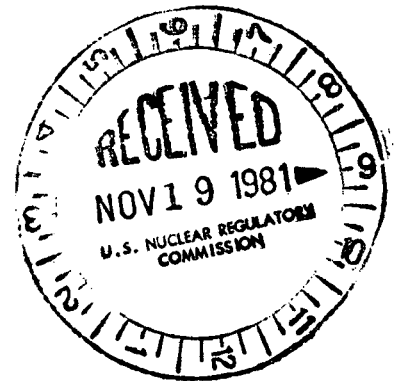


TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

November 9, 1981



Director of Nuclear Reactor Regulation  
Attention: Ms. E. Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Ms. Adensam:

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

On October 27-29, 1981 members of the NRC review staff visited the TVA corporate offices in Chattanooga and the Watts Bar Nuclear Plant as a part of an audit of TVA's nuclear power organization and staffing made in conjunction with the NRC staff review of Watts Bar.

Enclosed for your review are TVA's responses to the NRC staff concerns identified during the site visit. Enclosure 1 consists of responses to the NRC staff questions and Enclosure 2 documents forthcoming revisions to Chapter 13 of the Watts Bar Final Safety Analysis Report to more accurately reflect the current TVA organization.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager  
Nuclear Regulation and Safety

Sworn to and subscribed before me

this 9<sup>th</sup> day of November 1981

Paulette H. White  
Notary Public

My Commission Expires 9-5-84

Enclosures

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A PDR

ENCLOSURE 1

Watts Bar Nuclear Plant  
Site Visit October 27-29, 1981

Responses to NRC Questions

WATTS BAR - TVA

REVIEW OF CHAPTER 13.0 (FSAR)

Information Missing in FSAR

1. Corporate Organization

How many professionals and what kind are presently assigned to the Division of Nuclear Power?

See attachment 1.

- (a) How many professionals and technicians planned in each branch or section at fuel load?

Answered in question 1.

2. Training Organization

- (a) Explain the training organization and the number of instructors and their qualifications.

The training branch is discussed in section 13.1.1.4.1, WBNP FSAR.

In addition the TVA training organization supporting Watts Bar consists of the following:

1. The PWR Simulator Training Section of the Nuclear Training Branch has five instructors. All instructors hold or have held a senior reactor operator license.
2. The Nuclear Operator Training Section of the Nuclear Training Branch consists of eight staff members. Four hold or have held a senior reactor operator license and one holds a reactor operator license. One staff member is a System Load Dispatcher utilized in teaching electrical, and two members are specialized in various phases of student training. This section is responsible for the initial 70 weeks of the Nuclear Operator Training Program.
3. WBNP has a permanent training shift engineer who holds a senior reactor operator license for Sequoyah Nuclear Plant. Additional instructors are assigned to this individual to fulfill plant training requirements as needed.
4. All licensed instructors participate in an annual requalification program.

5. Shift Technical Advisor Training is assigned to the Engineering Training Section of the Nuclear Training Branch at the Power Operations Training Center.
6. Mitigating Core Damage Training is assigned to the Engineering Training Section of the Nuclear Training Branch at the Power Operations Training Center. The course consists of two days of intensified training that complies with Harold Denton's March 28, 1980 letter.
7. Corporate support employees participate in the following:
  - Engineer Training Course
  - Simulator Short Courses
  - Attend selected parts of other courses

The TVA training program has been extensively reviewed through the licensing process of Sequoyah Nuclear Plant. All training programs and changes to these programs resulting from earlier reviews have been developed and implemented. Some program changes (additions, deletions, etc.) are in progress due to recent NRC and INRO guidelines.

- (b) Need Training Plan and Training Schedule for training activities.

FSAR figure 13.2-1 is an example of the training program set up at Watts Bar. Because of the difficulty in keeping this figure up to date, it will eventually be deleted from the FSAR.

- (c) What training is given to corporate support employees?

Discussed in part (a) of this question.

3. List the minimum qualification requirements for corporate support employees.

Attachment 6 contains job descriptions for the various areas of responsibility within the central office. Qualifications for these employees are included in those job descriptions.

4. How many people are presently in the plant organization and what kind of professionals in each section?

See the proposed revision to figure 13.1-5 of the WBNP FSAR (attached).

5. The minimum shift crew shall include two (2) SROs, one of whom is the shift supervisor (for one unit). The FSAR indicates only one SRO for one unit.

The FSAR is being revised to reflect the following table.

MINIMUM SHIFT CREW COMPOSITION

With Unit 2 in MODE 5 or 6 or De-Fueled

POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODES 1, 2, 3, & 4	MODES 5 & 6
SS	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	2 <sup>b</sup>
STA	1	None

With Unit 2 in MODES 1, 2, 3, or 4

POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODES 1, 2, 3, & 4	MODES 5 & 6
SS	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1 <sup>a</sup>	None
RO	2 <sup>b</sup>	1
AO	2 <sup>b</sup>	1
STA	1 <sup>a</sup>	None

<sup>a</sup> Individual may fill the same position on unit 2.

<sup>b</sup> One of the two required individuals may fill the same position on unit 2. (Now 13.1-5)

6. Where is the Health Physics Unit located? It is not shown on Figure 13.1-4.

Figure 13.1-5 has been revised to show Health Physics staff. See attached proposed revision to WBNP FSAR.

- (a) To whom does the Plant Quality Assurance Staff Supervisor report?

The plant QA Supervisor reports to the Quality Assurance and Compliance Branch Chief located in the offsite technical support organization. The FSAR will be revised to reflect this. (See attached proposed revision.)

8. We need resumes of all key plant employees including Shift Supervisors, STAs, etc.

Resumes of Shift Supervisors are in attachment 2. License-related experience of operating employees is in attached 2A. Resumes of other key plant employees were given to NRC during their visit.

- (a) Does TVA require that each shift have at least one individual who has substantive previous PWR commercial operating experience?

For initial fuel loading, each operating crew will have a minimum of one previously licensed individual with no less than four months licensed operating experience at a similar Westinghouse PWR.

9. Minimum Qualification Requirements

- (a) Health Physicist (or Radiation Protection Manager) should have at least five years of professional experience in applied radiation protection. At least three years of this experience should be in applied radiation protection work in a nuclear facility. The writeup in the FSAR should be changed to reflect the above. (See Regulatory Guide 1.8, endorses ANSI N18.1-71.)

This has been addressed in Revision 44, page 13.1-19 of WBNP FSAR.

- (b) Chemical Engineering Unit Supervisor shall have a minimum of five years experience in chemistry of which a minimum of one year shall be in radiochemistry. The writeup in the FSAR should be changed to reflect the above. (See ANSI N18.1-71.)

