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MAY 08 1987

Mr. Robert Hennessey
Philadelphia Electric Company
Limerick Generator Station
P.O. "A" Sanatoga Branch
Pottstown, PA 19464

Dear Mr. Hennessey:

Please find enclosed a copy of my abstract and fact sheet for the Fourteenth Annual National Energy Division Conference in September. I also have forwarded a copy of the abstract to Alain Sharp, the moderator of my session.

I thoroughly enjoyed the last conference in Las Vegas and I am looking forward to giving this paper in September.

Sincerely,

Original Signed By:

Linda Riddle
Operations Branch
Division of High-Level Waste Management
Office of Nuclear Material Safety
and Safeguards

Enclosures:
Abstract
Fact Sheet

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Reactor QA vs. Repository QA:
What's the Difference?

Linda K. Riddle
QA Project Manager
Nuclear Regulatory Commission
Washington, D.C. 20555

ABSTRACT

Goals of quality assurance (QA) programs for nuclear power reactors and for a geologic repository are the same: the achievement of quality and the ability to demonstrate quality achievement. In order to achieve these two goals, organizations use guidelines for quality assurance.

Title 10 CFR Part 60 for the high-level nuclear waste geologic repository requires the use of quality assurance criteria based on the criteria for nuclear power reactors in 10 CFR 50 Appendix B, "as applicable and appropriately supplemented...." Many of the quality assurance criteria in Appendix B are common to various applications such as manufacturing, defense, and the space program. For example, the organization must have a sound structure, qualified employees who know their responsibilities, good documentation, and a system of checking the product quality. Therefore, some of the criteria in Appendix B should apply to both nuclear power reactors and a geologic repository. Nuclear power reactors and a geologic repository, however, have some differences. As a result, the quality assurance criteria in Appendix B should be modified to take these differences into account.

The June 1984 edition of the QA Review Plan incorporated the criteria of Appendix B which apply to a geologic repository and incorporated modifications based on differences between nuclear power reactors and a geologic repository. This plan was based on the Standard Review Plan for nuclear power reactors and established the acceptance criteria for a geologic repository quality assurance program.

The 1987 revision to the QA Review Plan was undertaken to incorporate the experience of three years of use by DOE and NRC, to endorse NQA-1 if applicable, to incorporate Ford Study lessons learned from the nuclear power reactor program, and to reference the three generic technical positions developed by the NRC in recent years. This revision is based on the eighteen criteria in Appendix B, endorses most of NQA-1, and reflects the differences between the nuclear power reactor program and the geologic repository program.

SPEAKER'S FACT SHEET

1. Speaker's Name and Address: Phone: (202) 362-4867
Linda K. Riddle
2939 Van Ness St., NW #645
Washington, D.C. 20008
2. Company Affiliation and Address: Phone: (301) 427-4679
U.S. Nuclear Regulatory Commission
MS 623-SS
Washington, D.C. 20555
3. Speaker's Professional Title:
QA Project Manager
4. Exact Title of Your Talk:
Reactor QA vs. Repository QA:
What's the difference?
5. Brief Summary of Abstract of your talk for publicity purposes (2 or 3 sentences):

This paper will discuss the 1987 revision to the QA Review Plan and will highlight the differences between the QA program for nuclear power reactors and the QA program for a geologic repository.
6. Biography (short and concise - see example on next page - not to exceed 1/2 page).

Ms. Riddle is currently a quality assurance project manager in the Division of High-Level Waste Management for the Nuclear Regulatory Commission in Washington, D.C. Ms. Riddle graduated with a Master of Science degree in mining engineering from the University of California at Berkeley and a Bachelor of Science degree in geology from Purdue University in West Lafayette, Indiana. Prior to joining the NRC, Ms. Riddle served as a petroleum geologist in Tulsa, OK and as a staff member in geothermal energy at Sandia National Laboratories.

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OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

LETTER TO: Robert Hennessey
Philadelphia Electric Company
Limerick Generator Station
P.O. "A" Sanatoga Branch
Pottstown, PA 19464

FROM: Linda Riddle
Operations Branch, HLWM

SUBJECT: FORWARDING ABSTRACT AND FACT SHEET FOR THE FOURTEETH ANNUAL
NATIONAL ENERGY DIVISION CONFERENCE IN SEPTEMBER 1987

DATE: MAY 08 1987

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