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July 19, 1984  
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REGION V I&amp;E

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

PROGRESS REPORT, JUNE 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 - June 1984

Inspections continued in Unit 2 covering 63 pipe supports, 2 HVAC supports, 4 electrical raceway supports and 4 structural connections. Minor variations were found on 11 items that will require follow-up. Details are provided in Attachment 1.

3. Funding

The detailed report of expenditures for this period is provided in Attachments 2 & 3.

4. Personnel, Subcontracts, and Consultants

This work is being conducted with assistance from the Energy Measurements Group of EG&G in San Ramon, California. Mr. Charles Simkins of EG&G has been recruited temporarily to supplement the inspection staff and accommodate an expanding LLNL participation in Region V inspection programs. Mark Eli continued to provide assistance on the program of SONGS in this report period with Bob White and Jim Selan.

5. Meetings/Travel

A meeting was held with Phil Morrill and other Region V personnel on June 4, 1984 in Walnut Creek to resolve technical issues related to a special tube steel inspection conducted in April, 1984.

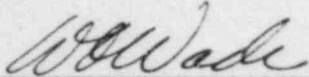
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6. Concerns

None

7. Plans

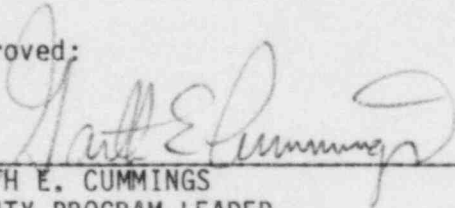
Inspections are to continue in Unit 2.



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

Approved:



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GARTH E. CUMMINGS  
DEPUTY PROGRAM LEADER  
NUCLEAR SYSTEM SAFETY PROGRAM

WOW:cog

Attachment

Distribution:

LLNL

G. Cummings, L-91  
J. Johnson, L-91 *J*  
R. Langland, L-90  
M. Eli, L-390  
C. Meier, L-90 *cm*  
J. Selan, L-777  
R. White, L-777

