



EEB Evaluation Committee Monthly Meeting - Minutes

Monday February 6, 2017 – 10:00-11:30

Department of Energy and Environmental Protection – Public Utilities Regulatory Authority,
Commissioner's Conference Room, OCC, 10 Franklin Sq., New Britain, CT

Meeting Materials in Box folder: <https://app.box.com/s/24izfagev7367ih5y8fzmuu8atm432l2>

NEW Call-In Number: 303/900-3524; WEB Access: www.uberconference.com/skumatz
(Backup number – only if primary # doesn't work – 720/820-1390 Code (1st caller) 8296#
www.join.me/SkumatzEconomics)

COMMITTEE MEETING MINUTES

Action items underlined

Attendees: O'Connor*, Melley*, McCree, Swift, Oswald, Gorthala*, Skumatz, Chiodo, Prah, Jacobson; Lewis (Arcadia)

Committee and EA Not in Attendance: Dornbos, Wirtshafter.

Guest: Franks

1. Meeting started 10:00. Public Comment - none
2. Approval of Minutes from January meeting (Skumatz) – Defer to e-vote
3. Non-Project Updates and Issues (Skumatz, all):
 - a. SERA team invoice- not yet submitted – Jan invoices from some team members just arrived.
 - b. Review Thursday reports and highlights; review interim meetings & votes. Votes (detailed at end of these minutes) include approval of December minutes and 2016-18 Eval Plan update discussed in January's meeting.
4. Detailed Data Update Discussion:
 - a. Residential (Skumatz): R1617 and R1602: Looking for UI participation and billing data. Oswald familiar with request; believes he recently sent R1617 data – pulled some of it together, but will check and get on this right away. Action: Oswald to work on right away.
 - b. Commercial - Small business program: Commercial discussion led by Jacobson. Received gas billing data from Eversource and reviewing it. Lacking UI data on a number of gas customers. Some of the problems seem to stem from customers that are actually Eversource / CNG projects; other issues relate to 3 gas companies, and one doesn't have very good data and another has a communication/ match issue with Eversource (the electric company drives the small business projects). Some of the IDs have holes or truncated ID numbers and can't be readily matched. Some vendors are poorer about recording the id data. Swift was unaware of this issue; Oswald and Eversource not in contact on this issue. ERS has provided lists of sites they do and don't have billing data for. Action: O'Connor asked Swift and Oswald to get together to identify / get complete id numbers for the missing sites, and append needed data to solve this data issue.

