SRS ES&H STANDARDS COMPLIANCE PROGRAM MANAGEMENT PLAN

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DOE Contract No. **DE-AC09-89SR18035**

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SRS ES&H
STANDARDS COMPLIANCE PROGRAM
MANAGEMENT PLAN (U)

September 8, 1993

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1.0 BACKGROUND

On March 8, 1990, the Defense Nuclear Facilities Safety Board (DNFSB) issued Recommendation 90-2 to the Secretary of Energy (Ref. 8.1). This recommendation, based upon the DNFSB's initial review and evaluation of the content and implementation of standards relating to the design, construction, operations, and decommissioning of defense nuclear facilities of the Department of Energy (DOE), called for three actions:

- (1) Identification of specific standards that apply to design, construction, operation and decommissioning of DOE facilities;
- (2) Assessment of the adequacy of those standards for protecting public health and safety; and
- (3) Determination of the extent to which they have and are being implemented.

In June 1992 DOE Headquarters (HQ) issued an implementation plan for DNFSB Recommendation 90-2 (Ref. 8.2). In response to this plan, DOE Savannah River Operations Office (SR) requested (Ref. 8.3) that Westinghouse Savannah River Company (WSRC) prepare a Savannah River Site (SRS) Action Plan for DNFSB Recommendation 90-2. The SRS Codes and Standards Task Group was formed and prepared a Site-Level Implementation Plan (Ref. 8.5) specifying instructions to implement the HQ program at SRS facilities. These instructions were used as the basis for an implementation schedule and a cost estimate to implement the program. The SRS 90-2 Site ES&H Standards Compliance Program has proceeded based on these Implementation Instructions. Since the formulation of that plan:

- HQ has issued and the DNFSB has reviewed and commented on several revisions of the Implementation Plan for DNFSB Recommendation 90-2 (Ref. 8.4 and 8.7).
- SRS facility missions and anticipated funding have changed.
- Additional guidance on the required elements and methodology for such a plan has been presented at HQ sponsored workshops.

Recognizing these factors and the fact that this is an evolving program, SR requested (Ref. 8.6) that WSRC develop a Program Management Plan (PMP) and an Implementation Plan (Ref. 8.8) for a site-wide ES&H Standards Compliance Program in support of the HQ Recommendation 90-2 Implementation Plan at SRS. This is the Program Management Plan in response to the DOE request.

2.0 OBJECTIVE

This document defines the elements of the SRS program required to support the HQ program in response to DNFSB Recommendation 90-2. The objective of this PMP is to ensure a consistent approach for all sitewide ES&H Standards Compliance Program efforts that satisfies the intent of Recommendation 90-2 and the HQ 90-2 Implementation Plan in a cost-effective manner. The methodology and instructions for implementation of the SRS program are contained in the Standards Compliance Program Implementation Plan. The Management Plan shall be used in conjunction with the Implementation Plan.

3.0 DEFINITIONS

Adequacy Assessment

Adequacy assessment is the determination of the applicability and sufficiency of standards/requirements. Standards/Requirements are applicable if they pertain to the site or the facility being considered. Standards/Requirements are sufficient if they protect the environment and the health and safety of workers and the public against the hazards of the site or the facility.

Category of Facility Operations

Each of the applicable SRS facilities is assigned one of four categories with the following key characteristics:

Operating Facility (OP)

The OP Facility is characterized by some combination of the following elements:

- operates or is ready to operate (i.e., readiness review or evaluation completed);
- is relatively new or was recently refurbished;
- has an identified mission;
- has an adequate SAR and Operational Safety Requirements (OSRs) or Technical Specifications substantially based on the current mission;
- has no known major safety uncertainties based on Tiger Teams reviews, Technical Safety Appraisals, and Operational Readiness Reviews;
- has a low safety uncertainty.

Mission Transitional Facility (MT)

The MT Facility is characterized by some combination of the following elements:

- is in transition from operating to shutdown, to long-term surveillance and maintenance, or to decontamination and decommissioning;
- usually quite old;
- does not have a SAR that describes current mission;
- does not have an adequate SAR or OSR for current activities;
- does not meet current design and construction standards for new facilities;
- has substantive safety problems based on Tiger Team reviews, Technical Safety Appraisals, or other safety reviews;
- requires an initial safety assessment;
- has higher safety uncertainty.

Decontamination and Decommissioning Facility (D&D)

A D&D Facility is characterized by the following elements:

- consists of facilities and structures (not environmental restoration);
- is usually low hazard;
- is subject to the requirements of the Resources Conservation and Recovery Act (RCRA), or the Compensation and Liability Act (CERCLA);
- includes facilities in long-term surveillance and maintenance.

