

May 8, 1998

Mr. Paul H. Kinkel
Vice President, Nuclear Power
Consolidated Edison Company
of New York, Inc.
Broadway and Bleakley Avenue
Buchanan, NY 10511

SUBJECT: ISSUANCE OF AMENDMENT FOR INDIAN POINT NUCLEAR GENERATING
UNIT NO. 2 (TAC NO. M89941)

Dear Mr. Kinkel:

The Commission has issued the enclosed Amendment No. 196 to Facility Operating License
No. DPR-26 for the Indian Point Nuclear Generating Unit No. 2. The amendment consists of
changes to the Technical Specifications (TSs) in response to your application transmitted by
letter dated July 8, 1994, as supplemented August 13, 1996, and February 12, 1998.

The amendment revises TSs Sections 3.7 and 3.3.E to clarify offsite power availability
requirement, revise emergency diesel generator fuel oil availability requirements and specify the
configuration requirements for removing Component Cooling Pump 22 from service.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the
Commission's next regular biweekly Federal Register notice.

Sincerely,

Original Signed by:

Jefferey F. Harold, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-247

Enclosures: 1. Amendment No. 196 to DPR-26
2. Safety Evaluation

cc w/encls: See next page

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NAME	JHarold		SLittle	SBajwa			
DATE	04/23/98		04/21/98	05/8/98	04/198 5-2-98		04/ /98

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DATED: May 8, 1998

AMENDMENT NO. 196 TO FACILITY OPERATING LICENSE NO. DPR-26-INDIAN POINT UNIT 2

Docket File
PUBLIC
PDI-1 Reading
J. Zwolinski
S. Bajwa
S. Little
J. Harold
OGC
G. Hill (2), T-5 C3
W. Beckner, 013/H15
V. Beaston, 07/H5
D. Shum, 08/D1
ACRS
J. Rogge, Region I

cc: Plant Service list

DATED: May 8, 1998

AMENDMENT NO. 196 TO FACILITY OPERATING LICENSE NO. DPR-26-INDIAN POINT UNIT 2

Docket File

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OFFICE	PM:PDI-1	E	LA:PDI-1	D:PDI-1	OGC
NAME	JHarold		SLittle	SBajwa	
DATE	04/22/98		04/21/98	04/28/98	04/28/98

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 8, 1998

Mr. Paul H. Kinkel
Vice President, Nuclear Power
Consolidated Edison Company
of New York, Inc.
Broadway and Bleakley Avenue
Buchanan, NY 10511

SUBJECT: ISSUANCE OF AMENDMENT FOR INDIAN POINT NUCLEAR GENERATING
UNIT NO. 2 (TAC NO. M89941)

Dear Mr. Kinkel:

The Commission has issued the enclosed Amendment No. 196 to Facility Operating License No. DPR-26 for the Indian Point Nuclear Generating Unit No. 2. The amendment consists of changes to the Technical Specifications (TSs) in response to your application transmitted by letter dated July 8, 1994, as supplemented August 13, 1996, and February 12, 1998.

The amendment revises TSs Sections 3.7 and 3.3.E to clarify offsite power availability requirement, revise emergency diesel generator fuel oil availability requirements and specify the configuration requirements for removing Component Cooling Pump 22 from service.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,

A handwritten signature in black ink that reads "Jeffrey F. Harold".

Jefferey F. Harold, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-247

Enclosures: 1. Amendment No. 196 to DPR-26
2. Safety Evaluation

cc w/encls: See next page

Paul H. Kinkel
Consolidated Edison Company
of New York, Inc.