This has been revised in the attached proposed revision to the WBNP FSAR.

- (c) Fire Brigade - Who are the Fire Brigade members?

Does the Fire Brigade Training meet Appendix R of 10 CFR 50?

The Watts Bar Fire Brigade membership consists of: ASE (fire brigade leader) and three AUOs plus a chem lab technician as the posted fire brigade (level I).

Support employees (level II) consists of craft foreman and non-posted AUOs. Also, plant instructions provide for recalling off-duty ASEs and AUOs (level II) in emergency situations where additional manpower is required as well as requesting the Spring City Volunteer Fire Department to respond.

The training of the fire brigade does meet 10/CFR 50, Appendix R requirements. The fire brigade refresher training is given quarterly to ensure all brigade members receive the training during a two-year period. The required subjects are covered. Fire brigades are drilled quarterly on announced drills and annually on an unannounced drill.

A brief summary of fire training is included in attachment 3.

10. Qualifications of Plant Employees

Provide information on commercial nuclear power plant (PWR) operation experience of plant staff.

Qualifications of some plant employees are in table 13.1-2.  
Attachment 2A is a table of shift employee's experience as of 8/23/81.

- (a) Figure 13.1-4 - Show STAs, ISEG, and Health Physics unit on figure and their lines of reporting.

Figure 13.1-5 will be revised to show the ISEG and Health Physics lines of reporting. See attached proposed revision to WBNP FSAR. STAs will report to the shift supervisor.

11. Training

- (a) Has TVA performed a position task analysis for the plant staff?

TVA, the Division of Nuclear Power, is currently involved in performing position task analyses of five major crafts (boilermaker, steamfitter, machinist, electrician, and instrument mechanic) and the foremen of these crafts. A validated task inventory has been administered to each of the involved crafts at Browns Ferry and is presently being scheduled for the Sequoyah, Watts Bar, and Bellefonte Nuclear Plants. (These are expected to be completed by December 31, 1981.)

The Division of Nuclear Power is also involved in an M-schedule profile, a job analysis of management positions, and is expected to complete this project in August of 1982.

The TVA Division of Personnel is currently involved in a position task analysis of clerical employees. This project is scheduled to be completed by March 1982. They are also conducting an analysis of the Health Physics Technician. This project is expected to be completed by December 31, 1981.

TVA, the Division of Nuclear Power, is also involved in supporting INPO's efforts on the operator position task analysis which is currently being conducted.

Other analyses that are proposed:

Engineer (by discipline)  
Engineering Aide/Associate  
Radiochemical Laboratory Analyst  
Shift Technical Advisor  
Other as requested.

- (b) Discuss present status of training programs.

See answer to 11 (a).

- (c) Discuss the training programs for maintenance.

The Technical and Craft Training Section of the Nuclear Training Branch has responsibility for initial 66 weeks of Instrument Mechanic Apprenticeship training. This is followed by an additional inplant phase of training prior to becoming a journeyman instrument mechanic.

The Technical and Craft Training Section of the Nuclear Training Branch has responsibility for the Senior Instrument Mechanic Training Program which currently consists of 32 weeks of training. This program is primarily directed toward development of skills needed for digital equipment maintenance (i.e., computers, etc.).

In addition, inplant training includes the following:

1. Some of the craftsmen have completed TVA apprenticeship training in their respective craft.
2. General Employee Training (GET) - periodic general training given to individuals covering plant instructions, procedures, and quality assurance requirements. Some courses are given once only and others are given every two years or more frequently if requirements change. Examples of GET courses include: Work Requests; Clearance Procedures; Temporary Conditions; Plant Modification; Control of Measure and Test Equipment; Reporting Requirements; and Adverse Conditions and Corrective Action.
3. Each maintenance section determines the need for specialized training on certain subjects or problem areas and gives training as needed. Some specialized training courses are identified ahead of time and scheduled while others are identified as problems arise. Most specialized training is given onsite but some may be given offsite such as at vendor's facilities.

Two examples of specialized training courses identified ahead of time and scheduled are a diesel generator maintenance course for diesel mechanics and a senior instrument mechanic course which is required for an instrument mechanic to advance to a senior instrument mechanic.

Other specialized training may include such topics as limitorque valve maintenance, piping cleanliness class requirements, or diaphragm valve repair. Each section documents specialized training which may have been given to all section employees or a particular group.



- (d) Discuss the STA training program.

The STA Training Program consists of 32 weeks of training covering the following topics: Plant Systems, Plant Familiarization and Walk-Through, Applied Fluid Flow, Thermodynamics, Simulator Training, Applied Reactor Physics, Radiochemistry, Simulator Transient and Accident Analysis, and Management and Supervisory Training.

- (e) Are exams given to non-licensed employees? (auxiliary operators, maintenance, etc.)

At present, written, oral, or discussion type exams are administered for all GET courses. In addition, all instrument apprentices must pass an oral exam to be classified as a journeyman, and all senior instrument mechanics attend training classes and are given exams for certification by the Power Operations Training Center. Also, Assistant Unit Operators (AUOs) have break in training on work station and certification exams which are described in OSLA27.

- (f) How many licensed candidates are in the "pipeline?"

36 - Cold license candidates in 1982.

19 - Hot license reactor operator candidates in 1982.

12. Startup Organization - We need clarifying information about the startup organization and resumes of key startup employees and number of technical people in the startup organization.

The startup organization is described in FSAR section 14.2. The resumes of key startup employees were given to NRC during the onsite interview.

Offsite support for PWR plant startup testing is provided by the Reactor Engineering Branch PWR Engineering and Analysis Section. Resumes for the offsite support were provided to NRC during the central office review.

13. Emergency Planning - What are the roles of key corporate and plant employees during an emergency?

The Emergency Preparedness and Protection Branch is responsible for developing and maintaining division protection programs regarding emergency preparedness. The emergency preparedness and protection organizations provide direct technical support in the development and implementation of the Radiological Emergency Plan. The Watts Bar radiological emergency plan will provide a systematic and integrated procedure for coordinating the technical support within TVA as well as State and Federal groups required to effectively respond to a nuclear accident. The REP is set up to utilize the full technical capabilities of TVA including the Division of Nuclear Power offsite support organization, the Division of Engineering Design (EN DES), the Division of Occupational Health and Safety, and the Divisions of Air and Water Resources.

14. Review and Audit

- (a) Provide information on the Nuclear Safety Review Board (NSRB) including responsibilities, authority, and qualifications of its members.

