (General Information section)

If you are interested in becoming an eligible customer under Southern Companies' OATT in order to purchase transmission service on OASIS, please contact [James Crawford](#) at 205-257-5206. A summary of the new transmission customer registration procedures can be found [here](#).

If you are interested in obtaining read only access to our OASIS site, please contact Jim Viikinsalo at 205-257-6700.

Additional pages

Information Links: [General Information](#) | [Interconnection](#) | [Studies](#) | [TSR](#) | [Historical](#) | [Miscellaneous](#) | [Contacts](#)

Business Practices

- [General Business Practices](#)
- [Procedure for Changing Business Practices](#)
- [Billing Dispute Identification Questionnaire](#)
- [Consent to Assign Agreement](#)
- [Procedures for Reserving Transmission Capacity for Future Load Growth, Designating/Undesignating Network Resources, & Arranging for Other Related Services](#)
- [Right of First Refusal Procedure for Long-Term Firm Transmission Customers](#)
- [Generator Balancing Service Tariff Scheduling Procedures](#)
- [Generator Imbalance Service \(Schedule 10\) Business Practice](#)
- [CFS Tagging and Tracking Business Practice](#)
- [Distribution of Imbalance Penalties](#)
- [Distribution of Operational Penalties for Late Studies](#)
- [Distribution of Operational Penalties for Unreserved Use Penalties](#)
- [General Guidelines for 'Behind the Meter' Generation](#)
- [Transmission Service Request communication during an OASIS Outage](#)

Designated Network Resources (DNR)

- [Short-term DNR Form](#)
- [Short-Term DNRs](#)
- [Archived Short-Term DNRs](#)
- [Long-term DNRs \(2010\)](#)

Credit

- [Credit Manual](#)

Open Access Transmission Tariff (OATT)

Recent Tariff Compliance Filings

- [April 30, 2010 - 2009 OATT True-Up Transmittal Letter](#)
- [April 19, 2010 - 2009 Annual Penalty Assessment and Distribution Report](#)
- [October 30, 2009 - 2010 OATT Annual Informational Filing](#)
- [October 23, 2009 - OATT Amendment Filing](#)
- [October 20, 2009 - Pro forma NOA Amendment Filing](#)
- [August 17, 2009 - Attachment K Compliance Filing](#)
- [February 2, 2009 - Pro forma NOA Amendment Filing](#)

Tariff Versions

- [Tariff as of May 6, 2010](#)
- [Tariff as of December 22, 2009](#)
- [Tariff as of August 17, 2009](#)
- [Tariff as of February 2, 2009](#)

Other Tariff Information

- [Tariff Rate Summary Effective January 1, 2010](#)
- [Informational Schedules A through C Effective January 1, 2010](#)
- [Informational Schedule D Effective October 1, 2009](#)
- [True-Up Information Schedules for 2009](#)
- [Five-Year OATT Rate Forecast \(2011 - 2015\)](#)
- [2010 Transmission Losses Analysis and CBM Usage Analysis](#)

See the [Historical](#) page for Tariff information prior to 2009.

Additional Information

When... (Daily Study Process)

- Near-term studies update Daily and Hourly TTC postings closer to the start of service
 - system conditions for each day are not known 30 days in advance, so Monthly TTC is used initially
 - 2 days ahead, a forecast is developed which incorporates real-time conditions; Daily/Hourly TTCs updated on OASIS
 - 1 day ahead, the forecast assumptions are reviewed and Daily/Hourly TTCs are updated as necessary

