

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
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 KEISER, H.W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. BWR Project Directorate 3

SUBJECT: Forwards application for Amends 74 & 28 to Licenses NPF-14 & NPF-22, respectively, redefining ac power distribution load groups during operating & shutdown modes. Spec 3.8.3.1 will allow load group to be deenergized for 72 h. Fee paid.

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NOV 26 1985

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Director
BWR Project Directorate #3
Division of Boiling Water Reactor Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED AMENDMENT NO. 74 TO NPF-14 AND
PROPOSED AMENDMENT NO. 28 TO NPF-22
ER 100450 FILE 841-8
PLA-2562

Docket Nos. 50-387
50-388

Dear Ms. Adensam:

The purpose of this letter is to request changes to the Susquehanna SES Unit 1 and Unit 2 Technical Specifications.

The first change is applicable to both units and involves redefining the A.C. power distribution load groups during operating and shutdown modes. The existing technical specifications (3.8.3.1 and 3.8.3.2) delineate certain motor control centers (MCC's) and instrument panels as separate load groups. These MCC's and panels are powered by busses in a specific channel, therefore it is technically correct to include these MCC's and panels under their appropriate load group channels. There is no impact to safety since the requirement to have 3 out of 4 channels for safe shutdown remains unchanged.

The second change is specific to Unit 2 specification 3.8.3.1 and will allow a required Unit 1 or common A.C. distribution load group to be de-energized for up to 72 hours. There is no impact on Unit 2 since these load groups are required to energize common loads to support Unit 2 operation.

The following Unit 1 and common A.C. distribution load groups have been reviewed by PP&L to determine which common loads are to be connected to each group:

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THE UNITED STATES OF AMERICA
DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

MEMORANDUM FOR THE DIRECTOR

RE: [Illegible]

DATE: [Illegible]

[Illegible]

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Ms. E. Adensam

4 KV Busses

1A201
1A202
1A203
1A204

480 V Load Centers

1B210
1B220
1B230
1B240

480 V Mcc's

OB136 1B226
OB146 1B227
1B216 1B236
1B217 1B246
OB516 OB527
OB517 OB536
OB526 OB546

120 V Panels

1Y216
1Y226
1Y236
1Y246

After the review of the above, it was determined that the following common loads were affected:

Emergency Service Water (ESW) System
Standby Gas Treatment Systems (SGTS)
RHR Service Water System
Control Room Emergency Outside Air Supply (CREOAS) System
Diesel Generators

The most limiting conditions for operation which could occur from de-energizing one of these load groups are the loss of one loop of ESW because of loss of power to its discharge valve, and the loss of a diesel generator. The time period for either of these events is 72 hours.

Also the de-energizing of one A.C. distribution system load group impact on safety is no worse than the loss of one diesel generator. The loss of one diesel generator is analyzed in the FSAR. Also, the time for a diesel to be inoperable is 72 hours.

This change is consistent with the bases of the Technical Specifications which state:

"The OPERABILITY of the A.C. and D.C. power sources and associated distribution systems during operation ensures that sufficient power will be available to supply the safety related equipment required for (1) the safe shutdown of the facility and (2) the mitigation and control of accident conditions within the facility. The minimum specified independent and redundant A.C. and D.C. power sources and distribution systems satisfy the requirements of General Design Criteria 17 of Appendix "A" to 10 CFR 50.

The ACTION requirements specified for the levels of degradation of the power sources provide restriction upon continued facility operation commensurate with the level of degradation. The OPERABILITY of the power sources are



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consistent with the initial condition assumptions of the accident analyses and are based upon maintaining at least three of the on-site A.C. and the corresponding D.C. power sources and associated distribution systems OPERABLE during accident conditions coincident with an assumed loss of off-site power and single failure of one other on-site A.C. source."

Therefore, the time for which a Unit 1 or common A.C. distribution load group can be de-energized should be 72 hours since this is commensurate with the inoperability of one loop of ESW. This time does not have any adverse safety impact on Unit 2 operation.

This proposed change does not involve a significant increase in the probability or consequences of an accident previously evaluated since as stated above the first part of the proposed change more appropriately defines load groups as they are designed and is therefore administrative in nature. The second part of the proposed change is consistent with previous analyses and Technical Specifications bases.

This proposed change does not create the possibility of a new or different kind of accident from any accident previously evaluated since the first part of the proposed change is administrative in nature and the second part is branded by existing analyses as described in the FSAR.

This proposed change does not involve a significant reduction in a margin of safety since the loss of any one Unit 1 or common load group is bounded by the FSAR analysis for the loss of one diesel generator.

Pursuant to 10CFR170.22, the appropriate fee is enclosed.

We would request that this Technical Specification change be made effective on February 15, 1986.

Very truly yours,



H. W. Keiser
Vice President-Nuclear Operations

cc: M. J. Campagnone - USNRC
R. H. Jacobs - USNRC

T. M. Gerusky, Director
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