

FACILITY: San Onfre Nuclear Generating Station, Unit 1

SUBJECT: SUMMARY OF MEETING HELD ON MARCH 9, 1994, TO DISCUSS THE PROPOSED DECOMMISSIONING PLAN FOR SAN ONOFRE UNIT 1

On March 9, 1994, NRC staff members met at Rockville, Maryland, with employees of Southern California Edison (SCE or the licensee) to discuss the proposed decommissioning plan for the San Onofre Nuclear Generating Station, Unit 1 (SONGS 1). A list of attendees is included as Enclosure 1. The handout used by SCE at the meeting is included as Enclosure 2.

The required submittal date for the proposed decommissioning plan is November 30, 1994, two years from the time of final shutdown. The licensee indicated that the proposed decommissioning plan refers to the period during which the spent fuel remains in the Unit 1 spent fuel pool as Phase I of the SAFSTOR period. The period following the anticipated transfer of the fuel from the Unit 1 spent fuel pool in approximately 1998 is referred to as Phase II. The proposed decommissioning plan anticipates that SONGS 1 will be maintained in SAFSTOR until 2013, when it will be dismantled concurrently with the collocated San Onofre Nuclear Generating Station, Units 2 and 3.

In its presentation, the licensee provided an item-by-item discussion of each of the topics contained in the "Decommissioning Plan Highlights/Contents" portion of Enclosure 2. The meeting provided an effective forum for the staff to provide to the licensee feedback and clarifications of staff expectations for the decommissioning plan. The staff indicated that it would provide to the licensee information regarding radiological site characterization for multi-plant sites.

Original signed by:

Michael K. Webb, Acting Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Operating Reactor Support
Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc w/enclosures:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 14, 1994

Docket No. 50-206

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As stated

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San Onofre Nuclear Generating
Station, Unit 1
Docket No. 50-206

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SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 1

PROPOSED DECOMMISSIONING PLAN MEETING

MARCH 9, 1994

ATTENDEES

<u>NAME</u>	<u>ORGANIZATION</u>
Tony Llorens	SCE
Jose Perez	SCE
Valerie Hubbard	Winston & Straun
Larry Bell	NRC/NMSS
Stewart Brown	NRC/NMSS
Michael Masnik	NRC/NRR
Michael Webb	NRC/NRR

**SAN ONOFRE
NUCLEAR GENERATING STATION
UNIT 1**

PROPOSED DECOMMISSIONING PLAN

MARCH 9, 1994

OVERVIEW

- Status of Plant
- Status of Decommissioning Plan
- Decommissioning Plan Highlights/Contents
- Environmental Report
- Other Licensing Issues

STATUS OF THE PLANT

- Plant equipment is lined up for SAFSTOR configuration
- Sold Dedicated Safe Shutdown Diesel
- Soliciting bids for Emergency Diesels
- PDTS implemented February 14, 1994
- Revised Emergency Plan in effect March 1, 1994

STATUS OF DECOMMISSIONING PLAN

- First draft developed
- Review and comment cycle underway
- Due to the NRC by November 30, 1994
- Focuses on transition and maintaining plant in SAFSTOR

