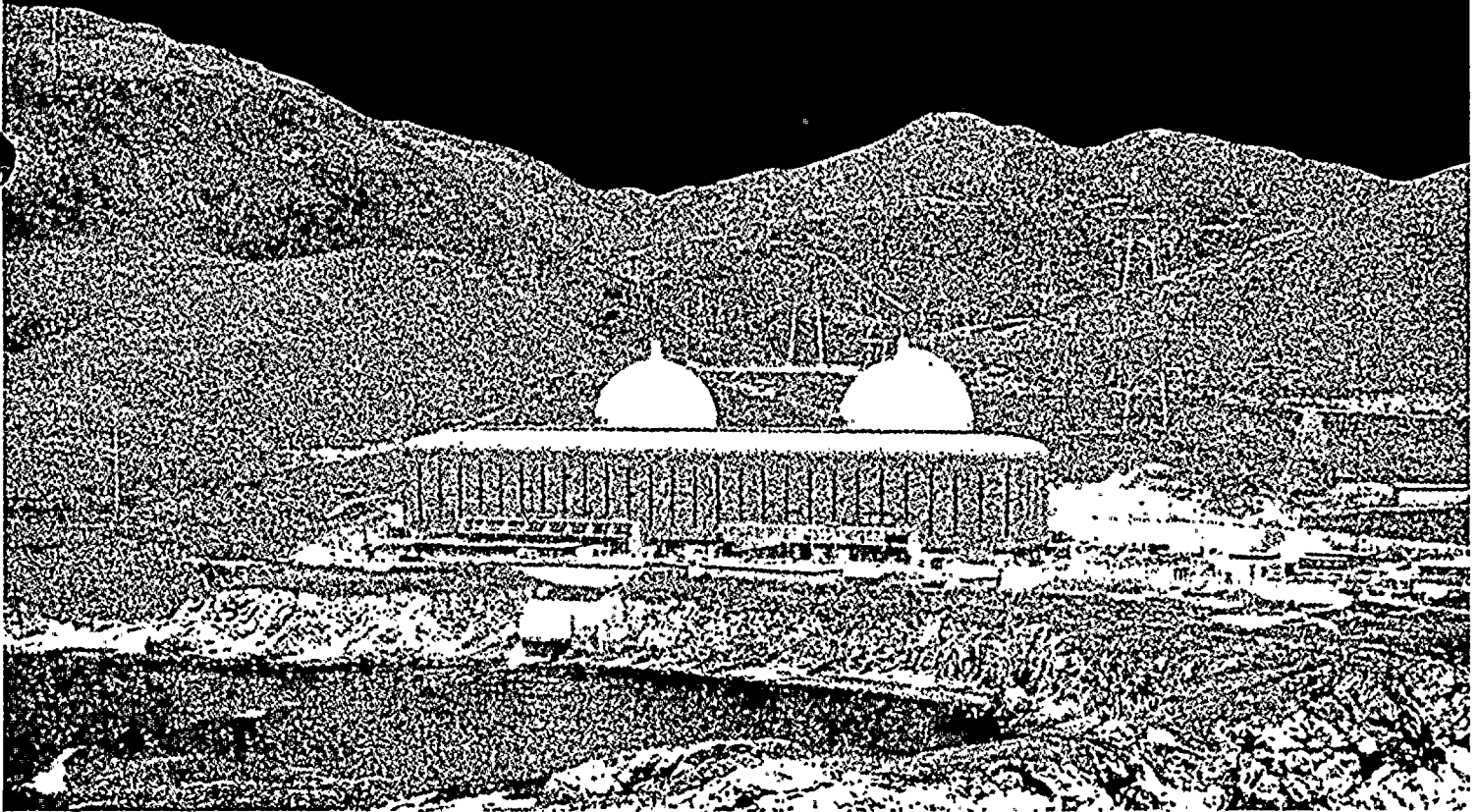


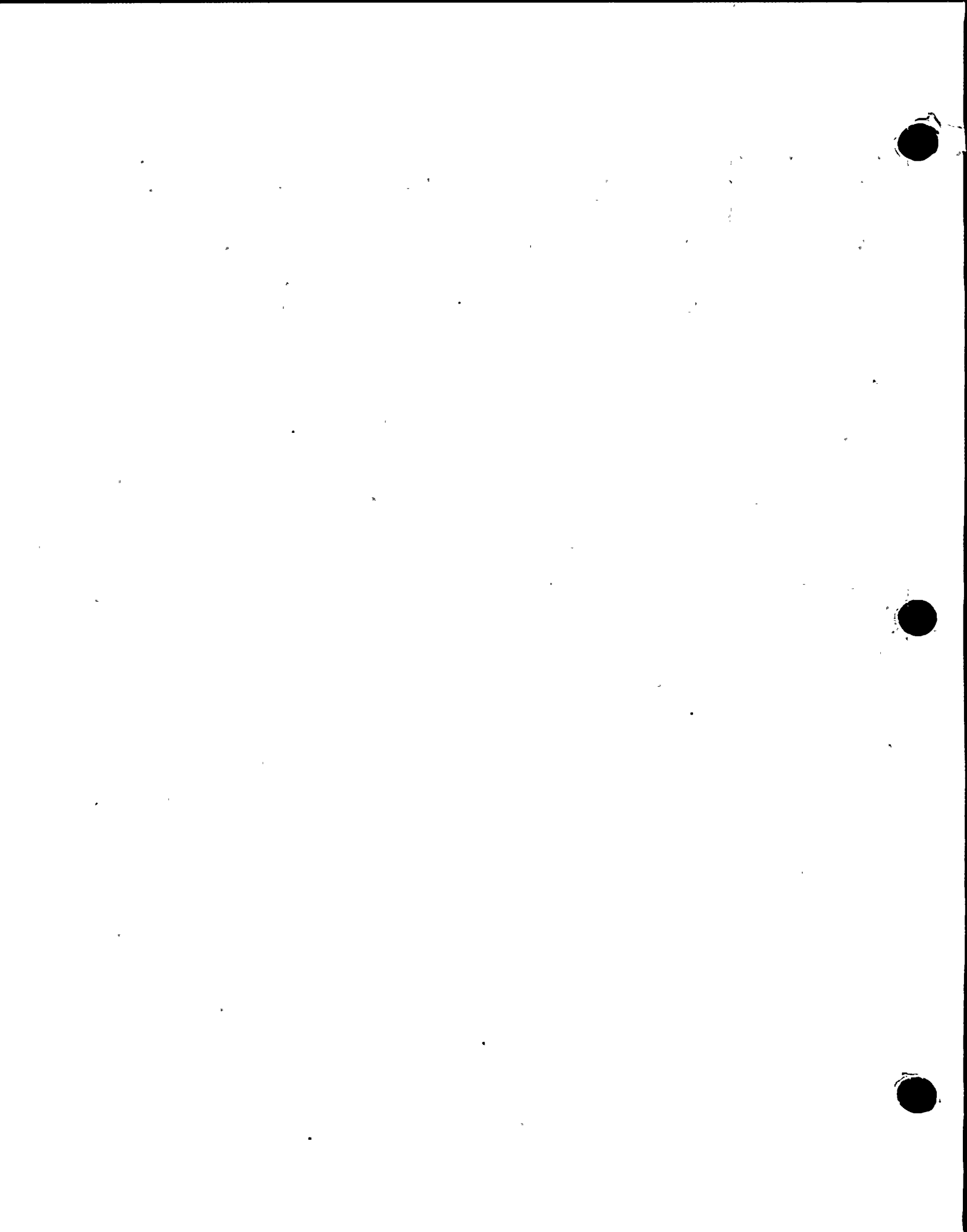
# SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM

Final Report — Volume V  
April 1984

PACIFIC GAS AND ELECTRIC COMPANY  
Diablo Canyon Units 1 and 2  
Docket Nos. 50-275 and 50-323



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PDR ADDCK 05000275  
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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-03-05-02FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, north east corner by containment, 95°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:Pipe whip restraint to line 593-10".  
(Restraint B1076).SOURCE CODE: P-0593-10TARGET:

AFW line 573-4".

TARGET CODE: P-0573-4POSTULATED INTERACTION:

Lateral movement of whip restraint results in impact (contact load) with line 573.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install bracket &amp; restraint to wall to preclude movement of whip restraint.

M. Jones 06/11/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Lateral brace has been provided per DCN DCO-EC-5485-RO. See DWG SK-193-001, Rev. 0, and resolution sheet dated 05-29-84.