- c. Impact Evaluation: Trying to get backup calculations for non-lighting projects for the impact evaluation. Have made progress with Eversource (80 sites); need 4 more. Oswald says he has all the data, but is having a data transfer (sharepoint site) problem. Spoke with in-house person and Oswald will be sending as small packets. Jacobson suggests using flash drive and fedex if problems arise again.
 - d. BES Impact evaluation (PRIME, etc.). UI data delivered. Difficulty with Eversource sites. Communicating with the engineer involved, but still some projects with tracing system data on savings doesn't match data ERS has identified from program files (off by 3x for some observations). 20 sites still have issues and need more data or data in tracking system does not match supporting material. Working with individual engineer, and received additional data from 6 of the 20 projects. Swift has been tracking this; some of the project span multiple years and identifying which part or year of the "project" is being requested. Another issue is an engineer retired and they have been working to deliver those files; Swift notes the hundreds of pages in the files and it takes time. Action: Swift will work to acquire the data in a timely fashion.
 - e. Request for information on ISO computations: Have gotten some spreadsheets from Eversource; looking for UI computational methods / spreadsheet. Action: hoping for excel spreadsheet that supports latest FCM bid.
5. Discussion of Projects / Status (and data) – *see Gantt & Project summaries (note Wirtshafter cannot attend this month's meeting)*
- a. Walk-through of Projects / Monthly Status Report – focus on Gantt "changes" and status of new projects; update on results of call / meeting on "new" steps for projects
 - C&I Projects: (Chiodo): C1630 Largest Savers moving along well. 3 very large sites have a contact issue (Eversource, Swift working on it). Progress being made. 11 sites scheduled for spring / summer, 6 in process of scheduling. C1663 Non-SBEA Process Evaluation is in final stages of contracting issues. Expect contractor justification memo & SOW to UI (and Eversource) in next week or so. Prime contractor is key, as contract has in place issues on data privacy, etc.
 - C&I (Jacobson): C1639 Small business process evaluation has 75% of site visits completed. Some trouble getting non-participant survey completes. Expect draft report to EA in about one month. BES Prime impact evaluation is working on 107 projects with 87 Eversource and 20 UI; in field now or soon for 20 of the sites, and picking up speed.
 - Residential (Skumatz and Prah): Skumatz notes error in Gantt chart on residential. HES Behavioral; no issues. EA has received results and tabular output formats. Project shows no remaining savings after latest year; persistence is complete. Short report out soon. R1615 most of work is complete; last phase is an expert panel consensus NTG review process; expect complete in a few weeks and report about a month after that. R1602 New construction has data issues, but expect IDI interim memo this month. Additional interim memos that were planned are deleted because of data timing issues and results will be rolled into final report, out in a couple months. R1613/14 on-sites are going well. Main information on this project are that there were extra data costs, as well as "new firm" start-up costs (utilisafe, contract, expected logic models, etc.), and determined some share of overruns their court vs. data issues. In consultation with Technical consultants, identified scope refinements that would save cost but not lose priority outcomes (deleting A/C, reducing on-sites for boilers). Will still delivery key outputs and goals of 80/10 for results. R1617 Ductless Heat Pumps. Contractor has delivered decision tree,

options modeling, baseline, and associated customer survey; EA team provided comments and this morning received next draft. If satisfactory, we will schedule working group meeting / watch for doodle poll.

6. Evaluation Plan – Updates, Discussion and Vote (if needed)
 - Walkthrough, discussion / comments and votes on revisions. Walked through memo. Reviewed background. Plan update voted / approved. DEEP provided comments on individual projects, focusing on suggestions to reduce duplication, budget limitations, and lighting completes. Noted issue of meeting planning budget vs. spending budget; again, EA team commits to not exceeding \$9 million spending budget / issue that \$9 million planning budget runs high chance of leading to less than \$9 spending because data delays and other issues have led to slower-than-plan project progress and associated expenditures. Even with additional round o update next year, it still hampers conduct of commercial projects because they take longer and starting them later runs risk of not meeting ISO. Budget in previous version of Plan is \$10.3 million; DEEP responded with \$8.8-9.1 million (one project on delete and keep lists). New recommendation is \$9 million. Presented each project according to the memo.
 - Discussions on individual studies in the revised plan, including adjustments to budgets, and combinations of projects from commercial and residential list in memo.
 - Discussion of Fuel conversions project included interest in the study from the utilities, and consideration of reporting already in progress.
 - As a consequence, it was decided that DEEP would present information and analysis to date on the fuel conversions at the March meeting or as soon as feasible.
 - Next steps – Mini-RFP (preparing in Feb/March)
7. Other updates – Legislative report and schedule for New PSD / Project Rec’s Summary – Legislative draft being reviewed by team; will prepare targeted version for PSD report.
8. Other items –
 - a. Update on DEEP / NEEP M&V 2.0 Grant provided.
 - b. Note: Oswald out for shoulder surgery – for anything that is being delayed, contact Fred Mascola or Pat McDonnell.
9. Meeting adjourned.

*** Supporting Materials in Box folder and attached, including:

- Updated Gantt Chart & Project Status Summary
- E-votes / call notes (attached)
- Minutes from last meeting
- Eval Plan Memo / Update
- Latest Thursday report
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Summary of interim meetings and votes in January 2016

- 1/11/16 – to extend SERA contract until June 30 – passed;
- 1/25 – Committee conference call on first 2 C&I projects – no votes
- 1/27 – 3 votes in favor of approving choice of Res contractors; directed utilities to begin contracts; C&I contracts approved in Dec.