Environmental Remediation Facility (ER)

An ER Facility is characterized by the following elements:

- is an inactive waste site (contaminated soil or underground water, not structures);
- contains possibly highly hazardous materials;
- has a remedial investigation subject to applicable requirements of RCRA/CERCLA;
- has a SAR that may be a generic/site SAR, plus an addendum for the specific activity.

Compliance Assessment

Compliance Assessment is an activity to ensure that the S/RID requirements are included in appropriate documented policies, programs, procedures, and practices and that these controls are demonstrably adhered to during office or facility activities. Compliance assessments are documented in detail for configuration control.

Environmental, Safety And Health (ES&H) Basis

The set of hazard assessments, safety analyses, requirements, limits, etc., for a site or facility which require actions, equipment, and systems to protect the environment and the health and safety of workers and the public.

Facility

Facility is used as a generic term to represent a building, an area, a process, or an activity.

Facility Manager

A Facility Manager is the WSRC manager with the authority and responsibility to direct the activities and control the resources of a particular WSRC facility.

Facility Technical Experts (FTEs)

FTEs are individuals knowledgeable and experienced at the facility being assessed in the functional area to which they are assigned.

Functional Areas (FA)

FAs divide activities associated with the environment, safety, or health issues of facilities into related groupings.

Functional Area Experts (FAEs)

FAEs are individuals knowledgeable and experienced in standards that pertain to a particular FA.

Graded Approach

Graded Approach is a decision making process whereby the depth of application of this program to a given facility is determined by consideration of the facility: 1) potential hazards, 2) remaining life, 3) facility category, 4) mission and, 5) age.

Standards/Requirements Identification Document (S/RID)

A S/RID is a set of the necessary and sufficient requirements and commitments to standards to protect the environment and the health and safety of workers and the public against the hazards of the site or the facility. The single S/RID for a Site or Facility is subdivided by Functional Areas.

Site S/RID

The Site S/RID contains the standards/requirements that are applicable site wide and that are not the direct responsibility of a specific facility manager, but are the responsibility of WSRC.

Facility S/RID

A Facility S/RID contains the standards/requirements that are applicable to a specific facility and are the responsibility of the facility manager.

Subject Matter Experts (SMEs)

SMEs are individuals with extensive background, knowledge, and experience in a functional area who will provide an independent review of the adequacy of the S/RIDs. SMEs are not associated with the facilities being assessed.

WSRC ES&H Standards Compliance Program Director

The WSRC ES&H Standards Compliance Program Director develops program guidance, coordinates ES&H Standards Compliance Program activities with SR-Quality Programs Division (QPD), and assists WSRC facility management with the implementation of the program.

4.0 SCOPE

This program applies to all facilities at the Savannah River Site under the management of the Westinghouse Savannah River Company.

4.1 Applicable Facilities

This management plan sets priorities for implementation of DNFSB Recommendation 90-2 at SRS facilities under WSRC management. This is an evolving program, with initial efforts focused on facilities that are of particular interest to the DNFSB and have a major DOE mission. Facilities and relative priorities are listed in Appendix 1.

4.2 Program Action Elements

Consistent with DNFSB Recommendation 90-2 this PMP mandates three program action elements:

- (a) **Requirement Identification**
The identification of the specific standards/requirements that apply to a specified site or facility.
- (b) **Adequacy Assessment**
The evaluation of the applicability and sufficiency of the standards/requirements identified in (a).
- (c) **Compliance Assessment**
A systematic process that reviews site and facility activities for verification that the standards/requirements, as specified in the S/RID, are implemented through policies, plans, procedures, and guidelines and that these implementing documents are being followed.

Implementation of these elements is described in the Implementation Plan (Ref. 8.8).

4.2.1 Standards/Requirements Identification Document (S/RID)

The generation and WSRC approval of the SRS Site S/RID and Facility S/RIDs are within the scope of this PMP.

4.2.2 Adequacy Assessment

The evaluation of the applicability and sufficiency of the standards/requirements identified in the S/RIDs is within the scope of this PMP.

4.2.3 Compliance Assessment

Compliance with S/RIDs is the responsibility of the applicable Site or Facility Manager. Verification that the standards/requirements, as specified in the S/RID, are implemented through policies, plans, and procedures, and that these documents are being followed, is within the scope of this PMP.