Indian Point Nuclear Generating
Station Units 1/2

cc:

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Buchanan, NY 10511

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DOCKET NO. 50-247

INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 196
License No. DPR-26

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Consolidated Edison Company of New York, Inc. (the licensee) dated July 8, 1994, as supplemented August 13, 1996, and February 12, 1998, 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. DPR-26 is hereby amended to read as follows:

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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 196 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



S. Singh Bajwa, Director
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 8, 1998

ATTACHMENT TO LICENSE AMENDMENT NO. 196

FACILITY OPERATING LICENSE NO. DPR-26

DOCKET NO. 50-247

Revise Appendix A as follows:

Remove Pages

3.3-7
3.7-1
3.7-2
3.7-3
3.7-4
3.7-5
3.7-6
3.7-7
3.7-8
3.7-9

Insert Pages

3.3-7
3.7-1
3.7-2
3.7-3
3.7-4
3.7-5
3.7-6
3.7-7
3.7-8
3.7-9

c. Two component cooling heat exchangers together with their associated piping and valves are operable.

2. During power operation, the requirements of 3.3.E.1 may be modified to allow one of the following components to be inoperable at any one time. If the system is not restored to meet the conditions of 3.3.E.1 within the time period specified, the reactor shall be placed in the hot shutdown condition utilizing normal operating procedures. If the requirements of 3.3.E.1 are not satisfied within an additional 48 hours, the reactor shall be placed in the cold shutdown condition utilizing normal operating procedures.

a. One of the three operable component cooling pumps may be out of service provided the pump is restored to operable status within 14 days. Component Cooling Pump 22 may be out of service if Emergency Diesel Generator 22 is out of service or if no emergency diesel generator is out of service.

b. An additional component cooling pump may be out of service provided a second pump is restored to operable status within 24 hours.

c. One auxiliary component cooling pump may be out of service provided the pump is restored to operable status within 24 hours and the other pump is operable.

d. One component cooling heat exchanger or other passive component may be out of service for a period not to exceed 48 hours provided the system may still operate at design accident capability.

F. SERVICE WATER SYSTEM

1. DESIGNATED ESSENTIAL HEADER

a. The reactor shall not be above 350°F unless three service water pumps with their associated piping and valves are operable on the designated essential header.

b. When the reactor is above 350°F and one of the three service water pumps or any of its associated piping or valves is found inoperable, and an essential service water header that meets the requirements of

3.7 AUXILIARY ELECTRICAL SYSTEMS

Applicability

Applies to the availability of electrical power for the operation of plant auxiliaries.

Objective

To define those conditions of electrical power availability necessary (1) to provide for safe reactor operation and (2) to provide for the continuing availability of engineered safety features.

Specifications

- A. The reactor shall not be made critical without:
1. at least two 138 kV lines from offsite sources to Buchanan Substation fully operational (excluding the Refuse Energy Services Company plant),
 2. the 6.9 kV buses 5 and 6 energized from the 138 kV sources at Buchanan Substation through the 138/6.9 kV Station Auxiliary Transformer,
 3. one 13.8 kV source from at least one 138/13.8 kV transformer at Buchanan available and a 13.8/6.9 kV transformer available to supply 6.9 kV power,
 4. the four 480-volt buses 2A, 3A, 5A and 6A energized and the bus tie breakers between buses 5A and 2A and between buses 3A and 6A open,
 5. three diesel generators operable with a minimum onsite supply of 6,334 gallons of fuel available in each of the individual storage tanks and 29,000 gallons of fuel available at the Buchanan Substation, or onsite other than the normal supply tanks, and
 6. station batteries Nos. 21, 22, 23, & 24 and their associated battery chargers and dc distribution systems operable.

B. During power operation, the following components may be inoperable:

1. Power operation may continue for seven days provided the 138 kV and the 13.8 kV sources of offsite power are available in compliance with 3.7.A with any combination of or all of the following inoperable:
 - a. One diesel generator unavailable provided the remaining diesel generators with their associated fuel oil systems and the required engineered safety features associated with these diesel generator buses are operable,
 - b. One diesel generator fuel oil system unavailable. This system consists of a fuel oil storage tank with 6,334 gallons of fuel available, a fuel oil transfer pump and associated piping, valves and instrumentation, or
 - c. One diesel fuel oil supply header unavailable.

If a diesel generator becomes inoperable due to any cause other than planned maintenance or testing, the remaining diesel generators shall be tested to ensure operability.