Summary of interim meetings and votes in February

- 2/12 – Vote to Approve C1630 passed (O’Connor, Dornbos, Gorthala)
- 2/8 – Vote to approve C1639 passed (O’Connor, Dornbos, Gorthala)

- 2/9 – Vote to approve SERA team invoice for Dec / Jan passed (O’Connor, Dornbos, Gorthala, Duva)
- 2/22 – committee call on Evaluation project list
- 2/23 – presentation on R91
- 2/26 – Vote to approve 3 year evaluation plan memo (2/9, revised 2/26 after 2/22 input from utilities) passed (O’Connor, Gorthala, Dornbos)
- 2/29 – vote to approve memo to EEB committee on evaluation plan (O’Connor, Gorthala, Dornbos)

Summary of interim meetings and votes in March

- 3/7 – Presentation of R32 (HER retention), R33 (Database improvement), R154 (lighting onsite)
- 3/9 – Skumatz presented at EEB meeting
- 3/14 – Presentation on R91 impact evaluation / engineering differences report.
- 3/14 – Webinar on Impact Evaluation methods
- 3/24 – Presentation on R151 and 2 C&I one-pagers

Summary of interim meetings and votes in April

- 4/11 During monthly meeting – PASSED - Clarifying Administrators responsibility for selecting contractors from within the competitive-RFP-qualified contractors to conduct specific evaluation projects. Passed (motion O’Connor / Gorthala). Voted in favor O’Connor, Gorthala, Dornbos proxy; None against; McCree abstain.
- 4/11 During monthly meeting – PASSED - Clarifying content of one-pagers and level of detail. Passed (motion O’Connor / Gorthala). Voted in favor O’Connor, Gorthala, Dornbos proxy; None against; McCree abstain.
- 4/11/16 – R4Plus Report Presentation. Presentation by NMR.
- 4/16/16 - Approved - One pager for C1641 approved including both optional -- with 3 votes (O’Connor, Dornbos, Gorthala on 4/14-4/16)
- 4/18/16 – Discussion of Residential One-Pager Drafts (R1615 LED NTG, and R1606 Retention of HERs). Attendees O’Connor, Oswald, Swift, Melley, McCree, Reed. HERS: timing questions. Note in future there will be gas elements. Lighting Project R1615: Interest in specialty bulbs. Prospective more important than retrospective / assessing trajectory. Elements of lifetimes would be helpful.
- 4/18/16 – Non-Energy Impacts. Attendees O’Connor, Oswald, Swift, Reed, O’Neill (GreenBank), Griffith (SWA), Rosenthal (Optimal), Smeden (Eversource), Thompson (Synch). Handouts distributed / posted.
- 4/23/16 – approve SERA Feb and March invoices (in favor O’connor, Dornbos, Gorthala, Duva)

Summary of interim meetings and votes in May

- 5/16/16 – Evaluation Committee call to discuss two one-pagers – R1613/1614 (HVAC and DHW impact) and R1602 (RNC)
- 5/16/16 – Evaluation Committee call to discuss BES and PRIME programs – utilities / administrators / evaluation consultants – to better understand program design and delivery.
- 5/20/16 – Approved – one pager for 1615 (LED NTG) – with 3 votes (O’Connor, Dornbos, Gorthala)
- 5/20/16 – Approved – one pager for 1602 (HER Persistence)– with 3 votes (O’Connor, Dornbos, Gorthala)

