

Minutes Joint Electric Scheduling Subcommittee

January 21–22, 2010
Irving, Texas

A meeting of the North American Electric Reliability Corporation (NERC) and the North American Energy Standards Board (NAESB) Joint Electric Scheduling Subcommittee (JESS) was held on January 21–22, 2010 in Dallas, Texas. JESS Co-chairs Bob Harshbarger and Jim Hansen presided.

The meeting attendance list is attached as **Exhibit A**.

Antitrust Compliance Guidelines

Secretary Vandervort acknowledged the NERC Antitrust Compliance Guidelines.

Minutes of the Previous Meetings

The JESS reviewed two sets of meeting minutes from previous meetings. Ed Skiba moved to approve the September 1–2, 2009 meeting minutes as edited, see **Exhibit B**. Ed Skiba moved to approve the November 18–19, 2009 meeting minutes as edited, see **Exhibit C**. Both motions were approved.

Agenda Approved

The JESS added the September 1–2, 2009 meeting minutes review and approval to the meeting agenda. Ed Skiba moved to approve the revised meeting agenda. The motion was approved by the JESS.

NERC OC Approves the NERC JESS Scope – Information Item

During the NERC Operating Committee meeting in December, 2009, the OC approved the revised Joint Electric Scheduling Subcommittee (JESS) Scope. This included the name change from the Joint Electronic Scheduling Subcommittee to the Joint Electric Scheduling Subcommittee.

NAESB Confidentiality Agreement Status

NAESB staff posted the NAESB Non-Disclosure Agreement (NDA) for industry comment from December 16, 2009 through January 15, 2010. The JESS reviewed all the comments submitted and found the majority were “legal” and/or beyond the scope of the JESS’s expertise. The exceptions where the JESS felt they could provide input to the NAESB WEQ EC are contained in **Exhibit D**.

JESS chairs request the NAESB staff post the JESS comment-evaluation / response to the EC posting as late entries, based on the review of industry comments after the closing of the comment window.

Transition of Electric Industry Registry (EIR) from NERC to NAESB

Ed Skiba informed the JESS that NAESB Electric Industry Registry (EIR) request for proposals (RFP) is being addressed by NAESB staff. Mr. Skiba reported that NAESB staff will check with NERC staff on registry concerns of which he did not know the nature. JESS requests a status report from NAESB staff on the transition of the EIR from NERC to NAESB during the next JESS meeting.

NAESB e-Tag Specifications and Schema – Information Item

The e-Tag specifications are being maintained by NAESB. To access the NAESB e-Tag Specifications and Schema, please visit the following NAESB protected Web site:

http://naesb.org/member_login_form.asp?doc=weq_etag_specification_v181_102709.pdf

NAESB 2010 Annual Plan for the WEQ – JESS-Related Items

The JESS reviewed and discussed the JESS related items on the NAESB 2010 wholesale electric quadrant (WEQ) Annual Plan. The JESS updated the WEQ annual plan, see **Exhibit E**. Chair Bob Harshbarger will present the updates to the NAESB Executive Committee at the next EC meeting in February, 2010.

e-Tag Specifications V1.8.1 Revision Implementation

The JESS reviewed and edited the respective support documents for the implementation of the e-Tag Specifications V1.8.1 revision. The following documents include the latest enhancements by the JESS:

- Draft e-Tag Specification V1.8.1, Implementation Letter, to be distributed approximately February 12, 2010, from JESS Co-chairs Bob Harshbarger and Jim Hansen, **Exhibit F**
- e-Tag Specification V1.8.1, Change Narrative, **Exhibit G**
- e-Tag Specification V1.8.1, Cut-over Plan, **Exhibit H**
- e-Tag Specification V1.8.1, Test Plan, **Exhibit I**

Regarding the implementation process, e-Tag vendors should note the following:

- Vendors should provide test URLs or contact information for informal and formal testing to the test authority service.
- Test authority services should be available by January 25, 2010. The test system availability window is 8 a.m. to 7 p.m., CST.
- February 2, 4, 9, and 11, 2010 are the structured testing dates. Testing will begin each day at noon, CST.

- e-Tag Specifications V1.8 to V1.8.1 cut-over is planned for March 16, 2010, commencing at 21:30, CDT and being finished by 22:00 CDT.

WEQ-004, Coordinate Interchange Business Practice Standard

The JESS discussed the WEQ-004 Coordinate Interchange Business Practice Standard revision. The JESS believes that because of the dependency of the WEQ-004 on the NERC Project 2008–12 Coordinate Interchange Standards revisions, WEQ-004 will not be able to be revised until the NERC INT standards are revised or progress is made on the revision process. See the NAESB 2010 Annual Plan for the WEQ, Item 3.a.vi.

Implementation of Secure e-Tags (URLs)

The JESS is requesting the e-Tag vendors work with their customers to encourage conversion of any remaining http URLs to https URLs in the NERC registry. JESS would like this work completed prior to the conversion to e-Tag Specification V1.8.1, which is targeted for March 16, 2010.

Based on data in the TSIN registry as of January 13, 2010:

- of the PSEs, 356 have converted to “https” and 531 have not
- of the BAs, 47 have converted to “https” and 46 have not
- of the TSPs, 100 have converted to “https” and 72 have not

There are numerous entries in the TSIN registry that appear to be invalid. Therefore these counts may include non-converted, non-active entities. JESS will work with NERC and NAESB to identify and remove non-active entities from the registry. The JESS looks forward to working with the e-Tag vendors to develop a strategy to achieve 100 percent compliance with the intended secure server “https” URLs for all e-Tag registry users.

Dates and Locations of Future Meetings

Additional meetings or conference calls may be scheduled as necessary for the development and implementation of the e-Tag, version 1.8.1 or other JESS-related business. Look for additional information and meeting details on the NERC JESS Web site and on the NAESB JESS Web site.

JISWG Meeting/Conf Call/Webcast Schedule

	Date	Time	Location	Meeting Coordinator
Meeting	Wed, May 19, 2010 Thurs, May 20, 2010	10 am – 5 pm 9 am – noon	MISO Office Carmel, IN	MISO Office 701 City Center Drive Carmel, Indiana 46082-4202 MISO Contact: Ed Skiba

				Midwest ISO Carmel, IN NAESB Contact: Cory Galik-Cummings Or Veronica Thomason
Meeting	Wed, July 14, 2010 Thurs, July 15, 2010	10 am – 5 pm 9 am – noon	Location: to be coordinated by NERC Seeking volunteer location	To be Determined NERC Contact: Tom Vandervort
Meeting	Tues, Sep. 21, 2010 Wed, Sep. 22, 2010	This JESS Meeting was cancelled on January 22, 2010		
Meeting	Thurs, Nov. 18, 2010 Fri, Nov. 19, 2010	10 am – 5 pm 9 am – noon	Houston (tentative) NAESB Office Or volunteer location	NAESB Office (tentative) North American Energy Standards Board 1301 Fannin Street, Suite 2350 Houston, Texas 77002 NAESB Contact: Cory Galik Cummings or Veronica Thomason

Future NERC-hosted JESS meetings are to be held at region, utility, or volunteer facilities.

