

OCT 4 1993

*Official
copy*

Docket Nos. 50-390 and 50-391
License Nos. CPPR-91 and CPPR-92

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Technical Support
3B Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Gentlemen:

SUBJECT: NOTICE OF VIOLATION
(NRC INSPECTION REPORT NOS. 50-390/93-58 AND 50-391/93-58)

This refers to the NRC inspection conducted by G. A. Walton on August 1 through August 31, 1993. The inspection included a review of activities authorized for your Watts Bar facility. At the conclusion of the inspection, the findings were discussed with those members of your staff identified in the enclosed report.

Areas examined during the inspection are identified in the report. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observation of activities in progress.

Based on the results of this inspection, certain of your activities appeared to be in violation of NRC requirements, as specified in the enclosed Notice of Violation (Notice).

You are required to respond to this letter and should follow the instructions specified in the enclosed Notice when preparing your response. In your response, you should document the specific actions taken and any additional actions you plan to prevent recurrence. After reviewing your response to this Notice, including your proposed corrective actions and the results of future inspections, the NRC will determine whether further NRC enforcement action is necessary to ensure compliance with NRC regulatory requirements.

Violation B in the enclosed Notice, which involves inadequate engineering calculations, several of which were performed without using an approved calculation procedure, was identified through an NRC review of the Sargent and Lundy Vertical Slice Review (VSR) results. These calculation mistakes resulted in non-conservative safety margins and in some cases, hardware modifications were required. We are concerned about these findings in that our review was not all-inclusive and that similar problems may exist in other calculations. In addition to your response to Violation B, you should provide an evaluation of the necessity for you to re-review the results of the Sargent and Lundy VSR and other calculations performed outside your approved procedures.

9310130004 931004
PDR ADOCK 05000390
G PDR

IEC1

OCT 4 1993

Tennessee Valley Authority

2

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter, its enclosures, and any reply will be placed in the NRC Public Document Room.

The response directed by this letter and the enclosed Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Action of 1980, Pub. L. 96-511.

Should you have any questions concerning this letter, please contact us.

Sincerely,

(Original signed by E. Merschhoff)

Ellis W. Merschhoff, Director
Division of Reactor Projects

Enclosures:

1. Notice of Violation
2. NRC Inspection Report
w/Appendix

cc w/encls:

Tennessee Valley Authority

3

cc w/encls:

W. H. Kennoy, Director
Tennessee Valley Authority
ET 12A
400 West Summit Hill Drive
Knoxville, TN 37902

D. Nunn, Vice President,
Tennessee Valley Authority
3B Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

W. J. Museler
Vice President, Watts Bar Site
Tennessee Valley Authority
P. O. Box 800
Spring City, TN 37381

B. S. Schofield, Manager
Nuclear Licensing and
Regulatory Affairs
Tennessee Valley Authority
3B Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

G. L. Pannell
Site Licensing Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
P. O. Box 800
Spring City, TN 37381

TVA Representative
Tennessee Valley Authority
11921 Rockville Pike
Suite 402
Rockville, MD 20852

General Counsel
Tennessee Valley Authority
400 West Summit Hill Drive
ET 11B 33H
Knoxville, TN 37902

The Honorable Robert Aikman
County Executive
Rhea County Courthouse
Dayton, TN 37321

The Honorable Garland Lanksford
County Executive
Meigs County Courthouse
Decatur, TN 37322

M. H. Mobley, Director
Division of Radiological Health
T.E.R.R.A. Building, 6th Floor
150 9th Avenue North
Nashville, TN 37219-5404

Danielle Droitsch
Energy Project
The Foundation for
Global Sustainability
P. O. Box 1101
Knoxville, TN 37901

Bill Harris
Route 1, Box 26
Ten Mile, TN 37880

bcc w/encls: (See page 4)

OCT 4 1993

Tennessee Valley Authority

4

bcc w/encls:

E. W. Merschoff, DRP/RII
P. E. Fredrickson, DRP/RII
B. M. Bordenick, OGC
M. S. Callahan, GPA/CA
A. F. Gibson, DRS/RII
B. S. Mallett, DRSS/RII
P. A. Taylor, DRS/RII
G. C. Lainas, NRR
F. J. Hebdon, NRR
L. C. Plisco, OEDO
P. S. Tam, NRR
NRC Document Control Desk

NRC Resident Inspector
U. S. Nuclear Regulatory Commission
Route 2, Box 700
Spring City, TN 37381

RII:DRP
BB for
GWalton
09/1/93
10

RII:DRP
AR for
PFredrickson
09/4/93

RII:DRP
RC
RCrlenjak
09/4/93
10