

From: Paul Reeves
Sent: 3/10/2010 6:35:18 PM
To: Martin.Vu@sce.com (Martin.Vu@sce.com)
ABesa@SempraUtilities.com (ABesa@SempraUtilities.com);
darren.hanway@sce.com (darren.hanway@sce.com);
Cc: CHarmstead@semprautilities.com (CHarmstead@semprautilities.com); Redacted
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don.arambula@sce.com (don.arambula@sce.com); Redacted
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Ramaiya, Shilpa R (/o=PG&E/ou=Corporate/cn=Recipients/cn=SRRd); Redacted
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(natalie.walsh@cpuc.ca.gov); 'Matthew.Evans@sce' (Matthew.Evans@sce.com);
'Tapawan-Conway, Zenaida G.' (zenaida.tapawan-conway@cpuc.ca.gov)

Bcc:

Subject: RE: Non-DEER Meeting Wednesday's Agenda

Martin,

"Does it make sense that going from 72 Watts down to 41 Watts would result in 1 Watt of savings?"

I would refer you to the third paragraph of my previous reply, but to reiterate, this building is "on break" (i.e. closed) during the CTZ 6 demand period (July 9 - 11) and only 2% of the fixtures are assumed to be on. So 2% of a 31 Watt impact does round off to 1

Watt.

For CTZ 8, the demand period is in late September, and as Table 16 of the Update Documentation indicates, the school is "in session". Therefore, the demand impact is based on a coincident demand of 0.71 instead of 0.02 (i.e. 71% of the fixtures are assumed to be on from 2p - 5p during the Sept 23 - 25 period). These coincident demand factors are consistent with Table 15 published in the DEER Update Documentation.

If there are any additional questions regarding this issue we can clear them up either during a future group conference call or you can call me any time.

Regards,

Paul Reeves

The Partnership for Resource
Conservation

140 S. 34th Street
Boulder, CO 80305

303-747-3506 [Redacted]

From: Martin.Vu@sce.com
[mailto:Martin.Vu@sce.com]
Sent: Wednesday, March 10, 2010 7:03
PM
To: [Redacted]
Cc:
abesa@semprautilities.com; [Redacted] CHarmstead@semprautilities.com;
Darren.Hanway@sce.com; Don.Arambula@sce.com; EKirchhoff@semprautilities.com;
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[Redacted] 'Ramaiya, Shilpa R'; Steven.Long@sce.com;

Steve.Galanter@sce.com; 'Tapawan-Conway, Zenaida G.'

Subject: RE:

Non-DEER Meeting Wednesday's Agenda

Hey Paul,

Thanks for responding even though you should be having dinner by now.

In any event, please look at the demand savings for both whole building and end use. Does it make sense that going from 72 Watts down to 41 Watts would result in 1 Watt of savings?

Note: This happens for all climate zones except climate zone 8 in SCE territory for the primary and secondary building types. Although I can understand your explanation below that the school schedules are out for summer, why is it that climate zone 8 got higher demand reduction?

Hopefully, this can be explained on our next call, which I think Peter is attempting to set up for Friday morning for those who can make it.

Thanks Paul.

P.S.

Here is a screen shot of CTZ 8 for the same measure. Check out the demand reduction compared to the CTZ 6.

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From: "Paul Reeves" [Redacted]
To: <Martin.Vu@sce.com>, "Lai, Peter"
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Date: 03/10/2010 05:55 PM
Subject: RE: Non-DEER Meeting Wednesday's Agenda

Martin,

I'm not very clear on your request, but ... I used this as an example to compare results from DEER (v2.05) to the Lighting Workbook values.

If I choose Measure Index 37, SCE territory, Climate Zone 06 and examine the results on the "Impacts Review" tab of the Lighting Workbook, one gets the exact same End-Use kWh per fixture savings value and the exact same End-Use demand savings in kW per fixture for the default PSZ system type. Clearly, nothing regarding hours of operation has changed. The gas negative interaction has dropped to 0.47 therms per fixture, a 25% reduction.

