

Docket Nos. 50-259 50-260 50-296

Mr. Hugh G. Parris Manager of Power Tennessee Valley Authority 500 A Chestnut Street, Tower II Chattanooga, Tennessee 37401

Dear Mr. Parris:

SUBJECT: ISSUANCE OF ORDERS CONFIRMING LICENSEE COMMITMENTS ON EMERGENCY RESPONSE CAPABILITY

The Commission has issued the enclosed Orders confirming your commitments on emergency response capability for the Browns Ferry Nuclear Plant, Unit 1, 2 and 3. These Orders are based on your letters dated April 15, 1983, November 29, 1983 and February 6, 1984 committing to the actions specified in the Order.

A copy of these Orders is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief Operating Reactors Branch #2 Division of Licensing

	Enclosures:			
	Orders cc w/enclosures: See next page	8406250287 8 PDR ADOCK 05 F	40612 000259 PDR	
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Mr. Hugh G. Parris Tennessee Valley Authority Browns Ferry Nuclear Plant, Units 1, 2 and 3

cc:

H. S. Sanger, Jr., Esquire General Counsel Tennessee Valley Authority 400 Commerce Avenue E 11B 330 Knoxville, Tennessee 37902

Mr. Ron Rogers Tennessee Valley Authority 400 Chestnut Street, Tower II Chattanooga, Tennessee 37401

Mr, Charles R. Christopher Chairman, Limestone County Commission Post Office Box 188 Athens, Alabama 35611

Ira L. Myers, M. D. State Health Officer State Department of Public Health State Office Building Montgomery, Alabama 36130

Mr. H. N. Culver 249A HBD 400 Commerce Avenue Tennessee Valley Authority Knoxville, Tennessee 37902

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

In the Matter of TENNESSEE VALLEY AUTHORITY

(Browns Ferry Nuclear Plant,

Unit No. 1)

Docket No. 50-259

ORDER CONFIRMING LICENSEE COMMITMENTS ON EMERGENCY RESPONSE CAPABILITY

I.

The Tennessee Valley Authority (TVA) (the licensee) is the holder of Facility Operating License No. DPR-33 which authorizes the licensee to operate the Browns Ferry Nuclear Plant, Unit No. 1 (the facility) at power levels not in excess of 3293 megawatts thermal. The facility is a boiling water reactor (BWR) located at the licensee's site in Limestone County, Alabama.

II.

Following the accident at Three Mile Island Unit No. 2 (TMI-2) on March 28, 1979, the Nuclear Regulatory Commission (NRC) staff developed a number of proposed requirements to be implemented on operating reactors and on plants under construction. These requirements include Operational Safety, Siting and Design, and Emergency Preparedness and are intended to provide substantial additional protection in the operation of nuclear facilities and significant upgrading of emergency response capability based on the experience from the accident at TMI-2 and the official studies and investigations of the



- 2 -

accident. The requirements are set forth in NUREG-0737, "Clarification of TMI Action Plan Requirements," and in Supplement 1 to NUREG-0737, "Requirements for Emergency Response Capability." Among these requirements are a number of items consisting of emergency response facility operability, emergency procedure implementation, addition of instrumentation, possible control room design modifications, and specific information to be submitted.

On December 17, 1982, a letter (Generic Letter 82-33) was sent to all licensees of operating reactors, applicants for operating licenses, and holders of construction permits enclosing Supplement 1 to NUREG-0737. In this letter operating reactor licensees and holders of construction permits were requested to furnish the following information, pursuant to 10 CFR 50.54(f), no later than April 15, 1983:

- A proposed schedule for completing each of the basic requirements for the items identified in Supplement 1 to NUREG-0737, and
- (2) A description of plans for phased implementation and integration of emergency response activities including training.

III.

TVA responded to Generic Letter 82-33 by letters dated April 15, 1983, November 29, 1983 and February 6, 1984. In these submittals, TVA made commitments to complete the basic requirements. The attached Table summarizing TVA's schedular commitments or status was developed by the NRC staff from the Generic Letter and the information provided by TVA.

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TVA's commitments include (1) dates for providing required submittals to the NRC, (2) dates for implementing certain requirements, and (3) a schedule for providing implementation dates for other requirements. These latter implementation dates will be reviewed, negotiated and confirmed by a subsequent order.

The NRC staff reviewed TVA's April 15, 1983 letter and entered into negotiations with the licensee regarding schedules for meeting the requirements of Supplement 1 to NUREG-0737. The NRC staff finds that the modified w dates are reasonable, achievable dates for meeting the Commission requirements. The NRC staff concludes that the schedule proposed by the licensee will provide timely upgrading of the licensee's emergency response capability.

