



EEB Evaluation Committee Monthly Meeting Minutes

MONDAY April 10, 2023 – 10:00-12:00 (ENDED AT 11)

ALL VIRTUAL MEETING – NO MEETING ROOM (recordings posted)

Meeting Materials: [April](#)

New Link: Join Zoom Meeting - <https://us02web.zoom.us/j/2534751779>

Phone in: 408/638-0968, Meeting ID: 253 475 1779

Backup only -Call-In Number: 303/900-3524; WEB Access: www.uberconference.com/skumatz

Join link with video only. USE PHONE (NOT COMPUTER) FOR VOICE, AND MUTE WHEN NOT SPEAKING

(Backup number – only if primary # doesn't work – <https://zoom.us/j/2534751779>; and use computer for voice.

COMMITTEE MEETING AGENDA - MINUTES

Attendees: Fay* Viglione*, Alim; Lawrence, Mosenthal, Reed, Sherwood; Winterkorn, Erricetti, Emerick; Prael, Kroll, Wirtshafter, Jacobs, Skumatz; Jenarus, Leigh, Vagnini, Robertson, Myers.

1. Call to Order

2. Public Comment - none

3. Minutes and invoices and evotes (Skumatz reported out)

a. March Minutes – already distributed & evoted - change “agenda” to “minutes” in March’s minutes.

b. Invoices to be circulated separately for evote

Summary of Status of Invoices: The EA Invoices are tracking approximately in proportion to the amount of the year expended. The change in format for the summary sheet provides detailed sub-tasks rather than words for the activity detail. The consultant invoicing workbooks provides detail at the individual activity level. In April and May the EA hours are likely to pick up, given the number of reports we are expecting to need to review and edit in time for the 5/15 cutoff for inclusion of results into the next PSD. The dollar status of invoices follows. No questions.

January 2023 Invoice:	\$58,433.00	87% of budget remaining, 92% of year remaining
February 2023 Invoice:	\$25,168.10	81 % of budget remaining, 83% of year remaining
March 2023 Invoice:	\$31,987.70	74% of budget remaining; 75% of year remaining

4. Committee Review of Memos related to Conditions of Approval / Data etc.

- a. COA: Report on Quarterly Performance Tracking for utilities on data requests and POs. Skumatz gathered information from the utilities and evaluation contractors regarding their understanding of completion and status of data requests and POs requested in / for 2023. The overall remarks follow; Skumatz will loop back to confirm any possible disagreements before providing a memo summarizing utility performance on these two important items.
 - Mostly the contractors and utilities agree about the status, with a few with possible disagreements hinted at below. They will be investigated in more detail this week.

- NMR – UI POs dollar amount off 2202 RASS: 2222 R&A was due end of Feb; Budget issues.
- DNV – 2211 BES is still open; agree (ES & UI)
- Guidehouse, data request #2 is usable (they will let you know via email); agree with ES’s assessment of status; concern a possibly wrong project number.
- Evergreen, Dunsky, nothing; Cadeo not heard back
- Will provide written update this month.

b. COA: Discussion of progress for 2nd Data-related Condition of Approval

- Two main activities are underway:
 1. A committee has been formed including EA and the utilites and their main data folks. This is to discuss possible options for helping improve data quality, timeliness, etc. related to evaluation. This committee is meeting every other week.
 2. The Evaluation Plan includes a study (actually, two phases) that is designed to study the data improvement options, potentially ranging from improviing existing procedures, involving EA in specification of program data to be collected, to possibly a separate contractor that assembles and processes the data (like MA, CA, etc.). The main elements of this study has been circulated to the committee for comment to assure the evaluation contractors develop a useful product.

5. **Committee Review of Legislative Report**

- a. Skumatz thanked members for their Review and comment on the draft, and identifying that the list of completed studies was not up to date. Skumatz has integrated most of the comments in the draft document, but has more abstracts to paste into the document. Then the Evaluation Committee will vote on the report prior to sending it to EEB for acceptance and distribution.
- b. Skumatz will finish the edits, and circulate. The document then needs an evote from the Evaluation Committee before sending to EEB.

