

**From:** "Vail, Lance W" <lance.vail@pnl.gov>  
**To:** Nitin Patel <NXP1@nrc.gov>, Jack Cushing <JXC9@nrc.gov>  
**Date:** Wed, Mar 8, 2006 8:39 AM  
**Subject:** RE: Meeting with Dominion to discuss Water Budget Spreadsheet

Questions:

1) Evaporation loss computations from the MIT model. Specifically, the '2 Units Rated Evap' column, found in both the 'WetDry CT Evap Loss' (column I) and 'Evap Loss' (column J) worksheets. I've also taken the difference of the Historical from the Rated Evap column and have found that for approximately 23% of the period the daily difference is negative (Historical > Rated). Please explain the history of this evaporation column, and why the rated evaporation is smaller than the historical period for a significant period of time, I would appreciate it.

I have found the 'Historical' evaporation in the previously docketed spreadsheets from Bechtel.

Finally...I think you felt comfortable with the origin of the '0.93\*13.5E9 BTU/hr - Historical Rejected Heat'...do you know if that's observed data? If not, I'd like to know where that data is from.

2) Please provide some background on the analysis ('Hector's spreadsheet') for the values in Columns M through T of the 'WetDry CT Evap Loss' worksheet.

3) Is the 96% load factor appropriate for the service water load 'WetDry CT Evap Loss' worksheet H?

4) The 'WetDry CT Evap Loss'B2 value of 67F controls the net water losses. While the evap switches entirely between 0.0 and MWC based on daily average in the spreadsheet, would this actually track subdaily variation in temperature. We'd like a better understanding of how this system would work to understand if the average daily temp and 67 criteria is provide "reasonably conservative" estimates of the evaporation losses. Were any sensitivity studies done on the 67 value?

-----Original Message-----

**From:** Nitin Patel [mailto:NXP1@nrc.gov]  
**Sent:** Wednesday, March 08, 2006 4:47 AM  
**To:** Jack Cushing; Vail, Lance W  
**Cc:** George Wunder  
**Subject:** Meeting with Dominion to discuss Water Budget Spreadsheet

I have set up a conference call with Dominion to discuss the questions on the subject spreadsheet at 2 PM EST in O-09B6 and the Bridge is 1 866 740 1260 pass-2732170.

Lance,

Please forward your questions to me at your earliest.

Thanks,

Nitin Patel  
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New Reactor Licensing Branch NBRA  
Tel:(301)415-3201  
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**CC:** George Wunder <GFW@nrc.gov>, "Cook, Christopher B" <Chris.Cook@pnl.gov>

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**Subject:** RE: Meeting with Dominion to discuss Water Budget Spreadsheet  
**Creation Date:** Wed, Mar 8, 2006 8:38 AM  
**From:** "Vail, Lance W" <lance.vail@pnl.gov>

**Created By:** lance.vail@pnl.gov

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