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	MAN INSP HRS
E1110	AUX BLDG	2	RACEWAY SUPPORT	S-243-B-C-104-1-5	6/14/84		QCP 5A	MORRISON	BE	NCR	6/14/84	CBS 1.0
E1111	CONTAINMENT	2	RACEWAY SUPPORT	S-217-A-6-91-2-163	6/14/84	6/14/84	QCP E9	HAHN	FO	8802-1309	6/14/84	CHM 1.0
E1112	AUX BLDG	2	RACEWAY SUPPORT	S-202U-6E-115-1-96	6/14/84	6/14/84	QCP 5A	MORRISON	BE	ACC-W/O-QA	6/14/84	CBS 1.0
E1113	CONTAINMENT	2	RACEWAY SUPPORT	S-586A-F-117-9-72	6/14/84	6/14/84	QCP E9	HAHN	FO		6/14/84	CHM 1.0
M1153	CONTAINMENT	2	PIPE HANGER	73-375L	6/05/84	6/05/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/05/84	RLW 3.0
M1154	CONTAINMENT	2	PIPE HANGER	412-108R	6/05/84	6/05/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/05/84	RLW 3.0
M1155	CONTAINMENT	2	PIPE HANGER	412-176R	6/05/84		ESD 223	BERNASCONI	BE	MVR		RLW 2.0
M1156	CONTAINMENT	2	PIPE HANGER	72-575L	6/06/84	6/06/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/06/84	RLW 3.0
M1157	CONTAINMENT	2	PIPE HANGER	412-695L	6/06/84	6/06/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/06/84	RLW 2.0
M1158	CONTAINMENT	2	PIPE HANGER	412-755L	6/06/84	6/06/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/06/84	RLW 2.0
M1159	CONTAINMENT	2	PIPE HANGER	89-24A	6/06/84	6/06/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/06/84	RLW 3.0
M1160	AUX BLDG	2	PIPE HANGER	413-512R	6/07/84		ESD 223	BERNASCONI	BE	MVR		RLW 2.0
M1161	AUX BLDG	2	PIPE HANGER	48-71V	6/07/84	6/07/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/07/84	RLW 2.0
M1162	AUX BLDG	2	PIPE HANGER	413-331R	6/07/84	6/07/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/07/84	RLW 1.0
M1163	CONTAINMENT	2	PIPE HANGER	72-585L	6/05/84	6/07/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/07/84	MWE 2.0
M1164	CONTAINMENT	2	PIPE HANGER	989-5R	6/05/84	6/07/84	ESD 223	BENTACUR	BE	ACCEPTED	6/07/84	MWE 2.0
M1165	AUX BLDG	2	PIPE HANGER	414-369R	6/05/84		ESD 223	BENTACUR	BE	PHYSICAL	6/07/84	MWE 2.0
								BERNASCONI	BE	MVR		
										M4732	6/07/84	
M1166	AUX BLDG	2	PIPE HANGER	413-326R	6/06/84	6/07/84	ESD 223	BENTACUR	BE	ACCEPTED	6/07/84	MWE 2.0
M1167	AUX BLDG	2	PIPE HANGER	413-2705L	6/06/84	6/07/84	ESD 223	BENTACUR	BE	ACCEPTED	6/07/84	MWE 2.0
M1168	AUX BLDG	2	PIPE HANGER	413-5455L	6/06/84	6/07/84	ESD 223	BENTACUR	BE	ACCEPTED	6/07/84	MWE 2.0
M1169	AUX BLDG	2	PIPE HANGER	413-523R	6/07/84	6/07/84	ESD 223	BENTACUR	BE	ACCEPTED	6/07/84	MWE 2.0
M1170	AUX BLDG	2	PIPE HANGER	413-161R	6/07/84	6/07/84	ESD 223	BENTACUR	BE	ACCEPTED	6/07/84	MWE 2.0
M1171	ANNULUS	2	PIPE HANGER	72-35L	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 1.0
								KULIKOWSKI	BE			
M1172	AUX BLDG	2	PIPE HANGER	35N-32R	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 1.0
M1173	AUX BLDG	2	PIPE HANGER	35N-83R	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1174	ANNULUS	2	PIPE HANGER	15-4V	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1175	ANNULUS	2	PIPE HANGER	6-7V	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1176	ANNULUS	2	PIPE HANGER	73-445L	6/13/84	6/14/84	ESD 223	BERNASCONI	BE	MVR 4733	6/14/84	AGD 4.0
								KULIKOWSKI	BE			
M1177	ANNULUS	2	PIPE HANGER	71-715L	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1178	ANNULUS	2	PIPE HANGER	72-475L	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1179	ANNULUS	2	PIPE HANGER	73-285L	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1180	ANNULUS	2	PIPE HANGER	7-21R	6/13/84	6/13/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/13/84	AGD 2.0
								KULIKOWSKI	BE			
M1181	ANNULUS	2	PIPE HANGER	7-129R	6/12/84	6/12/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/12/84	CBS 1.0
								KULIKOWSKI	BE			AGD 1.0
M1182	AUX BLDG	2	PIPE HANGER	414-67R	6/12/84	6/12/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/12/84	CBS 1.0
								KULIKOWSKI	BE			AGD 1.0
M1183	AUX BLDG	2	PIPE HANGER	413-311R	6/12/84	6/12/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/12/84	CBS 1.0
								KULIKOWSKI	BE			AGD 1.0
M1184	ANNULUS	2	PIPE HANGER	72-275L	6/12/84	6/12/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/12/84	CBS 1.0
								KULIKOWSKI	BE			AGD 1.0
M1185	ANNULUS	2	PIPE HANGER	70-375L	6/12/84	6/12/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/12/84	CBS 1.0
								KULIKOWSKI	BE			AGD 1.0
M1186	ANNULUS	2	PIPE HANGER	71-15L	6/12/84	6/12/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/12/84	CBS 1.0
								KULIKOWSKI	BE			AGD 1.0
M1187	TURBINE BLDG	2	HVAC SUPPORT	SKC-HU2-550	6/13/84	6/13/84	QCP 5A	DAUGHTERY	BE	ACC-W/O-QA	6/14/84	CBS 1.0
							ESD 216	BROWN	FO			CHM 1.0
							WLDR QA	MASSEY	BE			
M1188	AUX BLDG	2	HVAC SUPPORT	SKC-HU2-605	6/13/84	6/13/84	QCP 5A	DAUGHTERY	BE	ACC-W/O-QA	6/14/84	CBS 1.0
							ESD 216	BROWN	FO			CHM 1.0
							WLDR QA	MASSEY	BE			
M1189	AUX BLDG	2	PIPE HANGER	23-17R	6/19/84		ESD 223	BERNASCONI	BE	PHYSICAL	6/21/84	MWE 4.0
										MVR		
										M-4737	6/21/84	
M1190	AUX BLDG	2	PIPE HANGER	413-81R	6/19/84	6/21/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/21/84	MWE 2.0
M1191	AUX BLDG	2	PIPE HANGER	47-33R	6/19/84	6/21/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/21/84	MWE 2.0
M1192	AUX BLDG	2	PIPE HANGER	47-139R	6/19/84	6/21/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/21/84	MWE 2.0
M1193	AUX BLDG	2	PIPE HANGER	949-94R	6/20/84	6/21/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/21/84	MWE 2.0
M1194	AUX BLDG	2	PIPE HANGER	413-5335L	6/20/84	6/21/84	ESD 223	BERNASCONI	BE	ACCEPTED	6/21/84	MWE 2.0