6. **Highlights / implications of Recent Evaluation Reports**

- a. Walk through of key responses on R1983 HEs & IE – discussion. The summary is reproduced below:

Talking Notes: 1983 HES & HES-IE Impact / Process Plus - Response Memo to Utility Questions
High Level Summary

Billing Savings	<ul style="list-style-type: none"> • No changes to estimated billing savings results (aka “ex post” savings). • Used in all calculations of savings & Realization Rates (RR) • Note: $RR = (\text{Billing savings} / \text{ex ante savings})$
Realization Rate	<ul style="list-style-type: none"> • Overall revised RR results have only <i>limited overall impact on program level gross RRs</i> <ul style="list-style-type: none"> ○ Stayed same or fell for ~80% of participants (Air sealing only) <ul style="list-style-type: none"> ▪ HES (25% => 17%); HES-IE (15%=> 15-10%) ○ Increased for minority (~20%) of participants (A/S + Insul) <ul style="list-style-type: none"> ▪ HES (19%=>42-43%); HES-IE (36%=> 67-45%) ○ Including Revised excel references (Response C) ○ All use same ex post billing savings for numerator

Ex ante Issue	<ul style="list-style-type: none"> • Evaluators conducted independent estimate of ex ante • Close for HES; Large variation in HES-IE between independent & tracking • Traced to missing data on pre/post CFM & R-values for HES-IE for one utility - after: <ul style="list-style-type: none"> ○ Waiting >1 year for usable data; multiple recalled and rejected datasets; the “to be used” data were missing these key values (UI) ○ Consultants used proxy of values from other utility; apparently differences, given results in tracking data ○ Bias ○ Unresolvable account-number-masking issue (ES) led to unusable observations, increasing ratio of sample from UI, exacerbating the issue
Tracking Data	<ul style="list-style-type: none"> • Tracking data close for HES; ex ante understated from evaluator calculated for HES-IE, especially for Air Sealing + Insulation (leading to overstated RR)
Recommendations	<ul style="list-style-type: none"> • No changes to billing savings value. Key to include these in PSD • Limited overall impact of program-level RRs • Given data issues and time issues, and correlation of HES... proposing to recommend RRs calculated with billing savings and tracking database • Air Sealing only (HES 17%, HES-ie 10%); Air sealing & Insulation (43% and 45%) • Measure-level GRRs expected to be recalculated by 4/12 • Continue monitoring utility data request performance
Weather Normalization	<ul style="list-style-type: none"> • No changes (Response D) • Used DOE’s Standard Practice Protocol (UMP for Whole Building Retrofit with Consumption Data Analysis Evaluation Protocol.
Evaluators to forward	<ul style="list-style-type: none"> • Excel database summary of ex post savings with identifies – except no modeled ex post savings at participant level – modeling used pooled model. (Response E) • Database to review validations of customers in sample (Wed 4/12/23) (Response I)
<i>Additional Clarifications are Edits to Report</i>	<ul style="list-style-type: none"> • <i>Gross Realization Rates - Will rename to make clearer – GRR 1 and GRR 2 in draft study edits (Response B)</i> • <i>Number of pre/post on program data tab (Response F)</i> • <i>Data field used in installation date for start of post period (Response G)</i> • <i>Clarify meaning of “attic hatch only” (Response H)</i>

No discussion; utilities will continue to review the report and will get back to the EA if they have any more questions.

7. Other quick updates for committee – discussion

- a. Which Evaluation Studies are expected to be available in time for the 5/15/23 PSD deadline?
 - The EA team walked through the current evaluation plan list (included in the google document) and identified the studies that are expected to be completed in time for the 5/15 deadline (which means a final report available by that deadline).

