



Lawrence Livermore National Laboratory

March 14, 1984

WOW: 84-12

Mr. Phillip J. Morrill, Project Manager,
U. S. Nuclear Regulatory Agency, Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

PROGRESS REPORT, FEBRUARY 1984
TECHNICAL ASSISTANCE FOR INSPECTION OF DIABLO CANYON DESIGN VERIFICATION
PROGRAM, FIN B8552 (UNIT 1) AND FIN A0753 (UNIT 2).

1. Project Description

As a consequence of an Independent Design Verification Program, many modifications and additions to the piping and electrical raceway support systems and building structural steel are being implemented at the Diablo Canyon Nuclear Power Plant. The LLNL is assisting the NRC Region V office in assessing the adequacy of this work.

2. Progress - February 1984

Inspection work for this report period was focused on the spray hangers in Unit 2 containment while the scaffolding in this area remains in place. Some structural connections in the containment annulus area were also inspected and citations have been issued by the regional inspectors for two discrepancies found there. One NCR described excessive undercut over an 8" length of a 25"x5/16" fillet weld. The other NCR was for missing washers and torque seal for a high strength bolted connection. All items inspected and the results for both units are listed in Attachment 1.

3. Funding

A detailed report of expenditures for this period is provided in Attachments 2 & 3. A new proposal for Unit 2 work is in preparation.

4. Personnel, Subcontracts, and Consultants

This work is being conducted with assistance from the Energy Measurements Group of EG&G, San Ramon Operations.

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PDR ADOCK 05000275
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Mr. Phil Morrill
March 14, 1984
Page 2

5. Meetings/Travel

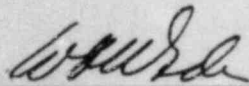
None

6. Concerns

None

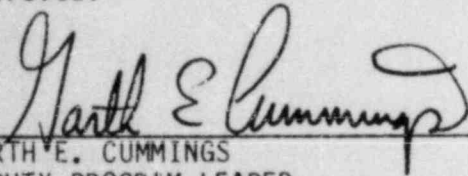
7. Plans

Inspection work is to continue in Unit 2 containment.



WALLACE O. WADE
PROJECT MANAGER
EG&G MECHANICAL ENGINEERING DEPARTMENT

Approved:



GARTH E. CUMMINGS
DEPUTY PROGRAM LEADER
NUCLEAR SYSTEM SAFETY PROGRAM

WOW:cog

Attachment

Distribution:

LLNL

G. Cummings
J. Johnson
R. Langland
M. Eli
R. Bogdanowicz
C. Meier

NRC

R. Gilbert
D. Kirsch
H. Canter
T. Bishop
E. Frigillana

EG&G/SRO

A. Debeling
R. Pong
C. Morton

ATTACHMENT 1

LOG NUM	LOC	U N I T	ITEM	PART NUMBER	START DATE	COMPLETE DATE	CRIT	CONTACTS	AFF	STATUS	STATUS DATE	INSR	MAN HRS
E1083	TURBINE BLDG	1	RACEWAY SUPPORT	44/D-140-6-77	1/19/84	2/28/84	QCP 3	MORRISON	PG	PHYSICAL	1/19/84	RMB	1.0
							QCP 5A	BRUNKE	FO	MVR 2777	1/19/84		
							QCP 9			ACC-W/O-QA	2/28/84	RMB	1.0
							QCP E9						
M0056	CONTAINMENT	2	SPRAY HANGER	20-93R	7/12/83	2/09/84	ESD 223	THOMAS	PG	PHYSICAL	9/02/83	MWE	3.0
								MOYER	BE	DR-5105	9/02/83		
								JRNIS	BE	ACCEPTED	2/09/84	MWE	5.0
											2/09/84	RMB	1.0
M0081	CONTAINMENT	2	SPRAY HANGER	20-94R	7/19/83	2/09/84	ESD 223	THOMAS	PG	CITATION	8/20/83	MWE	5.0
								MOYER	BE	DR-5090	8/20/83		
								HERNANDEZ	NR	ACCEPTED	2/09/84	MWE	4.0
											2/09/84	RMB	1.0
M0091	CONTAINMENT	2	SPRAY HANGER	20-95R	7/22/83	2/09/84	ESD 223	THOMAS	PG	ACCEPTED	2/09/84	MWE	7.0
								MOYER	BE		2/09/84	RMB	1.0
M1015	AUX BLDG	1	PIPE HANGER	73-63R	12/15/83	2/28/84	ESD 223	NASADOWSKI	PG	RECORDS	12/15/83	RMB	2.0
										PHYSICAL	12/15/83	RMB	1.0
										ACC-W/O-QA			
M1016	AUX BLDG	1	PIPE HANGER	230-1R	1/05/84	2/29/84	ESD 223	NASADOWSKI	PG	RECORDS	1/05/84	RMB	2.0
										PHYSICAL	1/05/84	RMB	1.0
										ACC-W/O-QA			
M1017	AUX BLDG	1	PIPE HANGER	322-4R	1/05/84	2/29/84	ESD 223	NASADOWSKI	PG	RECORDS	1/05/84	RMB	2.0
										PHYSICAL	1/05/84	RMB	1.0
										ACC-W/O-QA			
M1019	CONTAINMENT	2	SPRAY HANGER	20-41R	1/31/84	2/02/84	ESD 223	MICHAELS	PG	ACCEPTED	2/02/84	MWE	7.0
M1020	CONTAINMENT	2	SPRAY HANGER	414-32R	1/31/84	2/07/84	ESD 223	MICHAELS	PG	PHYSICAL	2/03/84	MWE	8.0
										ACCEPTED	2/08/84	MWE	3.0
M1021	CONTAINMENT	2	SPRAY HANGER	20-35R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	1/26/84	RP	3.0
M1022	CONTAINMENT	2	SPRAY HANGER	20-42R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	1/26/84	RP	2.0
M1023	CONTAINMENT	2	SPRAY HANGER	414-133R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	1/26/84	RP	2.0
M1024	CONTAINMENT	2	SPRAY HANGER	20-2R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	2/08/84	MWE	3.0
M1025	CONTAINMENT	2	SPRAY HANGER	20-3R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	2/08/84	MWE	3.0
M1026	CONTAINMENT	2	SPRAY HANGER	20-4R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	2/08/84	MWE	3.0
M1027	CONTAINMENT	2	SPRAY HANGER	20-43R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	2/08/84	MWE	3.0
M1028	CONTAINMENT	2	SPRAY HANGER	20-44R	2/06/84	2/08/84	ESD 223	MICHAELS	PG	ACCEPTED	2/08/84	MWE	3.0
M1029	CONTAINMENT	2	SPRAY HANGER	414-83R	2/09/84		ESD 223	MICHAELS	PG	ORIENT'N	2/09/84	MWE	3.0
M1033	CONTAINMENT	2	SPRAY HANGER	20-50R	2/15/84	2/16/84	ESD 223	BERNASCONI	PG	ACCEPTED	2/16/84	RP	2.0
M1034	CONTAINMENT	2	SPRAY HANGER	20-52R	2/15/84	2/16/84	ESD 223	BERNASCONI	PG	ACCEPTED	2/16/84	RP	2.0
M1035	CONTAINMENT	2	SPRAY HANGER	414-83R	2/15/84	2/16/84	ESD 223	BERNASCONI	PG	RECORDS	2/16/84	RMB	8.0
								MICHAELS	PG	ACC-W/O-QA	2/29/84	RMB	1.0
M1036	CONTAINMENT	2	SPRAY HANGER	20-91R	2/15/84	2/29/84	ESD 223	BERNASCONI	PG	RECORDS	2/16/84	RMB	8.0
								MICHAELS	PG	PHYSICAL	2/16/84	RMB	1.0
										DR 8115	2/16/84		
										DP-2-786-M	2/29/84		
										ACCEPTED	2/29/84		
M1037	CONTAINMENT	2	SPRAY HANGER	20-58R	2/15/84	2/29/84	ESD 223	BERNASCONI	PG	RECORDS	2/16/84	RMB	8.0
										ACC-W/O-QA	2/29/84	RMB	1.0
M1038	CONTAINMENT	2	SPRAY HANGER	20-96R	2/22/84		ESD 223	BERNASCONI	PG	WELD	2/22/84	MWE	15.0
								MICHAELS	PG		2/22/84	MWE	
M1039	CONTAINMENT	2	SPRAY HANGER	414-46R	2/22/84	2/24/84	ESD 223	BERNASCONI	PG	ACCEPTED	2/24/84	MWE	3.0
								MICHAELS	PG				
M1040	CONTAINMENT	2	SPRAY HANGER	20-33R	2/23/84		ESD 223	MICHAELS	PG	DR	2/23/84	MWE	3.0
M1041	CONTAINMENT	2	SPRAY HANGER	20-75R	2/29/84	3/02/84	ESD 223	BERNASCONI	PG	ACCEPTED	3/02/84	RMB	5.0
S1020	CONTAINMENT	2	ANNULUS	10003-C2-13-069	2/01/84	2/09/84	QCP 3	KOHLER	BE	RECORDS	2/03/84	MWE	5.0
							QCP 5A	MUNRO	BE				
							QCP C7	BECKORT	FO				
S1021	CONTAINMENT	2	ANNULUS	10033-C2-13-242	2/01/84	2/09/84	QCP 3	KOHLER	BE	RECORDS	2/03/84	MWE	5.0
							QCP 5A	MUNRO	BE	ACC-W/O-QA	2/09/84	MWE	3.0
							QCP C7	BECKORT	FO				
S1022	CONTAINMENT	2	ANNULUS	10003-C2-13-071	2/01/84	2/09/84	QCP 3	KOHLER	BE	RECORDS	2/03/84	MWE	5.0
							QCP 5A	MUNRO	BE	ACC-W/O-QA	2/09/84	MWE	3.0
							QCP C7	BECKORT	FO				
S1023	CONTAINMENT	2	ANNULUS	10003-C2-13-080	2/01/84	2/09/84	QCP 3	KOHLER	BE	RECORDS	2/03/84	MWE	5.0
							QCP 5A	MUNRO	BE	ACC-W/O-QA	2/09/84	MWE	3.0
							QCP C7	BECKORT	FO				
S1024	CONTAINMENT	2	ANNULUS	10033-C2-13-249	2/01/84		QCP 3	KOHLER	BE	WELD	2/01/84	MWE	
							QCP 5A	MUNRO	BE	WLDR GF	2/02/84	MWE	14.0
							QCP C7	BECKORT	FO	NCR	2/02/84	MWE	
							QCP 5	AMARILLAS	FO	5422-455			
S1025	CONTAINMENT	2	ANNULUS	10043-C2-13-420	2/07/84		QCP 3	KOHLER	BE	PHYSICAL	2/10/84	MWE	
							QCP 5A	MUNRO	BE	NCR	2/08/84	MWE	3.0
							QCP C7	BECKORT	FO	5422-466	2/08/84		
S1026	CONTAINMENT	2	ANNULUS	10074-C2-13-652	2/08/84		QCP 3	KOHLER	BE	PHYSICAL	2/08/84	MWE	

