

Primary Frequency Response Senior Task Force (PFRSTF)
 Conference and Training Center & WebEx
 July 25, 2017
 9:00 a.m. – 12:00 p.m. EST

Administration

1. Mr. Glen Boyle, PJM, opened the meeting and reviewed the agenda.

Ms. Michelle Souder provided the Anti-trust and Code of Conduct announcements and completed the roll call.

Problem Statement and Issue Charge

2. Mr. Boyle reviewed the Problem Statement and Issue Charge.

Task Force Charter and Work Plan

3. Mr. Boyle reviewed the draft PFRSTF charter. Members provided feedback and requested two updates to the charter. The updated draft charter was approved by the members and will be presented as a first read at the August MRC.

Mr. Boyle reviewed the work plan to be accomplished by PFRSTF. No changes were made.

Education Presentation

4. Mr. Vince Stefanowicz provided stakeholders with part 1 of 2 of a high-level overview presentation of proposed frequency response education topics.
5. Mr. Clement Lovasik and Mr. Vince Stefanowicz provided a presentation reviewing a technical overview of frequency response. Part 1 of 2 education session will be continued at the September 1, 2017 PFRSTF starting with the Operational section.

Future Meeting Dates

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|-------------------|-----------|---|
| September 1, 2017 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |
| October 9, 2017 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |
| October 27, 2017 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |
| December 1, 2017 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |
| December 20, 2017 | 9:00 a.m. | PJM Conference & Training Center/WebEx |

In-Person Attendees:

| Last Name | First Name | Company | Sector |
|-----------|------------|-----------------------------|--------------------|
| Benchek | Jim | FirstEnergy Solutions Corp. | Transmission Owner |
| Bennet | Daniel | PJM Interconnection, LLC | Not Applicable |
| Blair | Thomas | Monitoring Analytics, LLC | Not Applicable |
| Boyle | Glen | PJM Interconnection, LLC | Not Applicable |

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|-------------|-------------|------------------------------------|------------------|
| Brodbeck | John | EDP Renewables North America, LLC | Other Supplier |
| Ciabattoni | Joe | PJM Interconnection, LLC | Not Applicable |
| Endress | Eric | PJM Interconnection, LLC | Not Applicable |
| Fabiano | Janell | PJM Interconnection, LLC | Not Applicable |
| Fletcher | James | AEP Energy Partners, Inc. | Other Supplier |
| Foladare | Kenneth | Tangibl | Not Applicable |
| Haas | Howard | Monitoring Analytics, LLC | Not Applicable |
| Hauske | Thomas | PJM Interconnection, LLC | Not Applicable |
| Heimbach | Mark | PJM Interconnection, LLC | Not Applicable |
| Holland | Risa | PJM Interconnection, LLC | Not Applicable |
| Hyzinski | Tom | GT Power Group | Not Applicable |
| Johnson | Carl | Customized Energy Solutions, Ltd.* | Not Applicable |
| Kogut | George | New York Power Authority | Other Supplier |
| Lovasik | Clement | PJM Interconnection, LLC | Not Applicable |
| Northrup | Alexander | PJM Interconnection, LLC | Not Applicable |
| O'Connell | Robert | PPGI Fund A/B Development, LLC | Generation Owner |
| Pilong | Christopher | PJM Interconnection, LLC | Not Applicable |
| Pratzon | David | GT Power Group | Not Applicable |
| Scarpignato | David | Calpine Energy Services, L.P. | Generation Owner |
| Seiler | Ken | PJM Interconnection, LLC | Not Applicable |
| Schweizer | David | PJM Interconnection, LLC | Not Applicable |
| Souder | David | PJM Interconnection, LLC | Not Applicable |
| Souder | Michelle | PJM Interconnection, LLC | Not Applicable |
| Stefanowicz | Vincent | PJM Interconnection, LLC | Not Applicable |
| Stewart | Travis | Gabel and Associates | Not Applicable |
| Tutino | Joey | PJM Interconnection, LLC | Not Applicable |
| Velasco | Cheryl Mae | PJM Interconnection, LLC | Not Applicable |