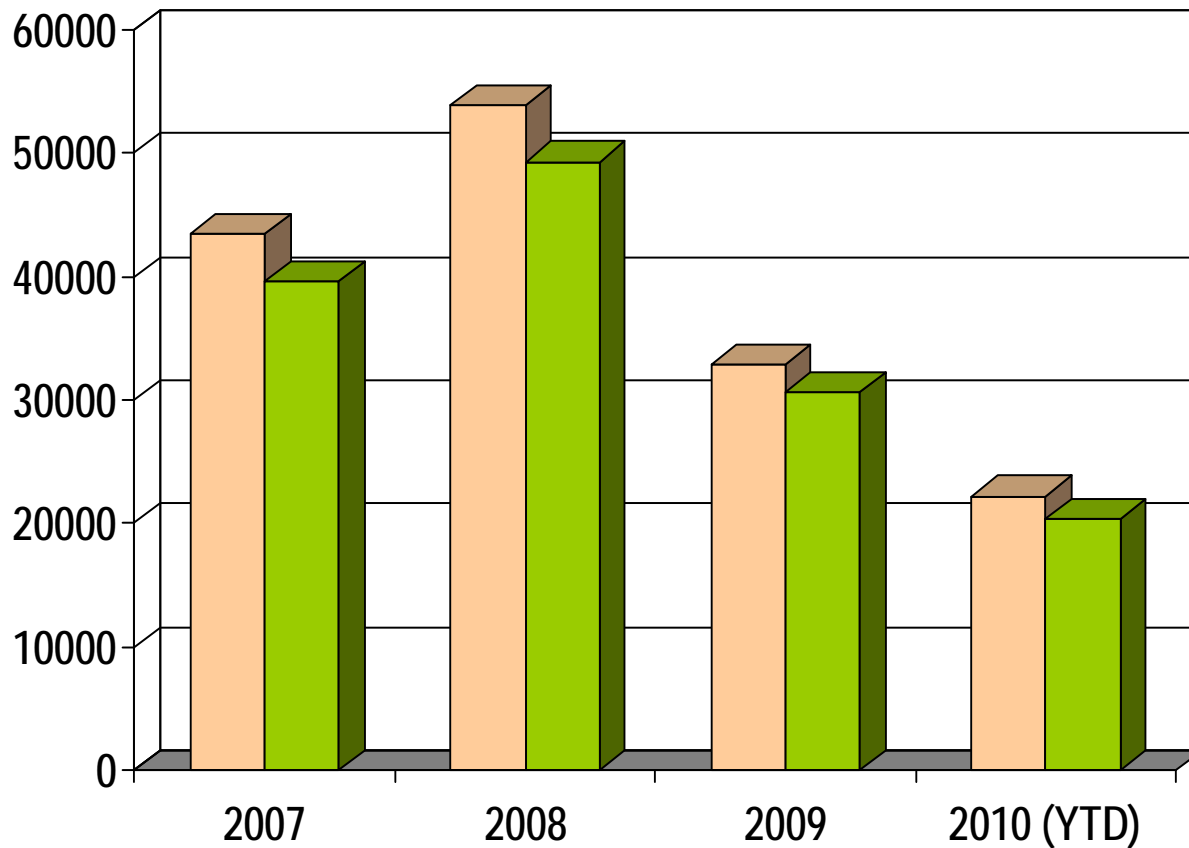
When... (Daily Request Processing)

- 0600-0700 M-F: Begin answering next-day requests
 - query TTC in System Data to view Time of Last Update
 - note Section 13.2 in the OATT (conditional acceptance)
- Significant redirect activity makes ATC more volatile
 - capacity made available as a result of redirects is offered on a first-come, first-serve basis
 - analysis of redirect impacts may lead to answering a redirect request that is further down in the queue, to post back ATC on the original path

When... (Request Processing Duties)

- Bulk Power Operations (BPO):
 - service period from next hour through 12 months ahead
 - may request assistance from Transmission Planning
- Transmission Planning (TP):
 - service beyond 12 months (may require extensive studies)
- Transmission Policy and Services:
 - coordinates between BPO and TP for answers to all long-term service requests, per tariff

When... (Request Volume)



Many requests are approved, but not confirmed by customers

■ Total Requests
■ Confirmed

There's Gold In Them Thar Hills!