Information on the NSRB can be found in WBNP FSAR section 13.4 appendix A, and WBNP draft Technical Specification Section 6.5.2.

- (b) Provide summary of ISEG activities, qualification of members, and chain of reporting.

TVA will use three engineers onsite reporting directly to the Offsite Technical Support Manager.

Any safety problem identified by the ISEG which is not resolved by the responsible plant employees will be brought to the attention of the plant superintendent by the Compliance Section Supervisor. If not resolved at that level to the satisfaction of the supervisor and the ISEG member, the communication channel to the Offsite Technical Support Manager will be utilized to bring the problem to the attention of the central office Technical Support Organization. The onsite ISEG will also report bimonthly on the day-to-day activities and any long-term investigations performed. This report will be sent directly from the onsite Compliance Section Supervisor to the Technical Support Manager. The plant organization chart in FSAR figure 13.1-5 shows the established line of communication.

In addition to the onsite ISEG, a group of five engineers assigned to the central office will act as a part-time support to the plant ISEG in any problems or investigations which can be dealt with offsite. This will include investigating any potential problems which can be of a generic nature or require information not readily available to the onsite ISEG. Both the onsite and offsite ISEG staffs will be extensively involved with nuclear experience review which will aide in getting pertinent information to responsible employees within the plant and in bringing potential problem information to the ISEG members. This will include reviewing plant and industry LERs, INPO significant Experience Reports, NRC's Power Reactor Events, etc.

- (c) How is a safety question handled by the review committees?

The WBNP draft technical specifications outline the handling of safety questions by NSRB. In addition, information on the organization, qualification of members, responsibilities, and methods of operation of the NSRB can be found in attachment 5 containing documents: (1) Nuclear Safety Review Board Charter, Revision 7, dated October 15, 1980 and (2) Nuclear Safety Review Procedure No. POWER-NSRP 3.1, Revision 0, dated January 2, 1981 - Conduct of NSRB Reviews.

15. Plant Instructions

- (a) How much is the plant staff involved in preparing the plant procedures?

Plant employees write and revise plant instructions as the need is identified. A list of plant instructions prepared by the plant staff can be found in FSAR section 13.5.

- (b) Who prepared the Maintenance and Health Physics procedures?

Health Physics prepares the Radiological Control Instructions. These instructions are reviewed by the Plant Operating Review Committee (PORC) and approved by the plant superintendent before implementation. Maintenance instructions are principally prepared by the Mechanical Maintenance and Instrumentation Sections.

- (c) Discuss the review and approval chain for plant instructions and procedures.

1. The preparer obtains his/her supervisors concurrence.
2. The instruction is routed to affected plant sections. (Safety-related instructions are reviewed by members of PORC.)
3. The preparer/section supervisor resolves comments.
4. Formal PORC concurrence is obtained.
5. The plant superintendent approves plant instructions prior to issuance.

- (d) Provide copies of the following procedures

1. Shift Supervisor Responsibilities
2. Shift and Relief Turnover Procedures
3. Control Room Access
4. Procedures for Feedback of Operating Experience
5. Guidance on Procedures for Verifying Correct Performance of Operating Activities.

Copies of these instructions were given to NRC during the plant visit.

TVA RESPONSE TO TMI ACTION PLAN

I.A.1.1 - Shift Technical Advisor

1. Does TVA require the STA to have an engineering degree?

All qualified STAs on shift and STAs in training have degrees; however, we plan to utilize the guidelines of ANS 3.1 as a basis for the minimum requirements for STAs.

2. What means are used to qualify STAs?

STAs are qualified by successful completion of the previously mentioned STA Training Program.

3. What directives exist that describe the STA's functional relationship to the operating staff?

The STA's position and relationship is discussed in WBNP FSAR section 13.1.2.3.

4. What working hours will be assigned to an STA?

Preliminary plans are for the STAs to be on 12-hour shifts. The exact schedule has not been formulated yet. The shift will be similar to Sequoyah Nuclear Plant.

5. What retraining will STAs be required to complete?

STAs are required to complete the 2-week retraining program.

6. What are the long-range plans for the STAs?

No firm long-term plans have been developed at this time.

#### I.A.1.2 - Shift Supervisor Administrative Duties

1. What management directive has been generated from the "highest level of corporate management" that emphasizes the primary management responsibility of the shift supervisor?
2. What directives have been generated to ensure that the duties, responsibilities, and authority of the shift supervisor and control room operators are properly defined to effect the establishment of a definite line of command?
3. What directives exist that specify who can relieve the shift supervisor?
4. If the shift supervisor is temporarily relieved, who is authorized to assume the control room command function and where are his duties, responsibility, and authority specified?

This information and applicable instructions (AI-2.1) were provided during the NRC's plant visit. A partial description is in WBNP FSAR section 13.1.2.3.

5. Specifically, what management training and retraining exists for shift supervisors?

All shift engineers, assistant operation supervisors, and the operations supervisor will receive training to supplement their supervisory skills in the following areas:

Leadership  
Interpersonal communications  
Command responsibilities and limits  
Motivation of employees  
Problem analysis  
Decisional analysis  
Administrative requirements for the particular supervisory position

This is a 36-hour training program prepared and conducted by training officers in the personnel department assigned to Chattanooga offices.

6. What administrative duties have been deleted from the Shift Supervisor's responsibility and to whom have they been delegated? Are these duties specified in an administrative directive?
7. What administrative duties will the Shift Supervisor retain?
8. What directives exist that prescribe the Shift Supervisor's duties and responsibilities during accident/transient conditions?

This information and applicable instructions were provided during NRC's plant visit.

9. What operational relationship does the Shift Supervisor have with the STA?

STA's operational relationship is discussed in WBNP FSAR section 13.1.2.3.

#### I.A.1.3 - Shift Manning

1. We need further details on the proposed minimum shift manning and overtime restrictions for licensed operators such as the number of senior operators, reactor operators, and auxiliary operators during the various modes of plant operation.

The minimum shift requirements are being updated in the FSAR and are answered in question 5 of this package.

2. What administrative procedures govern required shift staffing and movement of key individuals about the plant?
3. What administrative procedures set forth policies regarding overtime for the plant staff that performs safety related functions?
4. What administrative procedures govern deviation from overtime restrictions and how are deviations documented?

This information and applicable instructions (AI-2.4) were provided during the NRC plant visit.

5. What will be the composition of a shift crew?

Answered in question 5 of this package.

6. What additional shift crew will be prescribed for refueling operations and how are their responsibilities defined?

Answered in question 5 of this package.