In Attendance via Web Ex / Teleconference:

| Last Name | First Name | Company | Sector |
|-----------|------------|---------|--------|
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|------------------------|-------------|---|----------------------|
| Aquino | Chris | PJM Interconnection, LLC | Not Applicable |
| Berlinski | Mike | Customized Energy Solutions, Ltd.* | Not Applicable |
| Bolan | Martin | FirstEnergy Solutions Corp. | Transmission Owner |
| Bonner | Charles | Dominion Virginia Power | Not Applicable |
| Carmean | Gregory | OPSI | Not Applicable |
| Caven | Augustine | PJM Interconnection, LLC | Not Applicable |
| Chatham | Robert | Vcharge Inc. | Other Supplier |
| Chocarro Aguirrebengoa | Iker | E.ON Climate & Renewables North America, Inc. | Generation Owner |
| Croop | Danielle | PJM Interconnection, LLC | Not Applicable |
| Cumens | Joshua | PJM Interconnection, LLC | Not Applicable |
| Davis | Becky | Talen Energy Marketing, LLC | Generation Owner |
| DeLosa | Joseph | DE Public Service Commission | Not Applicable |
| Domian | Christin | Mitsubishi Electric Power Products Inc. | Not Applicable |
| Farber | John | DE Public Service Commission | Not Applicable |
| Filomena | Guy | Customized Energy Solutions, Ltd. | Not Applicable |
| Fitzpatrick | Brian | PJM Interconnection, LLC | Not Applicable |
| Ford | Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Genuario | Gabrielle | PJM Interconnection, LLC | Not Applicable |
| Greiner | Gary | Public Service Electric & Gas | Transmission Owner |
| Hamilton | Brian | New Jersey Board of Public Utilities | Not Applicable |
| Hebert | Christopher | Beacon Power, LLC | Other Supplier |
| Hendrzak | Chantal | PJM Interconnection, LLC | Not Applicable |
| Horstmann | John | Dayton Power & Light Company (The) | Transmission Owner |
| Johnson | Carl | Customized Energy Solutions, Ltd. | Not Applicable |
| Kilgallen | Kevin | Avangrid Renewables LLC | Generation Owner |
| Kimmel | David | PJM Interconnection, LLC | Not Applicable |
| Lee | Ray | PJM Interconnection, LLC | Not Applicable |
| Liebold | chuck | PJM Interconnection, LLC | Not Applicable |
| Lowe | Benjamin | Alevo | Not Applicable |

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| Lowe | Connie | Dominion Virginia Power | Not Applicable |
| Ma | Alex | Invenergy, LLC | Generation Owner |
| Mabry | David | McNees Wallace & Nurick LLC | Not Applicable |
| Midgley | Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Mindham | David | ITC Mid-Atlantic Development LLC | Other Supplier |
| Ondayko | Brock | Appalachian Power Company | Transmission Owner |
| Pan | Conway | PJM Interconnection, LLC | Not Applicable |
| Patten | Kevin | Appalachian Power Company | Transmission Owner |
| Pham | Bao | Old Dominion Electric Cooperative | Electric Distributor |
| Philips | Marjorie | Direct Energy Business, LLC | Other Supplier |
| Poole | Karen | Dominion Virginia Power | Not Applicable |
| Ruck | Andrew | PSEG Energy Resources and Trade, LLC | Other Supplier |
| Sasser | Jonathan | Customized Energy Solutions, Ltd.* | Not Applicable |
| Schuyler | Ken | PJM Interconnection, LLC | Not Applicable |
| Singh | Randy | PSEG Fossil LLC | Generation Owner |
| Souder | Rich | PJM Interconnection, LLC | Not Applicable |
| Such | Christopher | E.ON Climate & Renewables North America Inc. | Generation Owner |
| Tzartzev | Rouslan | EDP Renewables North America, LLC | Generation Owner |
| Weatherill | Jennie | E.ON Climate & Renewables North America Inc. | Generation Owner |
| Xenopoulos | Damon | SMXB | Not Applicable |

Author: Michelle Souder