Table 4-4 (Cont'd)

Summary of Potential Impacts

IMPACT SUBJECT	ENVIRONMENTAL CONSEQUENCES
Accident Analysis	In the event of a catastrophic accident (fire, etc.) in which the entire radiological inventory of the proposed facility were released into the surrounding environment, radiation doses to onsite workers (100 yds) and offsite populace (site boundary) would be 1.4 rem and 6.57×10^{-3} rem respectively.
Cumulative Impacts	The principal cumulative impact would be the loss of 1.2 hectares of pine plantation habitat (@3,100 board feet of marketable timber).

5.0 REGULATORY AND PERMITTING PROVISIONS CONSIDERED

DOE policy is to perform its operations in compliance with all existing applicable federal, state, and local laws and regulations, and with all DOE orders. This section discusses the major regulatory programs that are applicable to the proposed action.

5.1 National Environmental Policy Act of 1969

NEPA, as amended (42 USC 4321 et seq), requires "all agencies of the Federal Government" to prepare a detailed statement on the environmental effects of proposed "major federal actions significantly affecting the quality of the human environment." This EA was prepared to assess the significance of the environmental effects of the proposed Instrument Calibration Facility and to comply with NEPA, the Council on Environmental Quality Regulations on Implementing National Environmental Policy Act (40 CFR 1500-1508), DOE National Environmental Policy Act; Implementing Procedures; Final Rule and Notice 10 CFR 1021, and DOE Order 5440.1E.

5.2 Solid Waste Regulations

Small quantities of miscellaneous non radioactive, non hazardous scrap from construction operations would be disposed in the SRS Solid Waste Landfill. During routine operations, miscellaneous trash (e.g., office waste paper, maintenance shop waste) would also be disposed in the landfill.

Any radioactive solid waste that would be generated would be subject to the requirements of DOE Order 5820.2, "Radioactive Waste Management".

Disposal of mixed waste (low-level radioactive hazardous waste) would be subject to the additional RCRA requirements and the South Carolina Hazardous Waste Management Regulations (SCHWMR) R.61-79.

5.3 Air Emissions Regulations

The projected annual release of 200 μCi of tritium (at a rate of approximately 4 μCi per week) falls within the emissions guidelines currently established by DOE and SCDHEC.

5.4 Domestic Water Regulations

The domestic water tie-in for the toilets, sinks and showers requires a Public Water Works permit to be approved by the State of South Carolina (SCDHEC Regulation R61-58).

5.5 *Liquid Discharge Regulations*

Both the Sanitary Sewer Construction Permit (SCDHEC Regulation R61-67) and the Sanitary Sewer Operation NPDES Permit (SCDHEC Regulation R61-68) require approval by the State of South Carolina, prior to construction and operation of the proposed facility.

A small quantity of waste solvents would be handled as a liquid hazardous waste. Present plans do not involve storing this waste at the generating facility for more than 90 days. All applicable requirements pertaining to hazardous waste (e.g., RCRA, SCHWMR r.61-79) would be met.

5.6 Transportation Regulations

Routine activities in the processing of radiation monitoring instrumentation could involve onsite transportation of potentially contaminated instruments from the field users to the proposed calibration facility. Such transportation would be in accordance with applicable regulations, including DOE Order 5480.3 (Safety Requirements for the Packaging and Transportation of Hazardous Materials, Hazardous Substances, and Hazardous Wastes). In addition, applicable requirements of the Nuclear Regulatory Commission (10 CFR Part 71) and the Department of Transportation (49 CFR 171-178) would be followed. State transportation requirements applicable to transportation of radioactive material to and from SRS (e.g., routing requirements) would be followed to the extent that such requirements are not inconsistent with Federal regulations.

6.0 AGENCIES AND PERSONNEL CONSULTED

This document was compiled in part from information contained in the Reactor Operation Environmental Impact Statement (DOE, 1990). Information was provided by, discussed with, and/or reviewed by personnel in the following organizations;

- U.S. Fish and Wildlife Service, Charleston Office (USFWS)
- Savannah River Forest Station (SRFS)
- University of South Carolina
    - Department of Archaeology and Anthropology