7. What means will be used by the licensee to "properly qualify" auxiliary operators?

The auxiliary operators must satisfactorily pass the nuclear operator training program as discussed in WBNP FSAR section 13.2, and must take part in inplant training as described in question 11(e).

#### I.B.1.2 - Independent Safety Engineering Group

This has been answered in question 14 (b).

#### I.C.2 - Shift Relief and Turnover Procedures

1. What checklists exist for oncoming and offgoing control room operators and oncoming shift supervisors to use during shift turnover?
2. What administrative provisions exist to assist AOs and technicians to conduct shift turnover?
3. How will the licensee evaluate the effectiveness of the turnover procedures and make revisions when deemed necessary?

This information and applicable instructions (AI-2.10) were provided during the NRC's plant visit.

#### I.C.4 - Control Room Access

1. What administrative procedure defines the authority and responsibility of the person in charge of the control room to limit access?
2. What administrative procedure establishes a clear line of authority and responsibility in the control room in the event of an emergency?
3. What plan/procedure exists that defines the lines of communication and authority for plant management employees not in direct command of operations, including those who report to stations outside of the control room?

These questions were answered during the WBNP NRC review referencing instructions (AI-2.1). This instruction was given to NRC during its plant visit.

I.C.5 - Procedures for Feedback of Operating Experience to Plant Staff

1. How is operating experience disseminated to the entire plant staff as appropriate?
2. How is operating experience incorporated into the training and retraining program?
3. Who evaluates both internal and external operating experience?
4. How does timely information become available to the plant staff/corporate organization?
5. What is the status of the above procedures?

Attachment 4 is the procedure governing the division experience review program. The specific plant review provisions are outlined in plant instruction WB6.3.13 provided out to the NRC during the plant visit.

I.C.6 - Guidance on Procedures for Verifying Correct Performance of Operating Activities

This information and applicable instructions OSL A2/OSL A29 were provided during the NRC plant visit.

## Attachment - Review of Chapter 13.0 (FSAR)

Response: Management Services -	Industrial Engineer	4
	Programmer Analyst	2
	Systems Analyst	6
		<u>12</u>
Mechanical Branch -	Mechanical Engineer	25
	Civil Engineer	1
	Power Plant Maintenance Specialist	3
	Project Engineer	2
		<u>31</u>
Electrical & Instrument & Controls Branch -		
	Electrical Engineer	18
	Programmer Analyst	1
	Instrument Engineer	26
		<u>45</u>
Technical Services Branch -		
	Electrical Engineer	1
	Mechanical Engineer	15
	Chemical Engineer	7
	Chemist	8
	Nuclear Engineer	1



Technical Services Branch (continued) -

Instrument Engineer	2
Welding Engineer	2
Metal Engineer	2
Research Analyst	1
Power Plant Maintenance Specialist	2

QA and Compliance Branch -

QA Engineer	30
Mechanical Engineer	5
Power Plant Maintenance Specialist	2

Emergency Preparedness and Protection Branch -

Chemical Engineer	2
Environmental Engineer	3
Project Engineer	4
Fire Protection Engineer	3
Safety Engineer	5

Preoperational Test -

Electrical Engineer	9
Instrument Engineer	5
Mechanical Engineer	17
Nuclear Engineer	5
Chemical Engineer	1

Reactor Engineering Branch - Nuclear Engineer 64

Chemical Engineer	2
Electrical Engineer	1

Maintenance

Mechanical Maintenance

Mechanical Engineer 6

Engineering Aide 3

Electrical Maintenance

Electrical Engineer 5

Engineering Aide 3

Instrument Maintenance

Instrument Engineer 6

Computer Engineer 1

Program Analyst 1

Engineering Aide 1

ATTACHMENT 2POSITION: Operations SupervisorNAME: GUY THOMAS DENTONFORMAL EDUCATION

INSTITUTION: Tennessee Technological University

DEGREES : None

DATE : 1947 - 1950

EXPERIENCE (DATES, POSITION, EMPLOYER):

11/20/53 - 2/28/54	Watts Bar Steam Plant (WBSP) Material Tester II - TVA
2/28/54 - 8/14/55	Widows Creek Steam Plant (WCSP) Student Generating Plant Operator (SGPO) Steps I-II-III
8/14/55 - 2/12/56	John Sevier Steam Plant (JSSP) - Step IV
2/12/56 - 2/10/57	JSSP Assistant Unit Operator - 210 MW
2/10/57 - 3/10/63	JSSP Unit Operator - 210 MW
3/10/63 - 8/6/68	WCSP Assistant Shift Engineer - Fossil 550 MW
8/8/68 - 7/11/71	Browns Ferry Nuclear Plant (BFNP) Assistant Shift Engineer - Nuclear
7/11/71 - 1/16/77	BFNP Shift Engineer - 3-3311 MWT Units
1/16/77 - 2/10/80	Watts Bar Nuclear Plant (WBNP) Assistant Operations Supervisor
2/10/80 - present	WBNP Operations Supervisor

CUMULATIVE WORK EXPERIENCE:

15 years fossil power plant operation with TVA which included work in plants of 135 MWE to 550 MWE.

12 years nuclear plant experience with TVA which included 3 units of boiling water reactor of 3311 MWT each - BFNP; and the starting and testing of pressurized water reactor equipment at WBNP.

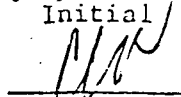
(See attached sheet)

REVIEWED BY (SECTION SUPV.)



Initial

REVIEWED BY (PLANT SUPT.)



Initial

ATTACHMENT D

POSITION: Operations Supervisor

NAME: GUY THOMAS DENTON (Continued)

FORMAL EDUCATION

INSTITUTION:

DEGREES :

DATE :

EXPERIENCE (DATES, POSITION, EMPLOYER):CUMULATIVE WORK EXPERIENCE:

Continued from page 1:

1968 - 1971

12 weeks Basic Nuclear Training

12 weeks Observation Training

5 weeks Technology Course - BWR

12 weeks Simulator Course - BWR

26 weeks Basic Supervisory Training Course

First Aid Training

20 weeks Electrical Training - Steps 5 and 6

1972 - Two weeks Oak Ridge National Laboratory Small Reactor Operations

4/4/73 - NRC - SRO License # SOP-1826, 1826-1, 1826-2

Sept. 1977 - 4 weeks Observation Training, D. C. Cook Nuclear Plant (PWR)

1978 - 12-week Cold License Certification, PWR Simulator, Nuclear Power Training Center

1978 - 8-week Onsite Lecture Program - WBNP

REVIEWED BY (SECTION SUPV.)

GD  
Initial

REVIEWED BY (PLANT SUPT.)