2. Power operation may continue for 72 hours provided the 138 kV power source from Buchanan Substation is supplying 6.9 kV buses 5 and 6 through the 138/6.9 kV Station Auxiliary Transformer and the three diesel generators are operable with either of the following:
 - a. Only one 138 kV line from an offsite source to Buchanan Substation is operable, (excluding the Refuse Energy Services Company plant).
 - b. The 13.8 kV source of offsite power is not available from a 138/13.8 kV transformer at Buchanan Substation, but is available from a gas turbine.

This operation may be extended beyond 72 hours provided the limiting condition is reported to the NRC within the subsequent 24-hour period with an outline of the plans for restoration of an offsite 138 kV supply line or re-establishing a 138/13.8 kV supply to Buchanan Substation for the 13.8/6.9 kV supply to buses 5 and 6.

3. Power operation may continue for 24 hours, if the entire 138 kV or the entire 13.8 kV source of power is lost, provided the three diesel generators are operable. This operation may be extended beyond 24 hours provided the limiting condition is reported to the NRC within the subsequent 24-hour period with an outline of the plans for restoration of offsite power.
4. When 6.9 kV buses 5 and 6 are supplied through a 13.8/6.9 kV transformer, in addition to satisfying the requirements of Specification 3.7.B.3 above, the 6.9 kV bus tie breaker control switches 1-5, 2-5, 3-6, and 4-6 in the CCR shall be placed in the "pull-out" position and tagged to prevent an automatic transfer of the 6.9 kV buses 1, 2, 3 and 4.
5. One battery may be inoperable for 24 hours provided the other batteries and four battery chargers remain operable with one battery charger carrying the dc load of the failed battery's supply system.
6. One battery charger may be inoperable for 24 hours provided the following conditions are satisfied:
 - a. The other three battery chargers and their associated batteries are operable; and
 - b. The affected battery shall have the Specification 4.6.C.1 surveillance initiated within one hour of the time the battery charger is determined to be inoperable and the surveillance shall be repeated every eight hours thereafter to determine battery operability. This surveillance frequency shall be maintained until the battery is declared inoperable or until the battery charger is declared operable.

C. Gas Turbine Generators:

1. At least one gas turbine generator (GT-1, GT-2 or GT-3) and associated switchgear and breakers shall be operable at all times.
2. A minimum of 54,200 gallons of fuel for the operable gas turbine generator shall be available at all times.

3. If the requirements of 3.7.C.1 or 3.7.C.2 cannot be met, then, within the next seven (7) days, either the inoperable condition shall be corrected or an alternate independent power system shall be established.
4. If the requirements of 3.7.C.3 cannot be satisfied, the reactor shall be placed in the hot shutdown condition utilizing normal operating procedures. If the requirements of 3.7.C.3 cannot be met within an additional 48 hours, the reactor shall be placed in the cold shutdown condition utilizing normal operating procedures.

The requirements of Specification 3.7.A may be modified for an emergency "Black Start" of the unit by using the requirements of either Specification 3.7.D.1 or 3.7.D.2 below:

- D.1.
 - a. all 138 kV lines to Buchanan de-energized,
 - b. the 13.8 kV line de-energized,
 - c. the 6.9 kV buses 5 and 6 energized from the onsite gas turbine through the 13.8/6.9 kV transformer,
 - d. the four 480-volt buses 2A, 3A, 5A and 6A energized from the diesels and the tie breakers between buses 5A and 2A and between buses 3A and 6A open,
 - e. three diesel generators operable with a minimum onsite supply of 6,334 gallons of fuel available in each of the individual storage tanks and 29,000 gallons of fuel available at the Buchanan Substation, or onsite other than the normal supply tanks,
 - f. station batteries Nos. 21, 22, 23 & 24 and their associated battery chargers and dc distribution systems operable, and
 - g. the 480-volt tie breakers 52/2A, 52/3A, 52/5A and 52/6A open.
- D.2.
 - a. establish 138 kV bus sections at Buchanan with at least 37 MW power (nameplate rating) from any combination of gas turbines at Buchanan and onsite,