ATTACHMENT 1

S1027	CONTAINMENT	2 ANNULUS	10042-C2-13-450	2/07/84	QCP C7	BECKORT	FO	5422-462	2/09/84		
					QCP 3	MUNRO	PG	RECORDS	2/10/84	RMB	3.0
					QCP 5A	MCCLASKEY	FO	PHYSICAL	2/10/84	RMB	
					QCP C7	BURDOIN	NR	NCR	2/10/84	MWE	4.0
								5422-467	2/10/84		
								CITATION	2/13/84		
S1028	CONTAINMENT	2 ANNULUS	10054-C2-13-497	2/07/84	QCP 3	MUNRO	PG	RECORDS	2/10/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1029	CONTAINMENT	2 ANNULUS	10043-C2-13-428	2/07/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1030	CONTAINMENT	2 ANNULUS	10054-C2-13-496	2/07/84	QCP 3	MUNRO	PG	RECORDS	2/07/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1031	CONTAINMENT	2 ANNULUS	10049-C2-13-502	2/07/84	QCP 3	MUNRO	PG	RECORDS	2/10/84	RMB	4.0
					QCP 5A	MCCLASKEY	FO	PHYSICAL	2/10/84	RMB	
					QCP C7			NCR	2/10/84	RMB	
S1032	CONTAINMENT	2 ANNULUS	10059-C2-13-611	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1033	CONTAINMENT	2 ANNULUS	10043-C2-13-424	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/16/84	RMB	3.0
					QCP 5A	MCCLASKEY	FO	PHYSICAL	2/16/84	RMB	
					QCP C7			NCR	2/16/84	RMB	
S1034	CONTAINMENT	2 ANNULUS	10070-C2-13-681	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO	PHYSICAL	2/08/84	RMB	
					QCP C7			NCR	2/08/84	RMB	
S1035	CONTAINMENT	2 ANNULUS	10034-C2-13-704	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO	PHYSICAL	2/08/84	RMB	
					QCP C7			NCR	2/08/84	RMB	
S1036	CONTAINMENT	2 PLATFORMS	10034-C2-13-287	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1037	CONTAINMENT	2 PLATFORMS	10034-C2-13-289	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1038	CONTAINMENT	2 PLATFORMS	10034-C2-13-301	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						
S1039	CONTAINMENT	2 PLATFORMS	10034-C2-13-309	2/08/84	QCP 3	MUNRO	PG	RECORDS	2/08/84	RMB	2.0
					QCP 5A	MCCLASKEY	FO				
					QCP C7						