In view of the foregoing, I have determined that the implementation of TVA's commitments are required in the interest of the public health and safety and should, therefore, be confirmed by an immediately effective Order.

IV.

Accordingly, pursuant to Sections 103, 161i, 161o and 182 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED, EFFECTIVE IMMEDIATELY, THAT the licensee shall:

Implement the specific items described in the Attachment to this ORDER in the manner described in TVA's submittals noted in Section III herein no later than the dates in the Attachment.

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Extensions of time for completing these items may be granted by the Director, Division of Licensing, for good cause shown.

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The licensee may request a hearing on this Order within 20 days of the date of publication of this Order in the <u>Federal Register</u>. Any request for a hearing should be addressed to the Director, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. A copy should also be sent to the Executive Legal Director at the same address. A REQUEST FOR HEARING SHALL NOT STAY THE IMMEDIATE EFFECTIVENESS OF THIS ORDER.

If a hearing is to be held, the Commission will issue an Order designating the time and place of any such hearing.

If a hearing is held concerning this Order, the issue to be considered at the hearing shall be whether the licensee should comply with the requirements set forth in Section IV of this Order.

This Order is effective upon issuance.

FOR THE NUCLEAR REGULATORY COMMISSION Eisenhut, Director

Division of Licensing Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland, this 12 day of June, 1984.

Attachment: Licensee's Commitments on Requirements Specified in Supplement 1 to NUREG-0737

Attachment page 1 of 2

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	LICEN	SEE'S COMMITMENTS ON SUPPLEMENT 1 TO NUREG-073	7
	TITLE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
1.	Safety Parameter Display System (SPDS)	la. Submit a safety analysis and an implementation plan to the NRC.	July 30, 1984
		<pre>1b. SPDS fully operational and</pre>	Submit a firm completion date by July 30, 1984.
2.	Detailed Control Room Design Review (DCRDR)	2a. Submit a program plan to the NRC.	Complete
		2b. Submit a summary report to the NRC including a proposed schedule for implementation.	Submit summary report of completed reviews by December 31, 1986.
3.	Regulatory Guide 1.97 - Application to Emergency Response Facilities	3a. Submit a report to the NRC describing how the requirements of Supplement 1 to NUREG-0737 have been or will be met.	April 30, 1984C
		3b. Implement (installation or upgrade) requirements.	Submit a firm completion date by April 30, 1984.C

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LICENS	SEE'S (COMMITMENTS ON SUPPLEMENT 1 TO NUREG-0737	
TITLE MARKET AND	·	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
 Upgrade Emergency Operating Procedures (EOPs) 	4a.	Submit a Procedures Generation Package to the NRC.	Submit a firm completion date by December 31, 198(
·	4b.	Implement the upgraded EOPs.	Submit a firm completion date by March 31, 1985.
5. Emergency Response Facilities	5a.	Technical Support Center fully functional.	Complete except for data systems which are dependent on SPDS.
	5b.	Operational Support Center fully functional.	Complete
	5c.	Emergency Operations Facility functional.	Complete
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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

In the Matter of TENNESSEE VALLEY AUTHORITY

Docket No. 50-260

(Browns Ferry Nuclear Plant, Unit No. 2)

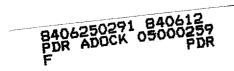
ORDER CONFIRMING LICENSEE COMMITMENTS ON EMERGENCY RESPONSE CAPABILITY

I.

The Tennessee Valley Authority (TVA) (the licensee) is the holder of Facility Operating License No. DPR-52 which authorizes the licensee to operate the Browns Ferry Nuclear Plant, Unit No. 2 (the facility) at power levels not in excess of 3293 megawatts thermal. The facility is a boiling water reactor (BWR) located at the licensee's site in Limestone County, Alabama.

II.

Following the accident at Three Mile Island Unit No. 2 (TMI-2) on March 28, 1979, the Nuclear Regulatory Commission (NRC) staff developed a number of proposed requirements to be implemented on operating reactors and on plants under construction. These requirements include Operational Safety, Siting and Design, and Emergency Preparedness and are intended to provide substantial additional protection in the operation of nuclear facilities and significant upgrading of emergency response capability based on the experience from the accident at TMI-2 and the official studies and investigations of the



- 2 -

accident. The requirements are set forth in NUREG-0737, "Clarification of TMI Action Plan Requirements," and in Supplement 1 to NUREG-0737, "Requirements for Emergency Response Capability." Among these requirements are a number of items consisting of emergency response facility operability, emergency procedure implementation, addition of instrumentation, possible control room design modifications, and specific information to be submitted.

