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 FACIL: 50-275 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Gas 05000275
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 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Forwards info re work scheduled for completion of post-fuel load mods, in response to 830907 request. Info identifies principal const mods scheduled for completion after fuel load & provides justification for completing work.

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NOTES: J Hanchett 1cy PDR Documents.

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PACIFIC GAS AND ELECTRIC COMPANY

PG&E



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J. O. SCHUYLER
VICE PRESIDENT
NUCLEAR POWER GENERATION

September 10, 1983

Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

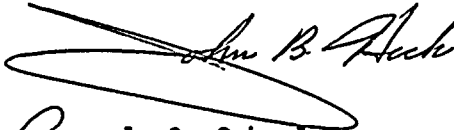
Re: Docket No. 50-275, OL-DPR-76
Diablo Canyon Unit 1
Post Fuel Load Modifications

Dear Mr. Eisenhut:

The enclosed information related to Unit 1 work scheduled for completion after fuel load is provided in response to an NRC request made at the September 7, 1983 information meeting with the NRC.

This information identifies the principal construction modifications which are scheduled to be completed after fuel load but prior to initial criticality and provides justification for completing this work after fuel load.

Sincerely,


J. O. Schuyler

Enclosure

cc: J.B. Martin, NRC
Service List

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1. The first of the three main
branches of the river is the
St. Lawrence River, which flows
from the north and joins the
main river at the city of
Montreal.

2. The second of the three main
branches is the Ottawa River,
which flows from the north and
joins the main river at the city
of Ottawa.

3. The third of the three main
branches is the Saginaw River,
which flows from the south and
joins the main river at the city
of Saginaw.

4. The fourth of the three main
branches is the Detroit River,
which flows from the south and
joins the main river at the city
of Detroit.

5. The fifth of the three main
branches is the St. Clair River,
which flows from the south and
joins the main river at the city
of St. Clair.

6. The sixth of the three main
branches is the Lake Michigan,
which flows from the south and
joins the main river at the city
of Lake Michigan.

7. The seventh of the three main
branches is the Lake Huron,
which flows from the south and
joins the main river at the city
of Lake Huron.

8. The eighth of the three main
branches is the Lake Erie,
which flows from the south and
joins the main river at the city
of Lake Erie.

9. The ninth of the three main
branches is the Lake Ontario,
which flows from the south and
joins the main river at the city
of Lake Ontario.

ENCLOSURE

Post Fuel Load Modifications

Modifications which will be made after fuel load but prior to initial criticality on the systems are listed in Attachment 1. However, no modifications will be made inside containment during the period when fuel is being loaded into the core.

During the period of the modifications (post fuel load but prior to initial criticality) the plant will be in operating modes 5 and 6. No modifications will be made to those systems or portions of systems which are required by the Technical Specifications to be functional during operating modes 5 and 6. During this period fuel will be in the core but initial criticality will not have occurred. Therefore no fission products will be present in the core.

Care will be taken to ensure that none of the modifications will adversely affect structures, systems and components required to be functional during operating modes 5 and 6.

Work crews performing work in the Unit 1 protected area will be observed and controlled by PGandE or Bechtel supervisors.

Prior to the start of post fuel load modifications in the containment, the reactor vessel head and missile shield will be in place and will assure protection of the fuel from any construction activity in the area.

With these conditions and precautions the proposed post fuel load modifications will not pose an undue risk to the health and safety of the public.



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ATTACHMENT 1

PRIMARY WORK ITEMS TO BE COMPLETED PRIOR TO INITIAL CRITICALITY

I. SYSTEM-RELATED CHANGES

System 2 - Condensate System:

- o Modify 4 pipe supports.
- o Condenser modifications and a few piping reroutes near the booster pump.

System 3 - Feedwater System:

- o Modify 33 pipe supports.
- o Replacement and adjustment of instrument and control devices.

System 4 - Turbine Steam Supply System:

- o Modify 33 pipe supports.
- o Replacement of steam generator flow transmitters.

System 5 - Extraction Steam System:

- o Piping modifications to the moisture separator reheater drain lines.

System 6 - Auxiliary Steam System:

- o Modify 4 pipe supports.
- o Installation of an additional auxiliary boiler and its associated equipment, piping, and controls.

System 7 - Reactor Coolant System:

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- o Miscellaneous pressure instrumentation calibration and adjustment.

System 8 - Chemical and Volume Control System:

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- o Modify 13 pipe supports.
- o Change out of pressure differential and flow instruments.

System 9 - Safety Injection System:

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- o Instrument calibration.
- o Reroute small pipe due to interferences.

* Portions of these systems are required for fuel load.

Attachment 1 (Cont)

System 10 - Residual Heat Removal System:

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- o Revise alarm circuits.

System 11 - NSSS Sampling:

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- o Modify 1 pipe support.
- o Changeout of solenoids.

System 12 - Containment Spray System:

- o Modify 1 pipe support.

System 13 - Spent Fuel Cooling System:

- o Modify 6 pipe supports.

System 14 - Component Cooling Water System:

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- o Modify 16 pipe supports.
- o Rotate one flow control valve and reroute a small pipe line.
- o Perform some machining on Component Cooling Pump #1-1.

System 15 - Service Cooling Water System:

- o Modify 1 pipe support.
- o Route small piping to additional T. S. C. air conditioner.

System 16 - Make-up Water System

- o Modify 24 pipe supports.
- o Some small piping reroutes and modifications.

System 18 - Fire protection:

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- o Modify 10 pipe supports.

System 19 - Liquid Radwaste System

- o Modify 2 pipe supports.
- o Addition of valves and automatic collection devices.

* Portions of these systems are required for fuel load.

Attachment 1 (Cont)

System 23 - Ventilation and Air Conditioning System:

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- o Modify 3 pipe supports.
- o Technical Support Center HVAC expansion.
- o Miscellaneous additional dampers and instrument changeout.

System 25 - Compressed Air System:

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- o Modify 1 pipe support.
- o Completion of the Breathable Air System and miscellaneous small pipe reroutes.

System 26 - Nitrogen and Hydrogen Supply System:

- o Modify 4 pipe supports.

System 28 - Station Power:

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- o Addition of a new annunciator alarm and emergency lighting battery packs.
- o Changeout of two breakers.

System 38 - Reactor Control and Instrumentation:

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- o Install control cabinet and additional radiation monitors.

* Portions of these systems are required for fuel load.

Attachment (Cont)

II. STRUCTURE RELATED CHANGES

Annulus and Platform Steel Final Confirmatory Analysis:

- o Modify 150 connections and add some minor members.
- o Change bolts, increase weld size, add gussets.

Piping Repture Restraints:

- o Replace U-bot hex nuts with wedge nuts.
- o Cold gap adjustment.

Dome Service Crane Modifications:

- o Add gussets inside polar crane girder.
- o Add gussets to dome service crane turret support.
- o Stiffen first boom section.

Blockwall Seismic Modifications:

- o Add angle plates at base and top of walls.

Note: Other work operations will be in progress during this time such as startup testing and related support functions. Section I. & II. represent the major definable work items.

