

# Operations Training Working Group (OTWG)

October 5th, 2017

ERCOT 800 Airport Drive, Taylor, Building TCC 1, Room 253/WebEx

0900-1200

* Anti-trust Admonition

To avoid raising concerns about antitrust liability, participants in ERCOT activities should refrain from proposing any action or measure that would exceed ERCOT’s authority under federal or state law. For additional information, stakeholders should consult the Statement of Position on Antitrust Issues for Members of ERCOT Committees, Subcommittees, and Working Groups, which is posted on the ERCOT website.

* Disclaimer

All presentations and materials submitted by Market Participants or any other Entity to ERCOT staff for this meeting are received and posted with the acknowledgement that the information will be considered public in accordance with the ERCOT Websites Content Management Operating Procedure.

* Approval of Meeting Notes – September 2017
* Virtual Instructor Led Training Pilot
	+ Market Participant may use the Updated ILA and develop their own assessment and submit to NERC for their CEHs.
* Winter Storm Drill (Oct 18/19)
	+ CEHs may be administered by ERCOT provided the following is returned to ERCOT no later than November 17, 2017:
		- * Learner(s) contract(s)
			* Facilitator Participation Form (Facilitator also receivs CEHs)
			* Feedback Form(s)
			* Sign in Sheet
			* Assessment(s)
			* Presentation with Market Participants customizations
	+ ILA and lesson plan are attached for those who wish to administer their own CEHs.
	+ Updated Scripts will be sent out by 10/13.
	+ Macomber Map refresher WebEx on 10/18.
* Grid Ex IV Registration (Nov 15/16)
	+ Registration
		- Send your organization’s Lead Planner name and email address to GridEx\_Registration@bah.com
	+ Will use the Winter Storm Drill events (lite), with different causes
* 2018 Black Start Training (Sync and Beyond Meeting Notes Attached)
	+ All Hazards Restoration Stages Framework
	+ Extra Day of Black Start and Restoration Training (CEHs)
		- Generator Dynamics (Voltage and Frequency)
		- Transmission System Dynamics (Voltage)
		- Strongly Recommended for Operators with less than 5 years, Recommended refresher for everyone
		- 10 additional CEHs
		- Limited availability (50)
	+ Black Start and Restoration Training Schedule
		- Pilot
			* Generator and Transmission System Dynamics (10 CEHs) January 8th 12 pm – 5 pm and January 9th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

January 9th 1pm to 5pm, January 10th 7am – 5pm, January 11th 7 am – 12 pm.

* + - Session 1
			* Generator and Transmission System Dynamics (10 CEHs) January 29th 12 pm – 5 pm and January 30th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

January 30th 1pm to 5pm, January 31st 7am – 5pm, February 1st 7 am – 12 pm.

* + - Session 2
			* Generator and Transmission System Dynamics (10 CEHs) February 5th 12 pm – 5 pm and Februatry 6th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

February 6th 1pm to 5pm, February 7th 7am – 5pm, February 8th 7 am – 12 pm.

* + - Session 3
			* Generator and Transmission System Dynamics (10 CEHs) February 12th 12 pm – 5 pm and February 13th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

February 13th 1pm to 5pm, February 14th 7am – 5pm, February 15th 7 am – 12 pm.

* + - Session 4
			* Generator and Transmission System Dynamics (10 CEHs) February 19th 12 pm – 5 pm and January 20th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

February 20th 1pm to 5pm, February 21st 7am – 5pm, February 22nd 7 am – 12 pm.

* + - Session 5
			* Generator and Transmission System Dynamics (10 CEHs) February 26th 12 pm – 5 pm and February 27th 7am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

February 27th 1pm to 5pm, February 28th 7am – 5pm, March 1st 7 am – 12 pm.

* + - Session 6
			* Generator and Transmission System Dynamics (10 CEHs) March 5th 12 pm – 5 pm and March 6th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

March 6th 1pm to 5pm, March 7th 7am – 5pm, March 8th 7 am – 12 pm.

* + - Inclement Weather Session
			* Generator and Transmission System Dynamics (10 CEHs) March 12th 12 pm – 5 pm and March 13th 7 am to 12 pm
			* Black Start and Restoration Course (19 CEHs)

March 13th 1pm to 5pm, March 14th 7am – 5pm, March 15th 7 am – 12 pm.

