NAESB/OATI WEBREGISTRY INFORMATION SESSION
About NAESB

- NAESB develops standards for the wholesale gas and electric markets and model business practices for the retail gas and electric markets.
- Our standards development process has been accredited by the American National Standard Institute.
- NAESB owns and maintains several technical standards, including OASIS Standards and Communications Protocols.
In 2007, both NERC and NAESB determined that NAESB was the more appropriate organization to maintain the Electric Industry Registry, in recognition of the Registry’s primary use in commercial contexts, as opposed to reliability contexts.

The specifications for the new Registry were developed within NAESB’s open process through the Joint Electric Scheduling Subcommittee (JESS).

In February of 2010, NAESB released its RFP for an Electric Industry Registry Administrator.

OATI was selected as the EIR Administrator.
Background on Registry Transfer

- NAESB initially issued the Request for Proposal and made several key decisions on system design, including:
  - *webRegistry requires reregistration* - Clean up Registry data
  - *Annual fees would be charged* - Ensuring that obsolete, outdated entries would be removed from the database
Additional Features of webRegistry

- Initial Registration will clean up Database
- Participant control over entry, modification, and deactivation of data
- Annual Renewals will keep Database content relevant
- Modification of data can occur when convenient – prepare ahead of time
Data Transfer

- Part of the migration to a new system requires the input of necessary information.
- As a benefit of this new system, and to prevent the inclusion of outdated information, all participants will have to re-register their information in the webRegistry.
webRegistry Project Schedule

- webRegistry INFOSESSIONS: Feb 2 - 16.
- webRegistry Training Sessions: Feb 27 – Mar 16.

Registration Process.
- Early Registry Set Up: March 19 - 21
- Infrastructure Registration: March 22 - 26
- General Entity Registration Begins: Mar 28

Parallel Operations.
- TSIN still official, but both systems publish.
Scorecard and Critical Decision Points

- webRegistry will generate a report to compare information registered in the TSIN Registry, but not yet registered in the webRegistry System.

- Development of a score card for final deployment.
  - Unregistered entities that need to be registered.
  - Make decisions on the go-no-go for first publication availability.
  - Make decisions on retiring the TSIN registry.
INFOSESSION Structure

- Introduction to the webRegistry System.
- Familiarization of Features.
- Overview of Registration/Publication Process.
- Preview of Communication.
- “How to” Training Sessions begin February 27.
  - Step-by-step details.
  - Documentation to Accompany Training Sessions.
INFOSESSION Structure

- OATI overview of system features and process
Trade Secret

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Overview

• webRegistry background
• Registration overview
• Functionality of webRegistry
• Review of major enhancements
• Project Schedule overview
• Communication
OATI webRegistry Background

• OATI webRegistry will replace the current Transmission System Information Networks (TSIN) Registry

• The North American Energy Standards Board (NAESB) provided the requirements for the Electric Industry Registry (EIR)

• webRegistry was developed by OATI to perform NAESB EIR functions
  – OATI will remain responsible for the webRegistry system administration functions
webRegistry Background (Continued)

• Web-based system allowing industry participants to register and maintain their company information

• Companies will be able to register new information, and modify or decommission existing information that is used in transmission and scheduling procedures
Registration Overview

- 2 or 3 steps to registration
- Approval in-between each step
Step 1

- Industry participants must first request registration privileges via public web page
- A digital certificate issued by a registered, NAESB-approved certificate authority is required for registrations
- Approved Registration Requests result in an Initial Registration Applicant account being created in webRegistry
Step 2

- **Initial Registration**
  - *Enter required Entity data*
    - Entity’s root-level company information
    - Creation of at least one Entity code/role pair for the new Entity
  - Approval is required from NAESB and ERO
  - Approval results in formal addition to the registry

Registration Request ➔ Initial Registration ➔ Complete Registration

Step 2
Step 3

- Once registration is approved
  - *Payment is processed*
  - “Applicant” role changes to “Entity Admin”
  - *Can register*
    - Additional Entity role/code pairs
    - New users
    - Enter additional information (*i.e.*, POR points, Source points, *etc.*)
Step 3 (Continued)