Respectfully submitted,

Tom Vandervort

Thomas J. Vandervort
 NERC JESS Secretary

Meeting Attendance List

Joint Electric Scheduling Subcommittee

January 21, 2010 | 10 a.m.–5 p.m., CST
 January 22, 2010 | 9 a.m.–12 p.m., CST
 Westin Dallas Fort Worth Airport
 Irving, Texas

Attendance:	Meeting Participant
Jim Hansen	Y
Bob Harshbarger	Y
Tom Vandervort	Y
Ed Skiba	Y
Clint Aymond	Y
Daniel Farmer	Y

Via Phone:		
Corey Galik-Cummings	Y	
Jim Cyrulewski	Y	
Bert Gumm		Y
Larry Stone	Y	
Shari Brown	Y	
Dan Baisden	Y	
Tim Kannel	Y	
Mark Robinson		Y
Barbara Rehman	Y	
Doris Huey		Y

**North American Energy Standards Board**

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TO: NERC/NAESB Joint Interchange Scheduling Working Group (“JISWG”) Participants and Interested Parties
FROM: Cory Galik Cummings, NAESB Staff Attorney
RE: Final Minutes from the NERC/NAESB JESS Meeting – September 1-2, 2009
DATE: January 22, 2010

**NORTH AMERICAN ENERGY STANDARDS BOARD
NERC/NAESB JOINT ELECTRIC SCHEDULING SUBCOMMITTEE (“JESS”)
Meeting
September 1, 2009 – 10:00 AM to 5:00 PM Central
September 2, 2009 – 9:00 AM to 12:00 PM Central
FINAL MINUTES**

1. Administrative

Mr. Harshbarger welcomed the participants to the meeting and the participants introduced themselves. Ms. Cummings provided the antitrust guidance. Mr. Harshbarger reviewed the agenda. Mr. Aymond moved to adopt the agenda as drafted and Mr. Vandervort seconded the motion. The motion passed without objection. The group reviewed the July 15-16 draft minutes and made minor corrections. Mr. Vandervort moved to approve the minutes and Mr. Skiba seconded the motion. The motion passed unanimously.

2. Coordinate and Unify JESS Name, currently it is NAESB Joint Electric Scheduling Subcommittee and NERC Joint Electronic Scheduling Subcommittee

In review of the NAESB WEQ Executive Committee meeting and the NERC Interchange meetings it was discovered that there was a discrepancy in the meaning of JESS between NERC and NAESB. NAESB approved the term Joint Electric Scheduling Subcommittee and NERC approved the Joint Electronic Scheduling Subcommittee. A motion to recommend the NERC Interchange Subcommittee change the term to Joint Electric Scheduling Subcommittee was made by Mr. Skiba and seconded by Mr. Aymond. The motion passed unanimously.

3. Discuss the Next Steps for all e-Tag Vendors to Implement Secure e-Tags (https)

Earlier this year, the subcommittee sent a letter to the industry through the NERC exploder requesting entities currently in the TSIN registry to revise their URLs from http to https. The deadline to change their URLs was today and there are still some entities that have not done so. The question for the subcommittee was whether to re-issue the letter with another request to change it. At some point, those non-secure URLs may be removed. Mr. Vandervort noted that NERC created the current ability to use both http and https to allow companies time to make the change. Mr. Harshbarger said it was not known if the entities that did not make the change were still active. It was agreed that another letter would be sent to the industry to urge registrants to change their registry to https with a given date after which the non-secure URLs will no longer be supported. Mr. Harshbarger drafted the [letter](#) following the conclusion of the subcommittee meeting.

4. Develop Industry Implementation Plan for Meeting PKI Standards Requirements for e-Tagging

At the last JESS meeting the status for e-Tag implementation was underway. The annual plan should be updated to make the target deadline November, 2009. The annual plan item is linked to the EIR implementation and the development of the certification program for e-Tag and OASIS by the board certification committee.

5. e-Tag 1.8.1 Implementation



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Work was completed earlier this year on the e-Tag transition from NERC to NAESB. The former JISWG submitted its recommendation to the Wholesale Electric Quadrant Executive Committee (WEQ EC) to adopt the specs and schema. However, the subcommittee did not believe the document should be submitted to the FERC with the other WEQ standards. A question arose as to how the EC would adopt the specs and schema if it was not included as a business practice. Ms. McQuade answered that the EC adopts work papers and guidelines with a simple majority vote. It will not go out for membership ratification and will be posted on the NAESB website without password protection. The JESS would be responsible for developing the instructions on how to maintain the document, which would also require EC approval via a simple majority vote.

At the last JESS meeting, participants identified items requiring interoperability testing. In order to conduct the testing, test plans are needed. Volunteers were requested at the last meeting to create these test plans, but nobody volunteered. This issue was addressed at the August 18 WEQ EC meeting and Ms. McQuade stated that if there were no volunteers, she would look for one. Mr. Harshbarger once again asked for volunteers and noted that if the test plans are not written, the interoperability testing will not occur and the group could not proceed with the functional changes. Mr. Stone volunteered to create a first draft. Participants reviewed the document titled [7/17/09 Requires InOp Testing](#).

Concern was raised at the last meeting regarding the forwarding URL. This discussion went on for some time at the last meeting and the motion to remove this item from the spec did not pass. Discussion ended when the subcommittee agreed to continue the discussion online via the email exploders. Mr. Harshbarger sent out an email and to his knowledge there was no discussion on the issue. Mr. Vandervort noted that while the vote to eliminate the forwarding URL failed, a motion to purge all of the current listings did pass. During industry comment, several comments stated that the commenter was unfamiliar with the forwarding URL and did not object to purging it. The purge date is scheduled for October 1, 2009. Mr. Stone had volunteered to draft the spec language on this issue and sent it to Mr. Harshbarger in an email. Participants discussed whether or not to keep the forwarding URL language in the spec and consider it in the future. Mr. Dempsey noted two issues he had with the forwarding URL. The first issue is technical, which Mr. Vandervort and Mr. Stone were attempting to address; the second was the concern that at the last meeting there was only one industry participant involved in the discussion. The other participants were e-Tag vendors. Mr. Vandervort disagreed. He stated that most customers do not attend these meetings and rely on the vendors to express their viewpoint. Several customers have asked about the forwarding URL in an effort to better understand it. It was suggested that a white paper be created to explain its functionality. The subcommittee reviewed the [email discussion](#) and the [e-tag 1.8.1 spec changes](#). Mr. Stone noted that the authority service will only send a message to the entities on the distribution list to primary and forwarding URLs. It is up to them to register those URLs so that an entity has control over where a URL is sent. Mr. Dempsey said the spec, as written, allows a message to be sent to one URL. Mr. Stone answered that the URL has to be prepared to receive it as the entity in the tag and act upon it as the entity in the tag. The spec does not restrict where the message can be sent from, only on where they can be received. It was suggested that the items be included in the spec and ensure it is accounted for in the test plan development; it is easier to remove it from the spec than to add it in the future. The EC has the ability to strike or modify documents that are before them for approval. Mr. Skiba noted that the JESS meeting was scheduled for October 20 to review comments prior to the EC meeting. The subcommittee worked to [revise the 1.8.1 spec](#).

