

August 18, 1987

Docket Nos.: 50-413
and 50-414

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Tucker:

Subject: Issuance of Amendment No. 30 to Facility Operating License NPF-35
and Amendment No. 21 to Facility Operating License NPF-52 - Catawba
Nuclear Station, Units 1 and 2

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 30 to Facility Operating License NPF-35 and Amendment No. 21 to Facility Operating License NPF-52 for the Catawba Nuclear Station, Units 1 and 2. These amendments consist of changes to the Technical Specifications in response to your application dated November 17, 1986, and supplemented July 1, 1987.

The amendments modify the Technical Specifications (TSs) to add two containment penetration conductor overcurrent protective devices to TS Table 3.8-1A for Unit 1 and two to TS Table 3.8-1B for Unit 2. The amendments are effective as of the date of issuance.

A copy of the related safety evaluation supporting Amendment No. 30 to Facility Operating License NPF-35 and Amendment No. 21 to Facility Operating License NPF-52 is enclosed.

Notice of issuance will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

151
Kahtan Jabbour, Project Manager
PWR Project Directorate No. 4
Division of PWR Licensing-A

Enclosures:

1. Amendment No. 30 to NPF-35
2. Amendment No. 21 to NPF-52
3. Safety Evaluation

cc w/encl:
See next page

DISTRIBUTION:
See attached page

PDII-3/DRP-I/II
MDuncan:mac
07/30/87

KNS
PDII-3/DRP-I/II
KJabbour
07/31/87

[Signature]
PDII-3/DRP-I/II
BJYoungblood
08/7/87
DSA 8/18/87

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PDR ADDCK 05000413
P PDR

Mr. H. B. Tucker
Duke Power Company

Catawba Nuclear Station

cc:

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York South Carolina 29745

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August 18, 1987

AMENDMENT NO. 30 TO FACILITY OPERATING LICENSE NPF-35 -
CATAWBA NUCLEAR POWER STATION, UNIT 1
AMENDMENT NO. 21 TO FACILITY OPERATING LICENSE NPF-52 -
CATAWBA NUCLEAR POWER STATION, UNIT 2

DISTRIBUTION: w/enclosures:

Docket Nos. 50-413/414

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUKE POWER COMPANY

NORTH CAROLINA ELECTRIC MEMBERSHIP CORPORATION

SALUDA RIVER ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-413

CATAWBA NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 30
License No. NPF-35

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Catawba Nuclear Station, Unit 1 (the facility) Facility Operating License No. NPF-35 filed by the Duke Power Company acting for itself, North Carolina Electric Membership Corporation and Saluda River Electric Cooperative, Inc., (licensees) dated November 17, 1986, and supplemented July 1, 1987, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-35 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 30, and the Environmental Protection Plan

contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. Duke Power Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

151

B. J. Youngblood, Director
Project Directorate II-3
Division of Reactor Projects-I/II

Attachment:
Technical Specification Changes

Date of Issuance: August 18, 1987

me
PDII-3/DRP-I/II
MDuncan:mac
07/30/87

KNJ
PDII-3/DRP-I/II
KJabbour
07/31/87

OGC-Bethesda
Woodward
07/31/87

BJ
PDII-3/DRP-I/II
BJYoungblood
08/7/87
JSH 8/11/87



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUKE POWER COMPANY

NORTH CAROLINA MUNICIPAL POWER AGENCY NO. 1

PIEDMONT MUNICIPAL POWER AGENCY

DOCKET NO. 50-414

CATAWBA NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 21
License No. NPF-52

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Catawba Nuclear Station, Unit 2 (the facility) Facility Operating License No. NPF-52 filed by the Duke Power Company acting for itself, North Carolina Municipal Power Agency No. 1 and Piedmont Municipal Power Agency, (licensees) dated November 17, 1986, and supplemented July 1, 1987, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-52 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 21, and the Environmental Protection Plan

contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. Duke Power Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

151
B. J. Youngblood, Director
Project Directorate II-3
Division of Reactor Projects-I/II

Attachment:
Technical Specification Changes

Date of Issuance: August 18, 1987

PDII-3/DRP-I/II
MBuncan:mac
07/30/87

KNS
PDII-3/DRP-I/II
KJabbour
07/31/87

OGC-Bethesda
Woodhewer
07/31/87

PDII-3/DRP-I/II
B. Youngblood
08/3/87
DSH 8/18/87

ATTACHMENT TO LICENSE AMENDMENT NO. 30

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND

TO LICENSE AMENDMENT NO. 21

FACILITY OPERATING LICENSE NO. NPF-52

DOCKET NO. 50-414

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the areas of change. The corresponding overleaf pages are also provided to maintain document completeness.