On December 17, 1982, a letter (Generic Letter 82-33) was sent to all licensees of operating reactors, applicants for operating licenses, and holders of construction permits enclosing Supplement 1 to NUREG-0737. In this letter operating reactor licensees and holders of construction permits were requested to furnish the following information, pursuant to 10 CFR 50.54(f), no later than April 15, 1983:

- A proposed schedule for completing each of the basic requirements for the items identified in Supplement 1 to NUREG-0737, and
- (2) A description of plans for phased implementation and integration of emergency response activities including training.

III.

TVA responded to Generic Letter 82-33 by letters dated April 15, 1983, November 29, 1983 and February 6, 1984. In these submittals, TVA made commitments to complete the basic requirements. The attached Table summarizing TVA's schedular commitments or status was developed by the NRC staff from the Generic Letter and the information provided by TVA.

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TVA's commitments include (1) dates for providing required submittals to the NRC, (2) dates for implementing certain requirements, and (3) a schedule for providing implementation dates for other requirements. These latter implementation dates will be reviewed, negotiated and confirmed by a subsequent order.

The NRC staff reviewed TVA's April 15, 1983 letter and entered into negotiations with the licensee regarding schedules for meeting the requirements of Supplement 1 to NUREG-0737. The NRC staff finds that the modified dates are reasonable, achievable dates for meeting the Commission requirements. The NRC staff concludes that the schedule proposed by the licensee will provide timely upgrading of the licensee's emergency response capability.

In view of the foregoing, I have determined that the implementation of TVA's commitments are required in the interest of the public health and safety and should, therefore, be confirmed by an immediately effective Order.

IV.

Accordingly, pursuant to Sections 103, 161i, 161o and 182 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED, EFFECTIVE IMMEDIATELY, THAT the licensee shall:

Implement the specific items described in the Attachment to this ORDER in the manner described in TVA's submittals noted in Section III herein no later than the dates in the Attachment. - 4 -

Extensions of time for completing these items may be granted by the Director, Division of Licensing, for good cause shown.

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The licensee may request a hearing on this Order within 20 days of the date of publication of this Order in the Federal Register. Any request for a hearing should be addressed to the Director, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. A copy should also be sent to the Executive Legal Director at the same address. A REQUEST FOR HEARING SHALL NOT STAY THE IMMEDIATE EFFECTIVENESS OF THIS ORDER.

If a hearing is to be held, the Commission will issue an Order designating the time and place of any such hearing.

If a hearing is held concerning this Order, the issue to be considered at the hearing shall be whether the licensee should comply with the requirements set forth in Section IV of this Order.

This Order is effective upon issuance.

FOR THE NUCLEAR_REGULATORY COMMISSION Director

Division of Licensing Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland, this 12 day of June, 1984.

Attachment: Licensee's Commitments on Requirements Specified in Supplement 1 to NUREG-0737

Attachment page 1 of 2

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	LICEN	EE'S COMMITMENTS ON SUPPLEMENT 1 TO NUREG-0737	
	TITLE	REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
•	Safety Parameter Display System (SPDS)	1a. Submit a safety analysis and an implementation plan to the NRC.	July 30, 1984 (
		<pre>1b. SPDS fully operational and</pre>	Submit a firm completion date by July 30, 1984.
,	Detailed Control Room Design Review (DCRDR)	2a. Submit a program plan to the NRC.	Complete
		2b. Submit a summary report to the NRC including a proposed schedule for implementation.	Submit summary report of completed reviews by December 31, 1986.
,	Regulatory Guide 1.97 - Application to Emergency Response Facilities	3a. Submit a report to the NRC describing how the requirements of Supplement 1 to NUREG-0737 have been or will be met.	April 30, 1984C
		3b. Implement (installation or upgrade) requirements.	Submit a firm completion date by April 30, 1984.C

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Attachment page 2 of 2

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LICEN	SEE'S C	COMMITMENTS ON SUPPLEMENT 1 TO NUREG-C	0737
<u></u>		REQUIREMENT	LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
4. Upgrade Emergency Operating Procedures (EOPs)	4a.	Submit a Procedures, Generation Package to the NRC.	Submit a firm completion date by December 31, 1984
to the product of the protocol and the second s	4b.	Implement the upgraded EOPs.	Submit a firm completion date by March 31, 1985.
5. Emergency Response Facilities	5a.	Technical Support Center fully functional.	Complete except for data systems which are dependent on SPDS.
	5b.	Operational Support Center fully functional.	Complete

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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In the Matter of TENNESSEE VALLEY AUTHORITY

Docket No. 50-296

(Browns Ferry Nuclear Plant, Unit No. 3)

ORDER CONFIRMING LICENSEE COMMITMENTS ON EMERGENCY RESPONSE CAPABILITY

I.