Next, the subcommittee revised the [1.8.1 Implementation Announcement](#). They also discussed whether or not they were on target to reach the December 8 deadline. They created a [1.8.1 Timeline Development](#) document. The [1.8.1 Cutover Plan](#) document was reviewed.

Mr. Skiba moved, seconded by Ms. Wesley, to approve the 1.8.1 spec as modified for a 30 day formal comment period, to be considered by the WEQ EC at their next meeting.

6. Review Comments Submitted on revised WEQ-004 Coordinate Interchange Business Practice Standard



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First, the subcommittee reviewed [Midwest ISO's comments](#), which were minor editorial comments. All revisions proposed by Midwest ISO were accepted.

Next, the subcommittee reviewed [SMUD's comments](#). Participants discussed SMUD's recommendation to strike the last sentence in WEQ-004.6.1.2. It was understandable that this sentence appeared to be unnecessary but it described the situation when a submitter of the tag is also exercising optional approval rights, which was documented in the functional spec. The sentence was revised to add more clarity. Finally, [SRP's comments](#) were addressed and clarifying language was added to WEQ-004.2.1.2.4.

Mr. Skiba moved, seconded by Mr. Aymond, to approve for posting for formal comments the recommendation for WEQ Annual Plan Items 1.a and 3.a.vii as finalized and cleaned up by NAESB staff. The motion passed unanimously.

7. Review Comments Submitted on the NAESB Non-Disclosure Agreement

The subcommittee reviewed Entergy's redlined edits to the Non-Disclosure Agreement.

Next, the subcommittee reviewed Midwest ISO's comments that request another NDA be created for third parties. Should third parties be required to sign the NDA and does NAESB want to take on the responsibility of tracking down all of those entities that sign? Mr. Skiba stated that he approved of Entergy's comments. Discussion continued with [Alabama Municipal Electric Authority's comments](#). The intent of the document is for it to be a bilateral contract between NAESB and a company. The subcommittee agreed that Mr. Boswell should review the document to see if he has any additional changes prior to posting. This will be discussed at the November JESS meeting.

8. Adjourn

Ms. Wesley moved to adjourn the meeting. The motion passed unanimously and the meeting adjourned at 11:51 am Central.

9. Attendance

Name:	Organization:	Attendance
Clint Aymond	Entergy	In Person
Dan Baisden	Southern Company Services	Phone
Ernie Cardone	New York ISO	Phone
Cory Galik Cummings	NAESB	In Person
Jim Cyrulewski	Midwest ISO	Phone
Jerry Dempsy	OATI	In Person
Bert Gumm	OATI	In Person
Bob Harshbarger	Puget Sound Energy	In Person
Tim Kannel	MCG Energy Solutions	Phone
Brian Lewis	OATI	Phone
Cheryl Mendrala	ISO New England	Phone
Ed Skiba	Midwest ISO	In Person
Larry Stone	SoftSmiths	In Person
Tom Vandervort	NERC	In Person



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via posting

TO: NAESB/NERC Joint Electric Scheduling Subcommittee (JESS) Participants and Interested Parties
FROM: Cory Galik Cummings, NAESB Staff Attorney
RE: NAESB/NERC JESS Meeting with Web Conferencing Final Minutes – November 18-19, 2009
DATE: January 22, 2010

NORTH AMERICAN ENERGY STANDARDS BOARD
NAESB/NERC JOINT ELECTRIC SCHEDULING SUBCOMMITTEE (JESS)
Meeting
November 18, 2009 – 10:00 AM to 5:00 PM Central
November 19, 2009 – 9:00 AM to 12:00 PM Central
Final MINUTES

1. Administrative

Mr. Harshbarger welcomed the participants to the meeting. Ms. Cummings gave the antitrust guidelines. The participants introduced themselves on the phone. The adoption of the meeting minutes was moved on the agenda to November 19. Mr. Skiba moved to adopt the agenda as revised. Mr. Vandervort seconded the motion. The agenda was unanimously approved.

On November 19 the JESS reviewed the October 20 draft meeting minutes. Mr. Skiba proposed a change in section 3 and created a new paragraph stating that the JESS agreed the need for a schema change was eliminated with the incorporation of Alternative 1. One other minor modification was made to the attendance list.

Next, the October 30 draft meeting minutes were reviewed. Minor typographical and several clarifying edits were made. The motion to approve both the October 20 and October 30 meeting minutes was made by Mr. Skiba and seconded by Mr. Stinson. The motion passed unanimously.

2. e-Tag Version 1.8.1

The subcommittee discussed and reviewed the Interoperability Test Plan. At the October 30 conference call, the subcommittee voted to delay implementation of e-Tag version 1.8.1 to the first quarter of 2010 because the documentation was not ready for review.

The subcommittee reviewed the [e-Tag 1.8.1 Test Plan](#). There have been no comments on this document. Mr. Harshbarger said that on interoperability testing, he would like to know that the vendors that will participate think it is sufficient but he has not heard from them. The representatives from SunGard did not have any complaints on the document. After further discussion, the group added Test 29: Data Recovery, including partial recovery. The testing will occur in February.

The subcommittee also reviewed the revised [e-Tag 1.8.1 document](#) and section 8.2.3 – Interoperability Testing Period. A one month minimum is required to deploy the modified software in preparation for the implementation subsequent to the successful completion of all tests. The goal is to test in February with a mid-March target date to deploy. e-Tag 1.8.1 is complete and the lost edits were restored to the best of everyone's ability at the last Executive Committee meeting. The approved spec is on the NAESB WEQ EC page. Revisions that were made at the EC meeting were based on the formal comments received and reflect the changes from the October 20 JESS meeting.

The subcommittee ultimately agreed that the Test Authority Services will be available starting January 25, 2010; the structured testing will occur on Tuesdays, February 2 and 9 and Thursdays, February 4 and 11; the deployment will begin March 16, 2010.

The existing TSIN registry will not be modified. The registry will transition from NERC to NAESB with a target completion date of first quarter, 2010. This is currently being addressed by the NAESB Managing Committee.



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Once NAESB takes control of the registry it will take a year to complete and send out the Request for Proposal (RFP), review and select a vendor and successfully negotiate a contract.

Next, the subcommittee reviewed the [e-Tag cutover plan](#) based on the 1.8 cutover. In the past, time was allotted for services to be taken offline to allow time to make configuration changes to the servers. While the vendors noted that the time offline is not required, it is beneficial. It is most useful to allow for a 30 minute period in the evening to shut the system down in order to implement and deploy software. The cutover date was tentatively scheduled for March 9, 2010.

The subcommittee agreed that the JESS will provide a narrative of changes to the vendors on December 15 to allow them to provide their user base a summary of functional changes.

The [e-Tag Version 1.8.1 Implementation Letter](#) was revised by the subcommittee. This will be reviewed again during the January JESS meeting.

Finally, the subcommittee reviewed and updated the [Change Log Narrative](#).