4.3 Potential Sources of Standards/Requirements

The following sources should be consulted during the development of the ES&H Basis and the identification of S/RID requirement statements:

- DOE Standards
- DOE Orders/Directives/Guidance/Notices/Laws
- SRS Engineering Standards Manual (SRSESM)
- National Consensus Standards, Regulations, USNRC Requirements and Guidelines, INPO Guidelines
- Westinghouse Corporate Standards and Directives, Site Contract, GOCO guidance documents, DNFSB guidance documents
- Functional Area S/RIDs from other DOE GOCO's, as available
- Unique SRS Site and Facility Standards/Requirements may be identified from other documents

4.4 Categories of Facility Operations

The facilities subject to this program are divided into four categories based on facility age, lifetime and mission. These categories are:

- Operating Facilities - OP
- Mission Transitional Facilities - MT
- Decontamination and Decommissioning Facilities - D&D
- Environmental Remediation Facilities - ER

The four categories are according to the HQ 90-2 Implementation Plan (Ref. 8.4) and are defined in the definition section of this document (Section 3). Categorization of SRS facilities is within the scope of this PMP.

4.5 Functional Areas

The site S/RID and the facility S/RIDs will be structured into functional areas that were selected by DOE-HQ because of their significance for ES&H protection. The DOE ES&H Configuration Guidelines (Ref. 8.10) provide functional area descriptions, with further breakdown by element and sub-element. Functional areas applicable to SRS are identified in Table 4.5-1. The guidance in the ES&H Configuration Guidelines shall be used to define the element and sub-element breakdown within the functional areas, as appropriate to SRS.

**TABLE 4.5-1
FUNCTIONAL AREAS for SITE S/RID and FACILITY S/RIDs***

NUMBER	FUNCTIONAL AREA	NUMBER	FUNCTIONAL AREA
1	MANAGEMENT SYSTEMS	11	RADIATION PROTECTION
2	QUALITY ASSURANCE	12	FIRE PROTECTION
3	CONFIGURATION MANAGEMENT	13	PACKAGING AND TRANSPORTATION
4	TRAINING AND QUALIFICATION	14	ENVIRONMENTAL PROTECTION
5	EMERGENCY PLANNING AND PREPAREDNESS	15	R&D AND EXPERIMENTAL ACTIVITIES
6	SAFEGUARDS AND SECURITY	16	NUCLEAR SAFETY
7	ENGINEERING DESIGN	17	OCCUPATIONAL SAFETY AND HEALTH
8	CONSTRUCTION	18	WASTE MANAGEMENT
9	OPERATIONS	19	ENVIRONMENTAL RESTORATION
10	MAINTENANCE	20	DECONTAMINATION AND DECOMMISSIONING

* These Functional Areas represent minor modifications from those used as part of the pilot program.

4.6 Support by Experts

Functional Area Experts (FAEs) and Facility Technical Experts (FTEs) will be selected and approved by WSRC Management. FAEs will possess experience in their functional areas with the ability to relate commercial nuclear or naval nuclear standards/requirements to SRS facilities. FTEs will have appropriate field experience in the functional areas of the facility for which the S/RID is being developed.

SRS site and facility programs will document the qualifications and management approvals of the FAEs and FTEs. Outside experts may be employed, where deemed necessary, subject to the same management approvals.

4.7 Experience from Ongoing ES&H Standards Compliance Pilot Programs

The Defense Waste Processing Facility (DWPF) at SRS is a pilot program for S/RID development in the DOE complex. The DWPF functional area S/RIDs and S/RIDs from other DOE pilot facilities, such as the New Waste Calciner Facility (WINCO) and the REDOX and Tank Farms (WHC), will be reviewed and considered as potential sources of standards/requirements for the site-level program. The experience gained with these requirement identifications, and the assessments of adequacy of and compliance with these standards/requirements will be used to improve the efficiency and quality of the site-wide program.

4.8 Consideration of DOE Order Compliance Assessments

DOE Orders are recognized as a primary source for appropriate Site or Facility ES&H standards/requirements. Mandatory DOE Order statements shall be considered in the development of the S/RID. Specific standards/requirements may be excluded, as outside the ES&H basis or redundant to an included requirement, but justification for the exclusion must be documented. DOE Order Compliance assessments may be used as evidence of compliance for those mandatory DOE Order standards/requirements.

5.0 WORK BREAKDOWN STRUCTURE, COST AND BUDGET

5.1 Work Breakdown Structure (WBS)

The ES&H Standards Compliance Program WBS provides a framework for project management by focusing on the specific products that are developed. These WBS codes are used within the ES&H Standards Compliance Program to identify the costs and schedule associated with the production of each Site or Facility plan and procedures, S/RID, or S/RID compliance assessment. The first digit of the WBS number identifies the activity at the WSRC Site or Division level. The second digit identifies the particular facility within that Division. The third digit identifies the plan, S/RID, or S/RID compliance assessment deliverable. The specific activities identified within each WBS are listed in Appendix 9.2 for FY-94 and FY-95. Cost estimates and facility schedules for subsequent fiscal years will be updated annually and issued each year by June 30.