Summary of interim meetings and votes in June

- 6/13 – Meeting to discuss residential one-pagers (R1613/1614, R1602, and R1617) – attendees Lewis, Dimetrosky, O'Connor, Oswald, Swift, Reed, Franks, McCree, Melley. R1613/14 Discussions of baseline, free ridership, data timeframe, and upstream issues. R1602 discussed question of code change timing, MF vs. SF, lighting calculations, and non-program homes. R1617 discussed cold climate installations, integration with existing heating systems, onsite, and adjustment factor options. These points to be considered in revisions of one-pagers.
- 6/29-7/1 – O'Connor, Gorthala, Dornbos, DEEP (Melley) to approve SERA April Invoice.
- 6/29-7/1 – O'Connor, Gorthala, Dornbos, DEEP (Melley) to approve 1602 (RNC) with extra \$25K budget allotment; 1 (DEEP) in favor of project with no extras.
- 6/29-7/1 – O'Connor, Gorthala, Dornbos, DEEP (Melley) to approve 1613/1614 (HVAC & DHW Impact).
- 6/29-6/30 – O'Connor, Gorthala, Dornbos to approve Legislative report; DEEP weighing in 7/7.

July interim votes and meetings

- Workshop C&I 7/11 (C1630 Lgst Savers)
- Workshop C&I 7/18 (C1639 SBEA)
- 7/21 One-pager discussion R1617
- 7/22 One-pager discussion R1617
- 7/15-7/19 – C1630 Phase 2 Approved – 3 votes in favor (O'Connor, Dornbos, Gorthala); DEEP (Melley) abstained.
- 7/27 – Lori Lewis session on ECB realization rates / PSDs, etc.
- 7/26 – R1617 one pager approved (O'Connor, Dornbos, Gorthala, Melley)
- 7/27-8/2 - One-pager for C1639 approved – 3 votes in favor (O'Connor, Dornbos, Gorthala); DEEP against – to be discussed

August interim votes and interim committee meetings

- 8/3 SERA invoice approved for May and June 2016 (Melley, O'Connor, Gorthala)
- 8/9 R113 final released to committee; later posted
- 8/18 R15 final released to committee; later posted
- 8/17 R1613/1614 UI PO issued (R1615, R1606 issued earlier)
- 8/26 R1602 UI PO issued

September interim votes and interim committee meetings – MAY NOT BE COMPLETE

- 9/6 R1617 DHP UI PO issued
- 9/7 R1617 DHP Working Group Meeting #1
- 9/12 R113 project presentation (before regular committee meeting)
- 9/16 C1641 workplan walkthrough
- 9/19 One pager C1663 call / discussion; e-vote opened
- 9/22 EM&V 2.0 meeting / NEEP attended by some (new) team members
- 9/26 R1617 DHP Working Group Meeting #2

October interim votes and interim committee meetings

- 10/11 R1617 DHP Working Group Meeting #3
- 9/30-10/14 C1663: C&I (non- SBEA) Process Eval. One pager Approved - 3 votes in favor - \$700K budget, with no add-ons. (O'Connor 9/30, Gorthala 9/30; Dornbos 10/14).

November interim votes and interim committee meetings NOT UPDATED /NOT FINAL

- 11/2 R1617 DHP Working Group Meeting #4
- 11/4 SERA Team July / Aug invoice approved 3 votes (Melley, O'Connor, Gorthala 11/4)

December interim votes and interim committee meetings NOT UPDATED /NOT FINAL

- 12/12 CT Evaluation Projects Planning / Ranking Meeting for all
- 12/13 E-vote for Oct and Nov meeting minutes – approved by evote (O'Connor, Gorthala, Melley; Dornbos approves Oct and abstains on November).
- 12/13 Approval of SERA team invoices for Sept, Oct, and Nov 2016 (O'Connor, Gorthala, Melley, Dornbos).
- 12/21 Call on data issues with utilities, Taren

January 2017 Interim votes and interim committee meetings – not final

- Votes in favor of evaluation plan (in favor O'Connor & Gorthala 1/9/17; Dornbos 1/12 – passed). 1/24 DEEP votes against.
- December 2016 minutes passed (In favor 1/9 O'Connor, Melley, Dornbos; Gorthala abstains / not present).

February 2017 Interim Votes, calls, meetings – not final

- Votes in favor of evaluation plan (in favor O'Connor & Gorthala & Dornbos– passed). No additional votes.