3. Update on NERC Project 2008-12: Coordinate Interchange – INT Standards

Earlier this year the INT standards were revised and the first set of revisions to the INT standards were posted last week, which included a recommendation to eliminate several standards. New language was also added to address the way in which models are tagged and information is exchanged on dynamic transfers, which includes dynamic and pseudo tie transactions. Mr. Hansen will review the standards and comments and send to Mr. Harshbarger any potential technical comments for the JESS.

A question arose regarding the difference between a Transmission Provider (TP) and a Transmission Service Provider (TSP). Mr. Skiba answered that TPs on OASIS are tied to the pro forma OATT and the TSPs are tied to NERC standards. At this point, NERC does not have TP identified in the Functional Model. The subcommittee discussed identifying the roles and responsibilities of each. NAESB is making an effort to align its glossary with NERC terms in an effort to avoid similar confusion in the future.

4. Review of the Non-Disclosure Agreement

The subcommittee reviewed the [revised Non-Disclosure Agreement](#). The motion for the JESS to approve the Non-Disclosure Agreement and to post for a 30 day formal comment period was made by Mr. Skiba and seconded by Mr. Tritch with the understanding that the document would not be a standard and would be treated similarly to the e-Tag Functional Specification. The motion passed unanimously

5. Review of 2009 and 2010 WEQ Annual Plans

The subcommittee reviewed the 2009 and 2010 WEQ annual plans and Mr. Skiba provided a review of the changes made at the last EC meeting.

6. Review of 2010 Meeting Schedule

The subcommittee reviewed the 2010 meeting schedule. The possibility of moving the January meeting to later in the month was discussed; the March meeting was canceled; NAESB will host the May meeting held at the Midwest ISO office in Carmel, IN; NERC has tentatively agreed to host the July meeting; NAESB will host the September meeting at the NAESB office in Houston and the November meeting was changed to tentative. At the next meeting the JESS will discuss the estimated work load for the RFP and the TSIN registry. The subcommittee would like to be involved in the RFP from a technical standpoint to make sure the technical requirements are met. Participants will also discuss e-Tag version 1.8.1, finalize the industry notification letter, review of the non-disclosure agreement and any comments and any new items assigned to the JESS.

7. Adjourn

The meeting adjourned 10:04 am Central on November 19, 2009.



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8. Attendance

Name:	Organization:
Clint Aymond	Entergy
Tim Kannel	MCG Energy Solutions
Bert Gumm	OATI
Ed Skiba	Midwest ISO
Jim Hansen	Seattle City Light
Bob Harshbarger	Puget Sound Energy
Daniel Farmer	Entergy
Tom Vandervort	NERC
Andy Tritch	SunGard
Mark Sundsten	SunGard
Nick Browning	Midwest ISO
Larry Stone	Soft Smiths, Inc.
Cheryl Mendrala	ISO New England
Jim Cyrulewski	JDRJC Associates
Cory Cummings	NAESB
James Culliton	NAESB

The JESS reviewed all the comments submitted and found the majority were “legal” and/or beyond the scope of the JESS’s expertise. The exceptions where the JESS felt they could provide input to the NAESB WEQ EC are as follows:

- Based on the WECC comments 1, 2, and 3, the JESS recommends re-titling section 3 from “Recommended Standard” to “Recommended”.
- Based on the WECC comments 1, 2, and 3, the JESS recommends replacing the section 3’s “Recommended Standard” text and the text in section 4.b with:
 - **With the approval of this recommendation, all electric industry entities will be required to sign this non-disclosure agreement with NAESB as a condition to utilize the Electric Industry Registry (EIR) when the TSIN registry function transfers to NAESB. The EIR will replace the NERC TSIN registry that provides data necessary for e-Tagging and OASIS. As a result, entities that have not signed the non-disclosure agreement will not be registered in the EIR and will be unable to participate in e-Tagging, OASIS, or any other application that utilizes EIR data.**
- The JESS determined WECC’s item “f” in section 1 of the agreement is not necessary because item “b” in section 1 covers the distribution of information performed by the e-Tag Authority Service.
- The JESS recommends adopting WECC’s suggested language item “i” in section 1 of the agreement because it covers a broader set of possible conditions and because the previous “eight day” language is not completely consistent with NAESB OASIS business practice standards.
- The JESS recommends the NAESB WEQ EC consider the MISO comment/question regarding the nature of the recommendation.
- The JESS recommends adopting the SRS’s suggestion to use “ETS Data” and “Recipient” as a term through-out the document.



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NORTH AMERICAN ENERGY STANDARDS BOARD
2010 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT
As Approved by NAESB Board of Directors on December 10, 2009

Item Description	Completion ¹	Assignment ²
1 Develop business practices standards as needed to complement reliability standards		
Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
a) Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection.	2010	BPS
Note: Consideration should be given to provisional item 4. Work is being coordinated with the NERC IDC Working Group.		
Status: Started		
b) Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC	TBD	TIMTF
Status: Monitor. (Upon initiation of this item by NAESB, a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team's timeline the completion date has been changed to tbd.)		
c) DCS and AGC (BAL-002 and BAL-005) Coordination with NERC	TBD	TIMTF
Status Monitor. (Upon initiation of this item by NAESB, a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team's timeline the completion date has been changed to tbd.)		
2 Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)		
a) Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order.		
Status: Underway		
Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services," issued April 11, 2007).		
i) Group 3: Network Service On OASIS		
1) Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource	1 st Q, 2010	OASIS
Status: Underway		



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2010 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT
As Approved by NAESB Board of Directors on December 10, 2009

	Item Description	Completion¹	Assignment²
2)	Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests Status: Underway	1 st Q, 2010	OASIS
3)	Masking of Designated Network Resource Operating Restrictions and Generating Cost Information Status: Underway	1 st Q, 2010	OASIS
4)	Procedural Requirements for Submitting Designations over new OASIS Functionality Status: Underway	1 st Q, 2010	OASIS
5)	Specify How Designated Network Service Informational Postings are Posted on OASIS Status: Underway	1 st Q, 2010	OASIS
6)	Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation Status: Underway	1 st Q, 2010	OASIS
7)	Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources Status: Underway	1 st Q, 2010	OASIS
8)	Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations Status: Underway	1 st Q, 2010	OASIS
ii)	Group 4: Pre-Emption; Request No. R05019		
1)	Pre-Emption Status: Not Started	3rd Q, 2010	OASIS
2)	Request No. R05019 Status: Not Started	3rd Q, 2010	OASIS
iii)	Group 5: Paragraph 1377 – Group 5 work should precede group 4 work		
1)	Paragraph 1377 Status: Not Started	2nd Q, 2010	OASIS
2)	Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	2nd Q, 2010	OASIS



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Item Description	Completion ¹	Assignment ²
3) Group DNR requests from a system with point-to-point requests on other systems for synchronization Status: Not Started	2nd Q, 2010	OASIS
iv) Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
1) Paragraph 1390 of Order 890 Status: Not Started	4 th Q, 2010	OASIS
2) Paragraphs 1627 of Order 890 Status: Not Started	4 th Q, 2010	OASIS
3) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4 th Q, 2010	OASIS
b) Develop the needed business practices as companion to the NERC standards for ATC related efforts		
i) Develop standards to support existing Request No. R05004 .		
1) The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	1 st Q, 2010	OASIS
3 Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	1 st Q, 2010	OASIS
ii) Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037 , R06027).		
1) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	2010	NAESB/NERC Administration, JESS