• Upon payment
  – Entity information will appear in future published registry versions

• webRegistry also supports the delegation of data management responsibilities to other entities
Registration Highlights

• Data Entry
  – *Most data entry and management operations are available via the web-based user interface displays*
  – *Bulk upload capability is provided for POR/POD and Source/Sink points*

• Entity Administrators can enter, modify, and deactivate their existing registry information
• Per NAESB policy requirements, certain actions (data creation, modification, and deactivation events) are subject to an approval process

• *webRegistry will issue notifications to approvers and record all of their approval actions*

<table>
<thead>
<tr>
<th>Data and Attributes</th>
<th>Ownership (Creation, Modification, Deactivation)</th>
<th>Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request for Application</td>
<td>Unknown Party</td>
<td>NAESB</td>
</tr>
<tr>
<td>Entity Registration (ERO, RE, RC, MO)</td>
<td>Registry Administrator/Entity</td>
<td>NAESB, ERO</td>
</tr>
<tr>
<td>Entity Registration (all other entities)</td>
<td>Approved Applicant</td>
<td>NAESB, ERO</td>
</tr>
<tr>
<td>Entity Code/Role (except for NAESB and ERO)</td>
<td>Entity</td>
<td>NAESB, ERO</td>
</tr>
<tr>
<td>Interconnection</td>
<td>Registry Administrator</td>
<td>NAESB, ERO</td>
</tr>
<tr>
<td>Control Zone</td>
<td>BA</td>
<td>None</td>
</tr>
<tr>
<td>Source/Sink Point</td>
<td>BA</td>
<td>None</td>
</tr>
<tr>
<td>Source/Sink Point</td>
<td>LSE/GPE</td>
<td>BA</td>
</tr>
<tr>
<td>Transmission Path</td>
<td>TSP</td>
<td>BA (SE)</td>
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<td>POR/POD Point</td>
<td>TSP</td>
<td>None</td>
</tr>
</tbody>
</table>
webRegistry Functionality

• webRegistry will allow users to enter, change, or deactivate information with in-service and out-of-service dates
  – Creates “Effective Dates” for records

• All information in webRegistry is entered with start and end dates
webRegistry Functionality (Continued)

- Publications of the webRegistry database can have effective dates.
- When the registry is published, only the information active at the time of publication’s effective date is linked to the published version.
- This capability allows industry participants to conveniently prepare data in the registry ahead of time.
webRegistry Functionality (Continued)

- When information is modified, a new version is created with a new start date
- The previous version is also retained in the system with its end date set to be the day before the start of the new, modified version of the record
- Provides complete audit trail history

![Diagram showing original record, initial record, modified record over time]

Modified
webRegistry Publication

- The contents of the registry database are published in a process called Publication
webRegistry Publication (Continued)

- Registry Publication represents an official snapshot of all data in the webRegistry at a specific point in time
  - Publication contains only records that have been approved
  - A published Registry version is retained in history indefinitely
webRegistry Publication (Continued)

• webRegistry Publication process will be initially configured to match current TSIN release methodology

• Delta report displays changes in data from a previous Publication to the current
Data Downloads

• webRegistry will provide several methods to download data
  
  – Compliant with the current NERC TSIN Registry Process
    
    – MDB
    
    – CSV
  
  – New data format
    
    – XML
Data Downloads (Continued)

- Data files of published registry versions will be
  - *Posted on an FTP site*
  - *Provided for immediate download via SOAP/XML web services for certain critical applications (e.g., e-Tagging)*
Digital Certificate

• Digital Certificates are required for access to the webRegistry system

• Certificates must be from NAESB approved Certificate Authorities (CAs) registered in the system
Audit Trail

• Comprehensive audit trail to track information creation, deactivation, and modification

• History fields will track
  – *Approval actions taken by users*
  – *Payment history*
Registration

- webRegistry will support the registration of specific services/applications
- Application Service Providers (ASPs) are specific Entity role in webRegistry
- ASP will register the services it provides along with service attributes (i.e., URL)
Registration (Continued)

