



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 191
TO FACILITY OPERATING LICENSE NO. DPR-16
GPU NUCLEAR CORPORATION AND
JERSEY CENTRAL POWER & LIGHT COMPANY
OYSTER CREEK NUCLEAR GENERATING STATION
DOCKET NO. 50-219

1.0 INTRODUCTION

By letter dated November 12, 1996, as supplemented November 27, 1996, the GPU Nuclear Corporation (GPU or the licensee) requested an amendment to the Technical Specifications (TS) appended to Facility Operating License No. DPR-16 for Oyster Creek Nuclear Generating Station (OCNGS). The proposed amendment would change the TS to reflect the implementation of the revised 10 CFR Part 20, "Standards for Protection Against Radiation."

2.0 EVALUATION

The licensee has proposed to revise the TS to include wording that is consistent with the revised 10 CFR Part 20, Standards for Protection Against Radiation, and will retain the same overall level of effluent control required to meet the design objectives of Appendix I to 10 CFR Part 50.

The proposed TS changes and evaluations follow:

1. Definition 1.36 OFFSITE DOSE CALCULATION MANUAL

The licensee has proposed to change the referenced section designation to "6.8.4." The change is editorial in nature and is acceptable.

2. Definition 1.38 EXCLUSION AREA

The licensee has proposed to add the words "UNRESTRICTED AREA" to define the area outside the Exclusion Area. The change is consistent with other parts of the Oyster Creek TS. The change is administrative in nature and is acceptable.

3. Table 3.1.1

The licensee has proposed to change the trip setting for the "High Radiation In Offgas Line" from " $\leq 2.1/E$ Ci/sec" to " $\leq 2,000$ mRem/hr." The new setpoint is based on the 10 CFR 20.1301(a)(1) dose limit. The setpoint takes into consideration the reduction in release rate afforded by operation of the Augmented Offgas System based on its historical operating record, historical offgas composition, and site-specific meteorological data. The radiation monitors are not used to monitor effluent releases to the environment. The change will not cause an increase in radioactive material released into the environment and is consistent with 10 CFR Part 20. The proposed change is acceptable.

4. Table 3.1.1

The licensee has proposed to change "Note e" of this table to reflect the Steam Jet Air Ejector offgas radiation monitor setpoint as discussed in item 3 above. The change is administrative in nature and is acceptable.

5. BASES for TS 3.6.C

The licensee has proposed to change the 10 CFR Part 20 reference to "Appendix B, Table 2, Column 2 to 10 CFR 20.1001-20.2402." The change is consistent with the revised 10 CFR Part 20 and is acceptable.

6. BASES for TS 3.6.E

The licensee has proposed to change the description of this BASES to discuss the following three items:

1. That the offgas system performance includes augmented offgas (AOG) system operation which results in effective holdup time of much greater than 30 minutes.
2. The release rate of 0.3 Ci/sec is no longer applicable since credit is taken for historical offgas composition, use of AOG system, and the new 10 CFR 20.1301(a)(1) dose limit.
3. The whole body radiation dose of 0.1 rem per year reflects the new 10 CFR 20.1301(a)(1) dose limit.

The changes are consistent with the revised 10 CFR Part 20 and are acceptable.

7. BASES for TS 3.6.E

The description is being revised to describe the revised steam jet air ejector offgas radiation monitor setpoint discussed in item 3 above.

The change is administrative in nature and is acceptable.

8. TS 4.6

The licensee has proposed to correct a grammatical error and revise the reference to 10 CFR Part 20.

The changes are administrative in nature and are acceptable.

9. TS 6.8.4.a.2

The licensee has proposed to revise the 10 CFR Part 20 reference to "Appendix B, Table 2, Column 2 to 10 CFR 20.1001-20.2402."

The change is administrative in nature and is acceptable.

