

Schaperow, Jason

From: Schaperow, Jason
Sent: Tuesday, January 11, 2011 11:04 AM
To: Chang, Richard
Subject: revision
Attachments: Scope of work Rev1.doc

I revised it to specifically state "ISLOCA." Please see attached.

SCOPE OF WORK

The contractor ~~shall~~ will work with Sandia National Laboratories, under the technical direction of NRC staff, to conduct ~~best-estimate~~ accelerated evaluations, ~~similar to a phenomena identification and ranking table (PIRT),~~ of accident progression and offsite consequences for SOARCA scenarios including the ISLOCA modeling in the MELCOR computer code for the Surry Plant.

The contractor shall ~~upgrade, or develop,~~ and apply MELCOR plant models ~~(as necessary)~~ to incorporate best practices under development by Sandia National Laboratories, ~~and to use a current version of the MELCOR code.~~ Model development will depend on site-specific information to be provided by the NRC.

Calculations should predict accident progression metrics (e.g., time to uncover the core, time to core damage, time to vessel failure, time to containment failure), as well as the magnitude and form of fission product release. ~~Source terms should be characterized as either large early, large late, moderate, or small.~~ The contractor shall also perform sensitivity/uncertainty calculations to address important uncertainties. The contractor shall update SOARCA documentation and support peer review of the analyses and documentation. As directed by the NRC, the contractor shall revise analyses and documentation to address issues raised by the peer reviewers, licensee staff, and other stakeholders.

~~For the Surry plant, the contractor shall provide assistance to Sandia National Laboratories in the development of letter reports pertaining to the Surry Plant. The first report will describe the results of calculations performed for safety related events.~~