




Department of Energy
Washington, DC 20585

February 23, 2011

MEMORANDUM FOR HELEN BELENCAN

DEPUTY ASSISTANT MANAGER FOR CLOSURE PROJECT
SAVANNAH RIVER OPERATIONS OFFICE

FROM:

ANDREW WALLO 
DEPUTY DIRECTOR
OFFICE OF NUCLEAR SAFETY, QUALITY ASSURANCE
AND ENVIRONMENT
OFFICE OF HEALTH, SAFETY AND SECURITY

SUBJECT:

Use of International Commission of Radiological Protection Publication 60, *Radiation Protection* (1991a) and 72 *Age-dependent Doses to the Members of the Public from Intake of Radionuclides Part 5, Compilation of Ingestion and Inhalation Coefficients* for the Savannah River Site Performance Assessments

In response to your memorandum, dated February 4, 2011, concerning the proposed use of Dose Conversion Factors (DCF) at the Savannah River Site (SRS), based on dosimetric methods in International Commission of Radiological Protection (ICRP) 60 and its supporting documentation including ICRP 72, we have no objection to your use of this methodology and the associated DCFs in your Performance Assessments (PA).

The Department of Energy (DOE) Order (O) 5400.5, *Radiation Protection of the Public and Environment*, requires use of DCFs based on ICRP 26, *Recommendations of the International Commission on Radiological Protection*, for calculating potential public doses associated with DOE activities unless other dosimetric methods are approved. The update of DOE O 5400.5, (DOE O 458.1, *Radiation Protection of the Public and the Environment*), which adopts ICRP 60-based DCFs was recently issued. We consider it appropriate to use the ICRP 60-based DCFs as alternatives to the DCFs specified in DOE O 5400.5. For additional details see our February 4, 2011, response to your similar request for use of ICRP 60-based dose factors in Annual Site Environmental Reports and National Emissions Standard for Hazardous Pollutant Reports.

In summary, the Office of Health, Safety and Security concurs with the Savannah River Operations Office proposal to direct its contractors to use DCFs based on ICRP 60 methods for the PAs at SRS. If you have any questions, please call me at (202) 586-4996 or Edward Regnier at (202) 586-5027.

cc: Dae Chung, EM-1
Ken Picha, EM-20
Gail Whitney, SRS