5.2 Cost

Cost estimates for the FY-94 and FY-95 90-2 Program elements are listed in Appendix 9.2. Cost estimates and schedules for the subsequent fiscal years will be developed based on actual program expenditures and will be provided in future revisions of this plan.

5.3 Budget

Implementation of the ES&H Standards Compliance Program within each facility is managed as a separate activity within each Facility budget. The Site-level ES&H Standards Compliance Program is managed within the WSRC Engineering and Projects Division, Systems Engineering Department. Program progress is contingent on funding availability.

6.0 ORGANIZATIONAL RESPONSIBILITIES

The implementation of DNFSB Recommendation 90-2 at SRS is under the responsibility of the SR Assistant Manager for Environment, Safety, Health, and Quality. Both SR and WSRC have responsibility for program execution. The division of responsibilities is specified below.

6.1 DOE-SR

- The Director QPD is responsible for providing DOE direction for the WSRC program implementation at SRS and for monitoring program progress.
- The Director QPD approves or recommends for DOE approval:
 - Program Management and Implementation Plans and subsequent revisions
 - the SRS Site S/RID
 - SRS Facility S/RIDs

6.2 WSRC

WSRC has responsibility for managing and performing the DOE authorized site-level and facility-level programs.

6.2.1 Chief Engineer

- The WSRC Chief Engineer approves the ES&H Standards Compliance Program Management Plan and all revisions to program cost estimates.
- The WSRC Chief Engineer appoints the WSRC ES&H Standards Compliance Program Director and is responsible for monitoring his/her performance.

6.2.2 ES&H Standards Compliance Program Director

- The ES&H Standards Compliance Program Director and selected WSRC Division delegates develop and issue the site-level Management Plan and revisions to program cost and schedule estimates.
- The WSRC ES&H Standards Compliance Program Director approves the ES&H Standards Compliance Program Implementation Plan.
- The WSRC ES&H Standards Compliance Program Director is responsible for implementation of the site-level program and coordinates the facility-level programs. Development of facility-level programs, consistent with this site-level PMP and the site-level Implementation Plan, is the joint responsibility of the WSRC ES&H Standards Compliance Program Director and facility management.
- The WSRC ES&H Standards Compliance Program Director is responsible for the identification and approval of Functional Area Experts and Subject Matter Experts.
- The WSRC ES&H Standards Compliance Program Director is responsible for the development of the facility-level S/RIDs, using Facility Technical Experts and Functional Area Experts approved by the Facility Managers. This responsibility includes ensuring that the identified site and facility standards/requirements are adequate and sufficient for the protection of the environment and the health and safety of workers and the public.
- The WSRC ES&H Standards Compliance Program Director is responsible for issuing periodic progress and status reports to WSRC management and DOE-QPD.

6.2.3 WSRC Facility Managers

- Facility management is responsible for implementation of the facility specific ES&H Standards Compliance Program, consistent with the site-level PMP and the site-level Implementation Plan.
- Facility management is responsible for the identification and approval of Facility Technical Experts and approval of Functional Area Experts and Subject Matter Experts assigned for Facility S/RID development.

- Facility management approves the Facility S/RID for WSRC. The WSRC ES&H Standards Compliance Program Director shall submit the Facility S/RID to the Facility management after his/her approval.
- Facility management is responsible for compliance to the approved S/RIDs. This responsibility includes conducting compliance assessments, documentation and reporting of compliance status, and disposition of any identified non-compliances.

6.2.4 WSRC Engineering Initiatives Manager

The WSRC Engineering Initiatives Manager is responsible for integration of the ES&H Standards Compliance Program efforts with other WSRC activities associated with the identification and assessment of standards/requirements to ensure consistency of approach and cost-effective implementation of related activities.

7.0 METHODOLOGY

7.1 Conduct of Work

Procedures will be prepared for site-wide use to implement and document ES&H Standards Compliance Program activities at SRS and its applicable facilities. Specific procedures will be developed for the preparation and assessment of the Site and Facility S/RIDs, as part of the individual programs. WBS Element x.x.1 has been assigned for the development and issue of these procedures. These procedures shall be in accordance with established WSRC Management policies, this Site-Level ES&H Standards Compliance PMP and the Site-Level Implementation Plan. Personnel shall be trained on the appropriate procedures before they begin S/RID development or compliance assessment. Qualification and training requirements for ES&H Standards Compliance personnel are identified in the Implementation Plan, and additional detail will be provided in appropriate procedures. WSRC program director will review and approve of qualification of personnel assigned to perform S/RIDs development or compliance assessment.