GD  
Initial

ATTACHMENT 2

POSITION: Operations Supervisor

NAME: GUY THOMAS DENTON (Continued)

FORMAL EDUCATION

INSTITUTION:

DEGREES :

DATE :

EXPERIENCE (DATES, POSITION, EMPLOYER):

CUMULATIVE WORK EXPERIENCE:

Continued from page 2:

SNP - Activities with plant operating at power:

1 week 12/1-5/80

1 week 1/26-30/81

1 week 3/9-13/81

REVIEWED BY (SECTION SUPV.)

*GD*  
Initial

REVIEWED BY (PLANT SUPT.)

*rw*  
Initial

ATTACHMENT 2

POSITION: Assistant Operations Supervisor

NAME: REDFORD NORMAN, JR.

FORMAL EDUCATION

INSTITUTION: Roane County High School

DEGREES :

DATE : June 1957

EXPERIENCE (DATES, POSITION, EMPLOYER):

- 1965 - Nuclear Student Generating Plant Operator, Kingston Steam Plant
- 1967 - Assistant Unit Operator, Kingston Steam Plant
- 1969 - Unit Operator, Widows Creek Steam Plant
- 1971 - Assistant Shift Engineer, Widows Creek Steam Plant
- 1972 - 13 weeks Basic Nuclear Course, Sequoyah Nuclear Plant
- 1972 - Small reactor operator training, Oak Ridge National Laboratory
- 1973 - Observation Training, Zion Nuclear Plant
- 1973 - Cold License Certification Training SRO, Zion Nuclear Plant
- 1976 - Shift Engineer, Power Production Training Center
- 1977 - Shift Engineer, Watts Bar Nuclear Plant
- 1981 - Assistant Operations Supervisor, Watts Bar Nuclear Plant

CUMULATIVE WORK EXPERIENCE:

16 1/2 years (see attached sheet)

REVIEWED BY (SECTION SUPV.)

AS  
Initial

REVIEWED BY (PLANT SUPT.)

AW  
Initial

REDFORD NORMAN, JR.

<u>General Qualifications</u>		<u>Nuclear Qualifications</u>	
<u>Academic</u>	<u>Experience</u>	<u>Academic</u>	<u>Experience</u>
High School Graduate	13 years - TVA Steam Plant Operation	13 weeks - Basic Nuclear Course, SNP	43 months - Assistant Shift Engineer, SNP
TVA Steam Plant Operating Training Program	12 months - Assistant Shift Engineer, WCSP	16 weeks - Onsite Course, SNP	48 months - Shift Engineer, WBNP
	12 months - Shift Engineer Instructor, TVA Power Production Training Center	300 hrs. - Plant System Lecture Series, WBNP	6 weeks - SE at SNP (Operations above 20% power)
		12 weeks - PWR Observation, Zion, Illinois	
		2 Weeks - Oak Ridge National Laboratory	
		9 weeks - PWR Simulator, Zion, Illinois	
		2 weeks - PWR Simulator, SNP	

ATTACHMENT 2POSITION: Shift EngineerNAME: LACY PAULEY, JR.FORMAL EDUCATION

INSTITUTION: Draughon's Business College

DEGREES : No

DATE :


EXPERIENCE (DATES, POSITION, EMPLOYER):

7/62 - 10/67 Wonder Market, Salesman, materials inspector, purchasing agent  
 10/16/67 - 9/28/69 TVA Shawnee Steam Plant, Student Generating Plant Operator  
 9/28/69 - 5/2/71 TVA Shawnee - assistant unit operator  
 5/2/71 - 8/20/72 TVA Shawnee - unit operator (fossil)  
 8/20/72 - 3/4/74 TVA Sequoyah Nuclear Plant - unit operator (nuclear)  
 3/4/74 - 7/29/74 - TVA Sequoyah Nuclear Plant - Assistant Shift Engineer  
 (temporary) - nuclear  
 7/29/74 - 2/24/75 TVA Sequoyah Nuclear Plant - unit operator (nuclear)  
 2/24/75 - 2/14/77 TVA Sequoyah Nuclear Plant - assistant shift engineer (nuclear)  
 2/14/77 - 7/13/80 TVA Watts Bar Nuclear Plant - shift engineer (nuclear)  
 8/12/80 TVA Sequoyah Nuclear Plant - NRC senior operator license  
 7/13/80 - 1/26/81 Shift Engineer (SRO) at SNP  
 1/26/81 - present Shift Engineer (Training) at WBNP

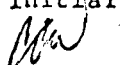
CUMULATIVE WORK EXPERIENCE:

5 years 3 months - work outside TVA  
 23 1/2 months - SGPO fossil  
 21 months - AUO fossil  
 15 1/2 months - UO fossil  
 24 1/2 months - UO nuclear  
 28 months - ASE nuclear  
 49 months - SE nuclear

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ATTACHMENT 2

POSITION: Shift Engineer

NAME: C. RICHARD COOK

FORMAL EDUCATION

INSTITUTION: Ballard Memorial High School

DEGREES : High School Graduate

DATE : 1966

EXPERIENCE (DATES, POSITION, EMPLOYER):

8/66 - 10/66	Service Department	Economy Appliance Co.
10/66 - 1/67	Recv. & Ship Dept.	Sears
1/67 - 6/68	SGPO	TVA - Widows Creek
6/68 - 4/69	Assistant Unit Operator	TVA - Widows Creek
4/69 - 4/70	Assistant Unit Operator	TVA - Shawnee Steam Plant
4/70 - 8/72	Unit Operator	TVA - Shawnee Steam Plant
8/72 - 3/74	Unit Operator	TVA - Sequoyah Nuclear Plant
3/74 - 2/77	Assistant Shift Engineer	TVA - Sequoyah Nuclear Plant
2/77 - 7/80	Shift Engineer	TVA - Watts Bar Nuclear Plant
7/80 -	Shift Engineer - SRO	TVA - Sequoyah Nuclear Plant

CUMULATIVE WORK EXPERIENCE:

1 1/2 years	TVA	Student Generating Plant Operator
2 years	TVA	Assistant Unit Operator
4 years	TVA	Unit Operator
3 years	TVA	Assistant Shift Engineer
4 years	TVA	Shift Engineer

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ATTACHMENT 2POSITION: Shift EngineerNAME: ROSS H. MILLS, JR.FORMAL EDUCATION

INSTITUTION: Calhoun Community College, Decatur, Alabama

DEGREES : Associate of Science Business Administration

DATE : November 1975


EXPERIENCE (DATES, POSITION, EMPLOYER):

