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 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269  
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270  
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287  
 AUTH. NAME AUTHOR AFFILIATION  
 PARKER, W.O. Duke Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director  
 REID, R.W. Operating Reactors Branch 4

SUBJECT: Forwards status of implementation of NUREG-0737 items in response to NRC 801031 ltr.

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# DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

TELEPHONE: AREA 704  
373-4083

December 15, 1980

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. R. W. Reid, Chief  
Operating Reactors Branch No. 4

Re: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287

Dear Sir:

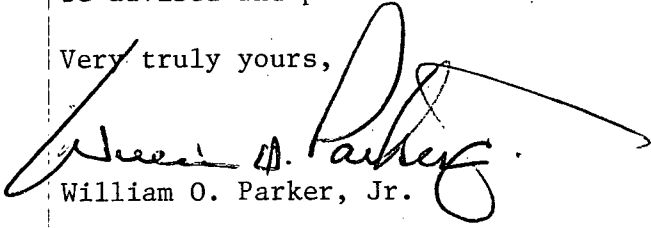
In response to the Staff letter of October 31, 1980, please find attached the current status of the efforts of Duke Power Company to implement NUREG-0737 items at Oconee Nuclear Station.

For outage-related items, the modifications will be completed during the forthcoming Oconee Unit 1 and 2 refueling outages in 1981. For Oconee 3, it is expected that all outage-related modifications can be completed by the NRC required dates. The one exception to this is the requirement to install a reactor vessel level instrument. Our response addressing this particular item will be provided by January 1, 1981.

The technical details of the designs and procedures for these items from which the attached schedule was developed have previously been provided to the Staff. For those items in the attached table that are indicated as complete, Duke has already received NRC staff approval and no further action is required.

For items requiring submittal of licensing documents, every effort will be made to make the submittals by the requested dates. In instances when a specific submittal will be delayed, the Staff will be advised and provided the new submittal date.

Very truly yours,

  
William O. Parker, Jr.

RLG:vr  
Attachment

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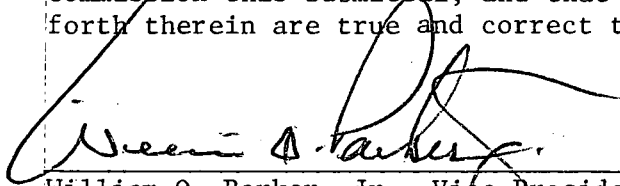
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Mr. Harold R. Denton  
Page 2  
December 15, 1980

WILLIAM O. PARKER, JR., being duly sworn, states that he is Vice President of Duke Power Company; that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this submittal; and that all statements and matters set forth therein are true and correct to the best of his knowledge.

  
\_\_\_\_\_  
William O. Parker, Jr., Vice President

Subscribed and sworn to before me this 15th day of December, 1980.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:

February 15, 1982

DUKE POWER COMPANY  
OCONEE NUCLEAR STATION

Status of Implementation of NUREG-0737 Items  
December 15, 1980

<u>Item</u>	<u>Short Title</u>	<u>Status</u>
1.A.1.1	Shift Technical Advisor	1. Complete 2. Tech specs - submitted 10/02/80 3. Training - complete and provide desc. of current STA training prog. 1/1/81. 4. Description of long term STA program will be submitted 01/01/81
I.A.1.2	Shift supervisor responsibilities	Delegate non-safety duties - complete.
I.A.1.3	Shift manning	1. Limit overtime - station directive implemented. 2. Minimum shift crew - submitted 11/04/80.
I.A.2.1	Immediate upgrading of RO and SRO training and qualifications	1, 2, 3 - No Duke action required. 4. Modify training - submitted 07/31/80. 5. NRR to verify conformance.
I.A.2.3	Administration of training programs.	NRR to verify conformance.
I.A.3.1	Revise scope and criteria for licensing exams	1, 2 - No Duke action required. 3. Simulator exams - The simulator currently in use is not available for use during licensng examinations until 1982. To the extent available, the simulator will be scheduled for use during licensing examinations.
I.C.1	Short-term accident and procedures review	1. SB LOCA - Complete. 2. Inadequate core cooling - submitted 11/09/79, 01/23/80 and implemented. 3. Transients and accidents - Duke is participating in the B&W Owners Group program to develop Abnormal Transient Operating Guidelines (ATOG). Submittals of documents and implementation of the station procedures will be discussed with the NRC staff and a mutually agreeable schedule established.