10. TS 6.8.4.a.7

The licensee has proposed to change this TS which specifies the limitations on the concentrations of radioactive material released in gaseous effluents to read as follows:

Limitations on the dose rate resulting from radioactive materials released in gaseous effluents from the site to the UNRESTRICTED AREA shall be limited to the following:

- a. For noble gases: Less than or equal to a dose rate of 500 mRems/yr to the total body and less than or equal to a dose rate of 3000 mRems/yr to the skin, and
- b. For iodine-131, iodine-133, tritium, and for all radionuclides in particulate form with half-lives [greater] than 8 days: Less than or equal to a dose rate of 1500 mRems/yr to any organ.

This specification provides reasonable assurances that radioactive material discharged in gaseous effluents will not result in the exposure of a member of the public in an unrestricted area in excess of the design objectives of Appendix I to 10 CFR Part 50. The specification is provided to ensure that gaseous effluents from the site will be appropriately controlled. It provides operational flexibility for releasing gaseous effluents to satisfy the design objectives of Section II.A and II.C of Appendix I to 10 CFR Part 50. The specified release rate limit restricts, at all times, the corresponding dose rates above background to a member of the public in an unrestricted area to less than or equal to 500 mRems/yr to the total body or to less than or equal to 3000 mRems/yr to the skin. These release rate limits also restrict, at all times, the corresponding thyroid dose rate above background to a child via the inhalation pathway to less than or equal to 1500 mRems/yr. The specification does not affect the licensee's requirement to comply with the dose limits in 10 CFR 20.1301(a).

Based on the above, the specification, which is based on guidance contained in NUREG-0133, is acceptable as a TS limit for gaseous effluents.

11. TS 6.8.4.a.8, 6.8.4.a.2, 6.8.4.a.4, and 6.8.4.a.7

The licensee has proposed to change the words "beyond the EXCLUSION AREA boundary" and "UNRESTRICTED AREAS" with the words "the UNRESTRICTED AREA."

The change is administrative in nature and is acceptable.

12. TS 6.9.1.b

The licensee has proposed to change this specification which requires that a report be submitted annually which includes a tabulation of individuals receiving exposures greater than 100 mRem/yr and their associated person-rem exposure according to work and job functions. The proposed change will clarify that the individuals monitored in accordance with 10 CFR 20.1502 will be included in the tabulated annual report.

The change is consistent with the revised 10 CFR Part 20 and is acceptable.

13. TS 3.6, 6.8.a.3, 6.9.1.b, and 6.13.1

The licensee has proposed to change the 10 CFR Part 20 section references to the corresponding revised 10 CFR Part 20 section references.

The changes are administrative in nature and are acceptable.

14. TS 6.10.g and 6.10.2.o

The licensee has proposed to relocate the requirement to retain records of radioactive shipments from TS 6.10.g to TS 6.10.2.o. TS 6.10.2.o requires that records be kept for the duration of the operating license.

The change is consistent with the revised 10 CFR Part 20 and is acceptable.

15. TS 6.10.2.d

The licensee has proposed to change this specification to require retention of dose records, for the duration of the operating license, only for those individuals for whom monitoring was required.

The change is consistent with the revised 10 CFR Part 20 and is acceptable.

16. TS 6.13.1 and 6.13.2

The licensee has proposed to change this specification related to high radiation areas to provide wording and measurement distances consistent with the definition of a high radiation area in 10 CFR 20.1003 and to identify the maximum doses associated with a high radiation area.

The proposed changes are consistent with the revised 10 CFR Part 20 and are acceptable.

17. Typographical Corrections

In a discussion with the staff by telephone on April 15, 1997, the licensee requested that the following typographical errors be corrected on the TS pages:

TS page 3.1-12: "Mr" to "mR" in Table 3.1.1, item J.
TS page 6-11: "grater" to "greater" in TS 6.8.4.a.7.b.
Bases page 3.6-5 "mem" to "mrem" in 3.6.C.

These are simply typographical changes and the text has been corrected.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New Jersey State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment and finding of no significant impact was published in the *Federal Register* on May 7, 1997 (62 FR 24983).

Accordingly, based upon the environmental assessment, the Commission has determined that issuance of this amendment will not have a significant effect on the quality of the human environment.

5.0 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.

Principal Contributor: S. Klementowicz

Date: May 8, 1997