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	Item Description	Completion ¹	Assignment ²
iii)	Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Deleted as a duplicate of 2009 AP item 2.a.ii.2	2011	OASIS
iv)	Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and OASIS.		
1)	Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	2011	OASIS
2)	Initiate standard that eliminates the disparity of posting "sensitive" information. This standard should also include procedures of user certification that allows access to this class of information. Status: Underway (upon further development of this item by NAESB, a completion date will be determined)	2011	OASIS
3)	Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
v)	Develop, coordinate interoperability testing, and implement e-Tag version 1.8.1 Status: Underway – as of 20100122 completed interoperability test plan, letter to industry, change narrative, and cut-over plan. Have target a implementation date of March 16, 2010.	1 st Q, 2010	JESS
vi)	Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6.  Status: Not started – dependent on NERC activity which is currently projected for NERC BOT approval December 2010 for Phase I, and 2Q 2013 for Phase II (upon initiation of this item by NAESB, a completion date will be determined)	2010	JESS
b)	Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
i)	Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	Board Certification Program Committee
ii)	Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS

Deleted: 20090716
Deleted: discussed rough time frames laid out needs test plans drafted

Deleted: [note: this is a new item]



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Item Description	Completion ¹	Assignment ²
iii) Develop Industry Implementation Plan for meeting PKI Standard requirements for e-Tagging Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation. 20100122 – server-side certificate change on-going , Voluntary registration of "https" URLs slow . JESS to work with NERC & NAESB to develop a strategy for achieving 100% compliance.	TBD – dependent on item above (i) and EIR	JESS
4 Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs		
Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
a) Review the NAESB Business Practices for Measurement and Verification of Wholesale Electricity Demand Response (WEQ-015) in conjunction with the IRC developed Demand Response Matrix and identify business practice requirements that could be improved or made clearer through the addition of specific technical detail. The wholesale and retail demand response work groups and the Smart Grid task force should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other. Status: In Progress	Phase 2	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
b) For each performance evaluation type/service type combination identified in WEQ-015, using the IRC matrix as a starting point, assess and determine what standards or guidelines, if any, should be developed to aid all participants in the use of measurement and verification methods for demand response programs in organized wholesale electric markets. If the determination is made that standards or guidelines will be developed, those items will be added as sub-items to 4(b). Status: In Progress	Phase 2	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
c) Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM Subcommittee
d) Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets. ³ This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Underway (An estimated completion date will be established in 1 st Q, 2010 after the new subcommittee has been formalized)	2010	Joint WEQ/REQ DSM-EE Subcommittee

- Deleted: tagging
- Deleted: 20090716
- Deleted: underway –
- Deleted: TSIN to accept
- Deleted: with a September 2009 target



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Item Description	Completion ¹	Assignment ²
5 Maintain existing body of Version 2.x standards		
a) Make consistency changes to Version 2.2 standards as directed by the WEQ Leadership Committee on December 12, 2007 OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
b) Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011) Status: Not Started This Standards Request was assigned to the OASIS in May 2008.	2011	OASIS
c) Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027)	TBD	OASIS
d) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003)	TBD	OASIS
e) Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism (R09015)	TBD	OASIS
6. Develop Smart Grid Wholesale and Retail Electric Standards - The wholesale and retail demand response work groups and the Smart Grid task force should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.		
a) Develop requirements and use cases for PAP 03 – Pricing Model Status: Underway	1 st Q, 2010	Joint WEQ/REQ SGS Task Force
b) Develop requirements and use cases for PAP 04 – Scheduling Model Status: Underway	1 st Q, 2010	Joint WEQ/REQ SGS Task Force
c) Develop requirements and use cases for PAP 09 – Demand Response/Distributed Energy Resources Status: Underway	1 st Q, 2010	Joint WEQ/REQ SGS Task Force
d) Act as a convener (develop and implement a plan to expedite harmonized standards development and adoption within the associated standards bodies) and develop business practice standards as needed and assigned to NAESB for PAP 10 – Standard Energy Usage Information Status: Not Started	2010	Joint WEQ/REQ SGS Task Force



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Item Description	Completion¹	Assignment²
7. Develop or modify standards to Support FERC Order No. 676-E, (Docket No. RM 05-5-013)		
a) Review standards 001-14.1.3 and 001-15.1.2 based on FERC Order No. 676-E (See ¶ 39) Status: Not Started	TBD	OASIS
b) Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72) Status: Not Started	TBD	OASIS
c) Prepare status reports every six months regarding the development of standards for the coordination of transmission service requests across multiple transmission systems (See ¶ 105). This annual plan item is tied to Annual Plan Item 2(a)(iii) Status: Not Started	TBD	NAESB Office



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PROVISIONAL ITEMS

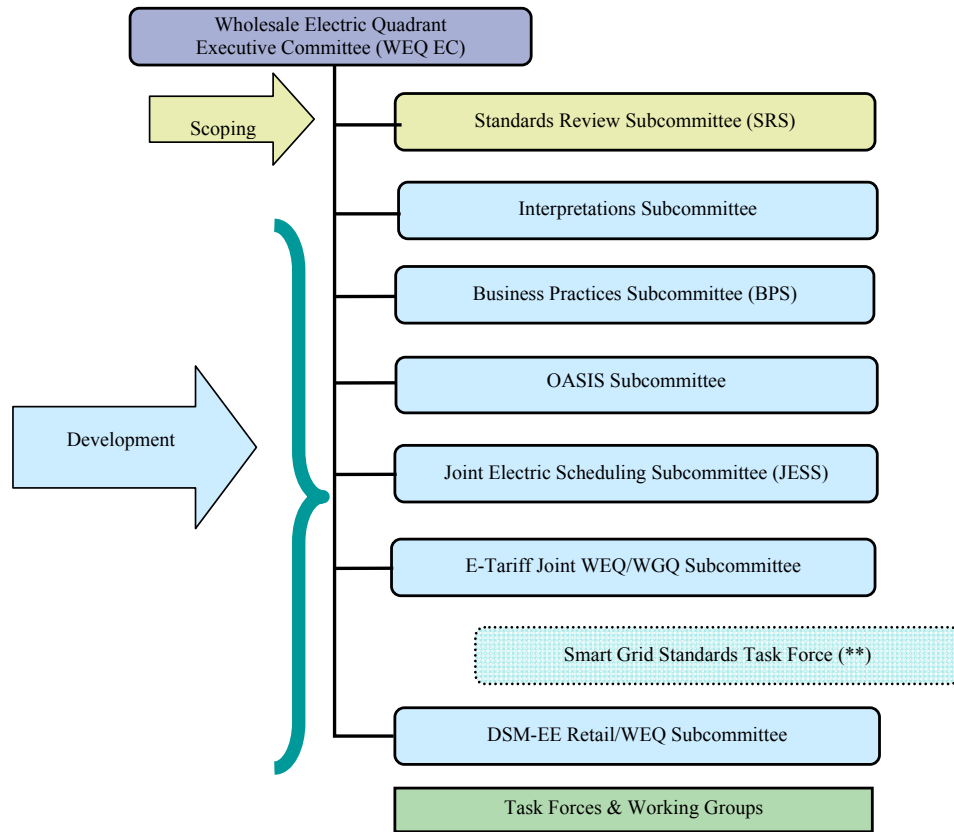
- 1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).
- 2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A ([Docket Nos. RM05-17-001, 002 and RM05-25-001, 002](#) - Paragraph 805).
- 3 Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.
- 4 Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures⁴. Work on this activity is dependent on completing 2010 WEQ Annual Plan 1.a (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection).
- 5 Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the SAR is authorized to proceed by the NERC Standards Committee.
- 6 Develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.
- 7 Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.
- 8 Develop business practice standards for cap and trade programs for green house gas
- 9 Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.
- 10 Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Common code usage is linked to the transition of the Registry from NERC to NAESB.□
- 11 Support the second phase of retail development of model business practice standards for demand response programs (Shown as Item 3e on the Retail 2010 Annual Plan).
- 12 Review the need for, and develop standards where appropriate, in response to issues raised by FERC's National Action Plan on Demand Response.



