**AGENDA**

**Wholesale Market Subcommittee (WMS) Meeting**

ERCOT Austin / 7620 Metro Center Drive / Austin, Texas / 78744

Wednesday, September 7, 2016 – 9:30am

<http://ercot.webex.com>

Meeting Number: 620 367 023

Meeting Password: WMS

Audio Dial-in: 1.877.668.4493

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| 1. | Antitrust Admonition |  | J. Carpenter | | 9:30 a.m. |
| 2. | Agenda Review |  | J. Carpenter |  | |
| 3. | **Approval of WMS Meeting Minutes (Vote)**   * August 3, 2016 |  | J. Carpenter |  | |
| 4. | Technical Advisory Committee (TAC) Update and Assignments |  | J. Carpenter | 9:35 a.m. | |
|  | * Annual TAC/Subcommittee Structural and Procedural Review |  |  |  | |
|  | * Monthly Report WMS Open Action Items for TAC |  |  |  | |
|  | * 4/24/14 – Evaluate concerns with bringing RUC units earlier than required because of start-up failures |  |  |  | |
|  | * 9/25/14 – Voltage Reduction – assess cost issues and applicability to loads as well as market impacts |  |  |  | |
|  | * 12/18/14 – Consider alternative implementation options for automation of NPRR664, Fuel Index Price for Resource Definition and Real-Time Make-Whole Payments for Exceptional Fuel Cost Events. (Report back to TAC in March 2015) |  |  |  | |
|  | * 12/18/14 – Review of determination of RRS Under 2015 Ancillary Service Methodology and NERC BAL-003 |  |  |  | |
|  | * 5/28/15 – Review ways to improve SASM (ERCOT to support with analysis) |  |  |  | |
|  | * 2/25/16 – Regional Haze Discussion – Joint ROS/WMS Workshop |  |  |  | |
| 5. | ERCOT Operations and Market Items |  | R. Surendran | 9:45 a.m. | |
|  | * Update – Communication during SCED/Operational anomalies |  |  |  | |
| 6. | New PRS Referrals (Possible Vote) |  | J. Carpenter | 9:50 a.m. | |
|  | * NPRR791, Clarifications to IEL, MCE and Aggregate Amount Owed by Breaching Party |  |  |  | |
| 7. | Revision Requests Tabled at PRS, Referred to WMS (Possible Vote) |  | J. Carpenter | 9:55 a.m. . | |
|  | * NPRR759, Segmentation of the Total New Capacity Estimate in the ERCOT CDR (SAWG 05/04/16) |  |  |  | |
|  | * NPRR768, Revisions to Real-Time On-Line Reliability Deployment Price Adder Categories |  |  |  | |
|  | * NPRR776, Voltage Set Point Communication (QMWG 07/06/16) |  |  |  | |
|  | * NPRR777, ERCOT-directed Dispatch of Price-Responsive Distributed Generation |  | G. Thurnher | 10:00 a.m. | |
|  | * Reliability Unit Commitment (RUC) discussion/Inclusion in Planning Models |  |  |  | |
|  | * Settlement Language Review |  |  |  | |
|  | * Telemetry |  |  |  | |
| 8. | Congestion Management Working Group (CMWG) |  | G. Thurner | 11:00 a.m. | |
| 9. | Demand Side Working Group (DSWG) |  | T. Carter | 11:10 a.m. | |
| 11. | Market Credit Working Group (MCWG) |  | B. Barnes | 11:20 a.m. | |
| 13. | QSE Managers Working Group (QMWG) |  | E. Goff | 11:30 a.m. | |
| 14. | Resource Cost Working Group (RCWG) |  | P. Vinson | 11:45 a.m. | |
| 15. | Supply Analysis Working Group (SAWG) |  | B. Whittle | 12:00 p.m. | |
|  | * CDR Modifications (Waive Notice – Possible Vote) |  |  |  | |
| 16. | Outage Coordination Improvement Task Force (OCITF) |  | L. Jones | 12:20 p.m. | |
| 17. | Other Business |  | J. Carpenter |  | |
|  | * Review of Open Action Items |  |  |  | |
|  | * WG/TF Review |  |  |  | |
|  | * PGRR042, Regional Transmission Plan Model Reserve Requirement and Load-Generation Imbalance Methodology (Possible vote) |  |  |  | |
|  | * 2017 Meeting Schedule |  |  |  | |
|  | * No Report |  |  |  | |
|  | * Emerging Technologies Working Group (ETWG) |  |  |  | |
|  | * Meter Working Group (MWG) |  |  |  | |
|  | Lunch |  |  | 12:30 p.m. | |
| 18. | Reliability Must-Run (RMR) Issues (Possible Vote)   * New PRS Referrals |  | J. Carpenter | 1:15 p.m. | |
|  | * + NPRR788, RMR Study Modification - Urgent |  |  |  | |
|  | * + NPRR 793, Clarifications to RMR RUC Commitment and Other RMR Cleanups |  |  |  | |
|  | * + NPRR795, Provisions for Refunds of Capital Contributions Made in Connection with an RMR Agreement - Urgent |  |  |  | |
|  | * TAC Assignment |  |  |  | |
|  | * + RMR Issue: Long Term Solution – Alternatives to NPRR784, Mitigated Offer Cap for Reliability Must-Run (RMR) Units |  |  |  | |
|  | * Draft NPRR, RMR Data Considered Protected Information |  |  |  | |
|  | Adjourn |  | J. Carpenter | 3:00 p.m. | |
|  | Future Meetings   * October 17, 2016 * November 2, 2016 |  |  |  | |

