

RELATED CORRESPONDENCE

**TELEDYNE  
ENGINEERING SERVICES**

130 SECOND AVENUE

WALTHAM, MASSACHUSETTS 02254

(617) 890-3350 TWX (710) 324-7508



August 4, 1983  
5511-484

Michael J. Strumwasser, Esquire  
Special Counsel to the Attorney General  
3580 Wilshire Boulevard  
Suite 600  
Los Angeles, CA 90010

Subject: Pacific Gas and Electric Company (Diablo Canyon Nuclear  
Project Units 1 and 2), Docket Nos. 50-275 OL, 50-323 OL

Dear Mr. Strumwasser:

In the Responses to Interrogatories 39(i) and 40(a) and (b) of your Second Set of Interrogatories, the IDVP stated that it would update the status of IDVP and DCP work not yet completed in light of the July 27-28, 1983, open meeting between the IDVP and DCP. The purpose of this letter is to provide that updated information.

The open meeting between the IDVP and DCP was completed in less than one day and, with a few exceptions, the IDVP confirmed the dates set forth in the July 22, 1983, Semimonthly Report. At the meeting, Dr. Cloud made a presentation describing the status of IDVP work and the items remaining to be completed. Copies of the slides used by Dr. Cloud in his presentation were distributed to the attendees. I have enclosed a copy with this letter in the event that you did not receive one from the State's representative. These slides describe the status of the remaining EOI's, including the information the IDVP requires from the DCP to close them out. No dates were established for receipt of such information from the DCP.

The slides also set forth the expected issuance dates for remaining ITR's. Dr. Cloud confirmed that the IDVP will meet most of the completion dates set forth in the July 22, 1983, Semimonthly Report although there may be slippage of several days' duration for a few of the remaining ITR's. The work remaining to complete each of the ITR's was discussed, and Dr. Cloud stated that ITR's 64 and 67, in particular, are likely to be completed sometime after the dates stated in the latest Semimonthly Report.

8308100261 830804  
PDR ADOCK 05000275  
G PDR

ENGINEERS AND METALLURGISTS

DS03

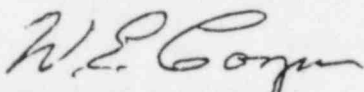
M. J. Strumwasser  
Page 2  
August 4, 1983

 **TELEDYNE  
ENGINEERING SERVICES**

Otherwise, the meeting did not result in any modifications of the information referenced in our original Response to Interrogatories 39 and 40.

Sincerely,

TELEDYNE ENGINEERING SERVICES



William E. Cooper  
Project Manager - 5511

WEC:cjr

cc: Diablo Canyon Service List

STATE OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

The undersigned, William E. Cooper, being duly sworn this 5th day of August, 1983, upon his oath states that he is employed by Teledyne Engineering Services (TES) as a Consulting Engineer and is assigned as Project Manager for the DCNPP-1 IDVP for which Teledyne Engineering Services is the Program Manager, that he is informed on the matters of inquiry of Interrogatories 39 and 40 of the Second Set of Interrogatories Propounded to the Independent Design Verification Program by Governor Deukmejian; that in supplementing the answers to the above and foregoing Interrogatories, he has caused information to be gathered from employees of Teledyne Engineering Services who participated in the July 27, 1983 open meeting between the IDVP and DCP; and that the information provided in the enclosed letter is true and correct as he has been informed and verily believes.

