

Docket Nos.: 50-390
and 50-391

10 JUL 1986

MEMORANDUM FOR:

B.J. Youngblood, Director
PWR Project Directorate #4
Division of PWR Licensing-A, NRR

FROM:

Thomas W. Alexion, Project Manager
PWR Project Directorate #4
Division of PWR Licensing-A

SUBJECT:

NOTICE OF MEETING WITH TVA CONCERNING CABLE
PULLING AT WATTS BAR

DATE & TIME:

July 17, 1986

9:00 a.m. - 5:00 p.m.

July 18, 1986

9:00 a.m. - 3:00 p.m.

LOCATION:

Knoxville Office Complex
Building/Floor W-10
Room B-86
Knoxville, Tennessee

Watts Bar Site

PURPOSE:

To discuss cable pulling, installation and bend radii at
Watts Bar. Agenda enclosed.

PARTICIPANTS:

NRC

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M. Hunt

TVA

W. Rawghley, et al.

CONSULTANTS

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Thomas W. Alexion, Project Manager
PWR Project Directorate #4
Division of PWR Licensing-A, NRR

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M. Grotenius

PWR#4/DPWR-A
TAlexion/vad
07/9/86

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Mr. S. A. White
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Watts Bar Nuclear Plant

cc:

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Topics for Discussion

1. On tough pulls, is it known that the cables were lubricated?
2. a. Describe the basis for determining which of the 10,400 conduits were pull problems.
b. Did the determination of problem pulls include consideration of pull-bys (i.e., pulling of new cable through partially filled conduits)?
c. In the case of pull-bys, were cable materials and constructions considered (i.e., were non-compatible cables pulled past each other)?
d. Did any of the 12 "worst" case conduits include pull-bys of various size and construction cables?
e. Were multi-cable conduit pulls with mixes of cable sizes and constructions evaluated for stresses resulting from the pulls?
3. Have any of the cables suspected of having a problem been removed and inspected.
4. a. Are spliced or repaired cables tested after repair?
b. Are such repairs allowed to be pulled into conduits?
5. What in-situ testing has been done to the cables routinely or subsequent to the issues of abuse?
6. What classes or types of cables are mixed in a given conduit or tray or in a given pull?
7. In the case of bending cables beyond the minimum allowable bend radii, were the areas adjacent to the bends inspected for stress or deformation that could increase with age?
8. Are the 1914 conduits that could have problems in harsh environment areas? Are they subject to high moisture, flooding, or steam conditions during normal or accident conditions?
9. Has TVA considered a monitoring program for any of the cables suspected of having problems?
10. Were conduits known to be clean and obstruction-free prior to pulls?
11. What are the generic implications for Sequoyah and other TVA facilities?