<u>Amended</u> <u>Page</u>	<u>Overleaf</u> <u>Page</u>
3/4 8-35	3/4 8-36
3/4 8-37	3/4 8-38
3/4 8-58	3/4 8-57
3/4 8-60	3/4 8-59

TABLE 3.8-1A (Continued)

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXR-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventila- tion Unit 1B Fan Motor
1MXR-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1D
1MXR-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1D Fan Motor
1MXR-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1D Fan Motor
1IMXY-F02A Primary Bkr Backup Fuse	NC Pump 1A Oil Lift Pump Motor 1
1IMXY-F02B Primary Bkr Backup Fuse	NC Pump 1D Oil Lift Pump Motor 1
1IMXY-F02C Primary Bkr Backup Fuse	Reactor Building Lower Containment Welding Machine Receptacle 1RCPL0185
1IMXY-F02D Primary Bkr Backup Fuse	Upper Containment Reactor Building Welding Receptacle 1RCPL0193
1IMXY-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 1A
1IMXY-F03D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 1A
1IMXY-F05A Primary Bkr Backup Fuse	Lighting Transformer 1LR8
1IMXY-F05B Primary Bkr Backup Fuse	Lighting Transformer 1LR11

TABLE 3.8-1A (Continued)

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MX-Y-F05C Primary Bkr Backup Fuse	Lighting Transformer 1LR14
1MX-Y-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A5 Fan Motor A & B
1MX-Y-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A11 Fan Motor A & B
1MX-Y-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B12 Fan Motor A & B
1MX-Y-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A15 Fan Motor A & B
1MX-Y-F08A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1A
1MX-Y-F08B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1C
1MX-Y-F08C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1E
1MX-Y-F08D Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 1A
1MX-Z-F02A Primary Bkr Backup Fuse	NC Pump 1A Oil Lift Pump Motor 2
1MX-Z-F02B Primary Bkr Backup Fuse	NC Pump 1D Oil Lift Pump Motor 2

TABLE 3.8-1A (Continued)

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXZ-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 1B
1MXZ-F04B Primary Bkr Backup Fuse	Lighting Transformer 1LR1
1MXZ-F04C Primary Bkr Backup Fuse	Lighting Transformer 1LR2
1MXZ-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR3
1MXZ-F05A Primary Bkr Backup Fuse	Reactor Coolant Pump Jib Hoist No. R019 TH R022
1MXZ-F05C Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 1B
1MXZ-F06A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1B
1MXZ-F06B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1D
1MXZ-F06C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1F
1MXZ-F06D Primary Bkr Backup Fuse	Lower Containment Reactor Building Welding Receptacle 1RCPL0194
1MXZ-F07B Primary Bkr Backup Fuse	Lighting Transformer 1LR4
1MXZ-F07C Primary Bkr Backup Fuse	5 Ton Jib Crane in Containment Crane No. R005

TABLE 3.8-1A (Continued)

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXZ-F07D Primary Bkr Backup Fuse	Reactor Cavity Manipulator Crane No. R007 & R027
1MXZ-F08A Primary Bkr Backup Fuse	Steam Generator Drain Pump Motor 1
1MXZ-F08C Primary Bkr Backup Fuse	15 Ton Equipment Access Hatch Hoist Crane No. R009
1MXZ-F08D Primary Bkr Backup Fuse	Control Rod Drive 2 Ton Jib Hoist Crane No. R017
1MXZ-F08E Primary Bkr Backup Fuse	Reactor Side Fuel Handling Control Console
SMXG-F01C Primary Bkr Backup Fuse	Standby Makeup Pump Drain Isol Vlv 1NV876
SMXG-F05C Primary Bkr Backup Fuse	Pressurizer Heaters 28, 55 & 56
SMXG-F06A Primary Bkr Backup Fuse	Standby Makeup Pump to Seal Water Line Isol Vlv 1NV877
3. 600 VAC Pressurizer Heater Power Panels	
PHP1A-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 1, 2, & 22
PHP1A-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 5, 6, & 27

TABLE 3.8-1B (Continued)

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
2MXP-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2B
2MXP-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2B Fan Motor
2MXP-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2B Fan Motor
2MXP-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 2B
2MXQ-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 2A
2MXQ-F01B Primary Bkr Backup Fuse	Incore Instrument Room Venti- lation Unit 2A Fan Motor
2MXQ-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2C
2MXQ-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2A Fan Motor
2MXQ-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2A Fan Motor
2MXR-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 2D

TABLE 3.8-1B (Continued)

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
2MXR-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventila- tion Unit 2B Fan Motor
2MXR-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2D
2MXR-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2D Fan Motor
2MXR-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2D Fan Motor
2MXY-F02A Primary Bkr Backup Fuse	NC Pump 2A Oil Lift Pump Motor 1
2MXY-F02B Primary Bkr Backup Fuse	NC Pump 2D Oil Lift Pump Motor 1
2MXY-F02C Primary Bkr Backup Fuse	Reactor Building Lower Containment Welding Machine Receptacle 2RCPL0185
2MXY-F02D Primary Bkr Backup Fuse	Upper Containment Reactor Building Welding Receptacle 2RCPL0193
2MXY-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 2A
2MXY-F03D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 2A
2MXY-F05A Primary Bkr Backup Fuse	Lighting Transformer 2LR8
2MXY-F05B Primary Bkr Backup Fuse	Lighting Transformer 2LR11