ATTACHMENT 2

UNIT #1 PROJECT FINANCIAL STATUS (THROUGH 29 FEBRUARY 1984)*

A. STATUS (Dollars in thousands)

<u>Total Projected Project Cost</u>	<u>Funds Obligated To Date</u>	<u>Balance of Funds Due FY 1983</u>
<u>\$345.0K</u>	<u>\$345.0K</u>	<u>-0-</u>

B. ANALYSIS

	<u>Period</u>	<u>Cumulative</u>
Direct Laboratory Staff Effort (FTE)	<u>0.4</u>	<u>1.2</u>
Direct Salaries	<u>\$ 0.3</u>	<u>\$ 36.0</u>
Material and Services (Excluding ADP)	<u>\$ -</u>	<u>\$ -</u>
ADP Support	<u>\$ -</u>	<u>\$ -</u>
Subcontracts (EG&G, Inc.)	<u>\$ 1.6</u>	<u>\$ 82.7</u>
Travel Expenses	<u>\$ 1.0</u>	<u>\$ 16.7</u>
Indirect Labor Costs	<u>\$ 0.4</u>	<u>\$ 34.8</u>
Other (TID)	<u>\$ 0</u>	<u>\$ 0.2</u>
General and Administrative	<u>\$ 2.9</u>	<u>\$ 26.8</u>
 TOTAL	 <u>\$ 3.0</u>	 <u>\$197.2</u>
 Liens		 <u>\$ 11.4</u>
 Total Including Liens		 <u>\$208.6</u>
 (Percent of Available Funding)		 <u>60%</u>

*NOTE: Figures may differ slightly from final billing.

ATTACHMENT 3

UNIT #2 PROJECT FINANCIAL STATUS (THROUGH 29 FEBRUARY 1984)*

A. STATUS (Dollars in thousands)

<u>Total Projected Project Cost</u>	<u>Funds Obligated To Date</u>	<u>Balance of Funds Due FY 1983</u>
<u>\$125.0K</u>	<u>\$125.0K</u>	<u>-0-</u>

B. ANALYSIS

	<u>Period</u>	<u>Cumulative</u>
Direct Laboratory Staff Effort (FTE)	<u>1.0</u>	<u>1.6</u>
Direct Salaries	<u>\$ 6.9</u>	<u>\$ 6.9</u>
Material and Services (Excluding ADP)	<u>\$ -</u>	<u>\$ -</u>
ADP Support	<u>\$ -</u>	<u>\$ -</u>
Subcontracts (EG&G, Inc.)	<u>\$ 0</u>	<u>\$ 0</u>
Travel Expenses	<u>\$ 1.6</u>	<u>\$ 1.6</u>
Indirect Labor Costs	<u>\$ 6.5</u>	<u>\$ 6.5</u>
Other (TID)	<u>\$ 0</u>	<u>\$ 0</u>
General and Administrative	<u>\$ 0</u>	<u>\$ 0</u>
TOTAL	<u>\$15.0</u>	<u>\$ 15.0</u>
Liens		<u>\$ 20.0</u>
Total Including Liens		<u>\$ 35.0</u>
(Percent of Available Funding)		<u>28%</u>

*NOTE: Figures may differ slightly from final billing.