

OCT 13 1993

official copy

Docket Nos. 50-390, 50-391
License Nos. CPPR-91, 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: SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE
(NRC INSPECTION REPORT NOS. 50-390/93-46 AND 50-391/93-46)

This refers to the NRC's Systematic Assessment of Licensee Performance (SALP) report for your Watts Bar facility which was sent to you on August 18, 1993; our meeting on August 27, at which we discussed the report; and your written comments dated September 28, 1993.

Thank you for your participation in the SALP meeting on August 27, 1993, and your review of the SALP report. Your response makes it clear that you and your staff intend to continue to strengthen those areas where challenges were identified. Since you have no negative or corrective comments on the report, the initial SALP report transmitted to you on August 18, 1993, becomes the final SALP report. Enclosed are a summary of our presentation at the meeting, a copy of the slides which were used at the presentation, and a copy of your response.

We were pleased to see several members from the Board of Directors, local officials and members of the media and public at the SALP presentation.

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

No reply to this letter is required; however, should you have any questions, I would be pleased to discuss them with you.

Sincerely,

(Original signed by S. Ebnetter)

9310260077 931013
PDR ADDCK 05000390
G PDR

Stewart D. Ebnetter
Regional Administrator

Enclosures: (See page 2)

IE40

Tennessee Valley Authority

2

Enclosures:

1. Meeting Summary
2. SALP Presentation Slides
3. Licensee SALP Response
dated September 28, 1993

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

INPO

bcc w/encls: (See page 3)

OCT 13 1993

Tennessee Valley Authority

3

cc w/encls:

The Chairman

Commissioner K. C. Rogers

Commissioner F. J. Remick

Commissioner E. G. de Planque

J. M. Taylor, EDO

H. L. Thompson, Jr., EDO

L. R. Plisco, Regional

Coordinator, EDO

B. M. Bordenick, OGC

M. S. Callahan, GPA/CA

T. E. Murley, NRR

S. A. Varga, NRR

P. S. Tam, NRR

G. C. Lainas, NRR

F. J. Hebdon, NRR

F. Allenspach, SALP Coordinator, NRR

Regional Administrators, RI, RIII

RIV, and RV

K. M. Clark, RII, PAO

E. W. Merschoff, DRP/RII

J. R. Johnson, DRP/RII

R. V. Crlenjak, DRP, RII

P. E. Fredrickson, DRP, RII

A. B. Ruff, DRP, RII

S. Vias, Chief, TSS (2 copies)

NRC Resident Inspector

DRS and DRSS Branch Chiefs,

and Section Chiefs

Document Control Desk

P. A. Taylor, DRS/RII

B. S. Mallett, DRSS/RII

A. F. Gibson, DRS/RII

NRC Document Control Desk

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

Route 2, Box 700

Spring City, TN 37381

*FOR PREVIOUS CONCURRENCE - ATTACHED COPY

RII/DRP

RII/DRP

RII/DRP

RII/DRP

*PFredrickson

*JCrlenjak

*PStohr

*AGibson

10/ /93

10/ /93

10/ /93

10/ /93

RII/DRP

NRR

NRR

RII/DRP

RII/OPA

*GWalton

*PTam

*FHebdon

*EMerschoff, LReyes

10/ /93

10/ /93

10/ /93

10/ /93

10/13/93

OCT 13 1993

Tennessee Valley Authority

3

cc w/encls:

