



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-295

ZION STATION UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 78
License No. DPR-39

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated June 17, 1982, as supplemented by letter dated September 6, 1982, 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.

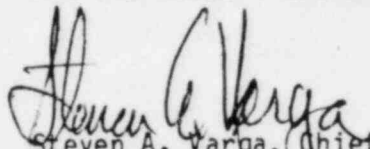
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-39 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 7^B, 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.

FOR THE NUCLEAR REGULATORY COMMISSION



Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 30, 1982



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-304

ZION STATION UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 68
License No. DPR-48

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated June 17, 1982, as supplemented by letter dated September 6, 1982, 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.

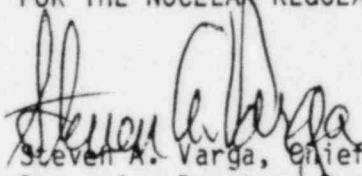
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-48 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 68, 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.

FOR THE NUCLEAR REGULATORY COMMISSION


Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 30, 1982

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 78 TO FACILITY OPERATING LICENSE NO. DPR-39

AMENDMENT NO. 68 TO FACILITY OPERATING LICENSE NO. DPR-48

DOCKET NOS. 50-295 AND 50-304

Revise Appendix A as follows:

Remove Pages

234

Insert Pages

234

LIMITING CONDITION FOR OPERATION

SURVEILLANCE REQUIREMENT

3.12.1.C.4

Flow rates shall be determined for each ventilation alignment used and a log shall be kept of the lineups. For effluent streams without continuous monitoring capability, the activity and release volume shall be monitored and recorded.

2. Radioactive gaseous wastes collected in the gas decay tanks shall be heldup a minimum of 45 days, except for the following conditions:

A. Should operating conditions require release of a gas decay tank, the tank containing the least activity may be released if the resulting radioisotope concentration at the site boundary is less than or equal to 1% of the level specified in 10CFR20 Appendix B, Table 2.

3. Prior to purging, the containment atmosphere shall be filtered through the high efficiency particulate air filters and charcoal absorbers until concentrations of airborne radioactive particulates and radioactive Iodines less than 10 CFR, Part 20, Appendix B, Table 1 are achieved.

4.12.1.C.

2. The waste gas holdup tank effluent monitor shall be tested (using the installed check source) prior to any release of radioactive gas from a holdup tank. Calibration of monitors shall consist of an initial electronic calibration. The electronic calibration shall be verified every six months using at least two known sources of radioactivity. The monitors shall be checked daily using the installed check sources.

3. The containment atmosphere shall be sampled and the concentrations of airborne radioactive particulates and radioactive Iodines determined prior to purging the containment.

Amendment Nos. 78 & 68



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 78 TO FACILITY OPERATING LICENSE NO. DPR-39
AND AMENDMENT NO. 68 TO FACILITY OPERATING LICENSE NO. DPR-48

COMMONWEALTH EDISON COMPANY

ZION STATION, UNITS 1 AND 2

DOCKET NOS. 50-295 AND 50-304

Introduction

By letter dated June 17, 1982, Commonwealth Edison Company (CECo) proposed an amendment to Technical Specification 3.12.1.C.4.2 to delete the 45-day hold-up requirement for radioactive gaseous wastes. Following discussions between NRC staff and CECo staff, a revised proposed amendment was submitted, by letter dated September 6, 1982, which retains the 45-day hold-up technical specification requirement but which revises the existing exceptions to the requirement.

Discussion

Current Technical Specification 3.12.1.C.4.2 requires that gases collected in the gas decay tank be held for 45-days except (1) for gaseous wastes resulting from purge and fill operations associated with refueling and reactor startup, and (2) when one of the six gas decay tanks is out of service; a tank can then be released if the radioactive concentrations in the tank are less than or equal to 1% of the concentrations specified in 10 CFR 20 Appendix B, Table 2.

The current technical specification exception, which allows release of gaseous wastes resulting from purge and fill operations associated with refueling and reactor startup, does not necessarily minimize radioactive releases since tanks which are filled during purge and fill operations may contain greater radioactive concentrations than tanks previously isolated but held for less than 45-days. This exception does not permit release of a tank containing lower radioactive concentrations if the gas did not result from purge and fill operations or if the tank has not been held for 45-days.

The second exception is not practical because tank concentrations normally exceed 1% of Table 2 concentrations. It is also unnecessarily restrictive since it does not incorporate dilution of the gaseous concentrations between the release point and the site boundary.

The proposed amendment to Technical Specification 3.12.1.C.4.2 replaces the two current exceptions to the 45-day hold-up requirement with a single exception. This exception would allow release, when operational conditions require, of the gas decay tank containing the least radioactivity, if the resulting radioactive concentrations at the site boundary are less than or equal to 1% of the level specified in 10 CFR 20 Appendix B, Table 2. This site boundary concentration satisfies the ALARA criterion in Appendix I of 10 CFR 50. The current Technical Specifications does not always permit the release of the tank containing the least radioactivity.

Evaluation

We have determined that the proposed Technical Specification, as modified, meets the ALARA criterion of Appendix I to 10 CFR 50. The proposed amendment continues to provide flexibility of operation and does not alter the intent of the Technical Specification. We therefore find the proposed change to the Technical Specification acceptable.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR 51.5(d)(4), that an environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that (1) because the amendment does not involve a significant increase in the probability or consequences of an accident previously evaluated, does not create the possibility of an accident of a type different from any evaluated previously, and does not involve a significant reduction in a margin of safety, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) 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.

Dated: November 30, 1982

The following NRC personnel have contributed to this Safety Evaluation:

D. E. Miller