7.1.1 S/RID Development Process

7.1.1.1 ES&H Basis Development

The FAE develops an ES&H Basis for the given functional area from review of documents which specify hazards, standards/requirements, and limits such as the Safety Analysis Report, Technical Specifications, Hazards Analysis Report, etc. The ES&H basis statement should address the activities, hardware, software and/or hazards at the given facility (or site) that are pertinent to that functional area. The ES&H basis helps in the identification of standards/requirements for the S/RID and the adequacy review.

7.1.1.2 S/RID Development

The FA S/RID outline is developed by the FAE. The FAE uses the ES&H Configuration Guidelines as the initial outline for the functional area. The FAE modifies this outline, if necessary, to address the ES&H Functional Area safety basis. The FTE reviews, comments and approves the FA S/RID outline.

The FAE prepares the FA S/RID based on the approved outline. The FTE reviews, comments and approves the FA S/RID.

7.1.1.3 S/RID Adequacy Assessment

The SME provides an independent review of the FA S/RID to assess the adequacy of the ES&H standards/requirements. The SME recommends additions, deletions, and changes to the S/RID. The FTE and FAE resolve the SME recommendations and complete the S/RID development.

When SME reviews have been completed, the SME recommendations and associated resolutions will be documented. This constitutes the WSRC S/RID adequacy assessment.

7.1.1.4 S/RID Approval Process

The completed site and facility S/RIDs, along with SME comments and resolutions, will be submitted to SR through a WSRC line management approval process. WSRC S/RID approvals will include the FTE, FAE, SME, WSRC ES&H Standards Compliance Program Director, and the Facility Manager (or Functional Area Cognizant Manager for Site Functional Area S/RIDs). The signatures of the WSRC ES&H Standards Compliance Program Director and the Facility Manager shall represent WSRC approval of a S/RID. The WSRC approved S/RID is forwarded to QPD.

7.1.2 S/RID Compliance Assessment

S/RID Compliance Assessments will be conducted and documented to the same depth required for "DOE Orders of Interest to the DNFSB" as defined in WSRC Procedure Manual 8B (Ref. 8.9). With SR approval, compliance assessments may be conducted to a lesser depth, as justified by application of the Graded Approach to particular circumstances. S/RID Compliance Assessment is the responsibility of the Facility Manager. Formal procedures for conduct of the assessment, documentation, and resolution of non-compliances shall be included in the site-level and facility-level procedures. These procedures will provide requirements to be followed and interfaces with on-going compliance assessment activities. The results of previously conducted site and facility reviews and assessments may be used in assessing compliance with the standards/requirements.

7.1.3 Program Reports

During the S/RID development and compliance assessment processes, progress reports will be provided to SR on a quarterly basis and status reports on a monthly basis. These reports will include:

- The status of FA S/RIDs under development
- Compliance assessment status
- ES&H Standards Compliance Program milestones completed
- Budget status and variance for WBS elements
- Identification and status of open items from previous reports

7.2 Program Oversight

The WSRC ES&H Standards Compliance Program Director has primary responsibility for the adequacy and effectiveness of program implementation. Implementation of the ES&H Standards Compliance Program by WSRC personnel will comply with the applicable requirements of DOE Order 5700.6C, "Quality Assurance", including criterion 2 (Training and Qualification) and criterion 3 (Quality Improvement) and criterion 10 (Independent Assessment).

Performance assessments are conducted by WSRC management and the DOE. Annual Quality Assurance surveillance's will be conducted by the WSRC E&PD QA department to verify implementation in accordance with requirements. Additional oversight will be provided by the WSRC Quality Assurance Department within the Environmental, Safety and Health and Quality Assurance (ESH&QA) organization.