* 2018 OTS (Length 18 hours / 16 CEHs)
	+ Theme

Generators, Markets and Transmission, Working Together to Ensure Reliability

* + Topics (Write Objectives)
		- **CEO Introduction** (Bill Magness / ERCOT)
		- **Weather** (Chris Coleman / ERCOT)
		- **NERC Standards, Protocols, Guides and Procedures, How They are implemented!** (1 CEH) (Kristi Hobbs / ERCOT)
		- **Hurricane Harvey ERCOT/TO/GO/QSE Perspective** (2 CEH) (Aaron Ballew, Jerry Gaddy, Jimmy Hartmann)
		- **Coordinated Voltage Control** (1 CEH) (Stephen Solis / ERCOT)
		- **Wind, Solar and You!** (1 CEH) (Paul Wattles)
		- **Summer/Winter Preparation** (1 CEH) (Dan Woodfin/Sandip Sharma / ERCOT)
		- **Distributed Energy Resources (DER) / Demand Side Management** (1 CEH) (Clayton Stice / ERCOT)
		- **Loss of SCADA, EMS, or LCC** (1 CEH) (Dave Penney / TRE, Mark Henry / TRE, Ray Manzanilla / ERCOT)
		- **Forecasting Wind / Solar** (1 CEH) (Nitika Mago / ERCOT)
		- **Human Performance Improvement** (1 CEH) (Brian Legg / ERCOT)
		- **Markets and Reliability** (1 CEH) (David Maggio / ERCOT)
		- **Extreme Natural Events** (1 CEH) (Kristi Hobbs / ERCOT)
		- **Physical and Cyber Security** (1 CEH)(Joshua Aldridge / ERCOT)
		- **RUC Process (2 CEH)** (John Adams / ERCOT)
	+ Schedule (Austin Airport Hilton)
		- Pilot – January 23rd – 25th
		- Session 1 – March 27th – 29th
		- Session 2 – April 3rd – 5th
		- Session 3 – April 10th – 12th
		- Session 4 – April 17th – 19th
		- Session 5 April 24th – 26th
		- Session 6 May 1st – 3rd
* ERCOT Exam Challenge Process
	+ Identified problematic questions.
	+ Reviewed all questions.
	+ Questions identified have been disabled. Currently there are sufficient number of questions for each section. The exam may continue to be given.
	+ Challenge process and form attached.
	+ Questions identified must be reviewed by the Exam Working Group.
* Harvey Report
	+ TRE will be publishing a study/report on the impacts of Hurricane Harvey in December.
* New Business
* Adjourn
* Next Meeting Dates

Nov 9 TCC 1 Room 253, WebEx

Dec 14 TCC 1 Room 253, WebEx

* WebEx Info (Next Page)

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| **OTWG Meeting**  |
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| Thursday, October 5, 2017  |
| Meeting number (access code): 625 395 650  |
| Meeting password: otwg1005 |

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| [Add to Calendar](https://urldefense.proofpoint.com/v2/url?u=https-3A__ercot.webex.com_ercot_j.php-3FMTID-3Dm7c71fa4ef82106679c969d8b06d665d1&d=DwMGaQ&c=trp9rTvIdyEWh1VWB5x8_2JiPaB5oGZOtWPDws2_VoY&r=T0m5Jg90hX6QBKd0dyCgfRQSppFZ4x_43N_zqr-h2HU&m=BcwegaqzjlCcXeXtxM2T_i4zZrqlSUbEAZbF-Nq5qKg&s=I2yAtKS83rxAzqRjlmla5lKvl4Xti4SvN1ILONF8ZLM&e=)  |

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| **Join by phone** |
| **1-877-668-4493** Call-in toll-free number (US/Canada) |
| **1-650-479-3208** Call-in toll number (US/Canada) |
| [Global call-in numbers](https://urldefense.proofpoint.com/v2/url?u=https-3A__ercot.webex.com_ercot_globalcallin.php-3FserviceType-3DMC-26ED-3D511263537-26tollFree-3D1&d=DwMGaQ&c=trp9rTvIdyEWh1VWB5x8_2JiPaB5oGZOtWPDws2_VoY&r=T0m5Jg90hX6QBKd0dyCgfRQSppFZ4x_43N_zqr-h2HU&m=BcwegaqzjlCcXeXtxM2T_i4zZrqlSUbEAZbF-Nq5qKg&s=o1xacNcRQ8pMcMTsFxmkiKscYwwAlvQgw-vsOc2M_D8&e=)  |  [Toll-free calling restrictions](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.webex.com_pdf_tollfree-5Frestrictions.pdf&d=DwMGaQ&c=trp9rTvIdyEWh1VWB5x8_2JiPaB5oGZOtWPDws2_VoY&r=T0m5Jg90hX6QBKd0dyCgfRQSppFZ4x_43N_zqr-h2HU&m=BcwegaqzjlCcXeXtxM2T_i4zZrqlSUbEAZbF-Nq5qKg&s=uCWoiI4Zqd7sQ2CB8VIdbsW8u3AAVYm88hsG7Xt6Q4Y&e=) |

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