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DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards application for amends to Licenses NPR-10 & NPF-15, revising Tech Specs re core protection calculator addressable constants & power distribution limits axial shape index.
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October 1, 1984

Director, Office of Nuclear Reactor Regulation
Attention: Mr. H. R. Denton
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
San Onofre Nuclear Generating Station
Units 2 and 3

Enclosed are three executed and forty conformed copies of Amendment Application No. 29 to Facility Operating License NPF-10 and Amendment Application No. 15 to Facility Operating License NPF-15 for San Onofre Nuclear Generating Station (SONGS) Units 2 and 3, respectively.

Amendment Application No. 29 for Unit 2 consists of the following proposed changes:

1. Proposed Change NPF-10-148 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS. The proposed change reflects the addition of addressable constant PCALIB to the Core Protection Calculator core power bias algorithm.

2. Proposed Change NPF-10-150 is a request to revise Technical Specification 3.2.7, POWER DISTRIBUTION LIMITS - AXIAL SHAPE INDEX, to reestablish Axial Shape Index boundaries in accordance with the ground rules assumed for the Unit 2 Cycle 2 safety analysis.

3. Proposed Change NPF-10-151 is a request to revise Technical Specification 3.1.3.6, REACTIVITY CONTROL SYSTEMS - REGULATING CEA INSERTION LIMITS, to reestablish, in accordance with the ground rules assumed for the Unit 2 Cycle 2 safety analysis, the Transient Insertion Limit and the Short Term Steady State Insertion Limit specified by Figure 3.1-2, CEA INSERTION LIMITS VS FRACTION OF ALLOWABLE THERMAL POWER.

4. Proposed Change NPF-10-152 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS. The proposed change adds addressable constant RPCLIM, the reactor power cutback time limit. Although neither Unit 2 nor Unit 3 will utilize the reactor power cutback algorithm, addressable constant RPCLIM is included in the standard Combustion Engineering Core Protection Calculator software package which will be installed for Unit 2 Cycle 2.

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5. Proposed Change NPF-10-153 is a request to revise Technical Specification 3.1.1.3, REACTIVITY CONTROL SYSTEMS - MODERATOR TEMPERATURE COEFFICIENT, to establish power dependent Moderator Temperature Coefficient limits in accordance with the ground rules assumed for the Unit 2 Cycle 2 safety analysis.

6. Proposed Change NPF-10-160 is a request to revise Technical Specifications (TS) 2.1.1.1, SAFETY LIMITS - REACTOR CORE - DNBR, and 2.2.1, LIMITING SAFETY SYSTEM SETTINGS - REACTOR TRIP SETPOINTS, and TS Bases 2.2.1, REACTOR TRIP SETPOINTS, and 3/4.4.1, REACTOR COOLANT LOOPS AND COOLANT CIRCULATION, to reflect an increase in the minimum Departure from Nucleate Boiling Ratio from 1.20 to 1.31 resulting from revised Core Protection Calculator methodology and core design for Unit 2 Cycle 2.

7. Proposed Change NPF-10-162 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS. The proposed change deletes addressable constant CORR1, and adds addressable constant TCREF, the reference cold leg temperature, to reflect changes in the Core Protection Calculator Temperature Shadowing Factor algorithm being implemented for Unit 2 Cycle 2.

8. Proposed Change NPF-10-164 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS, to reflect a decrease in the minimum allowable value of addressable constant TR, the azimuthal tilt allowance, from 1.02 to 1.00 resulting from Core Operating Limit Supervisory System azimuthal tilt algorithm modifications for Unit 2 Cycle 2.

9. Proposed Change NPF-10-168 is a request to revise Technical Specification (TS) 3/4.10.4, SPECIAL TEST EXCEPTIONS - CENTER CEA MISALIGNMENT, to accommodate physics tests to determine the isothermal temperature coefficient, moderator temperature coefficient, and power coefficient.

10. Proposed Change NPF-10-169 is a request to revise Technical Specification 5.3.1, DESIGN FEATURES - REACTOR CORE - FUEL ASSEMBLIES, to increase the maximum total weight of uranium in each fuel rod from 1807 grams to 1900 grams to allow possible as-built variations or fuel density changes in the fuel rods used for Cycle 2 and future cycles.

Amendment Application No. 15 for Unit 3 consists of the following proposed changes:

1. Proposed Change NPF-15-148 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS. The proposed change reflects the addition of addressable constant PCALIB to the Core Protection Calculator core power bias algorithm.