The Chairman

Commissioner K. C. Rogers

Commissioner F. J. Remick

Commissioner E. G. de Planque

J. M. Taylor, EDO

H. L. Thompson, Jr., EDO

L. R. Plisco, Regional

Coordinator, EDO

B. M. Bordenick, OGC

M. S. Callahan, GPA/CA

T. E. Murley, NRR

S. A. Varga, NRR

P. S. Tam, NRR

G. C. Lainas, NRR

F. J. Hebdon, NRR

F. Allenspach, SALP Coordinator, NRR

Regional Administrators, RI, RIII

RIV, and RV

K. M. Clark, RII, PAO

E. W. Merschhoff, DRP/RII

J. R. Johnson, DRP/RII

R. V. Crlenjak, DRP, RII

P. E. Fredrickson, DRP, RII

A. B. Ruff, DRP, RII

S. Vias, Chief, TSS (2 copies)

NRC Resident Inspector

DRS and DRSS Branch Chiefs,

and Section Chiefs

Document Control Desk

P. A. Taylor, DRS/RII

B. S. Mallett, DRSS/RII

A. F. Gibson, DRS/RII

NRC Document Control Desk

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

Route 2, Box 700

Spring City, TN 37381

*FOR PREVIOUS CONCURRENCE - ATTACHED COPY

RII/DRP

RII/DRP

RII/DRP

RII/DRP

*PFredrickson

JCrlenjak

PSohn

AGibson

10/ /93

10/ /93

10/ /93

10/ /93

RII/DRP

NRR

NRR

RII/DRP

RII/ORA

GWalton

PTam

FHebdon

EMerschhoff

LReyes

10/6 /93

10/6 /93

10/6 /93

10/7 /93

10/ /93

OCT 13 1993

Tennessee Valley Authority

4

cc w/encls:

The Chairman

Commissioner K. C. Rogers

Commissioner F. J. Remick

Commissioner E. G. de Planque

J. M. Taylor, EDO

H. L. Thompson, Jr., EDO

L. R. Plisco, Regional

Coordinator, EDO

B. M. Bordenick, OGC

M. S. Callahan, GPA/CA

T. E. Murley, NRR

S. A. Varga, NRR

P. S. Tam, NRR

G. C. Lainas, NRR

F. J. Hebdon, NRR

F. Allenspach, SALP Coordinator, NRR

Regional Administrators, RI, RIII

RIV, and RV

K. M. Clark, RII, PAO

E. W. Merschoff, DRP/RII

J. R. Johnson, DRP/RII

R. V. Crljenjak, DRP, RII

P. E. Fredrickson, DRP, RII

A. B. Ruff, DRP, RII

S. Vias, Chief, TSS (2 copies)

NRC Resident Inspector

DRS and DRSS Branch Chiefs,

and Section Chiefs

Document Control Desk

P. A. Taylor, DRS/RII

B. S. Mallett, DRSS/RII

A. F. Gibson, DRS/RII

NRC Document Control Desk

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

Route 2, Box 700

Spring City, TN 37381

RII/DRP

PFredrickson

~~10~~ / 1 / 93

RII/DRP

JCrljenjak

~~00~~ / / 93

RII/DRP

PStohr

~~00~~ / / 93

RII/DRP

AGibson

~~00~~ / / 93

RII/DRP

GWalton

~~00~~ / / 93

NRR

PTam

~~00~~ / / 93

NRR

FHebdon

~~00~~ / / 93

RII/DRP

EMerschoff

~~00~~ / / 93

RII/ORA

LReyes

~~00~~ / / 93

ENCLOSURE 1

MEETING SUMMARY

A meeting was conducted at 1:00 p.m., on August 27, 1993, at the Watts Bar Facility to discuss the SALP Report for the Watts Bar nuclear plant. Slides presented at the meeting are provided in Enclosure 2.

Licensee Attendees:

J. H. Hayes, TVA Board Member
W. H. Kennoy, TVA Board Member
W. R. Cobean, Advisory to the Board
O. D. Kingsley, President, Generating Group
R. M. Eytchison, Vice President, Nuclear Operations
N. C. Kazanas, Vice President, Completion Assurance
M. O. Medford, Vice President, Technical Support
D. E. Nunn, Vice President, Nuclear Projects
W. J. Museler, Site Vice President
D. E. Moody, Plant Manager
R. B. Baron, General Manager, Nuclear Assurance
B. S. Schofield, Manager, Nuclear Licensing and Regulatory Affairs
G. L. Pannell, Site Licensing Manager
R. J. Beecken, Plant Readiness Manager
J. D. Christensen, Site Quality Manager
W. L. Elliott, Engineering and Modifications Manager
B. V. Martocci, Public Relations Manager
R. W. Huston, Manager, Rockville Licensing Office

The list of licensee attendees above does not include all of the Watts Bar employees that were present at the SALP presentation. The attendees also included superintendents, supervisors, and other TVA employees. This large turnout was beneficial to the SALP process and is highly recommended for future presentations.