<u>Item</u>	<u>Short Title</u>	<u>Status</u>
I.C.2	Shift & relief turnover procedures	Complete.
I.C.3	Shift-supervisor responsibility	Complete.
I.C.4	Control-room access	Complete.
I.C.5	Feedback of operating experience	Appropriate documentation will be in place by 01/01/81.
I.C.6	Verify correct performance of operating activities	Appropriate procedures will be reviewed and revised as necessary by 01/01/81.
I.D.1	Control-room design reviews.	TBD.
I.D.2	Plant-safety-parameter display console	TBD.
II.B.1	Reactor-coolant-system vents	<ol style="list-style-type: none"> <li>1. Complete.</li> <li>2. RCS vents will be installed on each Oconee Unit by 07/01/82. Documentation required, including procedures, will be submitted by 07/01/81 for staff review.</li> </ol>
II.B.2	Plant shielding	<ol style="list-style-type: none"> <li>1. Complete.</li> <li>2. Plant modifications - Necessary modifications will be complete by 01/01/82.</li> </ol>
II.B.3	Postaccident sampling	<ol style="list-style-type: none"> <li>1. Complete.</li> <li>2. A new postaccident sampling system will be installed on Oconee Units 1, 3 by 01/01/82. For Oconee Unit 2, the modification will be completed during the refueling outage for Cycle 6 which is currently expected to start in October 1981.</li> </ol>

<u>Item</u>	<u>Short Title</u>	<u>Status</u>
II.B.4	Training for mitigating core damage	<ol style="list-style-type: none"> <li>1. Develop training program - program will be available for review 01/01/81.</li> <li>2. Implement program - program will be implemented</li> </ol>
II.D.1	Relief and safety- Valve test requirements	<ol style="list-style-type: none"> <li>1. Complete</li> <li>2. Description of Block Valve Testing program will be provided upon receipt.</li> <li>3. PWR (EPRI) Test Program Results will be provided upon receipt.</li> </ol> <p>Plant specific submittals based on preliminary valve test results will be provided within 4 weeks of receipt of formal preliminary valve test results.</p> <p>Plant specific submittals based on final valve test results will be provided within 3 months of receipt of final valve test results.</p> <p>Plant specific submittals for piping and support evaluations will be provided within 6 months of receipt of final piping and support test results.</p> <p>Plant specific submittals for block valve qualification will be provided within 1 year of receipt of block valve test results.</p>
II.D.3	Valve position indication	<ol style="list-style-type: none"> <li>1. Complete.</li> <li>2. Tech specs - submitted 10/02/80.</li> </ol>
II.E.1.1	Auxiliary feedwater system evaluation	<ol style="list-style-type: none"> <li>1,2 - Implementation to be determined following receipt of NRC evaluation report.</li> </ol>
II.E.1.2	Auxiliary feedwater system initiation & flow	<ol style="list-style-type: none"> <li>1. Control grade indication - complete. Safety grade initiation will be installed on Oconee Units 2, 3 by 07/01/81. For Oconee Unit 1, this modification will be completed during the refueling outage for Cycle 7, which is currently expected to start in June 1981. Design details were submitted 10/08/80.</li> <li>2. Control grade flow indication - complete. Safety grade flow indication will be installed on Oconee Units 2, 3 by 07/01/81. For Oconee Unit 1, this modification will be completed during the refueling outage for Cycle 7, which is currently expected to start in June 1981. Design details were submitted 10/08/80.</li> <li>3. Tech specs - submitted 10/02/80.</li> </ol>