2. Proposed Change NPF-15-150 is a request to revise Technical Specification 3.2.7, POWER DISTRIBUTION LIMITS - AXIAL SHAPE INDEX, to reestablish Axial Shape Index boundaries in accordance with the ground rules assumed for the Unit 3 Cycle 2 safety analysis.

3. Proposed Change NPF-15-151 is a request to revise Technical Specification 3.1.3.6, REACTIVITY CONTROL SYSTEMS - REGULATING CEA INSERTION LIMITS, to reestablish, in accordance with the ground rules assumed for the Unit 3 Cycle 2 safety analysis, the Transient Insertion Limit and the Short Term Steady State Insertion Limit specified by Figure 3.1-2, CEA INSERTION LIMITS VS FRACTION OF ALLOWABLE THERMAL POWER.

4. Proposed Change NPF-15-152 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS. The proposed change adds addressable constant RPCLIM, the reactor power cutback time limit. Although neither Unit 2 nor Unit 3 will utilize the reactor power cutback algorithm, addressable constant RPCLIM is included in the standard Combustion Engineering Core Protection Calculator software package which will be installed for Unit 3 Cycle 2.

5. Proposed Change NPF-15-153 is a request to revise Technical Specification 3.1.1.3, REACTIVITY CONTROL SYSTEMS - MODERATOR TEMPERATURE COEFFICIENT, to establish power dependent Moderator Temperature Coefficient limits in accordance with the ground rules assumed for the Unit 3 Cycle 2 safety analysis.

6. Proposed Change NPF-15-160 is a request to revise Technical Specifications (TS) 2.1.1.1, SAFETY LIMITS - REACTOR CORE - DNBR, and 2.2.1, LIMITING SAFETY SYSTEM SETTINGS - REACTOR TRIP SETPOINTS, and TS Bases 2.2.1, REACTOR TRIP SETPOINTS, and 3/4.4.1, REACTOR COOLANT LOOPS AND COOLANT CIRCULATION, to reflect an increase in the minimum Departure from Nucleate Boiling Ratio from 1.20 to 1.31 resulting from revised Core Protection Calculator methodology and core design for Unit 3 Cycle 2.

7. Proposed Change NPF-15-162 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS. The proposed change deletes addressable constant CORR1, the and adds addressable constant TCREF, the reference cold leg temperature, to reflect changes in the Core Protection Calculator Temperature Shadowing Factor algorithm being implemented for Unit 3 Cycle 2.

8. Proposed Change NPF-15-164 is a request to revise Technical Specification 2.2.2, Table 2.2-2, CORE PROTECTION CALCULATOR ADDRESSABLE CONSTANTS, to reflect a decrease in the minimum allowable value of addressable constant TR, the azimuthal tilt allowance, from 1.02 to 1.00 resulting from Core Operating Limit Supervisory System azimuthal tilt algorithm modifications for Unit 3 Cycle 2.

9. Proposed Change NPF-15-168 is a request to revise Technical Specification (TS) 3/4.10.4, SPECIAL TEST EXCEPTIONS - CENTER CEA MISALIGNMENT, to accommodate physics tests to determine the isothermal temperature coefficient, moderator temperature coefficient, and power coefficient.

10. Proposed Change NPF-15-169 is a request to revise Technical Specification 5.3.1, DESIGN FEATURES - REACTOR CORE - FUEL ASSEMBLIES, to increase the maximum total weight of uranium in each fuel rod from 1807 grams to 1900 grams to allow possible as-built variations or fuel density changes in the fuel rods used for Cycle 2 and future cycles for both Units 2 and 3.

Direct distribution of Amendment Application No. 29 to Facility Operating License NPF-10 and Amendment Application No. 15 to Facility Operating License NPF-15 will be made in accordance with the service list provided in SCE's October 7, 1983 letter to the Commission.

Pursuant to 10 CFR 170.12, an amendment application fee of $150.00 is required for each license amendment request. The above described Proposed Changes to Facility Operating Licenses NPF-10 and NPF-15 for SONGS Units 2 and 3, respectively, are considered collectively to constitute a license amendment request. Therefore, the required $150.00 amendment application fee is hereby remitted.

If you have any questions or comments regarding these license amendment requests, please call me.

Very truly yours,

Kenneth P Baskin

Enclosure

cc: H. Rood, NRC (to be opened by addressee only)
J. O. Ward, California Department of Health Services
A. E. Chaffee, NRC Resident Inspector