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MS 623 SS Ford
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Quality Evaluation Board Level Assignments
Expedited Special Case for Restart of Boreholes DC-24 and 25

1.0 INTRODUCTION

This document outlines the process and results of the Quality Evaluation Board (QEB) review and assessment of boreholes DC-24/25. This grading activity was conducted in accordance with RHO-BW-MA-17, Project Management Procedure "Graded Quality Assurance" (PMP 4-121), and associated desk instructions (see References, Section 5.0). Section "F" of RHO-QA-MA-3 "Basalt Waste Isolation Project (BWIP) Quality Assurance Program Requirements" was used as additional guidance.

1.1 MATRIX OF INTERACTIONS

The first step in the grading process involved determination of Items and Activities to be discussed, and division in related categories. The initial list of Items was supplied to the Board in Internal Letter 7700-TAC-86-169 (T. A. Curran to T. D. Ault) and was subsequently reorganized and simplified by the QEB to facilitate the grading process. Matrix of Interaction Sheets were constructed listing Items and Initiating Events that may potentially affect the items.

1.2 ITEM ANALYSIS SUMMARIES

Item Analysis Summaries were prepared for each item. These summaries contain definitions of items, potential failures and the primary consequences of each potential failure. Where the QEB did not have sufficient expertise on a topic, subject matter experts were consulted for added technical information. Initiating Events were determined to be either credible or non-credible, a judgment call by the QEB regarding the likelihood of an event occurring and its impact on project technical and program issues. Events without credible impact on a specific Item on initial examination received a circle ("O") on the Matrix of Interaction Form. Potentially credible events were marked "X" and were examined further. The results of these examinations are documented in the item analyses for each Initiating Event.

1.3 NARRATIVE WORK SHEETS

Narrative Work Sheets summarize the potential failures for each item. Events found in this assessment to be either not likely to occur or with consequences not meeting the criteria of PMP 4-121 were identified with an overstrike circle around the "X". The assigned Quality Assurance Level (QAL) for each Item and a brief rationale for level assignment are included at the conclusion of the Item Analysis Sheet.

1.4 CONSOLIDATED EVALUATION FORMS

Consolidated Evaluation Forms (CEF) identify individuals involved in the grading effort and their levels of expertise. Quality Assurance Levels assigned using criteria from Table 1 of PMP 4-121 are identified in the upper right portion of the form. The form additionally shows the Quality Assurance Criteria deemed applicable to the Item and identifies the Program

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Responsibility for the applicable criteria. The criteria apply unless specifically excluded in the "Justification Required" column. Criteria 1, 2, 5, 6, and 15-18 apply in all cases according to PMP 4-121. The extent of application of a particular criterion is dependent on the QAL assigned to the Item (Section 6.5, PMP 4-121). Subject of course to justified modifications based on the grading process, QAL-1 Items are required to address all applicable requirements of RHO-QA-MA-3. Similarly, QAL-2 Items are required to address Basic and some Supplementary Requirements of NQA-1 (as given in RHO-QA-MA-3). QAL-3 Items are required to address quality standards such as NQA-1 Basic (ibid) or other industry standards for good practices.