July, 1978 - Present Shift Engineer, Watts Bar Nuclear Plant  
 Dec. 1976 - July 1978 Assistant Shift Engineer, Watts Bar Nuclear Plant  
 Oct. 1974 - Dec. 1976 Unit Operator, Browns Ferry Nuclear Plant  
 Nov. 1972 - Oct. 1974 Assistant Unit Operator, Browns Ferry Nuclear Plant  
 Nov. 1971 - Nov. 1972 Student Generating Plant Operator, Browns Ferry  
 Nuclear Plant  
 Oct. 1970 - Nov. 1971 Student Generating Plant Operator, Bull Run  
 Steam Plant

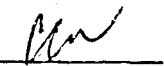
CUMULATIVE WORK EXPERIENCE:

April, 1970 - October, 1970 - Lineman Apprentice, South Central Bell (Jefferson  
 City, Tennessee) (Maryville District)  
 1969 - 1970 - Senior Heavy Equipment Specialist, U. S. Army, Ft. Carson,  
 Colorado  
 1968 - 1969 - Senior Heavy Equipment Specialist, Fuel and Electrical  
 Systems Specialist (Vietnam)  
 1967 - 1968 - Heavy Equipment Specialist, U. S. Army, Corp of Engineers,  
 Ft. Sill, Oklahoma  
 June, 1966 - February, 1967 - Engineering Aide Civil, Daniel Construction  
 Company, Home Office - Greenville, South Carolina  
 December, 1964 - October, 1965 - Millwright Apprentice, American Enka  
 Corporation, Lowland, Tennessee

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ATTACHMENT 2

POSITION: Shift Engineer

NAME: DAVID S. KING

FORMAL EDUCATION

INSTITUTION: Murfreesboro Central High School

DEGREES :

DATE :

EXPERIENCE (DATES, POSITION, EMPLOYER):

Auxiliary Operator - January, 1967 - June, 1967 - Gallatin Steam Plant TVA  
Student Generating Plant Operator - June, 1967 - February, 1971 - Paradise  
Steam Plant TVA  
Unit Operator - February, 1971 - February, 1972 - Johnsonville Steam Plant TVA  
Unit Operator and Assistant Shift Engineer - February, 1972 - March, 1975 -  
Cumberland Steam Plant - TVA  
Assistant Shift Engineer and Shift Engineer and NSGPO Instructor - March, 1975 -  
November, 1978 - Sequoyah Nuclear Plant and Nuclear Power Training Center TVA  
Shift Engineer - November, 1978 - Present - Watts Bar Nuclear Plant TVA

CUMULATIVE WORK EXPERIENCE:

TVA - 14 years

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ATTACHMENT DPOSITION: Shift EngineerNAME: Edward O. GambillFORMAL EDUCATION

INSTITUTION: Tennessee Wesleyan College (4 quarters)  
University of Tennessee at Knoxville (9 months)  
DEGREES :  
DATE : 1962 - 1963  
1971

EXPERIENCE (DATES, POSITION, EMPLOYER):

3 months - U.S. Navy Machinist Mate "A" School  
6 months - U.S. Navy Basic Nuclear Course (Enlisted)  
6 months - U.S. Navy Nuclear Destroyer Prototype Training (Enlisted) Dig  
(General Electric Pwr)  
3 months - U.S. Navy Submarine School (Enlisted)


TVA Steam Plant Operator Training

17 weeks - Basic Nuclear Course Browns Ferry Nuclear Plant  
8 weeks - Sequoyah Simulator  
1 week - Oak Ridge National Laboratory Small Reactor Startups Training  
8 weeks - Onsite Watts Bar Nuclear Plant  
300 hours - Plant System Lecture Series Watts Bar Nuclear Plant

CUMULATIVE WORK EXPERIENCE:

42 months - Served on USS Woodrow Wilson (SSBN) 624, completed qualification  
for submarine, general engineering, and all mechanical watch  
stations S5W (Westinghouse PWR)  
12 months - Assistant Unit Operator Cumberland Steam Plant  
24 months - Assistant Unit Operator Browns Ferry Nuclear Plant  
15 months - Unit Operator Watts Bar Nuclear Plant  
18 months - Assistant Shift Engineer Watts Bar Nuclear Plant  
6 months - Shift Engineer Watts Bar Nuclear Plant (Temporary)  
7 months - Shift Engineer Watts Bar Nuclear Plant

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ATTACHMENT DPOSITION: Shift EngineerNAME: GRADY R. DAVISFORMAL EDUCATION

INSTITUTION: Chattanooga State Technical Institute

DEGREES :

DATE : 1967 - 1970

EXPERIENCE (DATES, POSITION, EMPLOYER):

1968 - 1970	Co-op program Chattanooga State Technical Institute with Electric Power Board of Chattanooga
Sept. 1970	TVA - Construction (Groundman Trainee)
Jan. 1971	Student Generating Plant Operator (SGPO) - Shawnee Steam Plant (Student 1)
July 1971	SGPO - Paradise Steam Plant (Student 1)
July 1973	Assistant Unit Operator (AUO) - Paradise Steam Plant
April 1974	AUO - Browns Ferry Nuclear Plant
April 1977	Unit Operator (RL) - Browns Ferry Nuclear Plant
Nov. 1978	Assistant Shift Engineer - Watts Bar Nuclear Plant
April 1980	Shift Engineer (Temporary) - Watts Bar Nuclear Plant
Nov. 1980	Shift Engineer - Watts Bar Nuclear Plant
March 1981	6 weeks assignment at Sequoyah Nuclear Plant

CUMULATIVE WORK EXPERIENCE:

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ATTACHMENT D

POSITION: Shift Engineer

NAME: W. DOUGLAS STEVENS

FORMAL EDUCATION

INSTITUTION: Florence State University

DEGREES : 2 years

DATE : 1963 - 1964

EXPERIENCE (DATES, POSITION, EMPLOYER):

Block Drug Company - Chemical Compounder - 1966 - 1968

TVA September 1968 to present .

