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NOV 8 1985

John J. Linehan  
Division of Waste Management  
NMSS  
U. S. Nuclear Regulatory Commission  
Silver Spring, Maryland 20555

Dear Mr. Linehan:

On October 29 and 30, 1985, the NRC and the DOE met to discuss the level of detail required in the description of studies in Section 8.3 of the SCP. The NRC requested definition of terms and correlation of terms used in the project-specific examples. Refer to item 2 of the meeting "Observations/Agreements/Open Items," October 31, 1985.

In accordance with these NRC-DOE agreements, we are enclosing definitions of terms to be used in the NRC review of Section 8.3 of the SCP.

If you have any further questions about the definitions or the DOE examples of level of detail, please call Carol Hanlon at 252-1224.

Donald H. Alexander  
Acting Leader, Technology Team  
Geosciences and Technology Division  
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Attachments

cc: R. Stein  
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Figure 1. Correlation of Terms Used in DOE Examples of Level of Detail

| Hierarchical Terms to be used in <u>Section 8.3 of the SCP</u> | <u>BWIP</u>         | Corresponding Terms used by <u>NNWSI</u> | <u>SRPO</u>    |
|--|---------------------|--|----------------|
| Program (Generic)  | Program             | Program                                  | Program        |
| Program (Specific)   | Program Activity    | 2 Digit Activity                         | None           |
| Investigation  | Area of Study       | 3 Digit Information Need                 | None           |
| Study  | Tests and Studies   | Investigation                            | Study          |
| Test, Analysis   | First Test or Study | Test, Analysis                           | Test, Analysis |
| Procedure  | Procedure           | Procedure                                | Procédure      |
| Experiment   | Experiment          | Experiment                               | Experiment     |

DEFINITIONS OF TERMS TO BE USED  
IN SECTION 8.3 OF THE SCP

The following terms are defined to assure consistency in the development of Section 8.3 of the SCP. In the "Summary of NRC/DOE Meeting on the Site Characterization Plans Section 8.3, October 29-30, 1985" DOE agreed to provide NRC with definitions of the following terms: program, investigation, study, test, analysis, experiment, test method, and procedure by Friday, November 8, 1985. In addition, DOE agreed to correlate the defined terms with those used in the project specific examples presented at the October 29-30 meeting to facilitate NRC review (Figure 1). The number of hierarchical terms used in an SCP will vary, depending on the approach used by a given project in the development of 8.3 of the SCP. However, the level of detail will always be at least to the study level as specified in the DOE guidance on "Content Requirements for Descriptions of Studies in Chapter 8 of the SCP."

Program (Generic): the term "program" is used in the annotated outline (AO) to refer to the third level elements in the outline, e.g.,

- 8.3.1 Site Program
- 8.3.2 Repository Program
- 8.3.3 Seal System Program
- 8.3.4 Waste Package Program
- 8.3.5 Performance Assessment Program

Program (Specific): the term "program" is also to be applied to the fourth level elements in Section 8.3 of the AO. At the 4 digit level the term refers to two or more related investigations. Therefore, within the context of 8.3:

- 8.3.2.1 Geology
- 8.3.1.3 Hydrology
- 8.3.1.4 Geochemistry
- 8.3.1.5 Climatology

etc. are referred to as specific programs.

Investigation - the term "investigation" is to be used in Section 8.3 of the AO to refer to: (1) the first major subdivision of a specific program, and 2) is comprised of two or more related studies. The "Hydrology Program" (8.3.1.3) may include several major investigations with very different objectives. For example:

Paleohydrologic Investigations to establish nature and rates of hydrologic processes operating within the Quaternary;

Surface Hydrology Investigations with multiple objectives including: quantification of ground water consumption and use, assessment of potential for foreseeable human activities such as ground-water withdrawal, extensive irrigation, or construction of large scale surface water impoundments.

Study - the term "study" is to be used in Section 8.3 to refer to a combination of tests and analyses which deal with a single or several related objectives within a given area of study. The presentation of a study will follow the DOE guidance in "Content Requirements for Descriptions of Studies in Chapter 8 of the SCP" with the additions agreed to between DOE/NRC in the October 29-30 meeting minutes on Section 8.3

Analysis - is used here to refer to an assessment of test results through calculations, modeling or technical judgement.

Tests - the term "test" is to be used in Section 8.3 of the AO to refer to a combination of procedures which are used for the identification, measurement, or evaluation of a quality, characteristic, or property of a material or system that produces data or information through one or more experiments (test results).

Procedure - describes the detailed stepwise process which specifies how a test will actually be conducted (e.g. ASTM standards).

Experiment - operations that are carried out under controlled conditions as specified in applicable procedures to establish characteristics or values of the quality, characteristic, or property of a material or system being examined.

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