

December 7, 1990

Docket No. 50-461

Mr. Frank A. Spangenberg
Licensing and Safety
Clinton Power Station
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Dear Mr. Spangenberg:

SUBJECT: AMENDMENT NO. 55 TO FACILITY OPERATING LICENSE NO. NPF-62
(TAC NOS. 73810 AND 73812)

The Commission has issued the enclosed Amendment No. 55 to Facility Operating License No. NPF-62 for the Clinton Power Station, Unit No. 1. This amendment is in response to your application dated June 30, 1989 and supplemented October 9, 1990.

This amendment revises the values for the heat energy required to be dissipated from the heaters for the Standby Gas Treatment System and the Control Room Ventilation System as provided in Technical Specifications 4.6.6.3.d.5 and 4.7.2.e.6. This amendment also revises Technical Specification Table 3.3.7.4-2 to add a note which removes the OPERABILITY requirements for the Remote Shutdown system controls for valves 1E12-F052A/B, 1E12-F026A, and 1-12-F011A.

A copy of the Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

original signed by

John B. Hickman, Project Manager
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

- Amendment No. 55 to License No. NPF-62
- Safety Evaluation

cc w/enclosures:
See next page

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PDR ADOCK 05000461
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Clinton Power Station
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ILLINOIS POWER COMPANY, ET AL.

DOCKET NO. 50-461

CLINTON POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 55
License No. NPF-62

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Illinois Power Company* (IP), and Soyland Power Cooperative, Inc. (the licensees) dated June 30, 1989 and supplemented October 9, 1990 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, 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;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - 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 amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-62 is hereby amended to read as follows:

*Illinois Power Company is authorized to act as agent for Soyland Power Cooperative, Inc. and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

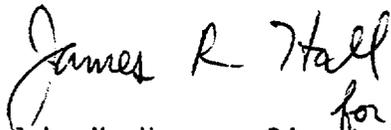
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(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 55, are hereby incorporated into this license. Illinois 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



for
John N. Hannon, Director
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: December 7, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 55

FACILITY OPERATING LICENSE NO. NPF-62

DOCKET NO. 50-461

Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change. Corresponding overleaf pages are provided to maintain document completeness.

