

December 6, 2012

MEMORANDUM TO: R. W. Borchardt  
Executive Director for Operations

FROM: Annette L. Vietti-Cook, Secretary */RA/*

SUBJECT: STAFF REQUIREMENTS – SECY-12-0092 – STATE-OF-THE-ART REACTOR CONSEQUENCE ANALYSES (SOARCA) – RECOMMENDATION FOR LIMITED ADDITIONAL ANALYSIS

The Commission has approved the NRC staff's recommendation for the limited continuation of the SOARCA project for the purposes of (1) conducting a severe accident consequence analysis of a station blackout event at a pressurized water reactor with an ice condenser containment (Sequoyah) based on the insights from the Peach Bottom and Surry analyses and (2) conducting an uncertainty analysis for a severe accident scenario at Surry. The ongoing SOARCA studies should be conducted in a way that complements and supports the higher priority Level 3 PRA project to develop a comprehensive risk profile that models multi-unit sites and spent fuel storage facilities as well as external events.

Priority for future SOARCA work should be put on the performance of an uncertainty analysis for Surry.

Additionally, the ongoing SOARCA studies should be conducted in a way that complements and supports the post-Fukushima activities including Tier 3 items.

The staff should provide the Commission an information paper on its complete review of lessons learned and analyses with regard to use of codes during the Fukushima event and explain in detail how this performance obviates the need for the rapid analysis tool described in SECY-05-0233.

The staff should seek Commission direction if SOARCA project resource conflicts emerge that negatively affects the higher priority post-Fukushima actions or the Level 3 PRA project.

cc: Chairman Macfarlane  
Commissioner Svinicki  
Commissioner Apostolakis  
Commissioner Magwood  
Commissioner Ostendorff  
OGC  
CFO  
OCA  
OPA  
Office Directors, Regions, ACRS, ASLBP (via E-Mail)  
PDR