NRC Attendees:

S. D. Ebnetter, Regional Administrator, Region II (RII)
E. W. Merschoff, Director, Division of Reactor Projects (DRP), RII
J. P. Jaudon, Deputy Director, Division of Reactor Safety, RII
F. J. Hebdon, Director, Project Directorate II-4, Office of Nuclear Reactor Regulations (NRR)
P. S. Tam, Project Manager, Watts Bar, Project Directorate II-4, NRR
P. E. Fredrickson, Chief, Reactor Projects Section 4B, DRP, RII
G. A. Walton, Construction Senior Resident Inspector, Watts Bar, DRP, RII
P. K. VanDoorn, Operations Senior Resident Inspector, Watts Bar, DRP, RII
M. M. Glasman, Resident Inspector, Watts Bar, DRP, RII
P. G. Humphrey, Resident Inspector, Watts Bar, DRP, RII
K. D. Ivey, Resident Inspector, Watts Bar, DRP, RII
J. F. Lara, Resident Inspector, Watts Bar, DRP, RII
W. C. Bearden, Project Inspector, DRP, DRP, RII
K. M. Clark, Public Affairs Officer, RII
R. E. Trojanowski, State Liaison Officer, RII

UNITED STATES NUCLEAR REGULATORY COMMISSION



SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE (SALP)