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WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



NAESB WEQ EC and Subcommittee Leadership:

- Executive Committee: Kathy York (WEQ EC Chair) and Matthew Goldberg (WEQ EC Vice Chair)
- Standards Review Subcommittee: Narinder Saini, Ed Skiba
- Interpretations Subcommittee: Robert Schwermann
- Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed Skiba
- Open Access Same Time Information System (OASIS): Paul Sorenson, J.T. Wood, Marcie Otondo
- Joint Electric Scheduling Subcommittee (JESS): Bob Harshbarger (NAESB), Jim Hansen (NERC)
- e-Tariff Joint WEQ/WGQ Subcommittee (e-Tariff): Jane Daly (WEQ), Keith Sappenfield (WGQ)
- DSM-EE REQ/WEQ Subcommittee: Ruth Kiselewich and David Koogler (Retail), Roy True and Paul Wattles (WEQ)

(**) The Smart Grid Task Force is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS (Organization for the Advancement of Structured Information Standards, not Open Access Same Time Information Systems related to NAESB standards and FERC actions), CalConnect, FIX and UCAIug, among others. Direction may be given from NIST, DoE or FERC and the group reports to the NAESB Board Smart Grid Strategic Steering Committee. The group is chaired by Brent Hodges, Joe Zhou, Wayne Longcore and Robert Burke.



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End Notes WEQ 2010 Annual Plan:

¹ Dates in the completion column are by end of the quarter for completion by the assigned committee, sub-committee or task force. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed earlier than planned, another item can begin earlier and possibly complete earlier than planned. There are no begin dates on the plan.

² The assignments are abbreviated. The abbreviations and sub-committee structure can be found at the end of the annual plan document.

³ Energy efficiency may be a wholesale product, such as capacity. Energy efficiency in retail markets may be from individual energy efficiency measures at the project level or a portfolio of projects that make up an energy efficiency program.

⁴ For additional information, please see comments submitted by PJM and MISO for this Annual Plan Item:
http://www.naesb.org/pdf3/weq_aplan102907w1.pdf.

To: Balancing Authorities
Transmission Providers
Purchasing and Selling Entities
Reliability Coordinators

February 12, 2010

e-Tag Version 1.8.1 Implementation

The North American Electric Reliability Corporation (NERC) and the North American Energy Standards Board (NAESB) Joint Electric Scheduling Subcommittee (JESS) announce the implementation of a new version of the Electronic Tagging (e-Tag) scheduled for March 16, 2010.

The JESS and the e-Tag vendors began developing the NAESB e-Tag Version 1.8.1 [specification](#), now maintained by NAESB, in the first quarter of 2008. Since that time the specifications and schema, have been posted for industry comment, approved by the NAESB WEQ Executive Committee on October 27, 2009, interoperability between the vendors has been thoroughly tested, and a 1.8 to 1.8.1 [cut-over plan \[linked to e-Tag 1.8.1 page on NAESB site\]](#) has been developed.

The majority of the changes are transparent to the user and will have minimal impact from a user's perspective. The changes the user may notice are:

- An additional URL may now be registered in the NERC TSIN registry by Agent and Approval entities for secondary services. This secondary service URL receives a copy of all e-Tag messages distributed to the primary service URL. Users and/or their vendors may process the messages sent to the secondary service URL consistent with the NERC reliability standards and NAESB business practices.
- The e-Tag authors are no longer required to include a reason when withdrawing a request.
- The e-Tag specification now contains an appendix containing specifications that are unique to a particular interconnection.
- The e-Tag author, Source BA, and Sink BA may modify DYNAMIC and PSEUDOTIE type e-Tag energy and loss profiles after the scheduling period has passed in order to reflect actual metered values, regardless of reliability limits and transmission profiles. The transmission profile(s) may no longer be changed after the scheduling period has passed.

A more comprehensive description of the e-Tag 1.8.1 changes are contained in the 1.8.1 [change narrative document \[linked to e-Tag 1.8.1 page on NAESB site\]](#).

NERC, NAESB, and the vendors are committed to implement version 1.8.1 on March 16, 2010 commencing at 2130 CDT and completed by 2200 CDT. To ensure a successful transition, the JESS recommends:

1. All scheduling entities must use software that meets e-Tag Version 1.8.1, for the entire industry tagging system to function properly.
2. By March 16, 2010 at 2200 CDT, all entities who have integrated their tagging and scheduling systems must have operable scheduling systems to support e-Tag Version 1.8.1.
3. On March 16, 2010 all scheduling entities should have trained personnel available, including respective vendor support.

Further announcements will be made as appropriate and also posted on the [NERC “electronic tagging \(e-Tag\)”](#) website and the [NAESB Wholesale Electric Quadrant “JESS”](#) website.

