

**Bowman, Gregory**

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**RES** **From:** Uhle, Jennifer -RES  
**Sent:** Monday, January 24, 2011 9:53 AM  
**To:** Bowman, Gregory  
**Subject:** RE: Extension Request - WITS 200700117 & 200800373

Thx. J

**EDO** **From:** Bowman, Gregory  
**Sent:** Monday, January 24, 2011 8:52 AM  
**To:** Uhle, Jennifer  
**Subject:** RE: Extension Request - WITS 200700117 & 200800373

Sure – I don't think there's any rush. Mike's schedule looks fairly tight this week, but if you and/or Brian would prefer calling him directly to discuss this, go for it.

**RES** **From:** Uhle, Jennifer  
**Sent:** Monday, January 24, 2011 8:47 AM  
**To:** Bowman, Gregory  
**Subject:** Re: Extension Request - WITS 200700117 & 200800373

Greg. Both Kathy and Brian are out sick today so can we talk tomorrow?

**EDO** **From:** Bowman, Gregory  
**To:** Uhle, Jennifer  
**Cc:** Gibson, Kathy; Armstrong, Kenneth; Dion, Jeanne; Johnson, Kevin  
**Sent:** Mon Jan 24 08:37:32 2011  
**Subject:** RE: Extension Request - WITS 200700117 & 200800373

Mike told me that he had a discussion with Brian a week or so ago about SOARCA. His understanding was that RES was going to look at ways to keep the project on schedule while resolving the issues that have come up, such that an extension request wouldn't be needed. He mentioned that the desire to conclude SOARCA and move forward with a recommendation on Level III PRA was discussed at the Program Considerations and Priorities briefing last week. Based on that, he's not supportive of the extension request without some more discussion (for example, could we publish the draft NUREG for public comment sooner, while acknowledging that we're working on fact checking and additional analysis?).

I had planned on stopping by your staff meeting this morning to discuss this, but I got tied up here.

**RES** **From:** Johnson, Kevin  
**Sent:** Friday, January 21, 2011 7:34 PM  
**To:** ExtensionRequest, EDO  
**Cc:** Armstrong, Kenneth; Greenwood, Carol; Uhle, Jennifer; Bano, Mahmooda; Wach, Lisa; Bowman, Gregory; Dempsey, Heather  
**Subject:** Extension Request - WITS 200700117 & 200800373

Task Numbers: EDATS-SECY-09-0409 (WITS 200700117) and EDATS-SECY-08-0542 (WITS 200800373) – STATE-OF-THE-ART REACTOR CONSEQUENCE ANALYSES (SOARCA) PROJECT

Current Due Date: July 7, 2011

T/15

Requested Due Date to Commission: December 15, 2011

Justification for and/or circumstances as to why extension is necessary (SECY criteria identified).

The staff is requesting an extension of the due date for submitting the Commission paper that will provide both the results of the completed State-of-the-Art Reactor Consequence Analyses (SOARCA) pilot project and recommendations for if and how to proceed with additional analyses for other plant and containment configurations. The current due date for submittal to the Commission is July 7, 2011. The staff is requesting an extension until December 15, 2011.

As can be expected for a complex project such as SOARCA, numerous issues have been raised during the course of the project, some of which are requiring additional time to resolve. The staff proposes to modify the project's schedule to allow time to complete additional analyses resulting from fact checks from the licensees of the pilot plants (criteria #4). Specifically, the licensee informed the NRC staff that the assumptions used in the previously completed interfacing systems loss-of-coolant accident (ISLOCA) scenario were incorrect for the Surry Power Station. The staff has been working closely with the licensee in order to remodel this scenario; including visiting the site in order to ensure that aspects of the plant are modeled correctly. The staff believes that it is particularly important to run a new model of the ISLOCA scenario due to its potential to produce the largest source term of all scenarios analyzed, and result in a prompt fatality. In addition, the model of the Peach Bottom Nuclear Power Plant is being revised to include a more realistic safety relief valve (SRV) failure model. Additional SRV analyses were necessary to address questions raised by the peer review committee, and because SRV failure was found to be an influential parameter in the consequence analyses.

Additional delays have been incurred due to the loss of key personnel at the contractor. The staff is in the process of issuing a sole source contract to obtain the expertise to complete the project.

The staff plans to release the draft NUREG for public review and comment in July 2011 and will conduct multiple public meetings to facilitate public interaction on the project. The staff proposes to provide the Commission the final NUREG, ready for publication, by December 15, 2011. This proposal is predicated on encountering no significant delays during the public interaction process.

The SOARCA Steering Committee has been informed about this request (criteria #4).

Name and statement of approval by responsible Division Director (or higher)

Jennifer Uhle, Deputy Director, Office of Nuclear Regulatory Research