M1195 AUX BLDG	2 PIPE HANGER	49-16V	6/20/84		ESD 223	BERNASCONI	BE	ORIENT'N MVR	6/21/84	MWE	4.0
M1196 AUX BLDG	2 PIPE HANGER	333-55R	6/20/84	6/21/84	ESD 223	BERNASCONI	BE	M-4738 ACCEPTED	6/21/84	MWE	3.0
M1197 AUX BLDG	2 PIPE HANGER	413-544SL	6/21/84		ESD 223	BERNASCONI	BE	PHYSICAL MVR	6/21/84	MWE	3.0
M1198 AUX BLDG	2 PIPE HANGER	70-53SL	6/21/84		ESD 223	BERNASCONI	BE	M-4739 RECORDS	6/21/84	MWE	3.0
M1199 AUX BLDG	2 PIPE HANGER	76-77SL	6/21/84		ESD 223	BERNASCONI	BE	PHYSICAL MVR	6/21/84	MWE	3.0
M1200 CONTAINMENT	2 PIPE HANGER	73-42SL	6/25/84	6/25/84	ESD 223	KULIKOWSKI BERNASCONI	BE	M-473910 ACC-W/O-QA	6/21/84	MWE	3.0
M1201 CONTAINMENT	2 PIPE HANGER	96-27R	6/25/84	6/25/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/25/84	CHM	1.0
M1202 CONTAINMENT	2 PIPE HANGER	7-76R	6/25/84	6/25/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/25/84	CHM	1.0
M1203 CONTAINMENT	2 PIPE HANGER	412-21SL	6/25/84	6/25/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/25/84	CHM	2.0
M1204 CONTAINMENT	2 PIPE HANGER	73-47SL	6/26/84	6/26/84	ESD 223	BERNASCONI KULIKOWSKI	BE	ACC-W/O-QA	6/26/84	CHM	2.0
M1205 CONTAINMENT	2 PIPE HANGER	73-83SL	6/26/84	6/26/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/26/84	CHM	2.0
M1206 CONTAINMENT	2 PIPE HANGER	93-46	6/26/84	6/26/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/26/84	CHM	1.0
M1207 AUX BLDG	2 PIPE HANGER	413-149R	6/26/84	6/26/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/26/84	CHM	1.0
M1208 FUEL HANDLING	2 PIPE HANGER	414-456R	6/26/84	6/26/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/26/84	CHM	2.0
M1209 FUEL HANDLING	2 PIPE HANGER	414-208R	6/26/84		ESD 223	KULIKOWSKI BERNASCONI	BE	CONFIG'N MVR			
M1210 CONTAINMENT	2 PIPE HANGER	8-21R	6/26/84		ESD 223	KULIKOWSKI BERNASCONI	BE	M-4741 RECORDS	6/28/84	CHM	3.0
M1211 CONTAINMENT	2 PIPE HANGER	96-28R	6/26/84		ESD 223	KULIKOWSKI BERNASCONI	BE	ORIENT'N	6/28/84	CHM	3.0
M1212 FUEL HANDLING	2 PIPE HANGER	355-31R	6/26/84	6/26/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/26/84	CHM	3.0
M1213 AUX BLDG	2 PIPE HANGER	413-526V	6/27/84		ESD 223	KULIKOWSKI BERNASCONI	BE	PHYSICAL MVR			
M1214 AUX BLDG	2 PIPE HANGER	77-145L	6/27/84	6/28/84	ESD 223	KULIKOWSKI BERNASCONI	BE	M-4742 ACC-W/O-QA	6/28/84	CHM	3.0
M1215 AUX BLDG	2 PIPE HANGER	47-69R	6/27/84	6/28/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/28/84	CHM	1.0
M1216 CONTAINMENT	2 PIPE HANGER	72-95L	6/27/84	6/28/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/28/84	CHM	2.0
M1217 CONTAINMENT	2 PIPE HANGER	72-815L	6/27/84	6/28/84	ESD 223	KULIKOWSKI BERNASCONI	BE	ACC-W/O-QA	6/28/84	CHM	1.0
S1040 CONTAINMENT	2 POLAR CRANE	6345-C2-13	3/06/84	6/21/84	QCP 3 QCP 5A QCP C7	MUNRO WOOD	BE FO	RECORDS WELD NCR	3/06/84		
S1082 CONTAINMENT	2 ANNULUS	10207-C2-13-1211	6/13/84	6/13/84	QCP 5A QCP C7	GANDARA JACQUES	BE FO	8833XR-149 ACC-W/O-QA	3/30/84 6/21/84		
S1083 CONTAINMENT	2 ANNULUS	1027-C2-13-1214	6/13/84	6/13/84	QCP 5A QCP C7	GANDARA JACQUES	BE FO	ACC-W/O-QA	6/14/84	CBS	1.0
S1084 CONTAINMENT	2 ANNULUS	1027-C2-13-1204	6/13/84	6/13/84	QCP 5A QCP C7	GANDARA JACQUES	BE FO	ACC-W/O-QA	6/14/84	CBS	1.0
S1085 CONTAINMENT	2 ANNULUS	10207-C2-13-1209	6/13/84	6/13/84	QCP 5A QCP C7	GANDARA JACQUES	BE FO	ACC-W/O-QA	6/14/84	CBS	1.0

