

## **PMSummerColpEM Resource**

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**From:** Wentzel, Michael  
**Sent:** Monday, May 10, 2010 1:20 PM  
**To:** SummerCOL Resource  
**Cc:** Sebrosky, Joseph  
**Subject:** Summary of May 6, 2010 Phone call with SCE&G to Discuss Geologic Mapping Activities at the Summer Site

MEMORANDUM TO: File (Summer Units 2 and 3)

From: Michael Wentzel, Project Manager  
AP1000 Projects Branch (NWE1)  
Division of New reactor Licensing  
Office of New Reactors

Subject: Summary of May 6, 2010 Phone call with SCE&G to Discuss Geologic Mapping Activities at the Summer Site

The NRC attendees were:

- HQ: Rebecca Karas, Christopher Cook, Gerry Stirewalt, Meralis Plaza-Toledo, Ravindra Joshi, and Michael Wentzel
- Region II: Mina Sheikh and David Ayers

The applicant participants included:

- SCE&G: April Rice, Alan Torres, Bob Whorton, James Fender, Kyle Young, Joe Gillespie, John Todd
- Fugro-Lettis: Randy Cumbest
- Shaw: Matt Cooke, Nathan Cooke, Gina Ferrugia, Ev Washer
- WLA: Frank Simms

The agenda for the conference call appears below.

### **Highlights from the conference call**

SCE&G provided the staff an overview of excavation activities that were underway at the site, specifically that the excavation was taking place making use of soldier piles driven to hard rock in 10 foot increments and that the excavation was proceeding in 5 ft lifts. Additionally, SCE&G presented an overview of their geological mapping activities, which included photographing the excavation site and annotating geologic features on those photographs.

SCE&G then provided a timeline of excavation activities:

- Safety-related excavation activities began in March 2010 for Unit 2
- Foundation layer expected to be reached in Sep/Oct 2010
- Nuclear Island foundation area expected to be cleared by Jan 2011
- Unit 3 activities were expected to begin later in 2011 or early 2012 (nominal 26 month split between Units 2&3)

The NRC staff asked if SCE&G had seen any evidence of faulting up to this point. SCE&G responded that they had not seen any evidence of faulting beyond what would be expected based on previous analysis.

Based on the information provided, the NRC staff took an action to determine at which point in the excavation timeline would be appropriate to conduct the site visit. Additionally, the NRC staff took an action to finalize the logistics of the site visit.



Hey Joe! Many thanks for your note and the opportunity to provide feedback regarding scheduling of the site visit by Meralis and myself. Indeed we do still need to conduct a site visit (in coordination with Region II) for examining maps and the crystalline rock foundation units at Summer when the time is right!

In regard to determining the “right moment”, since it is not commonly possible for us to make multiple visits to the same excavation (unless potentially capable geologic structures are newly discovered), the “right” time will be when each of the two separate excavations is at the bottom in foundation bedrock (i.e. two separate trips). That timing gives us the best opportunity to examine the bedrock surface at foundation level and assess the presence or absence of potentially capable geologic structures in the foundation units. This scheduling assumes the applicant will inform us if they find potentially problematical geologic structures (e.g., faults which may require age dating) in the saprolite which comprises the sidewalls going down to bedrock – although most likely such structures would be traceable into bedrock if they existed in the saprolite and were of tectonic origin.

One cautionary word is necessary. If there is an extended period of time between when the top of fresh foundation bedrock is reached and mapped and when we make our site visit (note that these rocks will not degrade if that is the case since they are hard crystalline units), then it may be necessary for the applicant to clean the foundation surface again to make it visible for examination since the overlying saprolitic materials may wash onto the surface with time and cover it.

To summarize, the best timing would be for us to visit is when we can walk on the top of the foundation units (i.e., the unweathered, saprolite-free, crystalline bedrock surface that will comprise the foundation) and examine the preliminary geologic maps of that surface = your first “bullet” below, at which time we would hope the sidewall maps would also be available for viewing even if in draft form = your second “bullet”. The site visit will require that the Fugro-Lettis geologists who performed the mapping be available for discussion and examination of the foundation “outcrop” produced by the excavation.

Please don't hesitate to let me know if you need additional explanation in regard to best timing for a visit to the Summer site excavations. Becky and Chris may also have additional thoughts as well. I am really looking forward to doing this!

Many Thanks Again,  
-g-

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