

**Dennig, Robert**

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**From:** Santiago, Patricia  
**Sent:** Tuesday, October 02, 2012 7:46 AM  
**To:** Monninger, John  
**Cc:** Taylor, Robert; Ghosh, Tina; Basu, Sudhamay; Lee, Richard; Skeen, David; Fretz, Robert; Reckley, William; Dennig, Robert; Collins, Timothy  
**Subject:** Re: Fukushima MELCOR Analysis - Steering Committee Presentation

John

I appreciate the insights and applaud you and your staff for all the efforts you are supporting. Your team has also been extremely helpful as we complete SOARCA.

I will note that early December (b)(6) and I will have staff rotating from other offices until we can fill vacancies in AAB to support MACCS analyses and other key work.

Thanks again!!

Sent from an NRC BlackBerry

Patricia Santiago

(b)(6)

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**From:** Monninger, John  
**To:** Santiago, Patricia  
**Cc:** Taylor, Robert; Ghosh, Tina; Basu, Sudhamay; Lee, Richard; Skeen, David; Fretz, Robert; Reckley, William; Dennig, Robert; Collins, Timothy  
**Sent:** Tue Oct 02 07:18:41 2012  
**Subject:** RE: Fukushima MELCOR Analysis - Steering Committee Presentation

Pat,

Thanks for the feedback on the MACCS assessment. I fully appreciate the need to conduct a methodical analysis to ensure the results are technically sound and represent our best assessments to support our regulatory decisions. With the complexity of the codes (MELCOR & MACCS), it becomes even more important for us to plan out in advance. We have received phenomenal support from both your and Richard Lee's branches, and do recognize that it has caused perturbations to the organizations.

There is nothing "definitely" planned for the future for MELCOR and MACCS for Mark I and II filtered vents; however, we have had some preliminary discussions about the need for one additional case. No decision has been made at this time. Prior to proceeding on the decision, we would pull RES (MELCOR and MACCS staff) in on the planning and make sure they also agreed on the need for the additional case. The potential case is more of an integrated analysis wherein the 1<sup>st</sup> part of the transient involves wetwell venting (low source term), and the 2<sup>nd</sup> part involves drywell venting (potentially high source term). With the small torus volume, the timing for switchover from wetwell venting to drywell venting is very important, especially given the recognized need to provide flooding to the reactor cavity.

We are looking to pull together an internal meeting to discuss the merits of this case. We may be able to use some hand calculations and partial results from existing MELCOR and MACCS cases to avoid having another case run.

Our challenge is with planning for tomorrow's full day ACRS and Thursday's public meeting, it's tough to pull the team together. Nevertheless, we will push to reach a decision in the next few days.

John M.

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in accordance with the Freedom of Information  
Act, exemptions

FOIA

**From:** Santiago, Patricia  
**Sent:** Monday, October 01, 2012 1:14 PM  
**To:** Monninger, John  
**Cc:** Taylor, Robert; Ghosh, Tina  
**Subject:** RE: Fukushima MELCOR Analysis - Steering Committee Presentation

Thanks John

I will talk to Randy Gauntt based on this JLD schedule and find a date he may be available sooner than when a seminar would be held to discuss the DOE/NRC Forensic Analysis.

I also wanted to make sure you were generally aware that when MACCS calculations are needed for consequences or other information, we typically need 6-8 weeks from when we receive the source term and scenarios. This time is needed to set the MACCS parameters, run the model, obtain results, and then interpret results and determine if other sensitivities are needed. We did the filtered vents analysis modeling in a 2-3 week time period and the SNL staff were very supportive to ensure it happened. It delayed the SOARCA PB UA and other items which were needed to support this. If we know more in advance we can support better. Are you aware of anything else in the pipeline that we will receive in the next few weeks that may require MACCS analyses?

Tina and Nate will do a great job on this for the filtered vents briefs the next few days!

We appreciate your support!!!

**From:** Monninger, John  
**Sent:** Monday, October 01, 2012 11:09 AM  
**To:** Santiago, Patricia  
**Cc:** Taylor, Robert  
**Subject:** Fukushima MELCOR Analysis - Steering Committee Presentation

Pat,

Thanks for the voice mail message. Regarding having Randy/SNL present the Fukushima MELCOR analysis to the Steering Committee, yes we are still interested. Generally, the SC meets every week on Tuesday from 8:00 to 12:00. Occasionally the day or time will change. We develop an agenda for each meeting about 1-2 weeks in advance. Based on the significance of the material to be covered, we prioritize the presentations and occasionally a topic is bumped from one week to the next. We would be pleased to work with you and Randy in scheduling an agreeable date.

Thanks,  
John M.