ATTACHMENT 2

UNIT #1 PROJECT FINANCIAL STATUS (THROUGH 30 JUNE 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</u>	<u>1.2</u>
Direct Salaries	<u>\$ 0</u>	<u>\$ 36.0</u>
Material and Services (Excluding ADP)	<u>\$ 0</u>	<u>\$ 0</u>
ADP Support	<u>\$ 0</u>	<u>\$ 0</u>
Subcontracts (EG&G, Inc.)	<u>\$ 0.5</u>	<u>\$ 95.5</u>
Travel Expenses	<u>\$ 0</u>	<u>\$ 17.5</u>
Indirect Labor Costs	<u>\$ (0.2)</u>	<u>\$ 34.6</u>
Other (TID)	<u>\$ 0</u>	<u>\$ 0.2</u>
General and Administrative	<u>\$ 0.1</u>	<u>\$ 28.7</u>
TOTAL	<u>\$ 0.4</u>	<u>\$212.5</u>
Liens		<u>\$ 3.6</u>
Total Including Liens		<u>\$216.1</u>
(Percent of Available Funding)		<u>\$ 63%</u>

\*NOTE: Figures may differ slightly from final billing.

ATTACHMENT 3

UNIT #2 PROJECT FINANCIAL STATUS (THROUGH 30 JUNE 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>0.8</u>	<u>6.7</u>
Direct Salaries	<u>\$ 3.4</u>	<u>\$ 28.1</u>
Material and Services (Excluding ADP)	<u>\$ 0</u>	<u>\$ 0</u>
ADP Support	<u>\$ 0</u>	<u>\$ 0</u>
Subcontracts (EG&G, Inc.)	<u>\$ 17.8</u>	<u>\$ 49.6</u>
Travel Expenses	<u>\$ 1.0</u>	<u>\$ 9.9</u>
Indirect Labor Costs	<u>\$ 4.0</u>	<u>\$ 31.9</u>
Other (TID)	<u>\$ 0</u>	<u>\$ 0</u>
General and Administrative	<u>\$ 3.6</u>	<u>\$ 11.8</u>
 TOTAL	 <u>\$ 29.8</u>	 <u>\$ 131.3</u>
 Liens		 <u>\$ 0</u>
 Total Including Liens		 <u>\$ 131.3</u>
 (Percent of Available Funding)		 <u>\$ 105%</u>

\*NOTE: Figures may differ slightly from final billing.