

July 29, 2002

Mr. J. A. Scalice
Chief Nuclear Officer and
Executive Vice President
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 1 — REQUEST FOR RISK-INFORMED
INFORMATION RE: TRITIUM PRODUCTION PROGRAM (TAC NO. MB1884)

Dear Mr. Scalice:

The Nuclear Regulatory Commission staff has reviewed your application of August 20, 2001. We need additional information to complete our review and have prepared the attached request for additional information (RAI). I discussed the enclosed RAI with Mr. Chardos, Tennessee Valley Authority's Tritium Program Manger, and he agreed to respond to this request by August 7, 2002. Please contact me if you have any questions.

Sincerely,

/RA/

L. Mark Padovan, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-390

Enclosure: Request for
Additional Information

cc w/enclosure: See next page

July 29, 2002

Mr. J. A. Scalice
Chief Nuclear Officer and
Executive Vice President
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 1 — REQUEST FOR RISK-INFORMED
INFORMATION RE: TRITIUM PRODUCTION PROGRAM (TAC NO. MB1884)

Dear Mr. Scalice:

The Nuclear Regulatory Commission staff has reviewed your application of August 20, 2001. We need additional information to complete our review and have prepared the attached request for additional information (RAI). I discussed the enclosed RAI with Mr. Chardos, Tennessee Valley Authority's Tritium Program Manger, and he agreed to respond to this request by August 7, 2002. Please contact me if you have any questions.

Sincerely,

/RA/

L. Mark Padovan, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-390

Enclosure: Request for
Additional Information

cc w/enclosure: See next page

DISTRIBUTION:

PUBLIC	PDII-2 R/F	BClayton (Hard Copy)
MPadovan	MFranovich	OGC
PFredrickson	KJabbour	ACRS

ADAMS ACCESSION NO: ML022100449

OFFICE	PDII-2/PM	PDII-2/LA	PDII-2/ASC
NAME	MPadovan	BClayton	KJabbour
DATE	7/26/02	7/25/02	7/26/02

OFFICIAL RECORD COPY

Request for Additional Information

Tritium Production Program Risk-informed Information

Watts Bar Nuclear Plant, Unit 1

Docket No. 50-390

1. Please provide the Sequoyah Nuclear Plant (SQN) and Watts Bar Nuclear Plant (WBN) maintenance rule program A(2) performance criteria for the following:
 - emergency diesel generators (EDGs)
 - turbine driven auxiliary feedwater pumps
 - emergency 125 Vdc supply
 - emergency 120 Vac supply
 - hydrogen igniters
 - containment air return fans
 - emergency raw cooling water (ERCW) system
 - ice condenser
2. Are any of the above systems currently in maintenance rule program A(1) status, and if so why?
3. How many EDG failures (failure-to-start and failure-to-run) have occurred in the previous 100 starts for each of the EDGs?
4. Are any of the above EDG failures a common-mode failure of the SQN or WBN EDGs (i.e., were the other EDGs actually unavailable because the root cause of the failed EDG also actually affected the other EDGs)?
5. Do all reactor coolant pumps (RCPs) at SQN and WBN have the newer style high-temperature O-ring seals? If not, how many do not and on which unit? For those RCPs that do not have the new O-ring design, what is the schedule to replace them?
6. Do SQN and WBN conduct Severe Accident Management Guidelines drills and if so how often?
7. How many failures of the ice condenser lower inlet doors have occurred during the previous two operating cycles (i.e., did not meet technical specifications surveillance requirements)? Are any of these failures attributed to floor upheaval/buckling causing door binding? Does Tennessee Valley Authority continue to monitor ice condenser floor growth from cycle-to-cycle?
8. Please provide the following information for both WBN and SQN based on the current probabilistic risk assessment model for each plant:
 - total core damage frequency (CDF) from internal events
 - total CDF from external events (if modeled)
 - percentage of CDF due to station blackout
 - loss of offsite power frequency and basis
 - probabilities of non-recovery of offsite ac power for various times in the model and basis for numbers used
 - probability of EDG/emergency ac bus recovery (if modeled) and the basis for the number(s)
9. What are the normal and emergency power supplies for the ERCW (intake structure) sump pumps?

Mr. J. A. Scalice
Tennessee Valley Authority

WATTS BAR NUCLEAR PLANT

cc:

Mr. Karl W. Singer, Senior Vice President
Nuclear Operations
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Paul L. Pace, Manager
Licensing and Industry Affairs
Watts Bar Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Spring City, TN 37381

Mr. Jack A. Bailey, Vice President
Engineering & Technical
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Larry S. Bryant, Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Spring City, TN 37381

Mr. William R. Lagergren
Site Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Spring City, TN 37381

Senior Resident Inspector
Watts Bar Nuclear Plant
U.S. Nuclear Regulatory Commission
1260 Nuclear Plant Road
Spring City, TN 37381

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

Rhea County Executive
375 Church Street
Suite 215
Dayton, TN 37321

Mr. Robert J. Adney, General Manager
Nuclear Assurance
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

County Executive
Meigs County Courthouse
Decatur, TN 37322

Mr. Mark J. Burzynski, Manager
Nuclear Licensing
Tennessee Valley Authority
4X Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Lawrence E. Nanney, Director
Division of Radiological Health
Dept. of Environment & Conservation
Third Floor, L and C Annex
401 Church Street
Nashville, TN 37243-1532

Ms. Ann P. Harris
341 Swing Loop Road
Rockwood, Tennessee 37854

Dr. Gary Drinkard
340 Drinkard Dr.
Spring City, TN 37381

Ms. Vickie G. Davis
TDEC-DOE Oversight Division
761 Emory Valley Road
Oak Ridge, TN 37830-7072