<u>Item</u>	<u>Short Title</u>	<u>Status</u>
II.E.3.1	Emergency power for pressurizer heaters	1. Complete. 2. Tech specs - submitted 10/02/80.
II.E.4.1	Dedicated hydrogen penetrations	1. Complete. 2. Dedicated hydrogen penetrations will be installed on Oconee Units 2, 3 by 07/01/81. For Oconee Unit 1, this modification will be completed during the refueling outage for Cycle 7 which is currently expected to start in June 1981.
II.E.4.2	Containment isolation dependability	1, 2, 3, 4 - Complete. 5. Containment pressure setpoint - submittal will be provided 01/01/81. 6. Containment purge valves - submittal will be provided 01/01/81. 7. Radiation signal on purge valves - submittal will be provided 07/01/81.
II.F.1	Accident-monitoring	1, 2, 3, 4, 5, 6 - Noble gas monitor, iodine/particulate sampling, containment high-range monitor, containment pressure, containment water level, containment hydrogen instrumentation will be installed on Oconee Units 1, 3 by 01/01/82. For Oconee Unit 2, this modification will be completed during the refueling outage for Cycle 6 which is currently expected to start in October 1981. Licensing documents will be available or submitted as required.
II.F.2	Instrumentation for detection of inadequate core cooling	1. Complete. 2. Tech specs - submitted 10/02/80. 3. Level instrument - A document addressing additional inadequate core cooling instrumentation will be provided 01/01/81.
II.G.1	Power supplies for pressurizer relief valves, block valves, and level indicators	1. Complete. 2. Tech specs - submitted 10/02/80.
II.K.1	IE Bulletins	No Duke action required.

<u>Item</u>	<u>Short Title</u>	<u>Status</u>
II.K.2	Orders on B&W plants	<p>8. Upgrade AFWS - As required by II.E.1.1.</p> <p>9. FEMA on ICS - No further Duke action identified.</p> <p>10. Safety grade reactor trip - Design details were submitted 08/18/80, 10/07/80, and 11/07/80. For Oconee Unit 1, this modification will be installed during the refueling outage for Cycle 7, which is currently expected to start in June 1981.</p> <p>For Oconee Unit 2, this modification will be installed during the next available outage of sufficient duration or the refueling outage for Cycle 6, whichever is earlier. The refueling outage is expected to start in October 1981. A forced outage solely to install this modification is not justified in light of the acceptable performance of the existing control grade anticipatory reactor trip system.</p> <p>This modification will be installed on Oconee Unit 3 by 07/01/81.</p> <p>11. Complete.</p> <p>13. Thermal-Mechanical Report - will be submitted 01/01/81.</p> <p>14. See II.K.3.7.</p> <p>15, 16, 17, 19, 20 - Complete.</p>
II.K.3	Final recommendations, B&O task force	<p>1. Auto PORV isolation - If required, a proposed design will be provided by 07/01/81. To allow sufficient time to procure components, particularly those requiring qualification, the proposed design, if required, could be installed the first refueling outage 1 year after staff approval.</p> <p>2. Report on PORV failures - A submittal will be provided 01/01/81.</p> <p>3. Reporting SV &amp; RV failures and challenges will be provided annually.</p> <p>5. Auto trip of RCP's - If required, a proposed modification will be provided by 07/01/81. To allow sufficient time to procure components, particularly those requiring qualification, the modification, if required, could be installed the first refueling outage 1 year after staff approval.</p> <p>7. Evaluation of PORV opening probability - A submittal will be provided 01/01/81.</p> <p>9 - 16 - Not applicable to Oconee.</p>



<u>Item</u>	<u>Short Title</u>	<u>Status</u>
		17. ECC system outage - A submittal will be provided 01/01/81.
		18 - 22, 24, 25, 27 - 29 - Not applicable to Oconee.
		30. SB LOCA methods - Schedule outline provided 11/14/80. Upgraded model will be provided by 01/01/82. New analysis, if required, will be provided 1 year after staff approval.
		31. Compliance with 10CFR 50.46 - A submittal will be provided 1 year after staff approval.
		40, 43 - 46, 57 - Not applicable to Oconee.
III.A.1.1	Emergency preparedness, short term	Complete.
III.A.1.2	Upgrade emergency support facilities	1. Complete. 2, 3 - TBD.
III.A.2	Emergency preparedness	1. Radiological emergency response plan will be submitted 01/02/81. 2. Implementing procedures will be submitted 03/01/81. 3. Radiological emergency response plan will be implemented by 04/01/81. 4. The schedule for implementation of the additional milestones will be provided when the scope of effort is fully identified and a reasonable time to completion is established.
III.D.1.1	Primary coolant outside containment	1. Complete. 2. Tech specs - submitted 10/02/80.
III.D.3.3	Implant radiation monitoring	1. Complete. 2. Description of systems/methods will be submitted 01/01/81.
III.D.3.4	Control Room habitability	1. Results of Control Room review will be submitted 01/01/81. 2. The schedule for implementation of identified modifications will be provided when the scope of effort is identified and a reasonable time to completion is established.