- OASIS contains a great deal of data in standard format
 - SOCO OASIS provides access via a Web browser
 - view service offerings, requests, outages, and more
 - audit templates available for specific database queries
 - standard FERC format allows users to access data directly
 - using custom or third-party tools, customers can display information in the manner they find most valuable
 - S&CP allows for customized views consolidated from the OASIS sites of multiple providers



Why... (Using Audit Template Queries)

- Use audit queries to view changes in offerings and reservations
- Follow the "Audit Templates" link from the Customer Menu page
 - requires only elementary knowledge of S&CP
 - Service Offerings audit trail – via *transofferingaudit*
 - Reservation Status audit trail – via *transstatusaudit*
- Follow "System Data" link to see TTC/ATC timestamps

Data, such as ATC, changes very frequently when customer activity is high

Audit Query - Example Input

transofferingaudit Template	
	<input type="button" value="html"/> <input type="button" value="data"/>
PATH_NAME	<input type="text"/>
SELLER_CODE	SOCO
SELLER_DUNS	<input type="text"/>
POINT_OF_RECEIPT	SOCO
POINT_OF_DELIVERY	DUK
SERVICE_INCREMENT	HOURLY
TS_CLASS	NON-FIRM
TS_TYPE	POINT_TO_POINT
TS_PERIOD	<input type="text"/>
TS_WINDOW	<input type="text"/>
TS_SUBCLASS	<input type="text"/>
START_TIME	20060804150000CD
STOP_TIME	20060804160000CD
POSTING_REF	<input type="text"/>
TIME_OF_LAST_UPDATE	<input type="text"/>

- follow link to Audit Templates from Menu page
- input is case-sensitive
- can query by different sets of input parameters (Path, Seller, POR,POD, etc.)
- date format is `yyyymmddhhmmssTZ`

Audit Query – Example Output

Time of Last Update	Seller Code	Seller Duns	Path Name	Point of Receipt	Point of Delivery	Interface	Type	Offer Start Time	Offer Stop Time	Start Time	Stop Time	Capacity Available	Service Increment	TS C
20060804131551CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	204	Hourly	Non-
20060804130842CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	104	Hourly	Non-
20060804112444CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	4	Hourly	Non-
20060726155510CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	0	Hourly	Non-
20060726141858CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	130	Hourly	Non-
20060726111535CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	180	Hourly	Non-
20060726001542CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	330	Hourly	Non-
20060726000656CD	SOCO	956431993	SS/SOCO/SOCO-DUK//			E				20060804150000CD	20060804160000CD	80	Hourly	Non-

- Results are sorted from latest to earliest updates
- ATC can vary significantly as reservations are confirmed, redirects away are granted, and schedules are approved
- Results can be viewed inside Web browser (html) or downloaded as a CSV text file (data)