TENNESSEE VALLEY AUTHORITY

SALP CYCLE 10

JUNE 14, 1992

THROUGH

JUNE 12, 1993

WATTS BAR

AUGUST 27, 1993

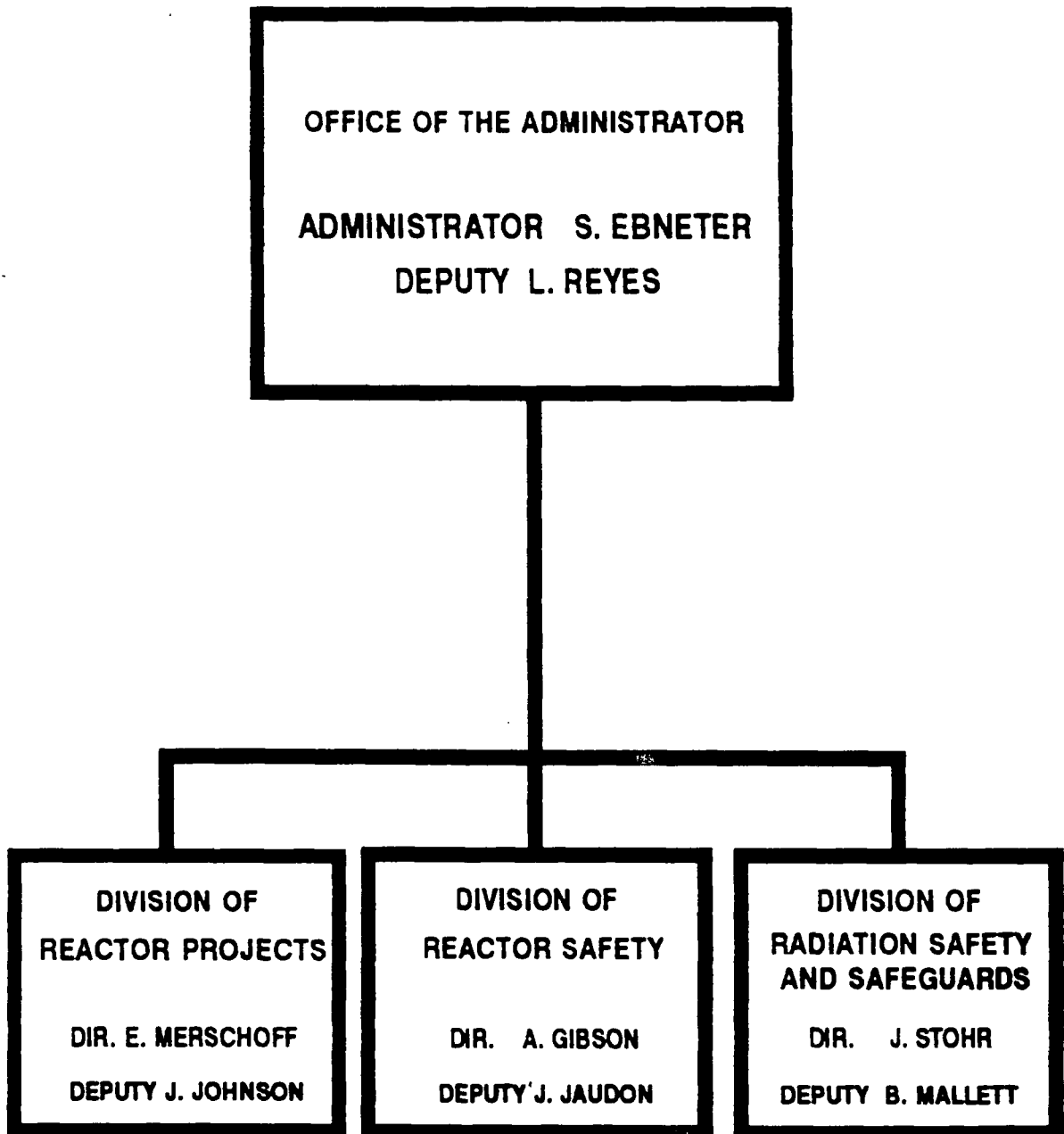