William E. Cooper

August 5, 1983

SWORN THIS 5<sup>TH</sup> DAY OF AUGUST 1983

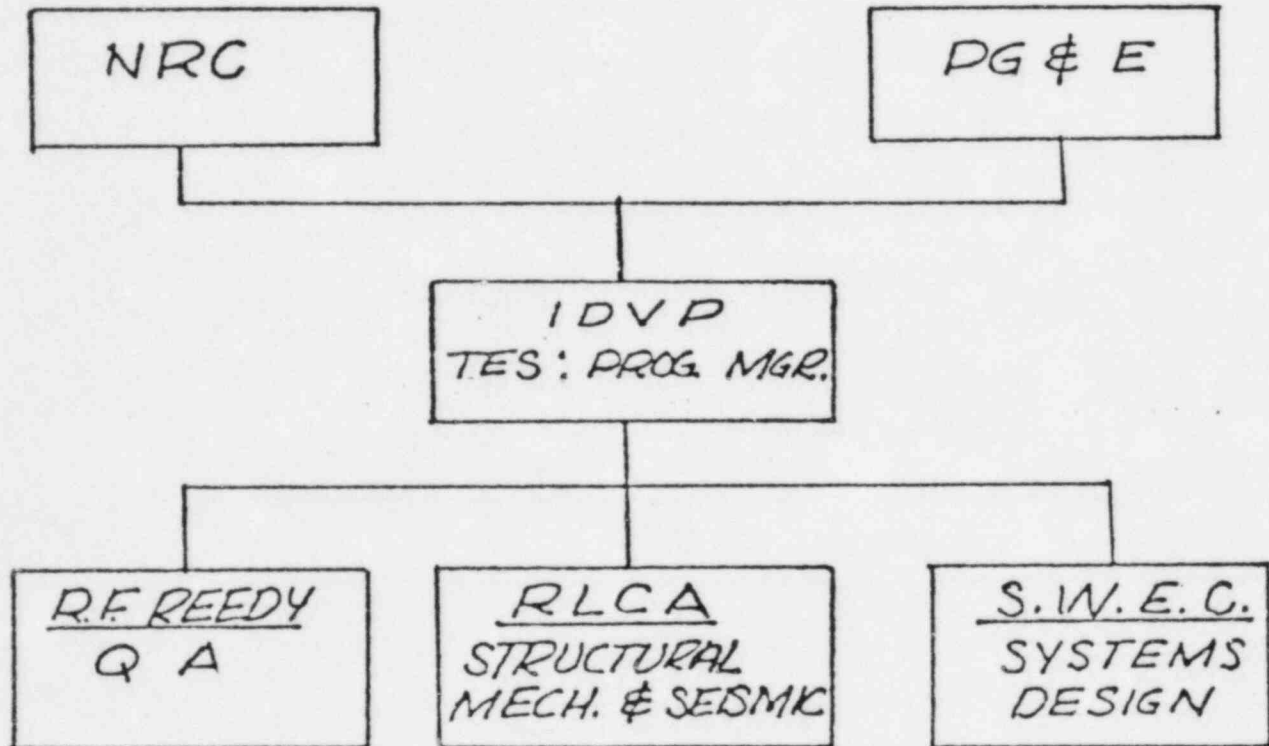
William S. Moonan

WILLIAM S. MOONAN  
NOTARY PUBLIC  
MY COMMISSION EXPIRES  
AUGUST 6, 1987

BY RLC DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PAGE NO. 1 OF \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_

# IDVP PROGRAM



IN RESPONSE TO:

1. NRC ORDER CLI-81-30
2. NRC LETTER  
DENTON TO FURBUSH 11/19/81

REF; DCNPP-1 PROG. MGMT. PLAN  
IDVP

RLC 7/24/83

BY RLC DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

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# PHASE I

## IDVP SEISMIC REVIEW

ENGN. PROG. PLAN ..... MAR. 1982

- INDEPENDENT CALCULATION  
SAMPLE FROM EACH CATEGORY  
OF STR. PIPING, COMP.
- EXPANDED SAMPLE IF REQ'D  
(ADDITIONAL VERIFICATION)
- REVIEW OF CORRECTIVE  
ACTION

ITR 1 RESULTS OF INDEPENDENT  
SAMPLE & REQ'M'TS FOR  
ADDITIONAL VERIFICATION

ITR 8 REVIEW OF C.A.P. - PLAN  
• DESIGN REVIEWS OF  
SAMPLES OF CAP WORK

RLC 7/24/83

ROBERT L. CLOUD ASSOCIATES, INC.

BY RLC DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PAGE NO. 3 OF \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_

PROGRESS

VERIFICATION COMPLETE

- INITIAL SAMPLE  
(PROG. PLAN)
- ADDITIONAL VERIFICATION  
SAMPLES\* (ITR 1)
- MAJOR PORTION OF  
CAP. REVIEW (ITR 8 & 35)

\* EXCEPT PARTS OF SOILS REV.

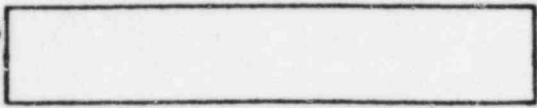
ISSUED 23 INTERIM TECH. REPORTS  
WITH RESULTS OF VERIFICATION

ISSUED IDVP FINAL REPORT . . . 6/30/83

- RATIONALE
- METHODOLOGY
- RESULTS
  - LISTING OF EOIA
  - RESOLUTION OF EOIA
  - OPEN EOIA
- ROOT CAUSES OF ERRORS
- CONCLUSIONS
- WORK REMAINING

RLC 7/24/83

BY RLC DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_



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## PHASE II

### IDVP NON-HOSGRI VERIFICATION

ENGRN. PROG. PLAN. ....

- INDEPENDENT REVIEW OF SAMPLE SYSTEM DESIGN
- EXPANDED SAMPLE IF REQ'D (ADDITIONAL VERIFICATION)
- REVIEW OF CORRECTIVE ACTION

ITR 35 REVIEW OF C.A.P. - PLAN

- DESIGN REVIEW OF SAMPLES OF CAP WORK

RLC 7/24/83



ROBERT L. CLOUD ASSOCIATES, INC.