Sector	Proj Number	Study Type	Short Title	Current Proj Phase	PSD Input Planned	Est Pct Done	Status
X	1942	Topics-NEI	Res & Com'l Non-Energy Impacts	4 Analysis	5/15/23	72%	NMR is trying to get this one completed in time, but may fall short with SBEA. HP mostly final; HES&IE to be presented to EA. SBEA prelim by EOM
X	2231	Topics-HP	Cross-Cutting Heat Pump Study	3 Data Col'n/Lit	5/15/24	11%	Later deadline
X	2001	Topics-EUL	Measure Lifetimes / EULs and RULs	3 Data Col'n/Lit	5/15/23	90%	Pushing to meet deadline
X	1939	Process	Early Retirement Evaluation (Phase 2 ongoing. Phase 1 complete/posted)	3 Data Col'n/Lit	5/15/23	85%	Analyzing the 4 programs (2 rounds of chillers, boilers, and rooftop units). Expect initial findings discussions in 2 weeks; then report follows. Unlikely to meet 5/15
X	2244	Topics-EE/CL	Review possible shift from EE to GHG policy integration goals and metrics at the State level.	2 Pre-Kickoff Refining	12/1/23	7%	Not near-term, not TRM
X	2208	Baseline	Market effects pulse survey (residential and commercial)	1 Contracting			Only in contracting phase
R	1983	Impact Pro	HES & HES-IE Impact and Process Evaluation	5 Drafting report	6/1/23	95%	Out for comment; Will meet Deadline
R	1968	Baseline	RNC Baseline and Code Compliance	4 Analysis	5/15/23	45%	Not likely final results. Discuss with Committee - Postponed because code didn't change & then Covid. Expect to finalize values by this date, and results presentation soon, but report not likely by this time.
R	1982	Potential	HVAC/DHW Performance and Potential Evaluation	4 Analysis	5/15/23	78%	Internal results for last winter; expecting draft report this week. Metered data so report is possible.
R	2209	Baseline	Residential New Construction NTG and Code compliance Attribution	2 Pre-Kickoff Refining	12/1/23	2%	R2209/2215 combo. Discuss with Committee. About to start now that R1968 values are available. 2 stage Delphi planned (docs, recruit, Round 1 uses 1968 data and past program- is that useful stage?). Round 2 is forecasting for new program design. Discuss timing with Eval Cmte.
R	2213	Impact	Oil Savings Impacts - Methods,	2 Pre-Kickoff Refining	12/1/23	10%	On schedule; expect report in June 2023.
R	2246	Topics-HP	Residential Heat Pump Study	2 Pre-Kickoff Refining	12/1/24	11%	Not a near-term deadline; preliminary data being readied from winter. Prelim info may be ready in June. Full report end of year 2024.
R	2029	Baseline	SF Weatherization Assessment and Update	2 Pre-Kickoff Refining	TBD	35%	TBD / Committee Discussion. Memo to DEEP being drafted to determine if 2019/20 metric useful, or new version; if the latter, will need additional budget.
R	2202	Baseline	Residential Appliance Saturation Survey & Baseline	2 Pre-Kickoff Refining			Early stages. The POs from UI have incorrect dollars. Working on that and project refinement.
R	2212	Impact	Behavioral Program Impact Evaluation	1 Contracting			Joint study with other states
R	2215	Impact Bas	Residential New Construction Impact Evaluation and Code Compliance - PHASE 2	1 Contracting			Combined with 2209
R	2221	Process	Concierge Programs - Opportunities, Performance, and Best Practices	1 Contracting			About to start interviews with the utilities and tech consultants
R	2222	Process	Increasing Market for Renovation and Additions Projects	2 Pre-Kickoff Refining			On pause awaiting MA project feedback; splitting into A and B related to air sealing.
C	1906	Process	SEM Design and Evaluation, Phase 2 process	5 Drafting report	5/15/23	75%	Should meet deadline; internal review already nearly done.
C	1902	NTG	ECB NTG and Baseline	5 Drafting report	5/15/23	90%	Will meet Deadline; just got report internally.
C	2117	Persistence	Retrocommissioning Persistence Study	4 Report out for comm	5/15/23	78%	Should meet deadline; in process of edits responding to EA comments.
C	2203	Baseline	Agricultural market and baseline assessment	3 Data Col'n/Lit	9/1/23	2%	Longer term
C	2014	Potential	C&I Lighting Saturation and Remaining Potential	3 Data Col'n/Lit	5/15/23	70%	Should meet deadline; includes NTG analysis.
C	2230	Topics-HP	Commercial Heat Pump Study	2 Pre-Kickoff Refining	5/15/24	5%	Longer term
C	2201	Baseline	C&I baseline large sample	2 Pre-Kickoff Refining	5/15/24	3%	Longer term
C	2211	Impact	BES/O&M Impact and process	2 Pre-Kickoff Refining	12/1/23	1%	Longer term

- b. Progress on report-posting – keep us posted on additional studies with broken links.
- c. Update on data requests / data issues – nothing new.
- d. Report on progress in funding options for data issues - have provided request to the utilities; some possible feedback from the utilities.
 - Eversource – discussions on areas to possibly use – underspending in finance admin (allocated to customers for loans and buy down interest) and that might be used to cover overspending on data issues.