8.0 REFERENCES

- 8.1 DNFSB Letter, March 8, 1990, Conway (DNFSB) to Watkins (DOE), **Transmittal of Recommendation to the Secretary of Energy pursuant to Section 312(5) of the Atomic Energy Act of 1954, as amended.**
- 8.2 DOE Letter, June 15, 1992, Watkins (DOE) to Conway (DNFSB), **Submittal of DOE's Implementation Plan in Response to Recommendation 90-2, Rev. 2.**
- 8.3 DOE-SR Letter, June 16, 1992, Richardson (DOE-SR) to Clark (WSRC-E&PD), **Savannah River Site (SRS) Action Plan for Defense Nuclear Facility Safety Board (DNFSB) Recommendation 90-2.**
- 8.4 DOE Letter, July 20, 1993, O'Leary (DOE) to Conway (DNFSB), **Submittal of DOE's Implementation Plan in Response to Recommendation 90-2, Revision 4.**
- 8.5 WSRC-TR-92-404, Rev. 0, January 8, 1993, **SITE-LEVEL IMPLEMENTATION INSTRUCTIONS TO MEET DNFSB RECOMMENDATION 90-2.**
- 8.6 DOE-SR Letter, April 30, 1993, Rollins (DOE-SR) to Rahe (WSRC-E&PD), **SITE WIDE IMPLEMENTATION OF A STANDARDS COMPLIANCE PROGRAM.**
- 8.7 DNFSB Letter, March 12, 1993, Conway (DNFSB) to O'Leary (DOE), **Review of DOE's Implementation Plan in Response to Recommendation 90-2, Rev. 3.**
- 8.8 WSRC-TR-93-347, Rev. 1, August 20, 1993, **SRS ES&H STANDARDS COMPLIANCE PROGRAM IMPLEMENTATION PLAN.**
- 8.9 WSRC Procedures Manual 8B, **DOE DIRECTIVES ADMINISTRATION MANUAL**
- 8.10 DOE-HQ, **ES&H Configuration Guidelines**, May 6, 1993
- 8.11 WSRC Letter, 000:EPD-SE-93-2013, Feb. 12, 1993, **BUSINESS AND QUALITY IMPROVEMENT PLAN.**

9.0 APPENDICES

9.1 Appendix 1 - Selection of Applicable SRS Facilities

9.1.1 Scope

Applicable facilities are those which may pose a risk to the environment or the health and safety of the public or the workers. Initial efforts focus on facilities whose operations involve radioactive and/or fissionable materials in such a form and quantity that a nuclear hazard potential exists to the public, workers, or environment.

9.1.2 Facility Selection Process

- (a) The numerous nuclear facilities and their sub facilities at SRS must be consolidated into functional groups for efficient program implementation. A functional group of facilities is the logical combination of smaller facilities into larger groups that have similar missions or safety assessments, or which are operated or managed together.
- (b) Each functional facility group was assigned to one of the four categories of facility operation in accordance with Table 9.1-1.
- (c) The implementation plan will use this sequence of the facilities to determine the order in which the program will be implemented. The priority rankings were developed by each Division, considering the facility's hazards and design classifications, existing safety documentation, age and the remaining mission of the facility.
- (d) The degree and depth of recent audits and appraisals, both internal and external, was considered in developing this priority ranking. Facilities that have recently completed intense safety evaluations under other requirement assessment programs, as part of startup or restart plans, were assigned lower priorities than those facilities that are awaiting evaluation.
- (e) SRS facilities that have not begun operation will be grouped under "OP" Facilities, and their ES&H Standards Compliance Programs will be implemented according to each facility's startup schedule.

TABLE 9.1-1
CATEGORIES OF FACILITY OPERATION

GROUP	CATEGORY OF FACILITY OPERATION	NUMBER OF FACILITIES IN EACH CATEGORY
OP	Operating Facilities	18
MT	Mission Transitional Facilities	9
D&D	Decontamination and Decommissioning Facilities	2
ER	Environmental Remediation Facilities	20

9.1.3 SRS Facility Matrix

Tables 9.1-2 through 9.1-5 list all SRS facilities to which the PMP applies. The facilities are grouped according to:

- the category of facility operations
- the WSRC Division managing that facility
- the recommended priority sequence for ES&H Standards Compliance Program implementation within the Division

No sequences were assigned to the ER Facility Category.

TABLE 9.1-2

**SRS FACILITY MATRIX
for "OP" Category of Facility Operation**

SEQUENCE	FACILITY	BUILDING
<u>HLWMD</u>		
1	Defense Waste Processing Facility (DWPF)	221000S
2	In-Tank Precipitation	Various
3	F- and H-Area Tank Farms	Various
4	Saltstone	210000Z
<u>SW&ER</u>		
	Solid Waste facilities including CIF	Various
<u>NMPD</u>		
1	HB Line	221000H
2	H Canyon	221000H
3	235-F Metallurgical Building	235000F
4	247-F Manufacturing Building	247000F
5	Tritium Production	Various
6	Reactor Material Laboratory	320000M
7	Receiving Basin for Off-Site Fuel	244000H
8	Uranium Oxide Storage	Various
9	Replacement Tritium Facility (RTF)	233000H
<u>RRD</u>		
	Heavy Water Rework Facility	420000D
<u>SRTC</u>		
	SRTC Main Technical Laboratory	773000A
<u>SSD</u>		
	Laundry Facility	723000F
<u>ESH&QA</u>		
	Process Control Facilities	772000F