| Open Action Items | Responsible | Assigned |
| --- | --- | --- |
| Notice of GTLs Related to New Generation Interconnection | CMWG | 04/06/2014 |
| Monitor bid results upon implementation of SCR 779 increase in bid limits | CMWG | 03/04/2015 |
| Pricing and Stability Limits | CMWG | 07/08/2015 |
| Dynamic Ratings in Off-Peak CRR Models | CMWG | 10/07/2015 |
| Market Continuity Workshop: CRRs with no corresponding RT and DAM what | CMWG | 06/08/2016 |
| Switchable Generation Resource Whitepaper | CMWG/QMWG/RCWG | 07/16/2016 |
| Integration of ERS and Load Shed in price formation intended in NPRR626/Validations for Telemetry | DSWG/QMWG | 01/07/2015 / 07/06/2016 |
| Monitor/Review List of HITEs | OCITF | 06/08/2016 |
| Review testing requirements for all Resources and impact on price formation | QMWG | 03/05/2014 |
| Notification requirements of Resources switchable to other Control Areas | QMWG | 10/29/2014 |
| Alternatives for extreme cold weather RUC | QMWG | 01/07/2015 |
| Impact on RRS from NERC-BAL-003, Ancillary Service Procurement | QMWG | 01/07/2015 |
| Review application of Wind Chill for short-term capacity sufficiency | QMWG | 03/04/2015 |
| Ancillary Service Replacement due to Transmission Constraints | QMWG | 07/08/2015 |
| Market Transparency Notification for Market Model Error | QMWG | 09/02/2015 |
| Methodology to Prorate Share of SCED offsets for return of SCED after Failure | QMWG | 09/02/2015 |
| Quick Start Generation Resources impact to operational reserves | QMWG | 11/04/2015 |
| Voltage reduction during EEA and impact to market | QMWG | 11/04/2015 |
| Pre-Positioning the Transmission System for Planned Outages | QMWG | 12/02/2015 |
| COP/Wind Forecast Issue | QMWG | 05/04/2016 |
| Refine the Process for Identifying High Impact Outages re NPRR758, Improved Transparency for Outages Potentially Having a High Economic Impact | QMWG | 05/04/2016 |
| Prioritization of RMR Issues | QMWG | 06/08/2016 |
| Market Continuity Workshop: RT/DAM Issues | QMWG | 06/08/2016 |
| Should payment by ERCOT be made to generators during outage event issues from Market Continuity Workshop | QMWG | 06/08/2016 |
| Ancillary Service Enhancements (System Inertia, NonSpin issues, etc.) / include LR Percentage in RRS | QMWG | 06/08/2016 / 07/06/2016 |
| Market Continuity Workshop: Uplift Methodology | QMWG | 06/08/2016 |
| RRGRR010, Seasonal Net Max Sustainable Rating Definitions – unintended consequences | QMWG | 07/06/2016 |
| RMR Issue: NSO Notification Timeline (in 25.502 Substantive Rule)  Is 90 day notice enough | QMWG | 07/06/2016 |
| RMR Issue: Obligation or Incentive For Early Notification | QMWG | 07/06/2016 |
| RMR Issue: Transmission Planning Assumptions – should ERCOT forecast retirements   * Develop potential alternatives to potential retirements | QMWG/PLWG | 07/06/2016 |
| RMR Issue: ORDC capacity calculation | QMWG | 07/06/2016 |
| Review removal of PPA applied in Verifiable Cost from Protocol | RCWG | 10/29/2014 |
| Selection process for Fuel Index Vendor | RCWG | 10/29/2014 |
| Alternative to NPRR664, Fuel Index Price for Resource Definition… | RCWG | 01/07/2015 |
| Fixed Cost issues – Pipeline Capacity and Penalties | RCWG | 06/08/2016 |
| Coal Index – Long Term Solution | RCWG | 06/08/2016 |
| Market Continuity Workshop: How verifiable costs for renewables are addressed | RCWG | 06/08/2016 |
| RMR Issue: Contract length   * “significant investment” language | RCWG | 07/06/2016 |
| Real-Time Co-optimization – Multi-interval SCED | SAWG | 10/29/2014 |
| Monitor RDF re PRC vs ORDC (Review in 2017) | WMS | 06/08/2016 |
| MRA Issues (Reconsider in September) | WMS | 07/06/2016 |
| RMR Issue: Get rid of transmission exit strategy for RMRs | WMS | 07/06/2016 |
| RMR Issue: RMR for capacity criteria | WMS/ROS | 07/06/2016 |
| TAC Assignment: Develop communication issue list during SCED anomalies | WMS/ERCOT | 07/28/2016 |