CUMULATIVE WORK EXPERIENCE:

Assistant Unit Operator - 9/5/71

Unit Operator - 7/29/73

Unit Operator Reactor License - 1/28/74 (BWR)

Assistant Shift Engineer - Reactor License - 9/1/75 (BWR)

Assistant Shift Engineer - Senior Reactor License BWR (SOP 2807) 10/6/76


Shift Engineer - Senior Reactor License 8/14/78

Cold License Simulator Certification (PWR) 3/2/79

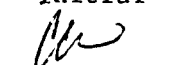
Fuel Handling Receipt - Inspection Certification 8/15/79

6 weeks practical experience at SNP ending 3/21/81

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Attachment  
WBNP COLD LICENSE CANDIDATES

SNP/RO to WBNP/SRO

License Related Experience after SNP U-1 Fuel Load as of 9/23/81

Name	Title	SNP/RO Lic. #	SNP/RO Lic Date	SNP/RO Duties	WBNP Work After SNP RO License	SNP/Requal.	Other
J. A. Justus	Unit Operator @ SNP to ASE/WBNP	5404	2/12/81	5 mo. (1/12/81 to 7/6/81)	7/6/81 to present	Participated in SNP 1981 Requal. Program.	3 mo. - non-licensed operator work at SNP 7/21/80 - 10/13/80 6 wks - non-licensed operator work at SNP 12/21/80 - 2/12/81
R. E. Schmook	Unit Operator @ SNP to ASE/WBNP	5403	2/12/81	7 mo. 2/12/81 to 9/15/81	9/15/81 to present	Participated in SNP 1981 Requal. Program.	3 mo. - non-licensed operator work at SNP 7/21/80 - 10/13/80 6 wks - non-licensed operator work at SNP 12/21/80 - 2/12/81
<del>D. W. Lunsford</del>	<del>Unit Operator @ SNP to ASE/WBNP</del>	<del>5518</del>	<del>6/10/81</del>	<del>2 1/2 mo. 6/28/81 to present will work at SNP for about 6 mo. as RO</del>	<del>12 wks. 4/5/81 to 6/28/81 4 wks - 1/18/81 to 2/15/81</del>	<del>Currently enrolled in SNP Requal. Program</del>	<del>3 mo. - non-licensed operator work at SNP 7/21/80 - 10/13/80</del>
R. C. Maynard	Unit Operator @ SNP to ASE/WBNP	5650	9/17/81	9/17/81 until/will work at SNP for about 4 mo. as RO	N/A	Currently enrolled in SNP Requal. Program	2 1/2 mo. - non-licensed unit operator at SNP 6/28/81 to present 3 mo. - non-licensed unit operator at SNP 2/21/81 - 5/17/81 7 wks - non-licensed unit operator at SNP 7/20/80 - 9/7/80
J. D. Patrick	Unit Operator @ SNP to ASE/WBNP	5652	9/17/81	9/17/81 until/will work at SNP for about 4 mo. as RO	N/A	Currently enrolled in SNP Requal. Program	2 1/2 mo. - non-licensed unit operator at SNP 6/28/81 to present 6 mo. - non-licensed unit operator at SNP 12/7/80 - 5/15/81 AUO at SNP during fuel loading & initial startup until 12/7/80





WBNP COLD LICENSE CANDIDATES

SNP/RO to WBNP/RO			License Related Experience After SNP U-1 Fuel Load as of 9/23/81				
Name	Title	SNP/RO Lic. #	SNP/RO Lic Date	SNP/RO Duties	WBNP Work After SNP RO License	SNP/Requal	Other
S. M. Childers	Unit Operator at SNP to unit operator at WBNP	To take SNP/RO exam 11/16/81	?	Will work at SNP for about 4 mo. as RO	N/A	N/A	4 mo. - Non-licensed operator at SNP 6/28/81 to present 6 mo. - non-licensed operator at SNP 12/7/80 - 5/15/81 AUO at SNP during fuel loading & initial startup until 12/7/80
T. E. Tuckier	Unit operator at SNP to unit operator at WBNP	To take SNP/RO exam 11/16/81	?	Will work at SNP for about 4 mo. as RO	N/A	N/A	3 mo. - non-licensed unit operator at SNP 2/22/81 - 5/17/81 9 wks - non-licensed unit operator at SNP 3/16/80 - 5/25/80 4 mo. - non-licensed unit operator at WBNP 6/28/81 - present.

1. The above applicants will participate in the SNP Requal. Program, after receiving license, until WBNP unit #1 fuel load license is received.
2. The above applicants will attend a training program on the differences between WBNP and SNP (lesson plan will be provided).
3. Since WBNP and SNP are essentially identical and these applicants will have held an RO license for SNP and have had several months licensed operating experience at SNP, it is requested that the NRC cold license examination for Watts Bar be waived, in accordance with 10CFR55.24, and that a reactor operator's license be granted these applicants.

## FIRE BRIGADE TRAINING

The fire brigade training program consists of both centralized and plant site training. Outlined below are the key elements of each program.

### Centralized Training

A central training facility is located on the Nickajack Reservation, west of Chattanooga. This facility consists of classrooms, administrative offices, a firefighting practice area, and various support buildings. The facility is staffed with full-time, professional, fire service instructors.

The facility currently offers courses in two major subject areas: Fire Brigade Membership and Fire Incident Command (Leadership). Each course is 32 hours in length.

All Level 1 (primary) fire brigade members are required to receive the 32-hour fire Brigade Membership Course prior to being assigned to the fire brigade at a plant, and at four year intervals thereafter. This course provides instruction in basic firefighting for power plants. The following major subject areas are covered.

1. Chemistry of Fire and Extinguishing Agents
2. Portable and Fixed Systems
3. Structural Firefighting

4. Electrical Firefighting
5. Pressurized and Multiclass Fires
6. Fire Ground Evolution (Hose and Ladder)
7. Personal Protective Equipment (SCBA, etc.)

The course consists of both classroom and drill field practice.

All fire brigade leaders attend the 32-hour Fire Incident Command Course (Leadership) prior to being assigned as a fire brigade leader. This course is an advanced version of the Fire Brigade Membership Course and addresses both leadership and more complex fire situations. The following major subject areas are covered.

1. Manual and Automatic Systems
2. Fire Gound Command
3. Pre-incident Responsibilities (Prefire Plans and Prevention)
4. Strategy and Tactics
5. Resource Utilization
6. Simulated Incident Drills

The course consists of both classroom and drill field practice.

#### Site Training

Each facility is responsible for maintaining a fire brigade adequate to provide the necessary level of fire suppression and damage control capabilities. A training program has been established through DPM N78S2 that implements the fire brigade training requirements in 10 CFR 50 Appendix R and the ASB Branch Technical Position 9.5-1.

This training program consists of classroom sessions, drills, and practice sessions for all Level I (primary) fire brigade members and leaders.

The classroom sessions are conducted quarterly and repeat on a 2-year cycle. Drills are conducted for each shift on a quarterly basis.

Practice sessions are conducted annually giving the fire brigade members a chance to use the various equipment (i.e., hose, extinguishers, SCBA, etc.) on real or simulated situations.