SALP PROGRAM OBJECTIVES

**1. IDENTIFY TRENDS IN LICENSEE
PERFORMANCE**

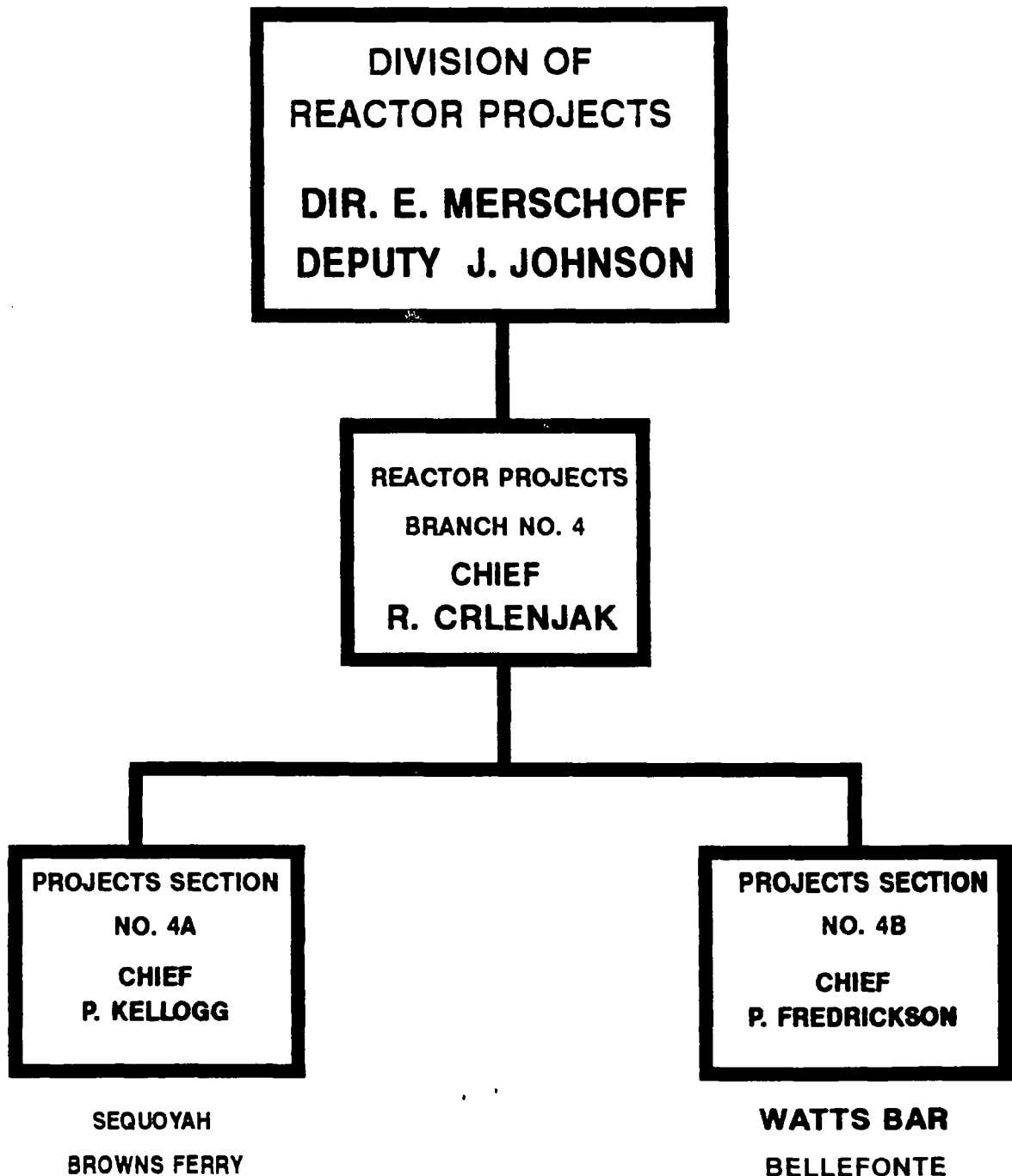
**2. PROVIDE A BASIS FOR ALLOCATION
OF NRC RESOURCES**