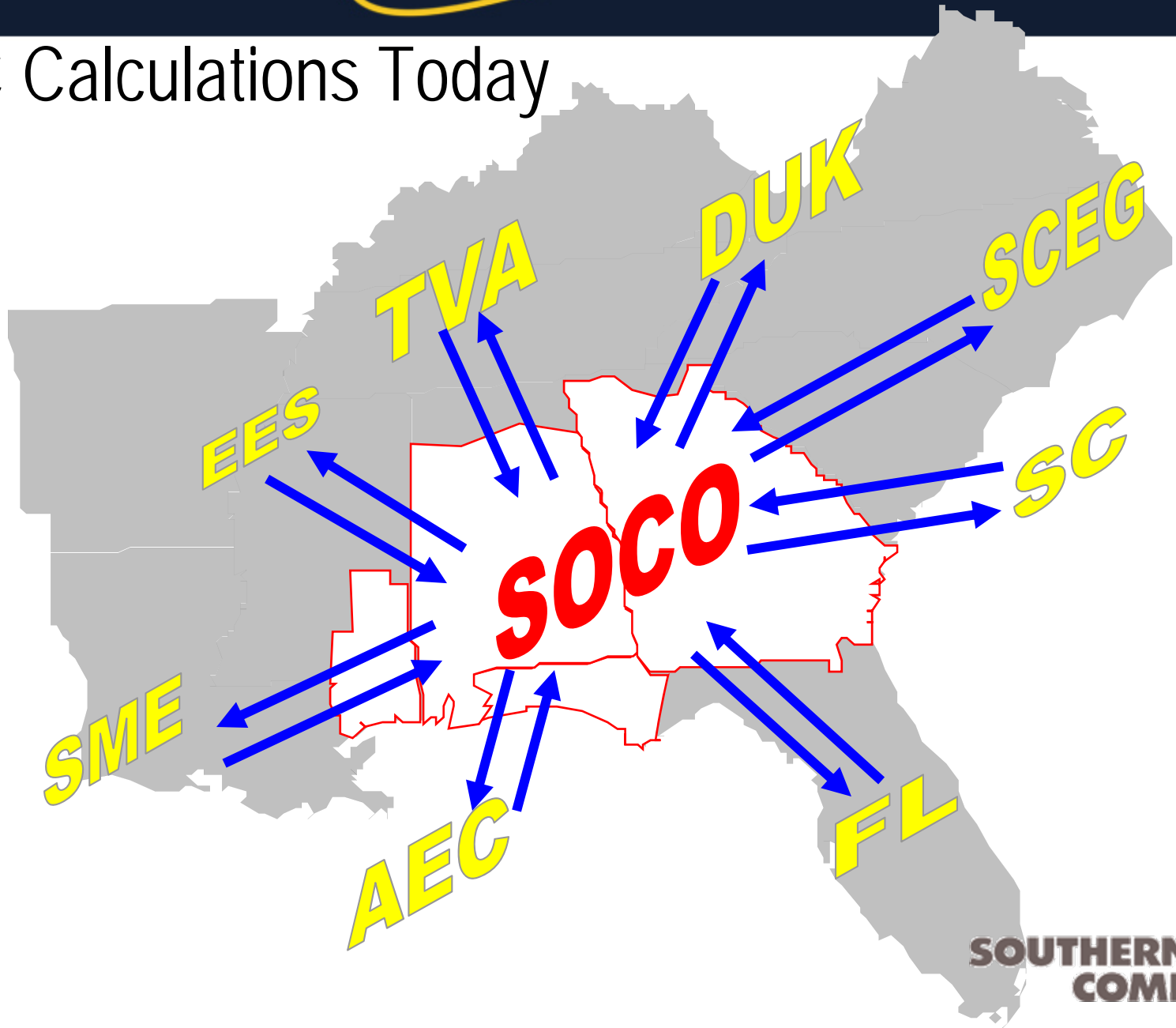
Why... (Maintaining Reliability)

- **Interruption** – A pre-emption of lower priority service when ATC is needed to grant requests for higher-priority service
 - usually implemented in advance of a schedule start
 - example: Hourly non-firm request bumps Hourly redirect request
- **Curtailement** – A reduction in aggregate schedules for reliability to relieve a transmission constraint
 - often happens after a schedule begins
 - non-firm curtailed by economics (value of service) and duration (e.g., hourly curtailed before daily)
 - all firm curtailed pro-rata

