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**COMPLIANCE DETERMINATION METHOD FOR REVIEW PLAN NO. 4.1.2
DESCRIPTION OF THE GROA STRUCTURES, SYSTEMS, AND COMPONENTS:
SHAFTS AND RAMPS**

3.0 REVIEW PROCEDURES AND ACCEPTANCE CRITERIA

3.1 Acceptance Review

In conducting the *Acceptance Review* for docketing, the staff will compare the information in the license application (LA) concerning shafts, ramps, boreholes, and their seals (SRBS) with the corresponding section of the FCRG and with the staff's resolution status of objections in the Open Item Tracking System and determine if this information meets the following Acceptance Criteria:

- (1) The information presented in the LA is clear, is completely documented consistent with the level of detail presented in the corresponding section of the FCRG, and the references have been provided.
- (2) The DOE has either resolved, at the staff level, the NRC objections that apply to this regulatory requirement topic or provided the information requested in Section 1.6 of the FCRG for unresolved objections. Namely, it should be determined whether the DOE has:
 - Identified the unresolved objections.
 - Explained the differences between the NRC and DOE positions that precluded resolution of each objection.
 - Described the attempts to achieve resolution.
 - Explained why resolution has not been achieved.
 - Described the effects of the different positions on demonstrating compliance with 10 CFR Part 60.
- (3) Unresolved objections, individually or in combination with others, will not prevent either the reviewer from conducting a meaningful *Compliance Review* or the Commission from making a decision regarding construction authorization within the 3-year statutory period.

3.2 Compliance Reviews

The compliance determination undertaken by the NRC staff will consider whether the Acceptance Criteria specified for each of the following *Compliance Reviews* have been met. The results of the compliance determinations shall be documented in the staff's Safety Evaluation Report (SER) to provide the basis for the actual *Evaluation Findings*.

3.2.1 Safety Review of 10 CFR 60.21(c) (as applicable)

The staff's *Compliance Review* will be conducted to determine the adequacy of the descriptive information required by the applicable regulatory requirements of 10 CFR 60.21(c), listed in Section 1.0 of this

Revision Plan, for SRBS design and performance assessment. The entire information will be read to obtain an overall understanding of how the DOE has presented its information on the many individual aspects of the SRBS and how this information has been integrated. The acceptance criterion for this regulatory requirement is directly related to Review Plan 4.3 wherein the design of the SRBS will be reviewed. Thus the *Evaluation Findings* (acceptance or nonacceptance) for this requirement cannot be arrived at independent of the findings for Review Plan 4.3. Once the SRBS design has been reviewed according to the method set in Review Plan 4.3, the staff shall determine whether the following Acceptance Criterion has been met:

- The descriptive information for the SRBS provides an acceptable basis for the associated assessment (SRBS design and performance assessment) that relies on this information.

3.3 Rationale for Review Procedures and Acceptance Criteria

3.3.1 Rationale for Safety Review of 10 CFR 60.21(c)

The information presented in the description of the SRBS must be reviewed in the context of whether it supports the findings that must be made in those design assessment review plans which make use of the descriptive information. Therefore, the review procedure requires the reviewer to examine the *Evaluation Findings* from those review plans prior to making a conclusion as to the adequacy of the descriptive material.

4.0 IMPLEMENTATION

4.1 Review Responsibilities

The review responsibilities for this review plan are identified in the following table.

<i>Lead:</i>	NMSS-DWM-ENGB-GES
<i>Support:</i>	NMSS-DWM-ENGB-GEO
	NMSS-DWM-ENGB-EMS
	NMSS-DWM-PAHB-PAHP
	NMSS-DWM-PAHB-HTS

4.2 Interfaces

4.2.1 Input Information

Information needed from other sections of the License Application that will provide input important to this Review Plan is listed in the following table.

<i>Input Information</i>	<i>Review Plan No.</i>
Geotechnical information on subsurface and environmental conditions such as design basis events, stratigraphy and physical and strength parameters, and design parameters for the materials at the SRBS - required for the description of GROA SRBS.	3.1.X Description of Individual Systems and Characteristics of Site
List/identification of Structures Systems and Components (SSCs) of SRBS that are important to radiological safety and retrievability	4.3 Assessment of Compliance with Design Criteria for Shafts and Ramps

4.2.2 Output Information

Information¹ from this section of the License Application that will be important to other Review Plans is listed in the following table.

<i>Output Information</i>	<i>Review Plan Nos.</i>
Identification and description of structures systems and components at the interface between SRBS and Underground Facilities.	4.1.5 Description of GROA Structures, Systems, and Components: Interfaces between Structures, Systems, and Components
Description of all Structures, Systems, and Components of SRBS. The scope of the description, as a minimum, should include Items 1 through 9 listed in Section 2.2.1 of this review plan.	4.3 Assessment of Compliance with Design Criteria for SRBS
	4.5 Assessment of Integrated GROA Compliance with Performance Objectives:
The description of the SRBS should include design information on the Structures, Systems, and Components intended for radiation protection.	4.5.1 Protection against Radiation Exposure and Releases of Radioactive Materials to Unrestricted Areas
The description of SRBS should include information on the plans and provisions in the design to address how the retrievability requirement of the regulation is complied with?	4.5.2 Retrievability of Waste

¹The degree of applicability of input/output information cited below will depend upon how the DOE organizes the information in its License Application and how it cross-references this information.

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<i>Output Information</i>	<i>Review Plan Nos.</i>	
General description and functions of SRBS to enable identifying the SSCs that require research and development to confirm the adequacy of the design.	8.5	Unresolved Safety Questions
Information on general description and functions of Shafts and Ramps that is required for development plans for conduct of normal activities at the GROA shafts and ramps.	7.1	Plans for Conduct of Normal Activities

5.0 EXAMPLE EVALUATION FINDINGS

5.1 Finding for Acceptance Review

The NRC staff finds that the information presented by the DOE, as defined by the Applicable 10 CFR Part 60 Regulatory Requirements, is acceptable (not acceptable) for docketing and a subsequent *Compliance Review*.

5.2 Findings for Compliance Reviews

5.2.1 Finding for 10 CFR 60.21(c)

The NRC staff finds the information for descriptions, assessments, and analyses is (is not) adequate, and there is (is not) reasonable assurance the applicable regulatory requirements of 10 CFR 60.21(c), listed in Section 1.0 of this Review Plan, will be met for the SRBS.

6.0 REFERENCES

Nuclear Regulatory Commission. "Format and Contents for the License Application for the High-Level Waste Repository." [Refer to the "Products List" for the Division of High-Level Waste Management to identify the most current edition of the FCRG in effect.]