Attachment 4

TENNESSEE VALLEY AUTHORITY  
Division of Nuclear Power  
Division Procedures Manual

To: Assistant Directors  
Assistants to the Director, Branch Chiefs, Staff Supervisors,  
Plant Managers, All Nuclear Plants

From: H. J. Green, Director of Nuclear Power

Subject: REVIEW, REPORTING, AND FEEDBACK OF OPERATING EXPERIENCE  
ITEMS - DPM NO. N72A39

Reference: NUREG-0737

1.0 PURPOSE

This procedure implements a program to meet the specific requirements of NUREG-0737 which deals with the review of operating experience reports. It establishes a system to ensure review of operating experience reports to document their applicability to TVA plants, to provide required written responses, to ensure proper disposition of all applicable items. This review can detect potential problems before they occur at a TVA plant and find new ideas for solving existing problems and improving plant operation.

2.0 SCOPE

The following sources of information and experience review shall be distributed to responsible branches and plant staffs to determine applicability to the TVA nuclear program. Where possible, this information will be condensed to prevent extraneous and unimportant material from burdening the plant staff.

Vendor Information Letters  
In-house LER's  
NRC Bulletins  
NRC Circulars  
NRC Information Notices  
EPRI Reports - Technical Summaries  
INPO Summary (SEE-IN) or other industry review of LER's  
Division of Engineering Design Experience Review

### 3.0 ASSIGNMENT OF RESPONSIBILITY

The Reactor Engineering Branch is responsible for coordinating the review, the dissemination of operating experience information to organizations that could be affected by this experience, and for ensuring that final resolution of recommendations made by the reviewing organization are completed.

Upon receipt by NUC PR of any of the defined sources of review material, the Reactor Engineering Branch (REB) will (with the exception of in-house LER's and any industry review of LER's) determine the appropriate central office branch or staff to be assigned primary responsibility. Once this is determined, representatives of the REB, the responsible central office branch or staff, and the applicable plant(s) compliance staff will discuss the extent of each group's efforts to resolve the issue and to ensure duplication of efforts between the central office and the plant is minimized. The assigned central office branch or staff will be responsible for reviewing the assigned material and, in conjunction with the affected plant(s) compliance staff(s), will make recommendations for changes in equipment and operating practices.

The REB will utilize information from the inhouse LER's and the industry review of LER's to establish a data base for the purpose of identifying significant trends in equipment failure or operating errors. Should a significant trend develop, the appropriate central office staff will be assigned primary responsibility. Representatives of the REB, central office branch or staff, and the applicable plant(s) compliance staff will discuss the extent of each group's efforts to resolve the issue. The assigned central office staff will be responsible for making recommendations for changes in equipment and operating practices.

The nuclear plant manager shall:

- A. Evaluate recommendations made by the central office and incorporate operating changes, initiate equipment changes, modify or institute inplant training, or make information available.
- B. Develop plant instructions which ensure that information and/or action listed in A which he approves are reviewed and understood by the right people in the plant. The plant instructions shall be explicit as to the personnel who must review the different type of experience review. The following general criteria apply:

1. Changes in operating procedures and practices and their basis should be reviewed as a minimum by shift operating personnel and upper plant management affected by the change. Certain changes will affect other plant sections. Any other affected sections should be identified to ensure that the information is reviewed by all applicable plant personnel.
2. The basis for design and equipment changes made as a result of experience review should be understood by upper plant management, operating personnel, and other applicable sections.
3. Changes in the training program as a result of experience review will be routed by applicable personnel as deemed appropriate.

A means should be provided to ensure that affected personnel become aware of and understand information of sufficient importance that should not wait for emphasis through routine training and retraining programs.

The division Quality Assurance Branch shall provide for periodic audits to ensure that an effective means of feedback is working for TVA and that the review and recommendations are being evaluated by the nuclear plants.

#### 4.0 PROCEDURE IMPLEMENTATION

##### 4.1 Review

All material distributed by this procedure shall be reviewed within 30 days from the date of the transmittal to the reviewing branch.

Plants that have not been staffed by the Division of Nuclear Power will not apply to the procedure. The Division of Engineering Design has a procedure for experience review in effect for plants under construction.

The review of each item shall consider the following:

1. Applicability to each staffed TVA nuclear plant.
2. Determine significance of each item. (Safety problem, equipment failure, minor error, etc.)
3. Action to be taken to prevent failure of equipment or operating error.
4. Nuclear Training Branch action required to incorporate into the simulators and/or operator training programs.

If it is determined that the item is not applicable to any of the staffed nuclear plants, this can be noted and returned to the REB with no additional evaluation.

The reviewing central office branch/staff may request assistance or information from another branch/staff or from the nuclear plants.

#### 4.2 Tracking

The REB shall determine the distribution for review of items of operating experience. Each item will be tracked with a 30-day due date. A response from the central office branch or staff shall be sent to the REB by that due date. This includes recommendations for any changes necessary.

After responses from the reviewing central office branch or staff, the REB will determine completeness of the review and ensure that the information is not conflicting or contradictory to earlier recommendations or to required operating practices.

Action items as a result of the operating experience review shall be tracked to completion. Actions such as preparation of DCR's shall be assigned back to the reviewing branch for preparation and transmittal to the plant. Operating procedure revisions shall be transmitted to the affected plant by memorandum from the Assistant Director (Operations) to the plant manager. Any other type action shall be handled on a case-by-case basis with the REB coordinating the action. Any action taken for one plant must be reviewed for applicability to all staffed TVA nuclear plants by the reviewing central office branch or staff. Each item changed by experience review (DCR, procedure change, training change, etc.) shall denote in the transmittal letter to the plants that it is a result of experience review and will be tracked by the REB until final resolution. The REB shall keep track of each item and the action to resolve any of those items. The tracking shall be kept up-to-date and shall be followed until the item has been resolved by procedure change, design change, or incorporation into the training program.

A copy of the results of any experience review resulting in modifications will be sent to EN DES for their evaluation for the TVA nuclear plants not staffed by NUC PR.



5.0 ROUTING OF INFORMATION

Copies of all NRC bulletins, notices, circulars, and generic letters shall be sent to the REB immediately upon receipt in the division director's office.

Plant originated LER's shall be sent (copy) to the REB upon receipt by the Assistant Director (Operations).

INPO or industry summaries shall be routed directly to the REB upon receipt by the Division of Nuclear Power.

The attached flow chart shows how experience review information is routed and transmitted to the plants and central office branches and staffs.

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H. J. Green

TDK:RNR:SRM:GC

Attachment

cc: ARMS, 640 CST2-C (w/attachment)