The Tennessee Valley Authority (TVA) (the licensee) is the holder of Facility Operating License No. DPR-68 which authorizes the licensee to operate the Browns Ferry Nuclear Plant, Unit No. 3 (the facility) at power levels not in excess of 3293 megawatts thermal. The facility is a boiling water reactor (BWR) located at the licensee's site in Limestone County, Alabama.

II.

Following the accident at Three Mile Island Unit No. 2 (TMI-2) on March 28, 1979, the Nuclear Regulatory Commission (NRC) staff developed a number of proposed requirements to be implemented on operating reactors and on plants under construction. These requirements include Operational Safety, Siting and Design, and Emergency Preparedness and are intended to provide substantial additional protection in the operation of nuclear facilities and significant upgrading of emergency response capability based on the experience from the accident at TMI-2 and the official studies and investigations of the

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accident. The requirements are set forth in NUREG-0737, "Clarification of TMI Action Plan Requirements," and in Supplement 1 to NUREG-0737, "Requirements for Emergency Response Capability." Among these requirements are a number of items consisting of emergency response facility operability, emergency procedure implementation, addition of instrumentation, possible control room design modifications, and specific information to be submitted.

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- A proposed schedule for completing each of the basic requirements for the items identified in Supplement 1 to NUREG-0737, and
- (2) A description of plans for phased implementation and integration of emergency response activities including training.

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TVA's commitments include (1) dates for providing required submittals to the NRC, (2) dates for implementing certain requirements, and (3) a schedule for providing implementation dates for other requirements. These latter implementation dates will be reviewed, negotiated and confirmed by a subsequent order.

The NRC staff reviewed TVA's April 15, 1983 letter and entered into negotiations with the licensee regarding schedules for meeting the requirements of Supplement 1 to NUREG-0737. The NRC staff finds that the modified dates are reasonable, achievable dates for meeting the Commission requirements. The NRC staff concludes that the schedule proposed by the licensee will provide timely upgrading of the licensee's emergency response capability.

In view of the foregoing, I have determined that the implementation of TVA's commitments are required in the interest of the public health and safety and should, therefore, be confirmed by an immediately effective Order.

IV.

Accordingly, pursuant to Sections 103, 161i, 161o and 182 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS HEREBY ORDERED, EFFECTIVE IMMEDIATELY, THAT the licensee shall:

Implement the specific items described in the Attachment to this ORDER in the manner described in TVA's submittals noted in Section III herein no later than the dates in the Attachment. - 4 -

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If a hearing is held concerning this Order, the issue to be considered at the hearing shall be whether the licensee should comply with the requirements set forth in Section IV of this Order.

This Order is effective upon issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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Division of Licensing Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland, this 12 day of June, 1984.

Attachment: Licensee's Commitments on Requirements Specified in Supplement 1 to NUREG-0737

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	LICEN	SEE'S C	OMMITMENTS ON SUPPLEMENT 1 TO NUREG-07	<u>37</u>	
	TITLE		REQUIREMENT		LICENSEE'S COMPLETION SCHEDULE (OR STATUS)
1.	Safety Parameter Display System (SPDS)	la.	Submit a safety analysis and an implementation plan to the NRC.		June 30, 1984
	м. н	16.	SPDS fully operational and operators trained.		Submit a firm completion date by June 30, 1984.
2.	Detailed Control Room Design Review (DCRDR)	2a.	Submit a program plan to the NRC.		Complete
		2b.	Submit a summary report to the NRC including a proposed schedule for implementation.		Submit summary report of completed reviews by December 31, 1986.
	Regulatory Guide 1.97 - Application to Emergency Response Facilities	3a.	Submit a report to the NRC describing how the requirements of Supplement 1 to NUREG-0737 have been or will be met.		April 30, 1984 <i>C</i>
		3b.	Implement (installation or upgrade) requirements.	,	Submit a firm completion date by April 30, 1984. <i>C</i>

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LICENSEE'S COMMITMENTS ON SUPPLEMENT 1" TO NUREG-0737 LICENSEE'S COMPLETION REQUIREMENT TITLE SCHEDULE (OR STATUS) 4. Upgrade Emergency Operating Procedures (EOPs) 4a. Submit a Procedures, Submit a firm completion Generation Package to date by December 31, 1984 the NRC. 4b. Implement the upgraded EOPs. Submit a firm completion date by March 31, 1985. 5. Emergency Response Facilities Technical Support Center 5a. Complete except for fully functional. data systems which are dependent on SPDS. **Operational Support Center** 5b. Complete fully functional. 5c. Emergency Operations Facility fully functional. Complete

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