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SUBJECT: Forwards application for Proposed Amend 72 to License NPF-22,changing TS 3.6.6.2 to support drwell cooling mod.

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JUN 09 1989

Director of Nuclear Reactor Regulation
Attention: Dr. W.R. Butler, Project Director
Project Directorate I-2
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U.S. Nuclear Regulatory Commission
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SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED AMENDMENT 72 TO NPF-22
CHANGES TO THE SSES UNIT 2 TECHNICAL
SPECIFICATION TO SUPPORT
DRYWELL COOLING MODIFICATIONS
PLA-3199 FILES A17-2, R41-2 Docket No. 50-388

References: PLA-2602, H.W. Keiser to USNRC, "Proposed Amendments 81 to NPF-14 and 34 to NPF-22", dated March 27, 1986.

PLA-2631, H.W. Keiser to USNRC, "Correction to Proposed Amendment 34 to NPF-22," dated April 18, 1986.

PLA-2669, H.W. Keiser to USNRC, "Proposed Amendment 34 to NPF-22: Implementation Change", dated June 26, 1986.

Letter, W.R. Butler to H.W. Keiser, "Technical Specification Revisions Regarding Drywell Cooling System (TAC No. 61098)", dated June 5, 1987.

PLA-3018, H.W. Keiser to USNRC, "Proposed Amendment to License No. NPF-22: Exigent Request Due to Non-Installation of Drywell Cooling Mode," dated April 8, 1988.

Dear Dr. Butler:

The purpose of this letter is to propose changes to the Susquehanna SES Unit 2 Technical Specifications. These changes support modifications which enhance the capability of the drywell cooling system.

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Background

We are requesting Specification 3.6.6.2 be changed to reflect the addition of two drywell cooling fans for ventilation of the control room drive (CRD) area. In conjunction with this change Table 3.8.4.1-1 of section 3/4.8.4 must be changed to add circuit breakers for the above drywell cooling fans.

Description of Change

PP&L is proposing that Specification 3.6.6.2 and Table 3.8.4.1-1 be revised to reflect the addition of drywell cooling fans.

Safety Analysis

The purpose of the proposed modification is to enhance the capability of the non-safety related drywell cooling system. The Technical Specification changes which are required due to this modification affects two safety functions: primary containment penetration overcurrent protection and post LOCA hydrogen mixing.

Overcurrent Protection - This change is required in order to support new recirculation fans (2V418 A&B) which are being added to enhance drywell cooling. Addition of the associated circuit breakers to Table 3.4.8.1-1 has no safety impact other than to provide overcurrent protection for primary containment penetration conductors.

Post-LOCA Mixing - The new recirculation fans are being taken credit for in Specification 3.6.6.2 to replace an existing unit cooler subsystem (2V415 A&B). The air flow capability of the new recirculation fans is the same as that of the unit cooler fans formerly used for the same purpose. The unit cooler subsystem will now be serving the general drywell area and the new recirculation fans will be replacing them with respect to their safety related function of post-LOCA drywell atmosphere mixing.

Based on the above, this change will not adversely affect the safe operation of SSES Unit 2.

No Significant Hazards Considerations

The proposed change does not:

(1) Involve an increase in the probability or consequences of an accident previously evaluated.

FSAR Sections 9.4.5 and 6.2.5 provide discussion regarding drywell cooling system and combustible gas control in containment respectively. Both Sections have been reviewed for impact.

This modification will improve the capability of the Drywell Atmosphere Recirculation and Cooling System. The safety-related function of the system, that is, hydrogen mixing following LOCA, is not changed except

recirculation fans 2V418 A&B, instead of unit cooler fans 2V415 A&B, will provide the air mixing in the CRD undervessel area. Fan motor horse power is reduced to 5/2.5 hp from the present 10/5 hp. However, air flow capability of fans 2V418 A&B is the same as that of fans in 2V415 A&B. This will provide for same hydrogen mixing capability.

(2) Create the possibility of a new or different kind of accident from any previously evaluated. The change is in accordance with existing design criteria and will not adversely affect the function of any system. Electrical separation, seismic integrity and all other design criteria will be met.

(3) Involve a reduction in the margin of safety. Technical Specification Bases discussed in Sections 3/4.6.1.7, "Drywell Average Air Temperature"; 3/4.6.6, "Primary Containment Atmosphere Control", and 3/4.8.4", Electrical Equipment Protective Devices"; have been reviewed for impact.

This change will improve the capability of the Drywell Atmosphere Recirculation and Cooling System to maintain the drywell atmosphere average temperature below the requirement of Technical Specification Section 3/4.6.1.7.

We request these amendments be approved prior to the Unit 2 refueling and inspection outage scheduled to begin September 9, 1989 and condition them to become effective prior to startup following the outage. Startup is currently scheduled to occur November 10, 1989; we will keep you informed of any schedule changes.

If you have any questions regarding the above proposal please direct them to J.B. Wesner at (215) 770-7906.

Very truly yours,

H. W. Keiser

Attachments

cc: NRC Document Control Desk (original)
NRC Region I
Mr. G. S. Barber, NRC Resident Inspector
Mr. M. C. Thadani, NRC Project Manager