As indicated in table 16 of the DEER Update documentation, secondary school is "on break" during the demand period and the demand savings is very small (only 2% of the fixtures are assumed to be on). The spreadsheet version of the results for this measure recognizes that the lights are basically "off" for this building type during the demand period and reports an HVAC interaction factor of 1.0 for demand. This is true for all schools that are "off" during the demand period (Table 16 referenced above is the best place to see when this happens). This is different from the previous DEER results in that we used to allow small changes to even smaller numbers to be reported as HVAC interactions. To reiterate, and because it may not have made it into the discussion previously, the demand interaction for buildings that are closed are now considered to be 1.0. One nice thing about simplifying this lighting impacts process is that it allows us to enforce better consistency to simple rules like this. In the Lighting Workbook, this is only mentioned in the "key" under the "Demand Applicability" table. The following notes are in the workbook and pertain to the demand applicability table:

- if the value = 1, then demand values are not altered
- if the value = 0, then whole building demand is set to be the same as end-use demand (HVAC interaction = 1.0)
- value = 0 if the building is "on break" (i.e. closed) during the demand period for that climate zone

This concept should probably be called out more explicitly, but again, the nice thing about the simplified approach is that all of these rules are in the spreadsheet and readily traceable.

The energy HVAC interaction factor implied by the MISer table below is 1.23. This has decreased to 1.19 for the default system type in the Lighting Workbook. Across all eleven system types that are relevant to this building type, the overall HVAC energy interaction factor is 1.14. This value was never before available, so can't be compared to any MISer or previous DEER value.

Did that address your issue?

Regards,

Paul Reeves
The Partnership for Resource Conservation
140 S. 34th Street Boulder, CO
80305
303-747-3506 [Redacted]

From: Martin.Vu@sce.com [mailto:Martin.Vu@sce.com]

Sent: Wednesday, March 10, 2010 4:35 PM

To: Lai,

Peter

Cc: abesa@semprautilities.com; [Redacted]

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Matthew.Evans@sce; [Redacted] Walsh, Natalie; Paul Reeves;

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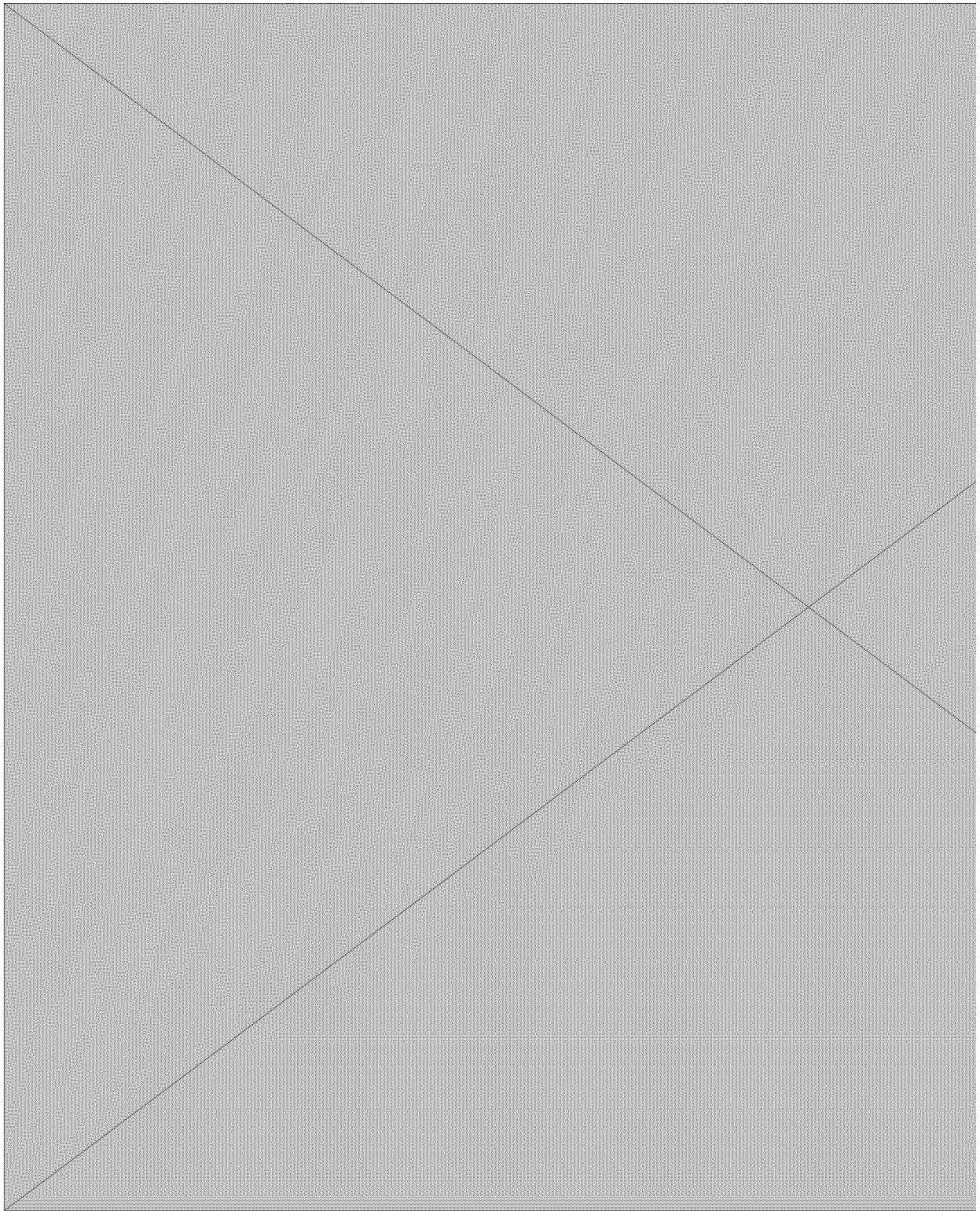
Steven.Long@sce.com; Steve.Galanter@sce.com; Tapawan-Conway, Zenaida