1. Question: when will they know status of that? Will investigate (likely end of year, they'll know if there were funds unused. Small proportion for ES. More discussion to come.
- e. Evaluation Study Budget update issues – R1983 is short of funds with Questions, extra presentations, etc. Will develop a recommendation following receipt of comments.
- f. Update on data sharing authorized by EA Team to reduce data requests / leverage data

- 8. Regular Updates to read ahead of time; not discussed / questions taken as needed** 5 min
- a. Interim e-votes and meetings – (bottom of agenda)
 - b. Project summary document – separate attachment – not presented
 - c. Data email / contact tracking report – separate attachment - not presented
 - d. PO and Data Deadlines Tracking, (Presented quarterly – above / separate item)
 - e. Covid Updates from utilities, if any - assume none.
 - f. Other

The EA Team walked through the Evaluation Project **Gantt** chart (provided as a separate document) to let the Evaluation Committee know the status of each study.

9. **Other business** - none

10. **Adjourn** - adjourned at 11am eastern.

*** Supporting Materials to be included in Box folder and attached before meeting, including:

<ul style="list-style-type: none"> • Updated Gantt Chart & Project Status Summary & data timeline report (sent, separate doc) • E-votes / call notes (attached / bottom of agenda) • Table of COA data/PO performance by utilities • Slides for presentation 	<ul style="list-style-type: none"> • Mar minutes (separate doc, sent for Evote in Mar) • Invoices (to be sent for vote, separate doc) • Google Doc on status of all Eval plan projects – to be updated / Posted
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Summary of 2022-23 Votes To Date – NOT Updated Yet

	Minutes for the month	SERA Invoice
Apr 2023	<i>Sent for Evote 4/10/23</i>	
Mar 2023	<i>Approved – Sent for evote 3/13; resent 4/5; responded in favor (Fay, Viglione, McMillan 4/5)</i>	<i>Submitted for evote 4/10/23</i>
Feb 2023	<i>Approved – Emailed 2/14; responded in favor: Fay & Viglione 2/14, Sickinger 2/15</i>	<i>Submitted for evote 4/10/23</i>
Jan 2023	<i>Approved – Emailed 1/9; responded: Sickinger in favor 1/9. Resent 2/6/23. Fay & Viglione in favor 2/6,</i>	<i>Submitted for evote 4/10/23</i>
Dec 2022	<i>Approved (12/12 Viglione & Fay; 12/13 Sickinger)</i>	<i>Approved – (12/16 by Viglione, Fay, Sickinger); true up to be provided with Jan invoice.</i>
Nov 2022	<i>Approved (11/8 Viglione & Donatelli; 11/9 Fay)</i>	<i>Approved - (12/16 by Viglione, Fay, Sickinger)</i>
Oct 2022	<i>Approved: Fay 10/10, Viglione 10/11; DEEP abstain.</i>	<i>Approved - (12/16 by Viglione, Fay, Sickinger)</i>
Sept 2022	<i>Approved:10/12, Viglione 10/17, Donatelli 10/17.</i>	<i>Approved: Fay 10/14, Donatelli 10/17, Viglione 10/28.</i>