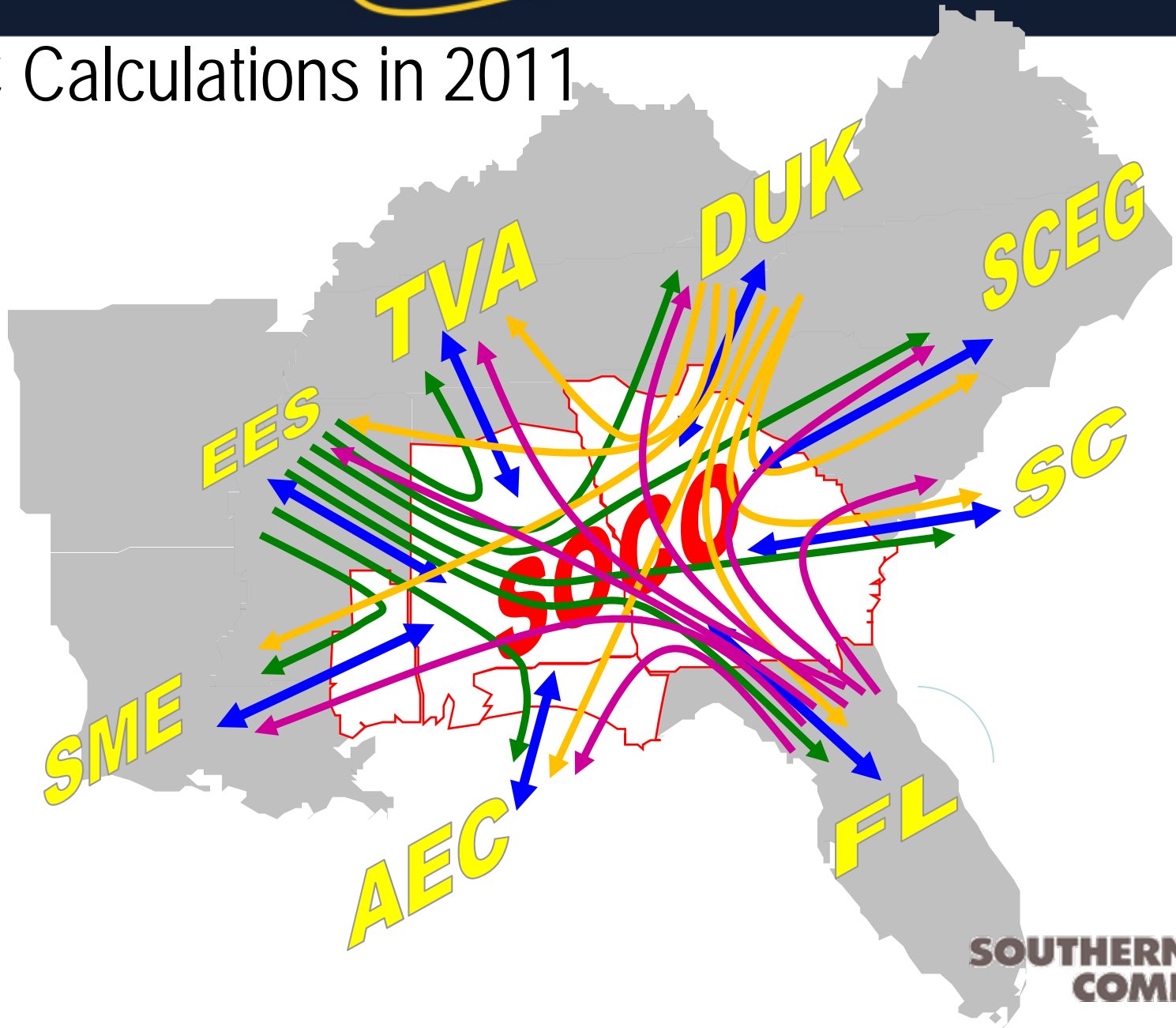
What's Changing on OASIS in Spring 2011

- NERC "MOD" (ATC/TTC) Standards effective April 1, 2011
 - requires posting of additional information regarding the Transmission Provider's determination of TTC and ATC, TRM, and CBM
 - information to be contained in **Implementation Documents**
 - ATCID, TRMID, CBMID
- Standards require explicit TTC calculation for every path
 - SOCO study process will expand to some degree
 - posted path configuration may change
 - goal is to minimize the impact to our customers

TTC Calculations Today



TTC Calculations in 2011



OASIS – The 3 “W’s”

- **Where...** is the information I’m looking for?
 - Offerings, Reservations, General Information
- **When...** will my request get answered?
 - next-day requests beginning around 0600
 - longer term requests dependent on several factors
- **Why...** did ATC change, etc.?
 - maintain reliability
 - query audit templates for details

Questions or Comments?

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