

June 23, 2009

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

FROM: Andrew L. Bates, Acting Secretary **/RA/**

SUBJECT: STAFF REQUIREMENTS – SECY-09-0051 – EVALUATION OF
RADIOLOGICAL CONSEQUENCE MODELS AND CODES

The Commission has approved the staff's recommendation to use the radiological consequence assessment model already developed and supported by Federal agencies for radiological dispersal device (RDD) consequence modeling. The Commission has approved the staff's recommendation that the MACCS2 code be enhanced, as appropriate, by incorporating insights that may be learned from the DOE/NNSA economic consequence model with the understanding that the enhancements will target the intended uses of MACCS2.

Consistent with Commission direction provided in the Staff Requirements Memorandum COMPBL-08-00004/COMGBJ-08-0003 – Economic Consequences Model, dated September 10, 2008, the staff should produce a policy paper for a Commission decision discussing how guidance from the U.S. Environmental Protection Agency's Manual of Protective Action Guides (PAG) could be incorporated into an improved economic consequences model.

(EDO)

(SECY Suspense:

6/23/10)

The staff should continue to participate in multi-agency organizations such as the Federal Radiological Preparedness Coordinating Committee and continue to coordinate with NRC's Federal partners, such as the Department of Homeland Security, the Environmental Protection Agency, and the Radiation Source Protection and Security Task Force. In working with these agencies, the staff should work to improve the accuracy of the methodology and the modeling through additional studies as suggested by the NNSA report. The staff should also encourage broader acceptance of the methodology and modeling tools by other Federal and State agencies. Because States will play a major role in an RDD event, States' acceptance of the methodology and modeling tools is necessary, and the staff should encourage engagement of States with the other Federal Agencies. The staff should use the methodology and modeling tools as part of a future RDD exercise to test its utility for decision making.

cc: Chairman Jaczko
Commissioner Lyons
Commissioner Klein
Commissioner Svinicki
OGC
CFO
OCA
OPA
Office Directors, Regions, ACRS, ASLBP (via E-Mail)
PDR