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

1.0 OVERVIEW

1.1 Background

1.1.1 Introduction

1.1.2 Site Description

1.1.2.1 Topography

1.1.2.2 Geology and Seismology

1.1.2.3 Meteorology and Climatology

1.1.2.4 Hydrology

1.1.2.5 Ecology

1.1.2.6 Historical and Archeological

1.1.3 Site History

1.2 Organization of the Decommissioning Plan

1.3 Facility Description

1.4 Decommissioning Plan Revision Process

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

2.0 CHOICE OF DECOMMISSIONING ALTERNATIVES

2.1 Decommissioning Alternatives

2.1.1 Alternative Selection and Justification

2.1.2 Description of Plant Shutdown

2.1.3 Description of SAFSTOR

2.1.4 Description of Deferred-DECON, Dismantling, and Site Restoration

2.2 Decommissioning Activities, Task, and Schedules

2.2.1 Plant Shutdown and Defueling

2.2.1.1 Activities and Tasks

2.2.1.2 Decontamination Required

2.2.1.3 Plant Modifications Required

2.2.1.4 Systems Required for Ultimate Dismantling

2.2.2 SAFSTOR Period

2.2.2.1 Activities and Tasks

2.2.2.2 Maintenance of Systems Required to be in Operation

2.2.2.3 Monitoring of Plant/Personnel

2.2.2.4 Long Term Spent Fuel Storage

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

2.0 CHOICE OF DECOMMISSIONING ALTERNATIVES(Con't)

2.2.3 Decontamination and Dismantling

2.2.3.1 Decontamination of Structures, Systems, and Components

2.2.3.2 Removal of Structures, Systems, and Components

2.2.3.3 Process for Control, Processing, and Disposal

2.2.4 Radiation Exposure Summary

2.3 Organization and Responsibilities

2.3.1 SAFSTOR Period

2.3.2 Dismantling Period

2.4 Training Program

2.4.1 Scope of Training

2.4.2 General Employee Training

2.4.3 Radiation Protection/Chemistry Technician Training

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

2.0 CHOICE OF DECOMMISSIONING ALTERNATIVES(Con't)

2.4.4 Operator Training

2.4.4.1 Non-Certified Operator Training

2.4.4.2 Certified Operator Training

2.4.5 Maintenance Training

2.4.6 Trainer Qualifications

2.4.7 Training Records

2.5 Contractor Assistance

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

3.0 PROTECTION OF OCCUPATIONAL HEALTH & SAFETY

3.1 Facility Radiological Status

3.1.1 Operating History

3.1.2 Current Radiological Status

3.1.3 Radionuclide Inventory

3.1.3.1 Plant Systems

3.1.3.2 Structural Feature Contamination

3.1.3.3 Spent Fuel Pool

3.1.3.4 Reactor Vessel and Internals

3.1.3.5 Plant Area Soils Contamination

3.2 Radiation Protection

3.2.1 ALARA Program

3.2.2 Radiation Protection Program

3.3 Radioactive Waste Management

3.3.1 Spent Fuel Disposition

3.3.2 Radioactive Waste Volume

3.3.3 Radioactive Waste Processing

3.3.4 Radioactive Waste Disposal

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

3.0 PROTEC. OF OCCUPATIONAL HEALTH & SAFETY (Cont)

3.4 Accident Analysis

3.4.1 SAFSTOR Accident Analysis

3.4.1.1 Loss of Offsite Power

3.4.1.2 Fuel Handling Accident

3.4.1.3 Other Applicable UFSAR Events, Natural Phenomena, Fires

3.4.2 Dismantlement Accident Analyses

3.5 Occupational Safety

3.6 Non-Radioactive Waste Management

3.6.1 Hazardous Materials

3.6.2 Non-radioactive Effluent Controls

3.6.3 Hazardous Waste Disposal

3.6.4 Salvaged/Recycled Material

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

4.0 PROPOSED FINAL RADIATION SURVEY

- 4.1 Proposed Residual Radioactivity Limits
- 4.2 Final Site Survey Plan

5.0 COST ESTIMATE

- 5.1 Decommissioning Cost Estimate
- 5.2 Cost Estimate Methodology
 - 5.2.1 Activity-Dependent Costs
 - 5.2.2 Period Dependent Costs
 - 5.2.3 Undistributed Costs
 - 5.2.4 Contingency
 - 5.2.5 Decommissioning Schedule Estimate
 - 5.2.6 Radioactive Waste Estimate
- 5.3 Decommissioning Funding
 - 5.3.1 Certificate of Financial Assurance
 - 5.3.2 Decommissioning Trust Fund

DECOMMISSIONING PLAN HIGHLIGHTS/CONTENTS

6.0 TECHNICAL/ENVIRONMENTAL SPECIFICATIONS

6.1 Permanently Defueled Technical Specifications

6.2 Environmental

6.2.1 Characteristics of the Site

6.2.2 Radioactive Effluents Control

6.2.3 Radiological Environmental Monitoring Program

6.2.2 Site Boundary Dose Control Program

7.0 QUALITY ASSURANCE PROVISIONS IN PLACE DURING DECOMMISSIONING

8.0 PHYSICAL SECURITY IN PLACE DURING DECOMMISSIONING

8.1 SAFSTOR

8.2 Dismantling

ENVIRONMENTAL REPORT

- Preparing draft
- Guidance for preparation
 - 10CFR51.53 and 51.45
 - NUREG-0586
 - Environmental Reports for Yankee, Rancho Seco and Dresden 1
- Similar to Decommissioning Plan

OTHER LICENSING

- Decommissioning Plan will provide NRC with basis for evaluating our funding and collection (10CFR50.82)
- Recordkeeping requirements
- Extension of Operating (Possession Only) License beyond 2004 expiration date.