- b. two 138 kV lines to Buchanan energized from the gas turbines with breakers to Millwood, the 138/345 kV tie to Buchanan and to the Refuse Energy Services Company plant open,
 - c. the 13.8 kV line to Buchanan operable and the 13.8/6.9 kV transformer available to supply 6.9 kV power,
 - d. the 6.9 kV buses energized from the 138 kV source,
 - e. the four 480-volt buses 2A, 3A, 5A and 6A energized and the bus tie breakers between buses 5A and 2A and between buses 3A and 6A open,
 - f. three diesel generators operable with a minimum onsite supply of 6,334 gallons of fuel available in each of the individual storage tanks and 29,000 gallons of fuel available at the Buchanan Substation, or onsite other than the normal supply tanks, and
 - g. station batteries Nos. 21, 22, 23 & 24 and their associated battery chargers and dc distribution systems operable.
- E. Whenever the reactor is critical, the circuit breaker on the electrical feeder to emergency lighting panel 218 inside containment shall be locked open except when containment access is required.

Basis

The electrical system equipment is arranged so that no single contingency can inactivate enough safeguards equipment to jeopardize plant safety. The 480-volt equipment is arranged in four buses. The 6.9 kV equipment is supplied from six buses.

In addition to the unit transformer, three separate sources supply station service power to the plant⁽¹⁾.

There are three sources of 138 kV offsite power to Buchanan Substation. These sources consist of two 138 kV feeders from Con Edison's Millwood 138 kV substation and one connection from the Buchanan 345 kV substation through a 345/138 kV transformer. These 138 kV sources are each capable of supplying all auxiliaries for Indian Point 1, 2 and 3 as well as the Buchanan Substation customer load and can be used to satisfy 3.7.A.1. There is also an additional 138 kV connection to Buchanan Substation from the Westchester Refuse Energy

Services Company (RESCO) plant. The RESCO plant alone does not have the capability to supply all expected loads for Indian Point 2 and 3 and connected customer loads supplied by the Buchanan 13.8 kV substation. Therefore, the RESCO plant can not be used to satisfy 3.7.A.1 or 3.7.B.2.a.

The plant auxiliary equipment is arranged electrically so that multiple items receive their power from different sources. The charging pumps are supplied from the 480-volt buses Nos. 3A, 5A, and 6A. The five containment fans are divided among the 480-volt buses. The two residual heat pumps are on separate 480-volt buses. Valves are supplied from separate motor control centers.

The station auxiliary transformer or a gas turbine is capable of providing sufficient power for plant startup. The station auxiliary transformer can supply the required plant auxiliary power during normal operation.

There are two 13.8/6.9 kV transformers which can be used to supply 6.9 kV power to Indian Point 2. One transformer is associated with Feeder 13W92 and Indian Point 2, the other is associated with Feeder 13W93 and Indian Point 3. Each transformer is capable of supplying maximum safeguards loads and safe shutdown loads for both Indian Point 2 and 3 taken simultaneously. While during normal operation each unit will take credit for its associated transformer, during the time frame required to perform scheduled maintenance or to replace failed equipment both units may take credit for the same 13.8/6.9 kV transformer. Neither 13.8/6.9 kV transformer is capable of supplying all auxiliaries for either unit. Therefore, the automatic transfer of 6.9 kV buses 1, 2, 3 and 4 is defeated when the 13.8 kV source is supplying power to buses 5 and 6.

The bus arrangements specified for operation ensure that power is available to an adequate number of safeguards auxiliaries. With additional switching, more equipment could be out of service without infringing on safety.