Remove

3/4 3-83

-

3/4 6-72

3/4 7-6

Insert

3/4 3-83

3/4 3-84a

3/4 6-72

3/4 7-6

TABLE 3.3.7.4-2

REMOTE SHUTDOWN SYSTEM CONTROLS

<u>CONTROL</u>	<u>EQUIPMENT NUMBER</u>	<u>MINIMUM CHANNELS OPERABLE</u>	
		<u>DIVISION I</u>	<u>DIVISION II</u>
1. RHR Pmp	1E12-C002A/B	1	1
2. RHR Supp. Pool Suction Vlv	1E12-F004A/B	1	1
3. RHR Shutdown Cooling Supply Vlv	1E12-F006A	1	NA
4. RHR Shutdown Cooling Sply Otbd Isol Vlv	1E12-F008	1	NA
5. RHR HX Bypass Vlv	1E12-F048A/B	1	1
6. RHR Test Line Vlv to Supp. Pool	1E12-F024A/B	1	1
7. RHR HX Dsch Vlv	1E12-F003A/B	1	1
8. RCIC Steam Inlet Vlv to RHR HX	1E12-F052A/B*	1*	1*
9. RHR HX Inlet Vlv	1E12-F047A/B	1	1
10. RHR HX SX Outlet Vlv	1E12-F068A/B	1	1
11. RHR Shutdown Cooling Return Vlv	1E12-F053A/B	1	1
12. RHR RPV Inboard Inject Vlv	1E12-F042A/B	1	1
13. RHR RPV Outboard Inject Vlv	1E12-F027A	1	NA
14. RHR Cnmt Spray Vlv	1E12-F028A	1	NA
15. RHR HX 1A Condensate Dump Vlv	1E12-F011A*	1*	NA
16. RHR HX 1A RCIC Shutoff Vlv	1E12-F026A*	1*	NA
17. RHR FP/FC Sply Vlv	1E12-F037A	1	NA
18. RHR Pump Min Flow Recirc Vlv	1E12-F064A/B	1	1
19. RHR HX 1A SX Bypass Vlv	1SX173A	1	NA
20. RHR RR Sply Inbd Isol Vlv	1E12-F006B	NA	1
21. Shutdown Cooling Inbd Isol Vlv	1E12-F009	NA	1
22. RPV Head Spray Vlv	1E12-F023	NA	1
23. RCIC Stm Bypsv Vlv	1E51-F095	1	NA
24. RCIC Pump Cond Stg Tnk Suction Vlv	1E51-F010	1	NA
25. RCIC Supp Pool Suction Vlv	1E51-F031	1	NA
26. RCIC First Test Line Isol. Vlv to RCIC Storage Tank	1E51-F022	1	NA
27. RCIC Inject Vlv	1E51-F013	1	NA
28. RCIC Min Flow Recrc Vlv	1E51-F019	1	NA
29. RCIC Second Test Line Isol Vlv to RCIC Stg Tnk	1E51-F059	1	NA
30. RCIC Turbine L.O. Cool Wtr Sply Vlv	1E51-F046	1	NA
31. RCIC Gland Seal Air Cmpsr	1E51-C002F	1	NA
32. RCIC Outbd Vac Bkr Vlv	1E51-F077	1	NA
33. RHR RCIC Stm Sply Otbd Isol Vlv	1E51-F064	1	NA
34. RCIC Turb Stm Sply Vlv	1E51-F045	1	NA
35. RCIC Turb Xhst Stop Vlv	1E51-F068	1	NA
36. RCIC Trip/Throttle Vlv	1E51-C002E	1	NA
37. RCIC Turb Stm Supply Warm-up Vlv	1E51-F076	NA	1
38. SRV 51C	1B21-F051C	1	1
39. SRV 51D	1B21-F051D	1	1
40. SRV 51G	1B21-F051G	1	1
41. RCIC Stm Flow Cntrl	NA	1	NA
42. RCIC Turb Trip	NA	1	NA
43. DG 1A Vent Fan	1VD01CA	1	NA

TABLE 3.3.7.4-2 (Continued)

REMOTE SHUTDOWN SYSTEM CONTROLS

CONTROL	EQUIPMENT NUMBER	MINIMUM CHANNELS OPERABLE	
		DIVISION I	DIVISION II
44. DG 1A Oil Rm A Xhst Fan	1VD02CA	1	NA
45. Div I Switchgear Heat Removal Vent Fan	1VX03CA	1	NA
46. Battery Rm 1A1 Xhst Fan	1VX05CA	1	NA
47. SX Pmp Rm Sply Fan	1VH01CA/B	1	1
48. RHR Pmp Rm 1A Sply Fan	1VY02C	1	NA
49. RHR Ht Xchg Rm A Sply Fan	1VY03C	1	NA
50. RCIC Pmp Rm Sply Fan	1VY04C	1	NA
51. DG 1A Ckt Brkr	252-DGKA	1	NA
52. DG 1A Fuel Oil Trnsfr Pmp	1D001PA	1	NA
53. SX Pmp	1SX01PA/B	1	1
54. SX/WS Isol Vlv	1SX014A/B	1	1
55. DG 1A Outlet Vlv	1SX063A	1	NA
56. SX 1A Strnr Inlet Vlv	1SX003A	1	NA
57. SX 1A Strnr Outlet Vlv	1SX004A		
58. SX 1A Strnr Bypass Vlv	1SX008A		
59. SX Xtie Vlv	1SX011A	1	NA
60. RHR Ht Xchg 1A Demin Wtr Sply Vlv	1SX082A	1	NA
61. Fuel Pool Ht Xchg 1A SX Sply Vlv	1SX012A	1	NA
62. Fuel Pool Ht Xchg 1A SX Dsch Vlv	1SX062A	1	NA
63. Fuel Pool M-U SX Sply Vlv	1SX016A	1	NA
64. SX-SGTS Charcoal Bed Train A Deluge Vlv	1SX073A	1	NA
65. Cntl Rm HVAC Recirc Unit A Deluge Vlv	1SX076A	1	NA
66. Cntl Rm HVAC M/U Unit A Deluge Vlv	1SX107A	1	NA
67. RHR HX Clg Wtr Sply Vlv	1E12-F014A/B	1	1
68. RCIC Inbd Vac Bkr Vlv	1E51-F078	NA	1
69. RCIC Stm Sply Inbd Isol Vlv	1E51-F063	NA	1
70. Remote Transfer Switch	1C61-HS501	NA	NA
71. Remote Transfer Switch	1C61-HS502	NA	NA
72. Remote Transfer Switch	1C61-HS508	NA	NA
73. Remote Transfer Switch	1C61-HS509	NA	NA
74. Remote Transfer Switch	1C61-HS510	NA	NA
75. Remote Transfer Switch	1C61-HS511	NA	NA
76. Remote Transfer Switch	1C61-HS527	NA	NA
77. Remote Transfer Switch	1C61-HS001	NA	NA
78. Remote Transfer Switch	1C61-HS002	NA	NA
79. Remote Transfer Switch	1C61-HS003	NA	NA
80. Remote Transfer Switch	1C61-HS004	NA	NA
81. Remote Transfer Switch	1C61-HS005	NA	NA
82. Remote Transfer Switch	1C61-HS006	NA	NA
83. Remote Transfer Switch	1C61-HS007	NA	NA
84. Remote Transfer Switch	1C61-HS008	NA	NA
85. Remote Transfer Switch	1C61-HS009	NA	NA
86. Remote Transfer Switch	1C61-HS010	NA	NA
87. Remote Transfer Switch	1C61-HS011	NA	NA
88. Remote Transfer Switch	1C61-HS012	NA	NA
89. Circuit Breaker 252-AT1AA1	1C61-HS565	1	NA