S. Gaballah 05/09/84

DISCIPLINE ENGINEER/DATE

B. Sarkar 05/09/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. Chesnut 06/14/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 07/02/84

SIP PROJECT ENGINEER APPROVAL/DATE

S/S  
5/14/84

TERMS

SHEET 1 OF 1

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY-INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-03-IT-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, MS loop 2 area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE Grating kick plate. SOURCE CODE: C-PLAT-28

TARGET: AFW line 576-3" drain connection. TARGET CODE: P-0576-3

POSTULATED INTERACTION: Grating slides into 1" drain connection causing kick plate to impact drain connection. PHENOMENA CODE: INTERFERE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut kick plate away from drain connection to preclude contact.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Grating kick plate cut away to provide clearance. See work request No. C-507 and interaction resolution sheet.

S. Hanusiak 02/18/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/19/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 01/26/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 03/07/83  
SIP PROJECT ENGINEER APPROVAL/DATE

3/5/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-05-05-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109J-6"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, MS loop 2 area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: P-2475-0.75  
3x3 angle bracket pipe support to test line 2475 3/4".

TARGET: TARGET CODE: P-0570-3  
AFW line 570-3".

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE  
Movement of line 570 results in impact with angle bracket, current gap is 3/16".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut angle bracket to provide a 2" clearance between line 570 and angle bracket.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Recommended resolution OK. See pipe support DWG 153-1, Rev. 3.

There was a field verification walkdown report show that the clearance is .7 inches between the pipe and the support which was investigated further by stress analysis and showed that the line (570-3") movement is less than the existing clearance. See Calc. No. 2-118, Rev. 2. Therefore, no further action necessary.

C. R. VanNatta 08/03/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/03/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 06/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/21/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW 101

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-06-01-01

FIRE ZONE 3-Q-1 LOCATION Safety Related Pump FLOOR ELEVATION 100'

LOCATION WITHIN FIRE ZONE:  
Elev. 100, over auxiliary feedwater pump 1-1

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Pipe support (drawing No. 649272) to aux. steam pipe line 2442 and line 1862-8"  
SOURCE CODE: P-2442-6

TARGET: Auxiliary feedwater pump 1-1  
TARGET CODE: M-AFWPP1-1

POSTULATED INTERACTION: Pipe support contacts line 1862. Repeated contact due to thermal seismic and other movements results in leakage from line 1862 impinging on auxiliary feedwater pump 1-1.  
PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Relocate pipe support away from line 1862.

M. Jones 06/24/80  
WALKDOWN TEAM ORIGINATOR/DATE.

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The angle of support 85S/30R was cut to provide adequate clearance.

C. R. Van Natta 08/16/84  
DISCIPLINE ENGINEER/DATE.

K. M. Krause 08/16/83  
ENGR. GROUP SUPERVISOR/DATE.

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC I&C [PSE] NPO NAN

G. Zaharoff 02/10/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

4

I. W. Horn 04/20/84  
SIP. PROJECT ENGINEER APPROVAL/DATE.

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-06-01-02

FIRE ZONE 3-Q-1 LOCATION Safety Related Pump FLOOR ELEVATION 100-00

LOCATION WITHIN FIRE ZONE:  
Elev. 110, Along south wall of room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 1 1/2" Copper Water supply Pipe SOURCE CODE: P-USB-301

TARGET: AFW Pump 1-1 TARGET CODE: M-AFWPP1-1

POSTULATED INTERACTION: PHENOMENA CODE: PIPEFAIL  
Pipe is unsupported in this area; Soldered connections fail, resulting in pipe falling on AFW Pump 1-1

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add additional supports to copper water pipe as required to reduce lateral deflections.

M. Jones 04/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Judgement made during field walkdown is that sources, 1 1/2" copper line, cannot develop enough kinetic energy to damage target, Aux. F. W. Pump, due to protection given by other class I pipe and instrument supports (Ref. SIP Manual, Appendix B, Page B-37, R-14). Therefore no action necessary

C. R. VanNatta 07/28/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/03/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/29/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*[Handwritten signature]*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 01-06-01-03

FIRE ZONE 3-Q1 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', over AFW pump 1-1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Misc. components, temporary or abandoned.

SOURCE CODE: NS-CN

TARGET:  
AFW pump 1-1.

TARGET CODE: M-AFWPP1-1

POSTULATED INTERACTION:  
Misc. components, such as argon & hydrogen piping, pipe support rod, and lifting cable, fall onto AFW pump.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove all temporary and abandoned components.

M. Jones 04/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Area will be cleared of temporary and listed abandoned components prior to initial critically. As instructed by NPPR DCO-83 No. P0005 and SIP request No. 314..