Two diesel generators have sufficient capacity to start and run, at design load, the minimum required safeguards equipment⁽¹⁾. If one diesel is inoperable, the minimum required safeguards equipment associated with the remaining two diesels must be operable. Equipment that is not required for minimum safeguards such as a third non-essential service water pump, a third charging pump or a third component cooling water pump associated with the remaining two diesels is not required to be operable when a diesel is inoperable as long as the remaining two diesels can not be overloaded by this configuration. Component Cooling Pump 22 can not be inoperable while either Diesel Generator 21 or 23 is out of service because this configuration would overload one of the remaining two diesels. The minimum diesel fuel oil inventory in the

storage tanks is maintained at all times to assure the operation of two diesels carrying their associated engineered safeguards equipment for at least seventy-three hours with three storage tanks available and for at least fifty hours with two storage tanks available⁽²⁾. Additional fuel oil suitable for use in the diesel generators will be stored either onsite or at the Buchanan Substation. The minimum storage of 29,000 gallons of additional fuel oil will assure continuous operation of two diesels for at least 118 hours at the minimum load for safeguards. Commercial oil supplies and trucking facilities exist to assure deliveries within one day's notice.

There are three onsite fuel oil storage tanks adjacent to the diesels. Each tank has an associated fuel oil transfer pump which has the capability to automatically feed two of the three diesels through either of two redundant supply headers. If one storage tank or transfer pump is unavailable, the remaining tanks or pumps with the additional 29,000 gallons of fuel oil at Buchanan Substation can supply the three diesels if required to supply at least minimum engineered safeguards equipment for at least 139 hours⁽²⁾.

If a diesel generator is out of service due to planned maintenance or testing, testing of the remaining diesel generators is not required. In this case, testing is not required because a planned emergency diesel generator maintenance or testing outage does not directly affect the availability or reliability of the remaining emergency diesel generators and is not indicative of a potential failure in the remaining emergency diesel generators.

One battery charger shall be in service on each battery so that the batteries will always be at full charge in anticipation of a loss-of-ac power incident. This ensures that adequate dc power will be available for starting the emergency diesel generators and other emergency uses.

The plant can be safely shut down without the use of offsite power since all vital loads (safety systems, instruments, etc.) can be supplied from the emergency diesel generators.

Any two of three diesel generators, the station auxiliary transformer or the separate 13.8 to 6.9 kV transformer are each capable of supplying the minimum safeguards loads and therefore provide separate sources of power immediately available for operation of these loads. Thus, the power supply system meets the single failure criteria required of the safety systems.

Three (3) gas turbine generators are directly available to the Indian Point site. One is located onsite (GT-1) and two additional units are located at the adjacent Buchanan Substation (GT-2 and GT-3). One gas turbine generator is more than adequate to provide an additional contingency of backup electrical power for maintaining the plant in a safe shutdown condition. The specified gas turbine generator minimum fuel inventory of 54,200 gallons assures that one gas turbine generator will be capable of supplying more than the maximum electrical load for

the Indian Point Unit No. 2 alternate safe shutdown power supply system (i.e., 750 kW) for at least three (3) days. Commercial oil supplies and trucking facilities exist to assure deliveries of additional fuel oil within one day's notice.

Conditions of a system-wide blackout could result in a unit trip. Since normal offsite power supplies as required in Specification 3.7.A are not available for startup, it is desirable to be able to blackstart this unit with onsite power supplies as a first step in restoring the system to an operable status and restoring power to customers for essential service. Specification 3.7.D.1 provides for startup using the onsite gas turbine to supply the 6.9 kV loads and the diesels to supply the 480-volt loads. Tie breakers between the 6.9 kV and 480-volt systems are open so that the diesels would not be jeopardized in the event of any incident and would be able to continue to supply 480-volt safeguards power. The scheme consists of starting two reactor coolant pumps, one condensate pump, 2 circulating water pumps and necessary auxiliaries to bring the unit up to approximately 10% power. At this point, loads can be assumed by the main generator and power supplied to the system in an orderly and routine manner.

Specification 3.7.D.2 is identical with normal start-up requirements as in Specification 3.7.A except that offsite power is supplied exclusively from gas turbines with a minimum total power of 37 MW (nameplate rating), which is sufficient to carry out normal plant startup.

As a result of an investigation of the effect components, that might become submerged following a LOCA, may have on ECCS, containment isolation, and other safety-related functions, a fuse and a locked-open circuit breaker were provided on the electrical feeder to emergency lighting panel 218 inside containment. With the circuit breaker in the open position, containment electrical penetration H-70 is de-energized during the accident condition. Personnel access to containment may be required during power operation. Since it is highly improbable that a LOCA would occur during this short period of time, the circuit breaker may be closed during that time to provide emergency lighting inside containment for personnel safety.