TABLE 3.3.7.4-2 (Continued)

REMOTE SHUTDOWN SYSTEM CONTROLS

TABLE NOTATIONS

- * These controls are not required to be OPERABLE or tested as operation of the associated valves is precluded in accordance with Illinois Power Company's commitment to not utilize the steam condensing mode of the residual heat removal system.

CONTAINMENT SYSTEMS

STANDBY GAS TREATMENT SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

4.6.6.3 (Continued)

1. Verifying that the subsystem satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 0.05% and uses the test procedure guidance in Regulatory Positions C.5.a, C.5.c and C.5.d of Regulatory Guide 1.52, Revision 2, March 1978*, and the system flow rate is 4000 cfm \pm 10%.
 2. Verifying, within 31 days after removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978*, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978*, for a methyl iodide penetration of less than 0.175%; when tested in accordance with ASTM D3803-79 methods, with the following parameters:
 - a) Bed Depth - 4 inches
 - b) Velocity - 40 fpm
 - c) Temperature - 80°C
 - d) Relative Humidity - 70%and
 3. Verifying a subsystem flow rate of 4000 cfm \pm 10% during system operation when tested in accordance with ANSI N510-1980.
- c. After every 720 hours of charcoal adsorber operation, by verifying, within 31 days after removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978*, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978*, for a methyl iodide penetration of less than 0.175%; in accordance with ASTM D3803-79 methods, with the following parameters:
- a) Bed Depth - 4 inches
 - b) Velocity - 40 fpm
 - c) Temperature - 80°C
 - d) Relative Humidity - 70%

*ANSI N510-1980 shall be used in place of ANSI N510-1975 as referenced in Regulatory Guide 1.52, Revision 2, March 1978.

CONTAINMENT SYSTEMS

STANDBY GAS TREATMENT SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

4.6.6.3 (Continued)

d. At least once per 18 months by:

1. Performing a system functional test which includes simulated automatic actuation of the system throughout its emergency operating sequence for the:
 - a) LOCA, and
 - b) Fuel handling accident.
 2. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 6.0 inches Water Gauge while operating the filter train at a flow rate of 4000 cfm \pm 10%.
 3. Verifying that the filter train starts and isolation dampers open on receipt of the following test signals:
 - a) Manual initiation from the control room, and
 - b) Simulated automatic initiation signal.
 4. Verifying that the filter cooling bypass dampers can be manually opened and the fan can be manually started.
 5. Verifying that the heaters dissipate at least 18.0 kW when tested in accordance with ANSI N510-1980.
- e. After each complete or partial replacement of a HEPA filter bank, by verifying that the HEPA filter bank satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 0.05% in accordance with ANSI N510-1980 while operating the system at a flow rate of 4000 cfm \pm 10%.
- f. After each complete or partial replacement of a charcoal adsorber bank by verifying that the charcoal adsorber bank satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 0.05% in accordance with ANSI N510-1980 for a halogenated hydrocarbon refrigerant test gas while operating the system at a flow rate of 4000 cfm \pm 10%.

PLANT SYSTEMS

CONTROL ROOM VENTILATION SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

4.7.2 (Continued)

- d. After every 720 hours of charcoal adsorber operation, by verifying within 31 days after removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978*, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978*, for a methyl iodide penetration of less than 0.175% for the makeup filter system carbon adsorber and 6% for the recirculation filter system carbon adsorber when tested; in accordance with ASTM D3803-79 methods, with the following parameters:

Make Up Filter System

- a) Bed Depth - 4 inches
- b) Velocity - 40 fpm
- c) Temperature - 30°C
- d) Relative Humidity - 70%

Recirculation Filter System

- a) Bed Depth - 2 inches
- b) Velocity - 80 fpm
- c) Temperature - 30°C
- d) Relative Humidity - 70%

- e. At least once per 18 months by:
1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 6 inches Water Gauge while operating the makeup filter system at a flow rate of 3000 cfm \pm 10%.
 2. Verifying that on a high chlorine actuation** and a manual initiation test signal, the system automatically** switches to the chlorine mode of operation and the dampers close within 2 seconds.***
 3. Verifying that the control room leak rate is limited to $<$ 4000 cfm \pm 10% at \geq 1/8-inch Water Gauge (W.G.) with respect to adjacent areas.
 4. Verifying that on a smoke mode actuation test signal, the system automatically switches to the smoke mode of operation at a flow rate less than or equal to 64,000 cfm \pm 10%.
 5. Verifying that on a high radiation actuation test signal, the system automatically switches to the high radiation mode of operation and

*ANSI N510-1980 shall be used in place of ANSI N510-1975 as referenced in Regulatory Guide 1.52, Revision 2, March 1978.

**Automatic transfer to the chlorine mode is not required when chlorine containers having a capacity of 150 pounds or less are stored 100 meters from the control room or its fresh air inlets.

***This specification is not applicable after all chlorine containers having a capacity of 100 pounds or greater are removed from the site including the chlorine containers located at the site sewage treatment plant.

PLANT SYSTEMS

CONTROL ROOM VENTILATION SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

4.7.2 (Continued)

the control room is maintained at a positive pressure of at least 1/8-inch W.G. relative to the outside atmosphere during system operation at a flow rate less than or equal to 3000 cfm.

6. Verifying that the makeup filters heaters dissipate at least 14.4 kW when tested in accordance with ANSI N510-1980.
- f. After each complete or partial replacement of a HEPA filter bank in the makeup filter system, by verifying that the HEPA filter bank satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 0.05% in accordance with ANSI N510-1980 while operating the system at a flow rate of 3000 cfm \pm 10%.
- g. After each complete or partial replacement of a charcoal adsorber bank in the makeup or recirculation filter systems, by verifying that the charcoal adsorber bank satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 0.05% for the makeup filter system and 2% total bypass leakage for the recirculation filter system in accordance with ANSI N510-1980 for a halogenated hydrocarbon refrigerant test gas while operating the makeup system at a flow rate of 3000 cfm \pm 10% and the recirculation filter system at a flow rate of 64,000 \pm 10%.
- h. At least once per 18 months by verifying that the air inleakage rate into the negative pressure portions of the Main Control Room Ventilation System ductwork located outside the Main Control Room habitability boundary between fan OVC04CA(B) and isolation dampers OVC03YA(B) inclusive, and fire dampers OVC042YA(E), OVC042YB(F), OVC042YC(G) and OVC042YD(H) to be \leq 650 cfm when tested in accordance with an NRC-approved test method. In addition, visually verify the integrity of the Recirculation Filter Housing flexible connection to fan OVC03CA(B).