James Hansen
James Hansen, Co-Chair

Robert Harshbarger
Robert Harshbarger, Co-Chair

Change
<p>Modified CANCELLED definition</p> <p>Final Composite State that results when the e-Tag Author issues a RequestTerminateTag message for an e-Tag with a composite status of CONFIRMED prior to the e-Tag's ramp start time with the termination time in the Request set to the block start time of the e-Tag and the Request State becomes APPROVED. The Composite State of the e-Tag changes from CONFIRMED to CANCELLED as soon as the Request becomes APPROVED. The Authority Service sets the market level and transmission allocation of the e-Tag to zero. Once reached, this state may not transition to any other state.</p>
<p>Added statement regarding specification/schema relationship in section 1.4</p> <p>This specification is accompanied by an XML schema. The schema is intended to reflect the specification. Should the specification and schema conflict, the specification is the ruling document.</p>
<p>Modified sections 1.2, 2.6.2, 4.6.2, and 4.7 regarding Secondary Service URLs</p> <p>An additional URL (Secondary Service URL) may be registered in the EIR "Forwarding URL" field by Agent and Approval entities. The e-Tag Agent and Approval services will be responsible for forwarding e-Tag documents distributed to them by the Authority Service to the Secondary Service URL.</p>
<p>Modified section 1.4.9.4 to clarify the Authority Service archive requirements</p> <p>All Authority Services shall archive all message dialogues (all received and issued messages and their associated responses), as follows:</p> <ul style="list-style-type: none"> • These message dialogues need not be available for online query • Authority Service Operators must have the ability to supply written reports listing message traffic for a particular entity or transaction within a reasonable amount of time (e.g., within seven business days). • Authority Service Operators must retain message dialogues as specified in NERC/NAESB standards.
<p>Made changes to sections 1.6.5.1, 2.6.5.2.1, 3.6.5.2.1, and 4.6.5.2.1 to support a 25 hour day</p> <p>Any registered entity (PSEs, BAs, Transmission Service Providers, Reliability Coordinators, etc.) may query Authority Services for a list of e-Tag summaries for a specified period of time for e-Tags in which they participate. Query parameters allow the ability to retrieve e-Tag summaries that:</p> <ul style="list-style-type: none"> • were created/last modified during a specified period of time, OR • have a profile with the first start/last stop intersecting the specified period of time. <p>e-Tag data may be retrieved for past, current, or future time ranges. This method is intended to be used for emergency operational e-Tag recovery, and is not designed to be used for continuous real-time polling. The duration of the specified time period must not be greater than 25 hours. Entities can only retrieve e-Tag information through a listener registered for the entity they represent. Querying for e-Tag summaries is an Asynchronous message.</p>

Added language addressing profile start times and durations in section 2.6.1.1, 3.6.1.1,

- The earliest energy profile start time must be less than or equal to the earliest start time of any other profile type and the latest energy profile end time must be greater than or equal to the latest end time of any other profile type.
- All base profiles must be included in the request and their start times and durations must be identical.

Clarified that entities may not be added or removed in profile change requests in section 2.6.1.3, 3.6.1.3, and 4.6.1.2

Deleted the following text in 3.6.2.2

In certain situations, it is possible for a Transmission Customer or Scheduling Entity to be added or removed. Should such a case occur, the following process must take place:

1. Any Entities being removed must be sent the correction with the impact flag set to TRUE
2. Any Entities being removed must have their entries removed from the Distribution list
3. Any Entities being removed must have their entries removed from the RequestApprovalRights list
4. Any New Entities must have their entries added to the Distribution list
5. Any new customers must have their entries added to the RequestApprovalRights list.

Following the completion of these steps, the Correction must be distributed normally.

Removed the requirement to include a reason when withdrawing a request in section 2.6.3.2, 3.6.3.2, and 4.6.3.2

Removed the requirement for an entity to have the most recent correction of the data within its scope in order to set state in section 3.6.3.1. This was actually modified in e-Tag 1.8 but the conforming change in section 3.6.3.1 had not been documented.

Added requirement for Authority Service to set ActOnByTime and TimeClassification in section 3.6.3.3

Upon receipt, the Authority Service sets the ActOnByTime and the TimeClassification based on the time of receipt and the NERC/NAESB Interchange Standard timing tables.

Added requirement for asynchronous response in section 3.6.5.2

Asynchronous responses must start within five minutes of query receipt.

Deleted bullet item from section 4.6.3.1

Removed the requirement for the approval service to have the most recent correction of the data held by the Authority Service in section 4.6.3.1. This was actually modified in e-Tag 1.8 but the conforming change in section 4.6.3.1 had not been documented.

Revised references to PKI in section 7.1.1

Clarified description of transport layer security requirements and use of NAESB PKI standard compliant certificates.

Agent, Approval, Authority, and RAS references changed to Agent Service, Approval Service, Authority Service, and RA Service for clarity.

TSP changed throughout to Transmission Service Provider for clarity

Created Appendix A – Special Interconnection Implementation Requirements

This appendix contains information that the e-Tag vendors need to know in order to correctly implement the e-Tag services. The regional (RRO) details that impact interoperability or require additional functionality or validation by the Authority Service should be included in this appendix.

If these do not impact interoperability or require implementation of specific features by the Authority Service then they need not be included in this appendix. Instead these may be accessed from the NAESB web site (modify this when the URL is provided).

Modified 1.4.2.2 to require a unique security key for each entry in the distribution list to be associated on the initial distribution of the e-Tag.

Modified 3.6.1.1.1 to correctly identify duplicate entities in the distribution list and made a corresponding change to the example.

Added definition of Tagging Entity ID

Unique numeric identifier for each tagging entity as defined in the Electric Industry Registry (EIR)

Modified 1.4.6 and 2.6.1.3 to clarify that e-Tag authors may adjust DYNAMIC type e-Tags after-the-fact (after the current scheduling period) in order to reflect metered values. This included language requiring the clearing of any previously existing reliability limits.

For DYNAMIC type e-Tags, the e-Tag author, Source BA, or Sink BA may make market level profile adjustments after-the-fact (to reflect metered values) but may not adjust the transmission allocation profile. Any previously existing reliability limits must be cleared thus achieving both a reload and a profile change with one profile change request.

In the case of DYNAMIC type e-Tags, the Agent Service may submit after-the-fact changes to the market level profile and corresponding loss profile to reflect actual metered values but may not make changes to the Transmission Allocation profile. Furthermore, Agent Services are not allowed to submit Current Level profiles, because these profiles are calculated.

Added Section 8 – Implementation Requirements

An implementation requirements section was added in order to establish change control processes. These include notification requirements and documentation of the e-Tag system enhancement process from a description of change drivers, through subsequent revisions to the e-Tag specification and XML schema, and the creation and conductance of structured interoperability testing and implementation.

Modified section 3.7 – added language from NAESB WEQ-004 regarding Authority Service implementation and performance

The Authority Service must be implemented in a manner that provides for redundancy and fault-tolerance through hardware and software; there are no exemptions to this requirement. Specifically, the Authority service must provide, at a minimum, the following:

- Two or more connections to the Internet, which may either be available concurrently or be switch able on demand (within five minutes);
- Redundant/Fault-Tolerant Networking Equipment between the Internet providers' demarcation points and the computer systems, as well as between each of the components of the system required to be inter-networked to provide functionality (i.e., FDDI Rings, dual homing, etc...);
- Redundant/Fault-Tolerant computer systems that can immediately recover from a loss of any single component (i.e., mirrored databases, web clusters, etc.).

Providers of Authority Services may be required to provide documented explanations of how they meet or exceed the above requirements. These documents may be evaluated for fitness and will be held in confidence.

Added Acronym column to Definitions Table in section 1.2

Updated links in section 1.1.2

Modified 1.4.6, 2.6.1.3, and 3.6.1.3 to clarify that e-Tag authors may not modify the Transmission Allocation profile for DYNAMIC type e-Tags after-the-fact (after the current scheduling period).

See modifications above

Modified 3.6.1.3 to allow loss profile adjustments in a DYNAMIC type e-Tag ATF adjustment request.