TABLE 9.1-3

SRS FACILITY MATRIX
for "MT" Category of Facility Operation

SEQUENCE	FACILITY	BUILDING
<u>SW&ER</u>	Demonstration Waste Incinerator	230000H
<u>NMPD</u>		
1	FB Line	221000F
2	F Canyon	221000F
3	Fuel Fabrication Building	321000M
4	313-M Manufacturing Building	313000M
<u>RRD</u>		
1	K Reactor	105000K
2	L Reactor	105000L
3	P Reactor	105000P
4	C Reactor	105000C

TABLE 9.1-4

SRS FACILITY MATRIX
for "D&D" Category of Facility Operation

SEQUENCE	FACILITY	BUILDING
<u>NMPD</u>	232-F Manufacturing Building	232000F
<u>RRD</u>	R Reactor	105000R

TABLE 9.1-5

**SRS FACILITY MATRIX
for "ER" Category of Facility Operation**

	FACILITY	BUILDING
<u>SW&ER</u>	F-Area Inactive Process Sewer Lines H-Area Inactive Process Sewer Lines M-Area Inactive Process Sewer Lines F-Area Seepage Basin Closed Site H-Area Seepage Basin Closed Site Burial Ground Complex F-Area Retention Basin H-Area Retention Basin Ford Building Seepage Basin Ford Building Waste Site K-Area Reactor Seepage Basin L-Area Oil and Chemical Basin Old F Area Seepage Basin R-Area Reactor Seepage Basins (6) SRTC Seepage Basins Bingham Pump Outage Pits (7) F-Area Rubble Burning Pits Road A Chemical Basin TNX Burying Ground Old TNX Seepage Basin	281003F 281003H

9.2 Appendix 2 - Facility Implementation Schedule and Funding for FY-94 & FY-95

9.2.1 Work Breakdown Structure

The Internal Work Breakdown Structure for the facilities planned for the 90-2 Program for fiscal years FY-94 & FY-95 is presented in Table.

TABLE 9.2-1
Internal Work Breakdown Structure for SRS 90-2 Program

<u>WBS</u> <u>Element Number</u>	<u>Activity</u>
1.	Site level activities
1.1.	Management Initiatives
1.2.	Site S/RID
1.2.1.	Issue Procedures
1.2.2.	Write the S/RID
1.2.3.	Commer ^t Resolution
1.2.4.	S/RID Compliance Assessment
2.	HLWM
2.1.	DWPF
2.2.	ITP
2.2.1.	Issue Procedures
2.2.2.	Write the S/RID
2.2.3.	S/RID Compliance Assessment
2.3.	F & H Tank Farms
2.3.1.	Issue Procedures
2.3.2.	Write the S/RID
2.3.3.	Compliance H Tank Farm
2.3.4.	Compliance F Tank Farm
3.	SW&ER
3.1	Solid Waste Fac. (including CIF)
3.1.1.	Issue Procedures
3.1.2.	Write the S/RID
3.1.3.	S/RID Compliance Assessment
4.	NMPD
4.1.	HB Line
4.1.1.	Issue Procedures
4.1.2.	Write the S/RID
4.1.3.	S/RID Compliance Assessment
4.2.	H Canyon
4.2.1.	Issue Procedures
4.2.2.	Write the S/RID
4.2.3.	S/RID Compliance Assessment

TABLE 9.2-1 continued

<u>WBS</u> <u>Element Number</u>	<u>Activity</u>
4.3.	F Canyon
4.3.1.	Issue Procedures
4.3.2.	Write the S/RID
4.3.3.	S/RID Compliance Assessment
4.4.	FB Line
4.4.1.	Issue Procedures
4.4.2.	Write the S/RID
4.4.3.	S/RID Compliance Assessment
5.	SRTC
5.1.	Main Lab. Facility
5.1.1.	Issue Procedures
5.1.2.	Write the S/RID
5.1.3.	S/RID Compliance Assessment
6.	Reactors
6.1.	R Reactor (D&D)
6.1.1.	Issue Procedures
6.1.2.	Write the S/RID
6.1.3.	S/RID Compliance Assessment
6.2.	K Reactor (MT)
6.2.1.	Issue Procedures
6.2.2.	Write the S/RID
6.2.3.	S/RID Compliance Assessment
6.3.	Heavy Water Rework
6.3.1.	Issue Procedures
6.3.2.	Write the S/RID
6.3.3.	S/RID Compliance Assessment

9.2.2 Site and Facility Implementation Schedule

The Site and Facility Implementation Schedule planned for the ES&H Standards Compliance Program for fiscal years FY-94 & FY-95 is presented in Attachment 1.