	Minutes for the month	SERA Invoice
Aug 2022	Approved – via evote: Fay 8/23, McLean 8/24, Dube only voted for invoice	Approved – via evote: Fay 8/23, McLean 8/24, Dube 8/24; directly forwarded to Exec Sec. Approved revised format: Fay 10/12, Viglione 10/17, Donatelli - 10/17
July 2022	Approved –via evote: Donatelli 7/21, Fay 7/22, Viglione 7/25; resent to McLean 7/25.	Will evote for easier record-keeping.
June 2022	Approved: Emailed out evote 6/15/22. Approved McLean, Viglione, Fay via email 6/16/22. Resent to Donatelli 7/5/22. In favor Donatelli 7/18	Approved (after meeting via evote): Distributed evote 7/13, votes in favor received from Fay (7/13), McLean (7/14), Donatelli (7/18), Viglione (7/18).
May 2022	Approved: Distributed prior to meeting / committee wants to e-vote; sent 6/15/22. Approved McLean, Viglione, Fay via email 6/16/22. Resent to Donatelli 7/5/22. In favor Donatelli 7/18	Approved: Distributed prior to June meeting / committee wants to e-vote; sent 6/15/22. Approved McLean, Viglione, Fay via email 6/16/22. Resent to Donatelli 7/5/22. In favor Donatelli 7/18
Apr 2022	Approved: In May Committee Meeting 5/9/22: - Motion / Second by Fay/McLean. In favor McLean, Fay, Viglione, Donatelli (none against, none abstaining)– unanimous approval	Approved: In May Committee Meeting 5/9/22: - Motion / Second by Fay/Viglione. In favor McLean, Fay, Viglione, Donatelli (none against, none abstaining)– unanimous approval
Mar 2022	Approved – Evotes of yes from McLean, Viglione, Fay, and Donatelli, 4/28.	Approved – Evotes of yes from McLean, Viglione, Fay, and Donatelli, 4/28.
Feb 2022	Approved: Sent for Evote 2/9/22; Approved McLean & Donatelli 2/9/22; Viglione and Fay 2/10/22	Approved: yes on 3/14 for all voters McLean, Viglione, Fay, and Donatelli.
Jan 2022	Approved: Sent for evote after Jan 2022 meeting: Sent 1/10, 2/4; Approved McLean 2/5, Donatelli 2/7; awaiting Viglione (assume no vote Fay)	Approved: Sent for Evote 2/9/22; Approved McLean & Donatelli 2/9/22; Viglione and Fay 2/10/22
Dec 2021	Approved: Sent for evote after Jan 2022 meeting: Sent 1/10, 2/4; Approved McLean 2/5, Donatelli 2/7; awaiting Viglione (assume no vote Fay)	Approved: Sent both portions for evote 12/17. Approved Donatelli, Viglione, McLean 12/17.
Nov 2021	Approved: Sent 12/14. Approved McLean 12/16, Viglione 12/17, Donatelli, 1/10.	Approved: Sent 12/14. Approve Donatelli, McLean 12/16. Viglione 1/10
Oct 2021	Approved: Sent 12/14. Approved McLean 12/16, Viglione 12/17, Donatelli 1/10.	Approved: Sent for evote 11/23, resent 11/30 (Approved McLean, Donatelli on 11/30, Viglione 1/10).
Sept 2021	Approved: July/Aug/Sept sent 9/26 for evote; (Sept amended, then approved 9/27 Donatelli & McLean) Awaiting Viglione.	Approved: Sent for evote 10/26. Approved McLean 10/26, Donatelli on 10/27, Viglione 1/10).
Aug 2021	Approved: July/Aug/Sept sent 9/26 for evote; approved 9/27 Donatelli & McLean, Viglione 1/10)	Approved: July/Aug sent for evote 9/13. (Approved McLean 9/14. Evote resent to others 9/26; Donatelli approved 9/27, Viglione 1/10).
July 2021	Approved: July/Aug/Sept sent 9/26 for evote approved 9/27 Donatelli & McLean, Viglione 1/10).	Approved: July/Aug sent for evote 9/13. (Approved McLean 9/14. Evote resent to others 9/26; Donatelli approved 9/27, Viglione 1/10).
Jun 2021	Approved - May and June Minutes-Sent for e-vote 7/1/21, 8/9/21, 9/9 (In favor, Donatelli, 9/7, Viglione 8/9, Resent, McLean approved 9/26)	Approved – Combined Apr/May/June sent for evote 9/3, (in favor Donatelli and Viglione 9/4, 9/7, resent 9/9, 9/26; McLean approved 9/26)
May 2021	Approved - Sent for e-vote 7/1/21, 8/9/21, 9/9 (In favor, Donatelli, 9/7, Viglione 8/9; Resent, McLean approved 9/26)	Approved – Combined Apr/May/June Sent for evote 9/3, (in favor Donatelli and Viglione 9/4, 9/7), resent 9/9, 9/26; McLean approved 9/26)
April 2021	Approved - Sent for evote 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)	Approved – Combined Apr/May/June Sent for evote 9/3, (in favor Donatelli and Viglione 9/4, 9/7), resent 9/9, 9/26; McLean approved 9/26)
Mar 2021	Approved, sent for evote 3,8, 4/12, 4/22 (In favor, Wells, Viglione 4/22/21, McLean abstain)	Approved, Sent for evote 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)