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 55 TO FACILITY OPERATING LICENSE NO. NPF-62

ILLINOIS POWER COMPANY, ET AL.

CLINTON POWER STATION, UNIT NO. 1

DOCKET NO. 50-461

1.0 INTRODUCTION

By letter dated June 30, 1989, the Illinois Power Company (IP), et al. (the licensees), requested eight amendments to the Technical Specifications for Clinton Power Station, Unit 1. The fourth of the proposed amendments would revise the values for the heat energy required to be dissipated from the heaters for the Standby Gas Treatment (VG) System and the Control Room Ventilation (VC) System as provided in Technical Specifications 4.6.6.3.d.5 and 4.7.2.e.6. The sixth of the proposed amendments would revise Technical Specification Table 3.3.7.4-2 to add a note which removes the OPERABILITY requirements for the Remote Shutdown (RS) system controls for valves 1E12-F052A/B and 1E12-F026A. The sixth proposed amendment was supplemented by letter dated October 9, 1990 to add a fourth valve (1E12-F011A) to the change. The supplement was within the scope of the original amendment request, as noticed in the Federal Register, and was determined not to have affected the staff's proposed determination that the request involved no significant hazards determination.

2.0 EVALUATION

The heaters used for the VG and VC systems are designed in accordance with ANSI N509-1976 which requires that the heaters be sized with the capability of reducing the relative humidity of the entering air-steam mixture from approximately 100% to approximately 70% between the moisture separator and the prefilter stage at system design flow rates. Heater operation at or above the minimum value specified in the current Technical Specifications satisfies this requirement. The heaters themselves are simple resistance heaters. Therefore, the heat dissipation rate is roughly proportional to the electric current through the heater. The nominal rating for each heater is based on the manufacturer's rating for each heater with an assumed bus voltage of 460 volts. However the nominal bus voltage at Clinton is 480 VAC. Allowing the 10% variance on bus voltage, the possible peak voltage of 528 VAC could cause the heaters to exceed the Technical Specification allowed maximum heat dissipation. The basis for the minimum heat dissipation rate is clearly to satisfy the design requirements. However, there does not appear to be a basis for an upper limit. The heat dissipation rate is determined by the voltage across the heaters which could not be adjusted without

a design modification so there is no concern for a miscalibration and an overtemperature cutout is provided to deenergize the VC and VG system heaters if high temperatures are detected. Therefore, based on the above, the change to the required heat dissipation rates for the VC and VG heaters from a nominal range to a required minimum is acceptable.

The Residual Heat Removal (RHR) system at Clinton is capable of operating in several possible modes. These modes are: Low Pressure Coolant Injection, Containment Spray, Suppression Pool Cooling, Shutdown Cooling, and Steam Condensing. The steam condensing mode of RHR system operation was designed to control reactor pressure when the main condenser is unavailable as a heat sink. During this mode of operation, the RHR heat exchangers operate as direct reactor steam condensing units. Reactor steam is processed through the heat exchangers after the primary steam system is isolated from the main condenser by closing the main steam isolation valves. However, due to concerns over the operational control of the steam condensing mode, in a letter to the NRC dated June 3, 1987, the licensee committed not to use that mode. The NRC accepted that position provided that appropriate administrative and procedural controls were implemented to prevent operation of the RHR system in the steam condensing mode. The licensee has established the appropriate controls. Although the licensee has committed not to use the steam condensing mode of the RHR system, certain valves used for that mode of operation were included in the list of controls required to be operable on the Remote Shutdown (RS) system. Since these valves would only be operated during operation of the RHR system in the steam condensing mode and this mode of operation is prohibited by Clinton procedures, the licensee contends that it is inappropriate to require these controls to be operable to consider the RS system operable. The staff agrees with this position and finds the change to the RS specification, adding a note to delete the operability requirement for the specified valves, to be acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 or a change to a surveillance requirement. The staff has determined that the amendment involves 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 radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement nor environmental assessment need be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

The staff has 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Hickman, NRR

Dated: December 7, 1990