BY Rlc DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

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PROJ. NO. \_\_\_\_\_

WORK REMAINING

- COMPLETE DESIGN REVIEW PACKAGES
- RESOLVE REMAINING EOI &
- COMPLETE ITR & ON C.A.P.
- COMPLETE FIELD VERIFICATION
- VERIFY COMPLETION SAMPLE
- ISSUE ITR SUPPLEMENTS OR REVISIONS
- ISSUE FINAL REPORT SUPPLEMENTS

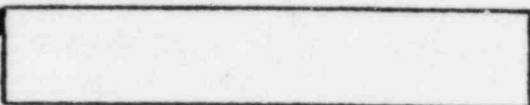
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THE ABOVE ACTIVITIES ARE BEING  
CONDUCTED IN PARALLEL

Rlc 7/24/83



BY RLC DATE 7/26/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_



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PROJ. NO. \_\_\_\_\_

EOI STATUS

GENERIC

DATA REQ'D FR. DCP\*

BLDGS

1014

CONT. - FINAL HATCH & BASE-SHELL JCN. CALC; INT. SPECTRA

1022

INTAKE - OK

1026

TURBINE - APPROVED CALL.

1092

F.H.B. - OK - FIELD VERIFICATION OF MODS. REQ'D (RLCA)

1097

AUX - • IN-PLANE SLAB CALL.  
• ~~REVISED CONT. RM. SPEC.~~  
• FIXED BASE DE, DDE SPEC. & LOADS

OTHER

983

RACEWAYS • APPROVED CALL FOR LONG. LOADING  
• FIELD VERIF. OF MODS. (RLCA)

1028

BLDG TORSION • DATA SHOWING 10% ECC. OK FOR TURB. BLDG

1098

PIPING OK

1003

HVAC DUCT

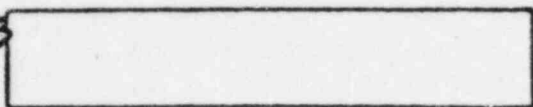
GENERIC EOIs to be CLOSED WITH ITR ISSUE EXCEPT 1098 WITH COMP SAMPLE

\*PLUS RFIA OUTSDG

RLC 7/26/83

ROBERT L. CLOUD ASSOCIATES, INC.

BY RLC DATE 7/26/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_



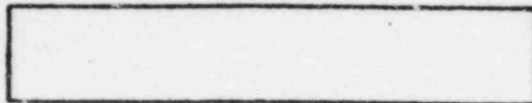
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EOI STATUS

<u>SPECIFIC</u>	<u>DATA REQ'D FR DCP</u>
938	VALVES - OK
1138	PIPING - REVISED ANALYSIS
1139	" " "
1122	PIPE SUPPORT OK
1124	REVISED CONT. RM. SPEC.
1128	BATT. RACK. ?
1134	HYAC DUCT - OK

RLC 7/26/83

BY RLC DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_



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ITR STATUS

ITR # 51, 54-68 WILL COVER THE  
C.A.P. REVIEW.

THESE ITR# ARE SCHEDULED TO BE  
ISSUED IN GROUPS ON 8/1, 8/15, & 8/30

SCHEDULES ARE HEAVILY DEPENDENT ON  
PROMPT R.F.I. TURNAROUND.

THE IDVP IS REASONABLY CLOSE TO  
SCHEDULE, EXCEPT FOR SOME  
POTENTIAL SCHEDULAR PROBLEMS BELOW:

<u>I T R</u>	<u>SCHEDULE ISSUE</u>
54	CALC. OUTSTANDING - CONTAINM'T
55	CALC. OUTSTANDING - AUX. BLDG
56	CALC. OUTSTANDING - TURBINE BLDG
64	CALC. OUTSTANDING - RACEWAYS
65	CALC. OUTSTANDING - RUP. RESTR.
67	MISC. ISSUES - EQUIPTM'T
68	VERIFICATION EFFORT - SOILS

RLC 7/24/83

ROBERT L. CLOUD ASSOCIATES, INC.

BY RLC DATE 7/26/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

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FIELD VERIFICATION

SCOPE

- VERIFICATION OF AS-BUILT CONFIGURATIONS
- VERIFICATION OF MOD'S DUE TO EOI'S
- VERIFICATION OF A SAMPLE OF C.A.P. MOD'S

SCHEDULE

- AS BUILT VERIF. - COMPLETE
- EOI MOD VERIF. - PRIOR TO ITR ISSUE
- C.A.P. MOD VERIF. - PRIOR TO ITR SUPPL'MT

RLC 7/26/83

BY RLC DATE 7/24/83  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

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## COMPLETION SAMPLE

### OBJECTIVES

- CONFIRM THAT CHANGES IN LOADS, INPUTS, & INTERFACE DATA ARE CONSIDERED APPROPRIATELY
- FINAL CONFIRMATION IN AREAS OF GENERIC CONCERN

### DESIGN WORK TO BE VERIFIED IN COMPLETION SAMPLE

- QUALIFICATION OF STR., PIPING, & EQUIPMENT FOR DESIGN SPECTRA, INPUTS & INTERFACE DATA OF RECORD ON JUNE 30, 1983

### COMPLETION SAMPLE INFORMATION REQ'M'TS

- INDEX OF CALCULATION  
6/30 SPECTRA ETC. (OR LATER)
- STATUS OF CALCULATIONS
  - FINAL OR PRELIM. (PG&E ENGRN. MANUAL)
  - APPLICABLE DCM REVISION
  - STATUS OF MOD A
  - INFO ON ANY UNQUALIFIED AREA

RLC 7/24/83