

CATEGORY 1

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ACCESSION NBR: 9705060293 DOC. DATE: 97/04/29 NOTARIZED: YES DOCKET #
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

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SUBJECT: Application for amends to licenses DPR-38, DPR-47 & DPR-55, proposing adopting turbine missile design practices of RG 1.115, Rev 1, "Protection Against low Trajectory Missiles" & NUREG 0800, Rev 2, "SRP."

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DUKE POWER

April 29, 1997

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

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
Request for Amendment
Oconee Turbine Missile Design Criteria

Pursuant to 10 CFR 50.90, Duke Power Company hereby requests an amendment to Facility Operating License Nos. DPR-38, DPR-47, and DPR-55 for Oconee Nuclear Station Units 1, 2, and 3, respectively. The amendment consists of the proposed changes to the Updated Final Safety Analysis Report (UFSAR) provided in Attachment 1. The Technical Justification for the amendment is included in Attachment 2. Attachments 3 and 4 contain the No Significant Hazards Consideration Evaluation and the Environmental Assessment, respectively.

The Oconee UFSAR currently specifies that all Engineered Safeguards (ES) structures, systems, and components be designed to withstand turbine-generated missiles by means of shielding or separation. Portions of the Low Pressure Service Water (LPSW) main supply headers located in the turbine building do not meet this design criterion for high trajectory turbine missiles. Oconee's UFSAR is currently not clear on whether or not high trajectory turbine missiles must be considered in the facility design other than for the reactor buildings. It is Duke's conservative position that this situation constitutes an unreviewed safety question (USQ). Specifically, Duke believes that the LPSW piping nonconformance with the high trajectory turbine missile design criterion may result in an increase in the probability of a malfunction of equipment important to safety.

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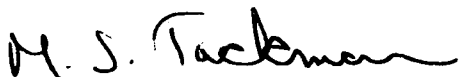
Therefore, it is Duke's intent to clarify the UFSAR with respect to Oconee's turbine missile design criterion by means of this license amendment. In clarifying the turbine missile design criterion at Oconee, Duke Power proposes adopting the turbine missile design practices of Regulatory Guide 1.115, Revision 1, "Protection Against Low Trajectory Missiles", and NUREG 0800, Revision 2, "Standard Review Plan". These documents provide turbine missile design criteria which are consistent with current industry practices and NRC approved methodology. In addition to resolving the clarity issues associated with the currently licensed turbine missile design criterion at Oconee, conversion to Regulatory Guide 1.115 and NUREG 0800 methodology will permit implementation of modifications associated with the Oconee Service Water Project as described in a letter to your staff dated December 28, 1995.

This proposed change to the Facility Operating License and our determination of no significant hazards have been reviewed and approved by our Plant Operational Review Committee (PORC) and Nuclear Safety Review Board (NSRB). The implementation of these changes does not result in an undue risk to the health and safety of the public.

Oconee Unit 2 is currently in a forced outage for repairs on the High Pressure Injection (HPI) System. Current outage schedules estimate that Unit 2 restart will occur no earlier than May 6, 1997. Duke Power understands the staff's position that a plant which is currently shutdown may not restart with an USQ. The USQ associated with high trajectory turbine missiles was self-identified within the last two weeks as a result of engineering design reviews associated with the Oconee Service Water Project. Duke Power has aggressively developed a proposed license amendment to resolve this issue. The timing of the turbine missile USQ and the Unit 2 forced outage could not have been avoided. Therefore, Duke requests an expedited review and approval of this proposed license amendment by no later than May 6, 1997, to support the restart of Unit 2.

If there are any questions regarding this submittal, please contact David Nix at (864) 885-3634.

Very truly yours,



M. S. Tuckman

Attachments

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April 29, 1997
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cc (w/attachments):

L. A. Reyes, Regional Administrator
Region II

M. A. Scott, Senior Resident Inspector
Oconee Nuclear Station

D. E. LaBarge, Project Manager
NRR

M. Batavia, Chief
S.C. Dept. of Health & Environmental Control

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M. S. Tuckman, being duly sworn, states that he is Senior 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 revision to the Oconee Nuclear Station License Nos. DPR-38, DPR-47, and DPR-55; and that all statements and matters set forth therein are true and correct to the best of his knowledge.

M. S. Tuckman

M. S. Tuckman, Senior Vice President

Subscribed and sworn to before me this 29th day of April, 1997.

Mary P. Debus
Notary Public

My Commission Expires:

JAN 22, 2001

ATTACHMENT 1

Description of Change

UFSAR Section 3.1.40, "Missile Protection", and UFSAR Section 3.5.1.2, "Turbine Missiles", describe the turbine missile design criterion applied at Oconee Nuclear Station. UFSAR Section 3.1.40 requires Engineered Safeguards (ES) equipment to be protected from "missiles resulting from hypothesized plant equipment failure" by means of physical separation or shielding. UFSAR Section 3.1.40 references UFSAR Section 3.5, "Missile Protection", for further details. UFSAR Section 3.5.1.2 provides a description of the hypothesized turbine missiles at Oconee. UFSAR Section 3.5.1.2 focuses on the assumptions and effects of turbine missiles impacting the reactor building. UFSAR Section 3.5.1.2 does not provide clear criteria for designing against high trajectory or low trajectory turbine missiles for ES equipment outside the reactor building.

The proposed revision will provide clear guidance regarding implementation of both high trajectory and low trajectory turbine missile design criteria at Oconee. The low trajectory turbine missile design criterion will be applied to all Oconee Engineered Safeguards Systems in accordance with Regulatory Guide 1.115, Revision 1 and NUREG 0800, Revision 2, Section 3.5.1.3. The high trajectory turbine missile design criterion will be applied to this same equipment in accordance with NUREG 0800, Revision 2, Section 3.5.1.3. UFSAR Sections 3.1.40 and 3.5.1.2 will be revised to describe this new explicit guidance on turbine missile design. UFSAR Section 3.5.3 will be revised to include the additional appropriate references.

Attachment 1A contains a markup of the affected UFSAR sections, along with the new inserts.