3. IMPROVE NRC REGULATORY PROGRAM

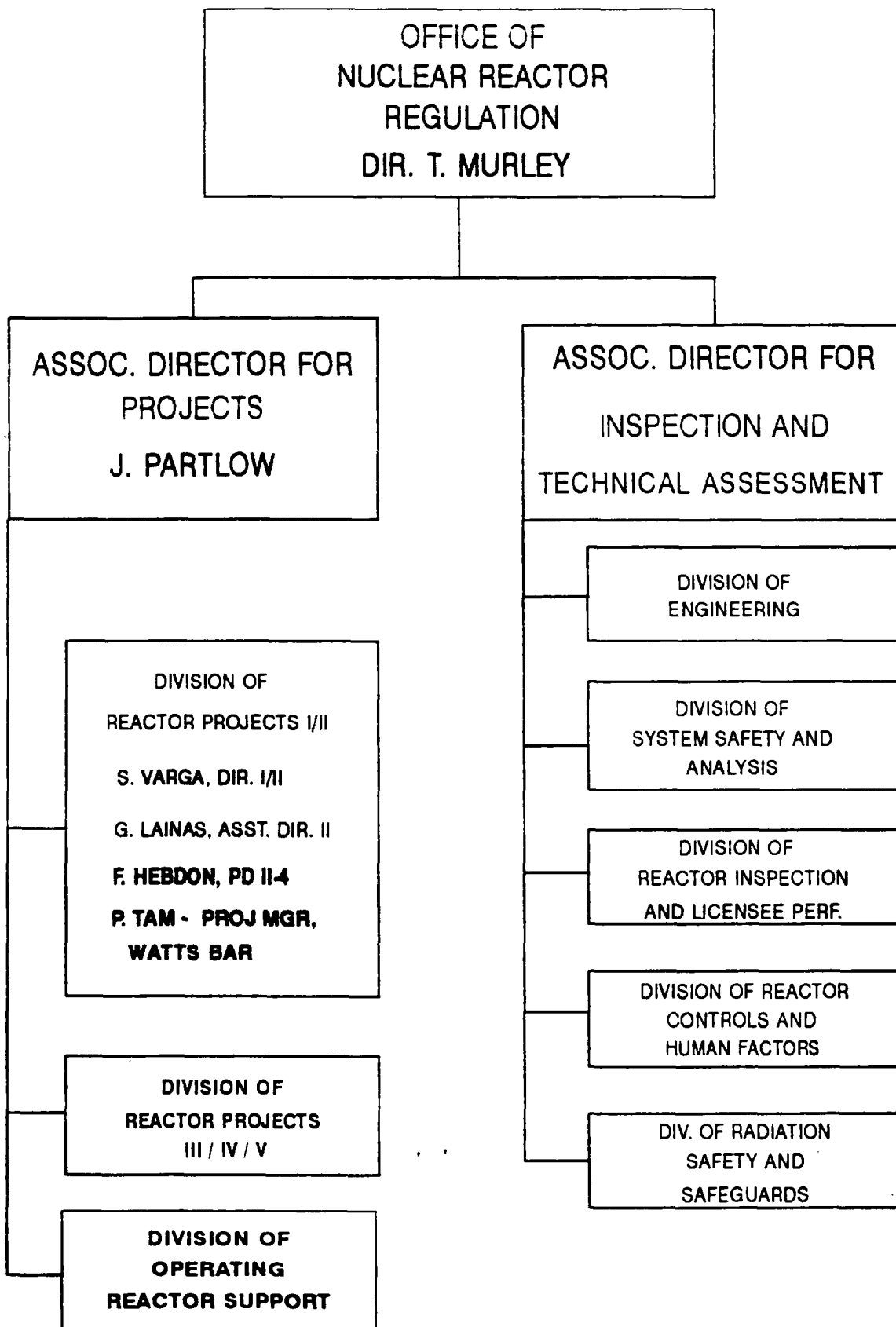
REGION II ORGANIZATION



DIVISION OF REACTOR PROJECTS ORGANIZATION



NRR ORGANIZATION



PERFORMANCE ANALYSIS AREAS FOR CONSTRUCTION REACTORS

A. SOILS AND FOUNDATIONS

**B. CONTAINMENT, MAJOR STRUCTURES
& MAJOR STEEL SUPPORTS**

C. PIPING SYSTEMS & SUPPORTS

D. MECHANICAL SYSTEMS

E. AUXILIARY SYSTEMS

F. ELECTRICAL EQUIPMENT & CABLES

G. INSTRUMENTATION

H. ENGINEERING/TECHNICAL SUPPORT

**I. SAFETY ASSESSMENT/QUALITY
VERIFICATION**

J. PREOPERATIONAL TESTING

AREA PERFORMANCE

CATEGORY 1

**LICENSEE MANAGEMENT ATTENTION TO
AND INVOLVEMENT IN NUCLEAR SAFETY
OR SAFEGUARDS ACTIVITIES RESULTED
IN A SUPERIOR LEVEL OF PERFORMANCE.
NRC WILL CONSIDER REDUCED LEVELS
OF INSPECTION EFFORT.**

AREA PERFORMANCE

CATEGORY 2

**LICENSEE MANAGEMENT ATTENTION TO
AND INVOLVEMENT IN NUCLEAR SAFETY
OR SAFEGUARDS ACTIVITIES RESULTED
IN A GOOD LEVEL OF PERFORMANCE.
NRC WILL CONSIDER MAINTAINING
NORMAL LEVELS OF INSPECTION
EFFORT.**

