

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL:50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH.NAME AUTHOR AFFILIATION
 CURTIS,N.W. Pennsylvania Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards revised FSAR Section 7.4 changing pressure at which
 reactor shutdown cooling sys will operate.Rev will be
 incorporated into next FSAR amend.

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NOTES:1cy NMSS/FCAF/PM. LPDR 2cys.

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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

SEP 16 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
FSAR SECTION 7.4
ER 100508 FILE 841-1
PLA-1820

Docket No. 50-388

Dear Mr. Schwencer:

In order to support obtaining an operating license for Susquehanna SES Unit 2, attached is revised Section 7.4 of the Susquehanna SES FSAR. The revision to this section changes the pressure at which the reactor shutdown cooling system will operate. This change is consistent with the Technical Specifications for both units.

This revision will be incorporated in the next amendment to the FSAR.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

Attachment

cc: R. L. Perch NRC

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The Reactor Shutdown Cooling System consists of a set of pumps, valves, heat exchangers, and instrumentation designed to provide decay heat removal capability for the core. The system specifically accomplishes the following:

- (1) The reactor shutdown cooling system is capable of providing cooling for the reactor during shutdown operation after the vessel pressure is reduced to approximately 98 psig.
- (2) The system is capable of cooling the reactor water to a temperature at which reactor refueling and servicing can be accomplished.
- (3) The system is capable of diverting part of the shutdown flow to a nozzle in the reactor vessel head to condense the steam generated from the hot walls of the vessel while it is being flooded.

The system can accomplish its design objectives by a preferred means by directly extracting reactor vessel water from the vessel via the recirculation loop B and routing it to a heat exchanger and back to the vessel, or by an alternate means by indirectly extracting the water via relief valve discharge lines to the suppression pool and routing pool water to the heat exchanger and back to the vessel.

7.4.1.3.1.2__Classification

Electrical components for the Reactor Shutdown Cooling Mode of the Residual Heat Removal System are classified as Safety Class 2 and Seismic Category I.

7.4.1.3.2__Power Sources

This system utilizes standby power sources, since the RHPS has safety modes of operation (e.g., LPCI) connected to this equipment.

7.4.1.3.3__Equipment Design

7.4.1.3.3.1__General

The reactor water is cooled by taking suction from one of the recirculation loops; the water is pumped through the system heat