When the 138 kV source of offsite power is out of service, the automatic transfer of 6.9 kV Buses 1, 2, 3 and 4 to offsite power after a unit trip could result in overloading of the 20 MVA 13.8 kV/6.9 kV auto-transformer. Accordingly, the intent of Specification 3.7.B.4 is to prevent the automatic transfer when only the 13.8 kV source of offsite power is available. However, this specification is not intended to preclude subsequent manual operations or bus transfers once sufficient loads have been stripped to assure that the 20 MVA auto-transformer will not be overloaded by these manual actions.

References

- (1) UFSAR Section 8.2.1
- (2) UFSAR Section 8.2.3



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO.196 TO FACILITY OPERATING LICENSE NO. DPR-26

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

DOCKET NO. 50-247

1.0 INTRODUCTION

By letter dated July 8, 1994, as supplemented August 13, 1996, and February 12, 1998, the Consolidated Edison Company of New York (the licensee) submitted a request for changes to the Indian Point Nuclear Generating Unit No. 2 (IP2) Technical Specifications (TSs). The requested changes would clarify the IP2 electrical power availability requirements, add an action statement to address the situation where only one 138 kV line to the Buchanan switchyard is available, and add an action statement to preclude removing Component Cooling Pump 22 from service if either Emergency Diesel Generator 21 or 23 is out of service. The August 13, 1996, and February 12, 1998, letters provided clarifying information that did not change the initial proposed no significant hazards consideration determination.

2.0 PROPOSED CHANGES

The licensee has proposed to make the following changes to Section 3.7 of the IP2 TS, which are related to the electrical power system:

2.1 CHANGE 1

Section 3.7.A of the IP2 TS presently states, in part, that:

The reactor shall not be made critical without:

1. two 138 kV lines to Buchanan fully operational,
2. the 6.9 kV buses 5 and 6 energized from the 138 kV source,
3. one 13.8 kV source fully operational and the 13.8/6.9 kV transformer available to supply 6.9 kV power.

The licensee has proposed to change Section 3.7.A, in part, to read:

The reactor shall not be made critical without:

1. at least two 138 kV lines from offsite sources to Buchanan Substation fully operational (excluding the Refuse Energy Services Company plant),
2. the 6.9 kV buses 5 and 6 energized from the 138 kV sources at Buchanan Substation through the 138/6.9 kV Station Auxiliary Transformer,

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3. one 13.8 kV source from at least one 138/13.8 kV transformer at Buchanan available and a 13.8/6.9 kV transformer available to supply 6.9 kV power.

The proposed changes to this TS section are administrative changes intended only to clarify existing requirements.

2.2 CHANGE 2

Section 3.7.B.1 of the IP2 TS presently states:

Power operations may continue for seven days if one diesel is inoperable provided the 138 kV and the 13.8 kV sources of offsite power are available and the remaining diesel generators and the engineered safety features associated with these diesel generators buses are operable. If the diesel generator became inoperable due to any cause other than planned maintenance or testing, the remaining diesel generators shall be tested to ensure operability.

The licensee has proposed to change Section 3.7.B.1 to read:

Power operation may continue for seven days provided the 138 kV and the 13.8 kV sources of offsite power are available in compliance with 3.7.A with any combination of or all of the following inoperable.

- a. One diesel generator unavailable provided the remaining diesel generators with their associated fuel oil systems and the required engineered safety features associated with these diesel generators buses are operable,
- b. One diesel generator fuel oil system unavailable. This system consists of a fuel oil storage tank with 6,334 gallons of fuel available, a fuel oil transfer pump and associated piping, valves and instrumentation, or
- c. One diesel fuel oil supply header unavailable.

If a diesel generator becomes inoperable due to any cause other than planned maintenance or testing, the remaining diesel generators shall be tested to ensure operability.