Profile change requests, including DYNAMIC type e-Tag ATF adjustments, made by the e-Tag author will use the source profile for loss calculations and will replace the profile stored on the Authority Service for use in loss calculations once the Request has reached a CONFIRMED or IMPLEMENTED state.

DRAFT

1/25/2010

e-Tag 1.8.1 Cutover plan

This plan assumes that the cutover will be on Tuesday, March 16, 2010. All times listed are in Central Prevailing Time. All e-Tag vendors will exchange via tagven@nerc.com contact info (names, phone, and email) to be used in the event an unforeseen issue occurs during the cutover period.

21:30	Begin cutover activities
22:00	e-Tag 1.8.1 goes live!!!

Exhibit I

Step #	Agent Service	Secondary Agent	Approval Service	Secondary Approval	Authority Service
1	Submit a DYNAMIC tag for the current hour, involving all entities engaged in the test. The tag must have at least one in-kind loss profile (i.e. two or more energy Base Profiles). Verify RequestNewTag response.				Verify receipt of the RequestNewTag message.
2	Verify receipt of DistributeNewTag message(s).	Verify receipt of DistributeNewTag message(s).	Verify receipt of DistributeNewTag message(s).	Verify receipt of DistributeNewTag message(s).	Verify delivery of DistributeNewTag messages.
3			Approve the original tag request.		Verify receipt of SetState message(s).
4	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify delivery of DistributeStatus and DistributeResolution messages.
5	If possible, submit a tag with mismatched energy profiles (i.e. not all profiles have the same start time and/or duration). <i>If the Agent Service is verifying the new prohibition against mismatched profiles, it may not be possible to make it submit an invalid request.</i> Verify RequestNewTag response and appropriate error message.				Reject the RequestNewTag message with an appropriate error message.
6	Verify that no DistributeNewTag message(s) are received.	Verify that no DistributeNewTag message(s) are received.	Verify that no DistributeNewTag message(s) are received.	Verify that no DistributeNewTag message(s) are received.	
7	Submit a tag for the next day, involving all entities engaged in the test. Verify RequestNewTag response.				Verify receipt of the RequestNewTag message.
8	Verify receipt of DistributeNewTag message(s).	Verify receipt of DistributeNewTag message(s).	Verify receipt of DistributeNewTag message(s).	Verify receipt of DistributeNewTag message(s).	Verify delivery of DistributeNewTag messages.

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9			Approve the original tag request.		Verify receipt of SetState message(s).
10	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify delivery of DistributeStatus and DistributeResolution messages.
11	Terminate the tag partway through the day. Verify RequestTerminateTag response, including ActOnByTime and TimeClassification.				Verify receipt of RequestTerminateTag message.
12	Verify receipt of DistributeTerminateTag message(s).	Verify receipt of DistributeTerminateTag message(s).	Verify receipt of DistributeTerminateTag message(s).	Verify receipt of DistributeTerminateTag message(s).	Verify delivery of DistributeTerminateTag messages.
13	Withdraw the termination request, without specifying a reason. Verify WithdrawRequest response.				Verify receipt of WithdrawRequest.
14	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify delivery of DistributeStatus and DistributeResolution messages.
15	If possible, submit a market adjustment that adds a new allocation with a PSE code that was not already in the tag. <i>If the Agent Service is verifying the new prohibition against adding entities, it may not be possible to make it submit an invalid request.</i> Verify RequestProfileChange response and appropriate error message.				Reject the RequestProfileChange message with an appropriate error message.
16	Verify that no DistributeProfileChange message(s) are received.	Verify that no DistributeProfileChange message(s) are received.	Verify that no DistributeProfileChange message(s) are received.	Verify that no DistributeProfileChange message(s) are received.	

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17	Cancel the tag. Verify RequestTerminateTag response, including ActOnByTime and TimeClassification.				Verify receipt of RequestTerminateTag message.
18	Verify receipt of DistributeTerminateTag message(s).	Verify receipt of DistributeTerminateTag message(s).	Verify receipt of DistributeTerminateTag message(s).	Verify receipt of DistributeTerminateTag message(s).	Verify delivery of DistributeTerminateTag messages.
19			Approve the cancellation request.		Verify receipt of SetState message(s).
20	Verify receipt of DistributeStatus and DistributeResolution message(s). Verify that Composite State of CANCELLED is reached immediately upon approval of the cancellation request.	Verify receipt of DistributeStatus and DistributeResolution message(s). Verify that Composite State of CANCELLED is reached immediately upon approval of the cancellation request.	Verify receipt of DistributeStatus and DistributeResolution message(s). Verify that Composite State of CANCELLED is reached immediately upon approval of the cancellation request.	Verify receipt of DistributeStatus and DistributeResolution message(s). Verify that Composite State of CANCELLED is reached immediately upon approval of the cancellation request.	Verify delivery of DistributeStatus and DistributeResolution messages.
21	Send QuerySummaries message for a 25-hour time period. Verify QuerySummaries response.	Send QuerySummaries message for a 25-hour time period. Verify QuerySummaries response.	Send QuerySummaries message for a 25-hour time period. Verify QuerySummaries response.	Send QuerySummaries message for a 25-hour time period. Verify QuerySummaries response.	Verify receipt of QuerySummaries messages from all test participants.
INTERMISSION (Wait for DYNAMIC tag to be in the past.)					
22	Verify receipt of CallbackSummaries message.	Verify receipt of CallbackSummaries message.	Verify receipt of CallbackSummaries message.	Verify receipt of CallbackSummaries message.	Verify that processing of CallbackSummaries message for each test participant started within 5 minutes of receipt of the request.
23	Submit an ATF adjustment of the DYNAMIC tag, adjusting all profiles. Verify RequestProfileChange response.				Verify receipt of RequestProfileChange message.
24	Verify receipt of DistributeProfileChange message(s).	Verify receipt of DistributeProfileChange message(s).	Verify receipt of DistributeProfileChange message(s).	Verify receipt of DistributeProfileChange message(s).	Verify delivery of DistributeProfileChange messages.
25			Approve the ATF adjustment request.		Verify receipt of SetState message(s).

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26	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify receipt of DistributeStatus and DistributeResolution message(s).	Verify delivery of DistributeStatus and DistributeResolution messages.
27	<p>If possible, submit an ATF adjustment of the DYNAMIC tag that modifies an allocation profile.</p> <p><i>If the Agent Service is verifying the new prohibition against modifying allocations, it may not be possible to make it submit an invalid request.</i></p> <p>Verify RequestProfileChange response and appropriate error</p>				Reject the RequestProfileChange message with an appropriate error message.
28	Verify that no DistributeProfileChange message(s) are received.	Verify that no DistributeProfileChange message(s) are received.	Verify that no DistributeProfileChange message(s) are received.	Verify that no DistributeProfileChange message(s) are received.	
29	Delete several of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	Delete several of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	Delete several of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	Delete several of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	
30	Delete all of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	Delete all of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	Delete all of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	Delete all of the e-Tags created above from your system and then Run the recovery function to recover the e-Tags.	