AREA PERFORMANCE

CATEGORY 3

LICENSEE MANAGEMENT ATTENTION TO AND INVOLVEMENT IN NUCLEAR SAFETY OR SAFEGUARDS ACTIVITIES RESULTED IN AN ACCEPTABLE LEVEL OF PERFORMANCE; HOWEVER, BECAUSE OF THE NRC'S CONCERN THAT A DECREASE IN PERFORMANCE MAY APPROACH OR REACH AN UNACCEPTABLE LEVEL, NRC WILL CONSIDER INCREASED LEVELS OF INSPECTION EFFORT.

EVALUATION CRITERIA

- 1. MANAGEMENT INVOLVEMENT AND CONTROL
IN ASSURING QUALITY**
- 2. APPROACH TO IDENTIFICATION AND
RESOLUTION OF TECHNICAL ISSUES
FROM A SAFETY STANDPOINT**
- 3. ENFORCEMENT HISTORY**
- 4. REPORTING, ANALYSIS AND CORRECTIVE
ACTION OF REPORTABLE EVENTS**
- 5. STAFFING (INCLUDING MANAGEMENT)**
- 6. TRAINING EFFECTIVENESS AND
QUALIFICATION**

PIPING SYSTEMS AND SUPPORTS (CATEGORY 2)

**OVERALL PERFORMANCE IN THIS
AREA WAS GOOD**

MAJOR ACTIVITIES ASSESSED:

- * PIPE SUPPORT INSTALLATION**
- * DESIGN PROCESS**
- * WELDING ACTIVITIES**
- * PRESERVICE INSPECTION PROGRAM**
- * MICROBIOLOGICALLY INDUCED
CORROSION PROGRAM**
- * EROSION CONTROL**

AUXILIARY SYSTEMS

(CATEGORY 1)

**OVERALL PERFORMANCE IN THIS
AREA WAS SUPERIOR**

MAJOR ACTIVITIES ASSESSED:

- * ENGINEERING CONTROLS**
- * INSTALLATION**
- * SECURITY SYSTEM**

ELECTRICAL EQUIPMENT AND CABLES (CATEGORY 2)

**OVERALL PERFORMANCE IN THIS
AREA WAS GOOD**

MAJOR ACTIVITIES ASSESSED:

- * FIELD WORK**
- * ENGINEERING SUPPORT**
- * FUSE CONTROL**
- * ASSURANCE OF QUALITY**

ENGINEERING/TECHNICAL SUPPORT (CATEGORY 2)

**OVERALL PERFORMANCE IN THIS
AREA WAS GOOD**

MAJOR ACTIVITIES ASSESSED:

- * DESIGN PROCESS**
- * TRAINING**
- * MATERIAL CONTROL**
- * MOTOR OPERATED VALVE PROGRAM**
- * VENDOR INFORMATION PROGRAM**
- * TECHNICAL SPECIFICATION DEVELOPMENT**

SAFETY ASSESSMENT/ QUALITY VERIFICATION (CATEGORY 3)

**OVERALL PERFORMANCE IN THIS
AREA WAS ACCEPTABLE**

MAJOR ACTIVITIES ASSESSED:

***LICENSING**

***QUALITY ASSURANCE FUNCTION**

***CAPs AND SPs**

***CORRECTIVE ACTION PROGRAM**

***JOINT TEST GROUP**

***RECORDS**

***EMPLOYEE CONCERNS PROGRAM**

PREOPERATIONAL TESTING (CATEGORY 2)

**OVERALL PERFORMANCE IN THIS
AREA WAS GOOD**

MAJOR ACTIVITIES ASSESSED:

- * TEST PROCEDURES**
- * TEST PERFORMANCE**
- * EMERGENCY OPERATING PROCEDURES**

FACILITY PERFORMANCE SUMMARY

WATTS BAR - CYCLE 10

FUNCTIONAL AREA	RATING
SOILS AND FOUNDATIONS	N
CONTAINMENT, MAJOR	
STRUCTURES & STEEL SUPPORTS	N
PIPING SYSTEMS & SUPPORTS	2
MECHANICAL COMPONENTS	N
AUXILIARY SYSTEMS	1
ELECTRICAL EQUIPMENT & CABLES	2
INSTRUMENTATION	N
ENGINEERING/TECHNICAL SUPPORT	2
SAFETY ASSESSMENT/	
QUALITY VERIFICATION	3
PREOPERATIONAL TESTING	2

JUNE 14, 1992 Through JUNE 12, 1993

ENCLOSURE 3**L44 930927 801**

September 28, 1993

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Gentlemen:

In the Matter of the Application of)	Docket Nos. 50-390
Tennessee Valley Authority)	50-391

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - NRC INSPECTION REPORT
50-390/93-46 AND 50-391/93-46 - RESPONSE TO SYSTEMATIC ASSESSMENT OF
LICENSEE PERFORMANCE (SALP) REPORT

The purpose of this letter is to respond to NRC staff's SALP for the period of June 14, 1992, through June 12, 1993. The staff's assessment was provided to TVA by NRC letter dated August 18, 1993. Subsequently, on August 27, 1993, NRC and TVA representatives met to discuss the report.

Overall, TVA is encouraged with the results of the NRC staff's SALP report and its recognition of various program strengths and efforts TVA has made to improve performance at WBN. TVA considers the report to constitute a fair assessment of WBN performance over the subject period. In the area of Safety Assessment/Quality Verification (SA/QV), TVA is continuing to seek improvement. In a letter providing a written follow-up to the quality assurance effectiveness discussion at the TVA/NRC Region II meeting held June 18, 1993, TVA outlined several actions to resolve quality issues, and we are continuing to take initiatives to improve our quality assurance program. We understand that due to the timing of the SALP assessment, NRC was not able to evaluate the effectiveness of these initiatives.

We have examined the SALP report to ensure that other areas for improvement have been identified. Specifically, in the area of preoperational test procedure development, TVA recognizes the importance of properly identifying and implementing test program requirements, and a number of initiatives such as those outlined in our August 23, 1993, response to NRC Inspection Report No. 390, 391/93-43 are being developed to address this matter. In addition, senior site management is personally involved in ensuring that the preoperational test program meets its objectives.

U.S. Nuclear Regulatory Commission

Page 2

September 28, 1993

While much has been accomplished at WBN, there are significant challenges remaining. TVA appreciates the staff's insight regarding WBN's performance. Addressing the SALP report is one of the means TVA will use to ensure that the upward trend in performance is maintained.

If you have any questions, please telephone G. L. Pannell at (615) 365-1550.

Sincerely,

Original signed by M. O. Medford

Mark O. Medford
Vice President
Technical Support

GLP:PLP:WL:EMW

cc: NRC Resident Inspector
Watts Bar Nuclear Plant
Rt. 2, P.O. Box 700
Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

M. K. Brandon, NET E7-WBN
S. O. Casteal, FSB 2K-WBN
E. S. Christenbury, ET 11H-K
J. D. Christensen, QAC 1A-WBN
W. R. Cobean, Jr., LP 3B-C
L. M. Cuoco, BR 4G-C
W. L. Elliott, IOB 1A-WBN
R. W. Huston, Rockville Licensing Office
N. C. Kazanas, FSB 1B-WBN
T. J. McGrath, LP 3B-C
L. A. McLemore, FSB 1B-WBN
R. M. McSwain, MR 2C-C
D. E. Moody, MOB 2R-WBN
D. E. Nunn, LP 3B-C
D. E. Nunn, FSB 1A-WBN
T. W. Overlid, LP 5B-C
B. S. Schofield, BR 4G-C
Sequoyah Licensing Files, OPS 4C-SGX
RIMS, QAC 1G-WBN (Re: W87 930820 001)