The proposed changes to this TS section, that relate to the unavailability of one diesel generator, are administrative changes intended only to clarify existing requirements. In addition to making clarifying administrative changes, the licensee has proposed to add subsections 3.7.B.1.b and c which specifically address the situation where one fuel oil system or one fuel oil supply header is unavailable.

2.3 CHANGE 3

The licensee has proposed to reword TSs 3.7.A.5, 3.7.D.1.e and 3.7.D.2.f as follows to reflect the fuel oil inventory required to be stored in each storage tank:

Currently, TS Sections 3.7.A.5, 3.7.D.1.e and 3.7.D.2.f state:

"Three diesel generators operable with on-site supply of 19,000 gallons of fuel available in the individual storage tanks and 29,000 gallons of fuel available at the Buchanan Substation, or on-site other than the normal supply tanks."

The licensee proposed to reword these TS sections as follow to reflect the fuel oil inventory required to be stored in each storage tank:

"Three diesel generators operable with a minimum on-site supply of 6,334 gallons of fuel available in each of the individual storage tanks and 29,000 gallons of fuel available at the Buchanan Substation, or on-site other than the normal supply tanks."

The above proposed changes to the TS have no effects on the total fuel oil inventory required to be stored on site prior to the reactor to be made critical or to an emergency "Black Start" of the unit. However, these proposed changes will reflect the fuel oil inventory required to be stored in each EDG fuel oil storage tank.

Based on its review of the licensee's rationale and the TS basis, the staff finds the above proposed changes to TS sections 3.7.A.5, 3.7.D.1.e and 3.7.D.2.f do not change the fuel oil storage and transfer system design or operations and do not increase the probability or consequences of an accident previously evaluated. Therefore, the staff finds them acceptable.

2.4 CHANGE 4

The licensee has proposed to add a new Section 3.7.B.2 that reads:

Power operations may continue for 72 hours provided the 138 kV power source from Buchanan Substation is supplying 6.9 kV buses 5 and 6 through the 138/6.9 kV Station Auxiliary Transformer and the three diesel generators are operating with either of the following:

- a. Only one 138 kV line from an offsite source to Buchanan Substation is operable (excluding the Refuse Energy Services Company plant).
- b. The 13.8 kV source of offsite power is not available from a 138/13.8 kV transformer at Buchanan Substation, but is available from a gas turbine.

This operation may be extended beyond 72 hours provided the limiting condition is reported to the NRC within the subsequent 24-hour period with an outline of the plans for restoration of an offsite 138 kV supply line or re-establishing a 138/13.8 kV supply to Buchanan Substation for the 13.8/6.9 kV supply to buses 5 and 6.

This proposed addition to the IP2 TS addresses the licensee's operating and reporting requirements when only one 138 kV line from an offsite source to Buchanan Substation is

operable (excluding the Refuse Energy Services Company plant), or when the 13.8 kV source of offsite power is not available from a 138/13.8 kV transformer at Buchanan Substation, but is available from a gas turbine. This proposed addition to the IP2 TS allows the licensee's to extend the length of time that it may continue to operate under the conditions specified, from 24 hours (contained in TS 3.7.B.2) to 72 hours, before reporting to the NRC that it is operating under degraded conditions.

2.5 CHANGE 5

Section 3.7.B.2 of the IP2 TS presently states:

Power operations may continue for 24 hours, if the 138 kV or the 13.8 kV source of power is lost, provided the three diesel generators are operable. This operation may be extended beyond 24 hours provided the failure is reported to the NRC within the subsequent 24-hour period with an outline of the plans for restoration of offsite power.

The licensee has proposed to renumber this Section as 3.7.B.3 and change it to read:

Power operations may continue for 24 hours, if the entire 138 kV or the entire 13.8 kV source of power is lost, provided the three diesel generators are operable. This operation may be extended beyond 24 hours provided the failure is reported to the NRC within the subsequent 24-hour period with an outline of the plans for restoration of offsite power.

