From: Paul Reeves

Sent: 2/25/2010 10:20:46 AM

To: 'Lai, Peter' (peter.lai@cpuc.ca.gov); 'Mark McNulty' (markmcnulty@sbcglobal.net)

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Bcc:

Subject: Re: non-residential lighting measures workbook

Mark,

Re: 1) This is a good idea and one that I had thought about but did not pursue. Currently there are many more measures in this workbook than there are in MISer, so for many measures there is no MISer equivalent. But those measures that do have an equivalent measure definition should reference that DEER ID. I'll propose that as an addition.

Re: 2) The workbook does assign a "MeasureID", but taking this a step further it is clear that an "ImpactID" would also be useful. The standard DEER identifiers for building type, climate zone, building vintage and case (customer average or code) would apply to any measure created with this workbook and could be prepended to the MeasureID. But a formal mechanism for doing this within the workbook sounds like an important feature as well.

The concept of this workbook's use, as I understand it, would allow any measure created by this workbook to be considered a DEER measure, and no workpaper would be needed. Documentation and a subsequent brief review on what new measures were created would suffice.

Re:3) Also a useful idea and one we should discuss further.

Re:4) Yes, the EUL for a defined measure could be included. I added the annual equivalent full-load hours as the first step in doing this. The EUL for any measure from this workbook is merely the lamp or ballast rated hours from the EUL table divided by the listed EFLH, subject to the maximum years allowed. For exit lights, this is always 16 years, for linear fluorescent, it's 70000 divided by the EFLH, which is usually (not always) subject to the 15 years limit. I will propose adding this calculation to the workbook as well.

Re:5) Creating a similar tool as an add-on to MISer has been considered, with the idea that load shapes would be readily available and weighted load shapes could be created as well as the weighed annual results. In some ways I agree with you that Excel is not the optimum medium for this type of application, but on the other hand it is relatively small and portable, easily understood and easily updated. Most of the sheets in this workbook are "protected", such that a user can't inadvertently delete or change cells that shouldn't be changed. I did, however, let the user "unprotect" the sheets and dive in to see how everything is done.

I appreciate your comments and would welcome a more detailed discussion of any enhancements or revisions that may come from your use of the workbook.

Regards,

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From: Mark McNulty [mailto:markmcnulty@sbcglobal.net]
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Subject: Re: non-residential lighting measures workbook

Peter/Paul - I skimmed through this and I have a few simple questions:

1) If we pick a measure that is in the MISer do we get the ImpactId that is in the MISer?(I am assuming we get the same values)
2) If we create a custom measure - does this Excel tool assign an ImpactId? If so - then is this basically a DEER measure and no workpaper is required? If not, how do we track the measure?
3) If there is no measure cost in the DEER Excel measure cost tables for a measure we custom build do we submit a workpaper? I am thinking a more useful approach would be to generate a list and once a month have Sumit Blue or ? develop a measure cost and update the cost tables. While this is not freeezing the DEER, it is practical and it's measure cost rather than savings.
4) Since the hours are being used in the calculations, have you considered this generating the EUL?
5) I am just wondering when this is final if it should be in a language or database software rather than Excel which is really not intended for this type of application. Maybe an add-on to the MISer? The E3 calculator has the Excel downside (cells can be edited)

I am sure we all look forward to hearing more.

MM

Dear All,

Please find attached the DEER non-residential lighting measures workbook which contains a library of pre-configured lighting measures and has the ability to create custom lighting measures. The lighting fixture library from which custom measures can be created is a superset that encompasses the utilities' standard fixture libraries (from the SPC Program). This allows utilities to create custom DEER measures for the range of current lighting technologies with the exception of LED lighting. Content to the workbook is found in the first tab, and the instructions are within the individual tabs. At the utility's request, ED will schedule a training session at the utilities' earliest convenience. Please direct your comments or questions to Paul Reeves at paulreevesprc@gmail.com. We expect the utilities' to use this spreadsheet workbook to inform ED of the lighting measures from this workbook library that are in the utility's measure mix, and any utility created custom lighting measures.

We can discuss this a bit more at tomorrow's meeting.

Thanks,

Peter