- webRegistry allows users to pay annual dues using a major credit card
- Credit card information is not stored in webRegistry for security reasons
- Email notices delivered
  - In advance of due date
  - On due date
  - At the end of grace period
Registry Comparison

• TSIN Registry
  – *Industry participants contact NERC to enter information into the registry*

• webRegistry
  – *Industry participants will have the ability to enter, modify, and deactivate existing registry data records that fall under the jurisdiction of their Entity*
Registry Comparison (Continued)

- **TSIN Registry**
  - *Single version of information*
  - *Creation/ modification/ deactivation of data record must be coordinated on day before action*

- **webRegistry**
  - *Data records have effective dates - support for multiple versions*
  - *Creation/ modification/ deactivation of data records can occur when convenient before action*
Registry Comparison (Continued)

- TSIN Registry
  - *Content of a publication is based on date publication is performed*

- webRegistry
  - *Future versions of the registry can be viewed based on Effective Date of publication*
  - *Permits future glimpses of the registry*
Registry Comparison (Continued)

- **TSIN Registry**
  - *Published registry versions available in*
    - MDB
    - CSV

- **webRegistry**
  - *Published registry versions initially available in*
    - MDB
    - CSV
    - XML
    - SOAP/XML web services to immediately download registry data
Registry Comparison (Continued)

- TSIN Registry
  - $100 USD annual registration maintenance fee

- webRegistry
  - $250 USD initial registration fee per Entity Code/Role pair
  - $150 USD annual dues
  - Removes obsolete data from the system
webRegistry Project Schedule

- INFOSESSIONS: February 02 - 16, 2012
- Training Sessions: February 27 - March 16, 2012
- Registration in webRegistry
- Parallel Operations Period
- Decommission of TSIN Registry
webRegistry Project Schedule (Continued)

- Transition process from the TSIN Registry to webRegistry
  - *Phase I: Registration of All Entities and information*
  - *Phase II: webRegistry Replaces TSIN Registry*
Phase I: Registration

- During the registration, participants will perform the following tasks
  - Verify, correct, and confirm their commercial, scheduling, and contact information
  - Register their information within webRegistry
  - Pay their annual dues
  - Create necessary users in the system and assign proper roles to them
Phase I: Registration (Continued)

• Registration: March 19 - May 14, 2012
  – Early registry set-up: March 19 - 21, 2012
  – Infrastructure registration: March 22 - 26, 2012
  – General Entity registration begins: March 28, 2012
  – Tentative-First Publication of webRegistry: May 14, 2012
Phase II: Replacement

• In this phase
  – The current TSIN Registry will continue to operate in parallel with the webRegistry
  – TSIN Registry process will be decommissioned and fully replaced by webRegistry
  – webRegistry will become the sole source of registry data
Phase II: Replacement (Continued)

• First Publication: May 14, 2012- tentative
• Parallel Operations: To be decided by NAESB
• Replacement of TSIN
  – Final date of parallel operations will be at NAESB direction
Phase III: More to Come

- Third phase to the overall webRegistry project incorporate WECC WIT information
- Phase III: Registration of WECC WIT information
  - Details after implementation of Phase II
    - Dates will be updated as the project progresses
Communication Process

• NAESB and OATI
  – webRegistry website: www.naesb.org/weq/weq_eir.asp
    • Meeting schedule
    • FAQ document
    • Future documentation
  – E-mails announcing Training Sessions and Registration
  – Contact Support@OATI.net to receive monthly webRegistry updates
  – Industry publications/meetings
  – OATI system notices
  – Questions? Contact Support@OATI.net
Communication Process (Continued)

• Documentation
  – “How-to” Quick Start Guides
  – Checklists
  – User Manuals
  – Technical Guide
Training

- Training Sessions (February 27 - March 16, 2012)
  - 15 webinar sessions, 2 In-Person Sessions

- “How To” for using the webRegistry system
- Parallel “Quick Start” action guides
- Project Schedule and Registration Dates update
Training (Continued)

- Please contact Support@OATI.net with questions

- webRegistry website: www.naesb.org/weq/weq_eir.asp
Thank You

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