This proposed change limits the licensee's 24-hour reporting requirement to only those situations where either the entire 138 kV or the entire 13.8 kV source of power is lost. The proposed new 72-hour reporting requirement contained in proposed TS 3.7.B.2 will cover all the conditions that were previously covered by this TS section but that are no longer covered by the proposed change to this TS section.

2.6 CHANGE 6

Section 3.7.B.3 of the IP2 TS presently states:

If the 138 kV power source is lost, in addition to satisfying the requirements of Specification 3.7.B.2 above, the 6.9 kV bus tie breaker control switches 1-5, 2-5, 3-6, and 4-6 in the CCR shall be placed in the "pull-out" position and tagged to prevent an automatic transfer of the 6.9 kV buses 1, 2, 3, and 4.

The licensee has proposed to renumber this section as 3.7.B.4 and change it to read:

When 6.9 kV buses 5 and 6 are supplied through a 13.8/6.9 kV transformer, in addition to satisfying the requirements of Specification 3.7.B.3 above, the 6.9 kV bus tie breaker control switches 1-5, 2-5, 3-6, and 4-6 in the CCR shall be placed in the "pull-out" position and tagged to prevent an automatic transfer of the 6.9 kV buses 1, 2, 3, and 4.

The proposed changes to this TS section are administrative changes intended only to clarify existing requirements.

2.7 CHANGE 7

The licensee has proposed to renumber Section 3.7.B.4 to Section 3.7.B.5.

2.8 CHANGE 8

The licensee has proposed to renumber Section 3.7.B.5 to Section 3.7.B.6.

2.9 CHANGE 9

The licensee has proposed to substitute the name "Refuse Energy Services Company" for the name "Peekskill Refuse Plant" in TS 3.7.D.2.b.

2.10 CHANGE 10

The licensee has proposed several changes to the Basis section for TS 3.7 in order to clarify the capabilities of the offsite power system and to reflect the renumbering of several sections of TS 3.7.

2.11 CHANGE 11

The licensee has proposed to add an action statement to TS 3.3.E which would preclude removing Component Cooling Pump 22 from service if either Emergency Diesel Generator (EDG) 21 or 23 is out of service.

3.0 EVALUATION

The licensee has proposed a change to TS 3.3.E and several changes to TS 3.7 that are administrative changes intended only to clarify existing requirements related to the electrical power system. Because these changes are administrative and do not change existing requirements, and because these changes clarify the electrical power system TS, they are acceptable. In TS 3.3.E the licensee proposed to add a requirement to the action statement that would preclude removing component cooling water pump 22 from service if either EDG 21 or 23 is out of service. This requirement is being proposed to prevent over loading of either EDG. In TS 3.7.A, the licensee has proposed changes which clarify that there are more than two sources of 138 kV power available to the Buchanan Substation and that any two of these power sources, except for the Refuse Energy Services Company plant, may be used to satisfy TS 3.7.A. In TS 3.7.A, the licensee has also proposed clarifying changes which describe how power is transmitted from the Buchanan Substation to the 6.9 kV buses 5 and 6. In TS 3.7.B.1, the licensee has proposed changes to clarify existing requirements for continued power operation of IP2 when one diesel generator is inoperable and to address continued power operation of IP2 when one diesel generator fuel oil system is unavailable or when one diesel fuel oil supply header is unavailable. The licensee has also proposed clarifying changes for TS 3.7.A.5, TS 3.7.B.3, TS 3.7.D.1.e, TS 3.7.D.2.b, TS 3.7.D.2.f and the Bases section for TS 3.7. Each of these proposed changes has been reviewed by the staff and found to be acceptable.

In addition to clarifying changes, the licensee has proposed two substantive changes: (1) the licensee has proposed adding a new TS 3.7.B.2 which will allow it to continue power operation of IP2 for up to 72 hours before reporting to NRC that it has lost either one required 138 kV power source or one required 13.8 kV power source; and (2) the licensee has proposed to limit the applicability of the present TS 3.7.B.2, which allows the licensee to continue power operation of

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 or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 CONCLUSION

The Commission 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

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Date: May 8, 1998