9.2.3 Site and Facility Funding Plan

The Site and Facility Funding Plan for the ES&H Standards Compliance Program for fiscal years FY-94 & FY-95 is presented in Attachment 2.

Attachment 1

Proposed Schedules for SRS Standards Compliance Program for FY-94 and FY-95

[illegible]

Project: SRS 90-2 Program, R1
Date: September 8, 1993

Critical	Noncritical
<p>1. Identify the critical path. The critical path is the sequence of activities that determines the minimum project duration. It is the path with the longest total duration.</p> <p>2. Calculate the early start (ES) and early finish (EF) times for each activity. The ES is the earliest time an activity can start, and the EF is the earliest time an activity can finish. These are calculated by moving forward through the network from the start to the finish.</p> <p>3. Calculate the late start (LS) and late finish (LF) times for each activity. The LS is the latest time an activity can start without delaying the project, and the LF is the latest time an activity can finish. These are calculated by moving backward through the network from the finish to the start.</p> <p>4. Calculate the total float (TF) for each activity. The TF is the amount of time an activity can be delayed without delaying the project. It is calculated as $TF = LS - ES$ or $TF = LF - EF$.</p> <p>5. Identify the activities on the critical path. Activities on the critical path have a total float of zero.</p>	<p>1. Identify the noncritical path. The noncritical path is the sequence of activities that does not determine the minimum project duration. It is the path with the shortest total duration.</p> <p>2. Calculate the early start (ES) and early finish (EF) times for each activity. The ES is the earliest time an activity can start, and the EF is the earliest time an activity can finish. These are calculated by moving forward through the network from the start to the finish.</p> <p>3. Calculate the late start (LS) and late finish (LF) times for each activity. The LS is the latest time an activity can start without delaying the project, and the LF is the latest time an activity can finish. These are calculated by moving backward through the network from the finish to the start.</p> <p>4. Calculate the total float (TF) for each activity. The TF is the amount of time an activity can be delayed without delaying the project. It is calculated as $TF = LS - ES$ or $TF = LF - EF$.</p> <p>5. Identify the activities on the noncritical path. Activities on the noncritical path have a total float greater than zero.</p>

Progress	Milestone
100%	100%

Summary ☒ Rolled Up ☐

Proposed Schedules for SRS Standards Compliance Program for FY-94 and FY-95

Attachment 2

90-2 Program Estimates for FY-94 and FY-95 (\$K)

Facility/Activity	FY '94						FY '95					
	First	Second	Third	Fourth	Total Required	Total Funded	First	Second	Third	Fourth	Total Required	Total Funded
Site-Level 90-2												
90-2 Generic	141	141	141	135	558	558	146	146	146	139	577	577
90-2 Site RID (\$450K in FY-93)	200	65			265	265						
90-2 Generic Increase	40	40	40	40	160	160	40	40	35	30	145	
HLWM												
DWPF (\$1077K in FY-93)	207	94	50	50	401	401						
ITP	180	220	220	200	820							
F&H Tank Farm							218	300	176	156	850	
SW&ER												
Solid Waste Fac. (CIF)							158	276	275	63	772	
NMPD												
HB Line (\$234K in FY-93)	150	150	150	120	570	113					585	585
H Canyon				181	181	113	185	200	200		477	477
F Canyon								119	200	158	438	438
FB Line (\$290K in FY-96)									187	251		
SRTC												
Main Lab							219	258	162	81	720	
REACTORS												
Reactor D&D (*)	160	180	160		500							
K Reactor (MT)							120	280	280	80	760	
Heavy Water Rework									18	300	318	
Total Required Funding					3455						5642	
Total Funded						1610						2077

Assumptions:

1. RID preparation will initially require about 60 EMM (3 EMM per functional area) for a facility.
 2. Lessons Learned and efficiency increases will bring RID preparation down to 1.5 EMM per functional area.
 3. DOE Order Compliance Self-Assessments will have been completed before 90-2 begins.
- (*) Funding has been allocated directly to SWEC.

For Information Only
Attachment 2

END

DATE
FILMED

3 / 28 / 94