TABLE 3.8-1B (Continued)

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
2MX-Y-F05C Primary Bkr Backup Fuse	Lighting Transformer 2LR14
2MX-Y-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A5 Fan Motor A & B
2MX-Y-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A11 Fan Motor A & B
2MX-Y-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B12 Fan Motor A & B
2MX-Y-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A15 Fan Motor A & B
2MX-Y-F07C Primary Bkr Backup Fuse	EXH Reactor Building Equipment Hatch Jib Cranes R035 & R036
2MX-Y-F08A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2A
2MX-Y-F08B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2C
2MX-Y-F08C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2E
2MX-Y-F08D Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 2A
2MX-Z-F02A Primary Bkr Backup Fuse	NC Pump 2A Oil Lift Pump Motor 2

TABLE 3.8-1BA (Continued)

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
2MXZ-F02B Primary Bkr Backup Fuse	NC Pump 2D Oil Lift Pump Motor 2
2MXZ-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 2B
2MXZ-F04B Primary Bkr Backup Fuse	Lighting Transformer 2LR1
2MXZ-F04C Primary Bkr Backup Fuse	Lighting Transformer 2LR2
2MXZ-F04D Primary Bkr Backup Fuse	Lighting Transformer 2LR3
2MXZ-F05A Primary Bkr Backup Fuse	Reactor Coolant Pump Jib Hoist No. R023 TH R026
2MXZ-F05C Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 2B
2MXZ-F06A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2B
2MXZ-F06B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2D
2MXZ-F06D Primary Bkr Backup Fuse	Lower Containment Reactor Building Welding Receptacle 2RCPL0194
2MXZ-F06C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2F
2MXZ-F07B Primary Bkr Backup Fuse	Lighting Transformer 2LR4



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 30 TO FACILITY OPERATING LICENSE NPF-35
AND AMENDMENT NO. 21 TO FACILITY OPERATING LICENSE NPF-52
CATAWBA NUCLEAR STATION, UNITS 1 AND 2
DUKE POWER COMPANY, ET AL.

INTRODUCTION

By letter dated November 17, 1986, and supplemented July 1, 1987, Duke Power Company, et al., (the licensee) proposed changes to Tables 3.8-1A and 3.8-1B of Technical Specification (TS) 3/4.8.4 "Electrical Equipment Protective Devices" for Catawba Nuclear Station, Units 1 and 2, respectively. The changes would add two containment penetration conductor overcurrent protective devices to TS Table 3.8-1A for Unit 1 and two to Table 3.8-1B for Unit 2.

EVALUATION

The purpose of the overcurrent protective devices is to interrupt fault currents flowing through the electrical penetration that could cause it to lose its mechanical integrity as the result of a downstream fault. To meet the requirements set forth in IEEE Std 317-1976 as augmented by the recommendations of RG 1.63 revision 2, the containment electrical penetration assemblies must be designed to withstand, without loss of mechanical integrity, the maximum available fault current long enough to allow backup circuit protection to operate, assuming a failure of the primary protective device. The requirement, therefore, is for two protective devices in series, both of which must have the capability to clear a fault before loss of the mechanical integrity of the penetration can occur.

In the July 1, 1987, letter, the licensee stated that the Type/Voltage Class of the applicable penetrations is identified in the Catawba FSAR Table Q430.11-1 as Type F/Low Voltage, and that FSAR Figure Q430.11-6 is the applicable figure for the electrical penetration assemblies and their overcurrent protective devices. This figure shows a circuit breaker and fuse in series to the electrical penetration and provides the fault current clearing time curves for the breaker and fuse plotted against two test value points for the current carrying capability of the penetration. These plots demonstrate there is sufficient margin between the fault current clearing time curves of the overcurrent protective devices and the current carrying capability of the penetration to allow the protective devices to clear the fault before damage to the penetration would occur. Therefore, the staff finds this design acceptable.

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PDR ADOCK 05000413
P PDR

ENVIRONMENTAL CONSIDERATION

The amendments involve a change in use of facility components located within the restricted area as defined in 10 CFR Part 20 and changes in requirements. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational exposures. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there have been no public comments on such finding. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR Section 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (52 FR 26583) on July 15, 1987, and consulted with the state of South Carolina. No public comments were received, and the state of South Carolina did not have any comments.

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: Kahtan Jabbour, PWR#4/DPWR-A
J. Lazevnick, SELB/DEST

Dated: August 18, 1987