



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 92 AND 82 TO

FACILITY OPERATING LICENSE NOS. NPF-10 AND NPF-15

SOUTHERN CALIFORNIA EDISON COMPANY

SAN DIEGO GAS AND ELECTRIC COMPANY

THE CITY OF RIVERSIDE, CALIFORNIA

THE CITY OF ANAHEIM, CALIFORNIA

SAN ONOFRE NUCLEAR GENERATING STATION, UNIT NOS. 2 AND 3

DOCKET NOS. 50-361 AND 50-362

1.0 INTRODUCTION

By letter dated November 14, 1990, Southern California Edison Company, et al. (SCE or the licensee) requested changes to the Technical Specifications (TS) for Facility Operating License Nos. NPF-10 and NPF-15 that authorize operation of San Onofre Nuclear Generating Station, Unit Nos. 2 and 3 in San Diego County, California.

This amendment application is a request to modify TS 3/4.7.2 regarding the minimum pressurization temperature for the San Onofre Unit No. 3 steam generators from 70°F to 90°F based on a vendor recommendation to change the reference nil ductility transition temperature. Additionally, the San Onofre Unit Nos. 2 and 3 TS 3/4.7.2 would be clarified to indicate that the pressure/temperature limitation pertains only to the steam generator secondary side. Both San Onofre Unit Nos. 2 and 3 bases would be revised to include a change to the reference temperature for the nil ductility transition.

2.0 EVALUATION

During an engineering review, the licensee discovered a discrepancy regarding the reference temperature for nil ductility transition (RT<sub>NDT</sub>) for the San Onofre Unit 3 steam generators. This discrepancy was based on an evaluation of the limiting secondary side material properties used in the fabrication of the steam generators for each unit. The licensee documented this issue in Licensee Event Report 90-009 and proceeded to administratively control the San Onofre Unit 3 steam generator pressure/temperature limitation, utilizing a more conservative value.

This required administratively raising the minimum pressurization temperature when steam generator secondary pressure is greater than or equal to 200 psig from 70°F to 90°F for San Onofre Unit 3. This is based upon the guidelines specified in the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section III, Division 1, Subsection NC 2332 D ( $RT_{NDT} + 30^\circ F$ ). The ASME Code requires a more restrictive steam generator temperature limitation of a 30°F margin between the  $RT_{NDT}$  and the lowest service temperature. The  $RT_{NDT}$  for San Onofre Unit 3 was determined to be 60°F; hence the minimum pressurization temperature should be 90°F. A similar administrative control was not necessary for San Onofre Unit 2.

The licensee proposed to modify the San Onofre Unit 3 TS 3/4.7.2, "Steam Generator Pressure/Temperature Limitation," and modify the appropriate Bases section to reflect a 90°F value for the limiting condition for operation (as opposed to a 70°F value) and a 60°F  $RT_{NDT}$  value (as opposed to a 30°F value) in the Bases section. This is a more conservative value than what is currently in the Technical Specifications and is being administratively controlled at these values in the interim. While the San Onofre Unit 2 TS limiting condition for operation is not affected, the appropriate Bases section should reflect a revised value of  $RT_{NDT}$  from 30°F to 40°F. This, too, is a more conservative value. The staff agrees that these changes are more conservative and appropriate for the San Onofre Units 2 and 3 TS 3/4.7.2.

Moreover, the licensee proposed to make editorial changes to both San Onofre Units 2 and 3 TS 3/4.7.2 and the Bases section. Since TS 3/4.4.8 is applicable to the primary side of the steam generators, the licensee requests that TS 3/4.7.2 be modified to reflect the secondary side of the steam generators. The staff agrees that this change is editorial in nature and is more correct than what is currently stated.

Therefore, based upon the licensee's letter dated November 14, 1990, and the information presented herein, the proposed modifications to the San Onofre Nuclear Generating Station, Unit Nos. 2 and 3, Technical Specifications are acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

The amendments involve changes with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20, or changes a surveillance requirement. 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 radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendments meet 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 these amendments.

#### 4.0 CONCLUSION

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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Lawrence E. Kokajko

Dated: February 11, 1991