

*M. Bell
Kinnel*

COMMITTEE CORRESPONDENCE

committee: Subcommittee on Nuclear Waste Management

subject: Submittal of NQA-3 Draft 3, Rev. 2 for Main Committee Balloting

date: August 30, 1988

to: SCNWM Members

address writer care of: Battelle Project Management Division
505 King Avenue
Columbus, Ohio 43201

copy to: S. Weinman

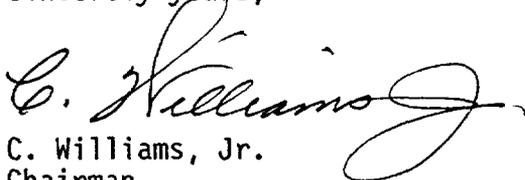
Please be advised that NQA-3, Draft 3, Revision 2, was forwarded to Steve Weinman via Federal Express on August 24, 1988. The version of NQA-3, Draft 3, Revision 2, sent to Steve, was the same as the version balloted by the SCNWM on Letter Ballot 88-1, except for minor revisions made to pages 13, 14, and 15 as a result of constructive comments made by Tom Colandrea. The revised pages are attached for inclusion into your copy of NQA-3, Draft 3, Revision 2, to make it the same as the one I sent to Steve Weinman.

The results of the SCNWM votes on Ballot 88-1 are summarized below:

- 6 Approvals
- 3 Approvals with comments
- 2 Abstainens

We can look forward to having the results for the Main Committee Ballots available for appropriate action at our October meeting in New Orleans. I think we can expect a sizeable number of comments.

Sincerely yours,



C. Williams, Jr.
Chairman
Subcommittee on Nuclear
Waste Management

CW:mmw

Q-88-065

Attachment (3)



The American Society of
Mechanical Engineers

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WM-1

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17 QUALITY ASSURANCE RECORDS

The provisions of NQA-1 Basic Requirement 17 and Supplement 17S-1 shall apply, with the following additions, modifications, and amplifications.

17.1 SAMPLES

For a nuclear waste repository, QA records include geotechnical samples, or other materials that support data.

17.2 REFERENCE RECORDS

Documents and samples referenced by final reports, except readily available references such as encyclopedias, dictionaries, engineering handbooks, national codes and standards, etc., shall be retrievable from the QA records system.

17.3 CLASSIFICATION OF RECORDS

In lieu of classifying QA records as defined in Supplement 17S-1 Paragraph 2.7, QA records for nuclear waste repositories shall be classified as Post-Closure, Lifetime, or Nonpermanent in accordance with the criteria specified below.

(a) Post-Closure QA Records are those that meet one or more of the following criteria:

- (1) Records maintained to prevent actions that could impair the long-term isolation of the waste.
- (2) Records maintained to preserve information that would prevent inadvertent human intrusion, such as the nature and hazard of the waste, and the locations of the geologic repository operations area, the underground facility, boreholes and shafts, and boundaries of the controlled area.
- (3) Records maintained to provide information relevant to post-closure monitoring and assessment of performance of the repository system.
- (4) Records maintained to preserve for future generations information regarding the geologic setting relevant to mitigation of releases of radioactive materials.
- (5) Records which would be of significant value after decommissioning and closure of a repository.

Post-closure QA records are required to be maintained for periods of several hundreds of years, and in a manner that

would permit future generations to maintain them longer, if desired, using present reasonably available technology.

(b) Lifetime QA Records are those that meet one or more of the following criteria:

- (1) Records which may be used for repository licensing.
- (2) Records used to identify and assess the performance capabilities of those engineered and natural barriers important to waste isolation.
- (3) Records of computer programs and mathematical models needed to perform ongoing correlations between performance assessment predictions and actual test results and data collection and analysis.
- (4) Records which would be of significant value in demonstrating capability for safe operation or in determining the cause of an accident or malfunction of an item in a repository.
- (5) Records which would be of significant value in maintaining, reworking, repairing, replacing, or modifying repository systems, components, or structures.
- (6) Records which would be of significant value in exercising

the retrieval option for the waste package.

- (7) Records which would be needed during decommissioning and closure of the repository.

Lifetime QA records are required to be retained and preserved in an acceptable condition for the operating life of the repository, i.e., until termination of the repository license. Prior to the destruction of any lifetime record they shall be evaluated for the need to upgrade to post-closure records.

(c) Nonpermanent QA Records are those QA records that do not qualify as post-closure or lifetime records. The retention period for nonpermanent records shall be established in writing.

18 AUDITS

The provisions of NQA-1, Basic Requirement 18 and Supplement 18S-1, shall apply, with the following additions and amplifications:

18.1 TECHNICAL CONSIDERATIONS

The audit program shall include audits of a technical nature which address the

quality of the items, services, and activities, as well as programmatic compliance. Audit team members selected to participate in audits of the technical considerations of site characterization activities shall have appropriate technical expertise or experience in the work being audited.

categorized based on their relative importance to safety and to waste isolation, to indicate their degree of safety or environmental significance.

18.2 AUDIT PREPARATION

Audit preparation shall include review of pertinent background information, procedures and technical documents so that audit team members are familiar with the work being audited.

Audit planning shall include a review of past audit results to determine the nature of problems that have occurred. When recurring problems are found, the audit team shall review corrective actions that have been taken and attempt to determine whether the corrective actions were effective in preventing recurrence.

18.3 AUDIT FINDINGS

Audit findings of a common nature shall be grouped in the audit report whenever possible so that related or systematic breakdowns in the quality programs are identified. Findings shall be