	Minutes for the month	SERA Invoice
Feb 2021	<i>Passed. Sent for Evote 2/8, 3/8, 4/12, 7/1 (In Favor: McLean 3/8, Viglione 3/8, Wells 7/1)</i>	<i>Approved, Sent for evote 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)</i>
Jan 2021	<i>Passed. Sent for Evote 2/8, 3/8, 4/12, 7/1 (In Favor: McLean 3/8, Viglione 3/8, Wells 7/1)</i>	<i>Approved, Sent for Evote 2/8, 3/8, 4/12, 4/22 (In favor, Wells, McLean, and Viglione 4/22/21)</i>

Other Votes / Meetings / Tracking (2022-2023) Updated

Apr 2023

- 4/4 – Interim presentation on X2244, Review possible shift from EE to GHG policy integration goals and metrics at the State level

Mar 2023

Feb 2023

- 2/6 – update on C1983 HES Impact results to Residential Committee
- 2/1 – preview update on C1983 HES Impact results to Eval Committee/EEB

Jan 2023 –

- 1/11 - Eval Update to EEB
- 1/6 – comments for X1942 NEI study draft due

Dec 2022 –

- 12/14 Res Kickoffs:
 - R2209 – RNC NTG
 - R2213 – Delivered fuels impact eval methods
- 12/14 3 HP Kickoffs:
 - R2246 – Res HP Metering (joint states)
 - C2230 – Com'l HP & Electrification
 - X2231 – Cross cutting HP & Electrification
- 12/14 Cross-cutting Kickoff
- 12/13 Commercial Kickoffs
 - C2203 – Ag market & Baseline Assessment
 - C2211 – BES Impact & Process Eval
 - C2201 – C&I baseline

12/12/16 – Approved by Eval Committee: SERA Scope of work and budget approved by evote – 12/12 (Viglione and Fay), 12/13 (Sickinger).

Nov 2022 –

- Multiple UI Data Dictionary meetings, Utility / TC pre-interviews for project scope refinements before kickoff.
- Multiple kickoffs to be scheduled this month.
- **VOTE HELD in meeting 11/7/22. MOTION passed:** Fay moved that the memo should pass Evaluation Committee and be forwarded / recommended to EEB. Seconded by Viglione. Fay and Viglione in favor. DEEP abstained (as the document is ultimately filed to them).

- **MOTION PASSED, Evaluation Committee, 11/7/22 meeting:** *Revise and replace the motion passed last month by the Evaluation Committee. Approve \$180,000 additional budget to reimburse for additional costs (nearly all due to data-related issues), and pull the funding from Study X2234 (Emerging Issues). X2234 has \$248K in the Updated 2022 Evaluation Plan. Over the next 3-6 months, the utilities, DEEP, EA, and others will work to identify possible funding sources that will allow reimbursement to Project X2234 of the data portions of these costs, and will report back to the Evaluation Committee monthly, and inform EEB periodically. The data-related costs were allocated as: \$39,260 from Eversource, \$121,040 from UI.*

Oct 2022 –

- **Passed 2022 Eval Plan Update** / no budget change, and contract projects. Move Plan’s budget forward to EEB. In favor: Fay 10/4, Viglione 10/5, Donatelli 10/5.
- **Passed 2022 Eval Plan** Update budget – by EEB 10/12.
- **Motion to increase NMR Budget** by \$180,000 with funding to come from sources other than C&LM Plan or Evaluation Budget. In favor: Fay 10/4, Viglione 10/5; DEEP raised issue that Committee and EEB lack authority to address funds outside C&LM Plan or Evaluation budget. Viglione (10/6) and Fay 10/6 interested in efforts to identify other sources; consider issue also at EEB.
- Multiple UI Data Dictionary meetings, Utility / TC pre-interviews for project scope refinements before kickoff.