G.

Subject: RE: Non-DEER Meeting Wednesday's Agenda

Hi Peter,

Could either Paul or Jeff speak to the DEER fixes related to the screen shot below:



Thanks,

Martin Vu
Southern California Edison

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From: "Lai, Peter" <peter.lai@cpuc.ca.gov>
To: "Ramaiya, Shilpa R" <SRrd@pge.com>, [Redacted]
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[Redacted] "Jeff Hirsch"
[Redacted] "Kevin Madison"
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[Redacted] "Paul Reeves" [Redacted]
<Shahana.Samiullah@sce.com>, [Redacted]
[Redacted] <Steve.Galanter@sce.com>, <Steven.Long@sce.com>, "Walsh, Natalie" <natalie.walsh@cpuc.ca.gov>, "Tapawan-Conway, Zenaida G." <zenaida.tapawan-conway@cpuc.ca.gov>
Cc: [Redacted]
Date: 03/10/2010 12:00 PM
Subject: RE: Non-DEER Meeting
Wednesday's Agenda

Hi
All,
It
would be in best interest to talk about these proposed limited fixes today so that we can forge ahead. Have you all had an opportunity to review the documentation provided? Let's not forget, if there is not a consensus to incorporate the fixes and add the new lighting measures, then it will not be done.

Peter

From: Ramaiya, Shilpa R [mailto:SRRd@pge.com]

Sent: Wednesday, March 10, 2010 11:50 AM

To: Lai, Peter;

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CHarmstead@semprautilities.com; Darren.Hanway@sce.com; Don.Arambula@sce.com;
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Cc: Redacted

Subject: RE: Non-DEER

Meeting Wednesday's Agenda

Peter,

Per my email this morning, we're not prepared to talk about new DEER or the related workbooks (Agenda item 1). Let's focus on moving forward on non-DEER until our management hears from Julie on the issue.

Thanks!

Shilpa

From: Lai, Peter [mailto:PPL@cpuc.ca.gov]

Sent: Wednesday, March 10, 2010 7:25 AM

To:

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Subject: Non-DEER Meeting Wednesday's

Agenda

ED-Utilities

Non-DEER Review Meeting

Wednesday, March 10, 2010, 3:30-5:00 PM

Call-in No: Redacted

Redacted

Participant code: Redacted

Agenda

1.
DEER fixes/corrections
2. Development of guidelines such as baselines
3.
Non-Disclosure
Agreement
4. Utility custom applications submission to ED procedure