Sept 2022 –

- 9/12 – EUL (X2001) and NEI (X1942) presentation – cancelled, will be incorporated into full report’s final presentation early 2023.
- 9/15 – 11am, Com’l refrigerator presentation (X1931-5)
- 9/15 – 1pm, C1902 A and B – ECB NTG, Baseline, code compliance study – presentation of NTG and baseline/compliance results developed in memos.
- 9/20 – 12pm, R2015, Low load Zero net energy report final presentation,
- 9/29 – 3:30pm, X2022, Engagement / Workforce report final presentation

Aug 2022 –

- 8/4 training repeated for new contractors by EA
- 8/1 review draft R2015 released

July 2022 –

- **7/29 training for new contractors by EA**
- **Approved: Legislative Report:** Distributed evote 7/13, votes in favor received from Fay (7/13), McLean (7/14), Donatelli (7/18), Viglione (7/18). Sent for posting to Exec Secretary 7/20.
- **Approved: Award of C&I baseline study to DNV per memo recommendation.** Distributed evote 7/13, votes in favor received from Fay (7/13), McLean (7/14), Donatelli (7/18), Viglione (7/18). Documentation to contract for this project sent to utilities by EA 7/22/22.
- Presentation of X1939 to C&I meeting held 8/13.

June 2022 –

- Meetings with EA and utilities on DNV project on reformatting (and some updates) to the PSD
- 6/8 – Update to EEB on Evaluation committee
- 6/8 – R1965/2027 HP presentation in Residential Committee
- 6/1 - EEB onboarding meeting

May 2022 –

- Multiple review draft studies out and comments received. See 5/15 table.

April 2022 –

- Comments on Conditions of Approval 4/25, 4/27- not passed by EEB
- **PASSED** – Approval of winners of 3 year research area contracts – evote – April 27 – May 3, favor: Viglione, Fay, McLean; abstained Donatelli. Passing contract docs to utilities for contracting.

Mar 2022 –

- 3/10/22 3:30, Kickoff C2117 RCx Persistence Study Kickoff
- 3/4/22, 2pm, R1968 RNC Baseline & code compliance - Kickoff meeting (follow-up only for folks that couldn't attend previous kickoff)

Feb 2022 –

- **VOTE / PASSED 2/10:** Agree to have project R1968 cover 2015 code update, add MF sample, and adopt the optional task for \$20K addition, from the project X2234 “Emerging issues” from the 2022-24 Evaluation Plan (mentioned in the discussion included in the attached minutes; I have also attached the rationale memo from NMR) - Evotes from Donatelli & McLean 2/9; Fay and Viglione 2/10
- **VOTE / PASSED 2/10:** Agree to award the R1968 Phase 2 work to NMR on its existing PO, awarding project R2215 funds of \$300K to allow smooth continuation of the project / no gap. This awards the funds from a 2022-24 project to that existing PO. (minutes describe advantages) – Evotes from Donatelli & McLean 2/9; Fay and Viglione 2/10
- 2/15/22 R1968 RNC Baseline & code compliance - Kickoff meeting
- Special data meetings R1983 / UI
- 2/4/22 - Meetings on C&I verification refinement suggestion from CIE (Jan and Feb and ongoing)
- 2/3/22 - TRM meeting on level of detail of results for R1983 realization rates

Jan 2022 –

- 1/10 Stakeholder briefing for Phase 2 directions for R2015 (low load residential homes).
- 1/10 **APPROVED** EVALUATION PLAN, REVISED, by evaluation committee. In meeting.
- 1/12 Briefing with EEB on Evaluation Plan.
- 1/12 – **APPROVED BY EEB VOTE**
 - 3-year Evaluation Plan and Budget - \$14.775 million (\$4.5 million, \$4.5 million, \$5.775 million across the 3 years)
 - EA team budget – 2022=\$444,110; 2023=\$444,110; 2024=\$531,155.
 - EA Team scope of work; provided to utilities.
- Meetings on C&I verification refinement suggestion from CIE (Jan and Feb and ongoing; including C&I meeting, January)