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF EF FMS ENG GC HVAC I&C PSF [NPO] NAN

FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL /DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-07-02-02

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85'-0" area GW.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 1.721. SOURCE CODE: P-0721-12

TARGET: K5971. TARGET CODE: E-K5971-2

POSTULATED INTERACTION: PHENOMENA CODE: OFFLECT  
L721 supported to allow for motion.  
L721 could move and impact conduit.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Drop conduit below 1.721 so impact could not occur.

G. Whorisky 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
No action required. Field inspection indicate adequate clearance.

actb

J. Abraham 08/10/83  
DISCIPLINE ENGINEER/DATE

S. Auer 08/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&C PSE NPO NAN

L. W. Horn 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-09-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 115, GE Area, along West Wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (2 fixtures), chain supported  
SOURCE CODE: E-I.F-388

TARGET: Motor Operator to Valve LCV-108  
TARGET CODE: I-I.CV108

POSTULATED INTERACTION: Fixture falls, impacts actuator.  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, modifications will be required.

M. Jones 6/10/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).  
 This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 8/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-09-02-06

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100', 15<sup>7</sup> col. line and K.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Support to line 1445-4".

SOURCE CODE: P-1445-4

TARGET:  
K6254.

TARGET CODE: E-K6254-3

POSTULATED INTERACTION:  
Clevis rod support deflects and impacts conduit.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure by simplified analysis that integrity of conduit will not be damaged.

G. Whorinsky 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added support by generic DCN DC1-EP-5061 PRO-HGR. DWG 049339-339/280R.

C. R. VanNatta 07/21/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 07/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-09-02-07FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 115', near door #348, area GF.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Construction scaffolding. SOURCE CODE: NS-CDTARGET: Conduit K5962. TARGET CODE: E-K5962POSTULATED INTERACTION: Construction scaffolding is not secured. PHENOMENA CODE: HOUSFKFEPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or secure scaffolding prior to plant fuel load.P. Anderson 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Scaffolding to be removed per ART No. 192.S. Hanusiak 07/20/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAWS. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-10-01-01FIRE ZONE 3-88 LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, GE Area, along West Wall

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture (2 fixtures), chain supported

SOURCE CODE: E-LF-388TARGET:

Motor Operator to Valve LCV-109

TARGET CODE: I-LCV109POSTULATED INTERACTION:

Fixture falls, impacts actuator.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount, modifications will be required.

M. Jones 6/10/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).

This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SYSTEMICALLY REDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-10-02-01FIRE ZONE 3RR LOCATION Penetration Areas FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 119', 3' West of 'R'-line, Col 15<sup>7</sup> - 17'

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Fluorescent Light - Pendant mountedSOURCE CODE: E-K6436-1.25TARGET:  
K6436 (Conduit)TARGET CODE: E-1.F-3RRPOSTULATED INTERACTION:  
Fixture above conduit, could fall, impacting conduit.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of fixture.WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg 050041, Detail 9 (Category XI).  
 This fixture has been qualified by analysis per Civil Calculation 52.24.52.  
 No further action necessary. Resolved by Analysis.

R. J. Swain 03/04/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] FMS ENG GC HVAC I&amp;C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-01-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109'-6"LOCATION WITHIN FIRE ZONE:  
Elev. 110, near loop 2 penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Auxiliary feedwater systemSOURCE CODE: SQTARGET:  
ICV-110-AFW valve.TARGET CODE: M-LCV110POSTULATED INTERACTION: PHENOMENA CODE: MFCHFATI

Actuator on this valve is tall and unsupported. Failure of the upper structure could compromise AFW system operation.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure qualification of valve upperstructure and proper modelling in AFW system seismic analyses.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The actuators for I.C.V-110 and I.C.V-111 were recently replaced. These postulated interactions were "discovered" before the supports were attached to the actuators. Since this time, the designs for the supports have been completed and sent to the field. (see DWG #049302 Shs. 42 and 50). The new supports have been modeled in Hosgri 2-8, Rev. 6.

Note: The supports associated with I.C.V-110 were part of original design and were not added as a result of the STP.

G. B. Page 11/17/81  
DISCIPLINE ENGINEER/DATET. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAM

M. Baker 06/28/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-02-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Auxiliary building near 224<sup>o</sup> containment, elev. 113'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2-1/2" fire line.

SOURCE CODE: P-SPR-388TARGET:

K5755.

TARGET CODE: E-K5755-0.75POSTULATED INTERACTION:

Fire line falls due to being supported by rod hangers only.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Show by simplified analysis analysis that conduit will not be jeopardized.

G. Whorisky 05/08/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

See IDS No. 25-185-02-02.

C. R. VanNatta 04/27/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 08/04/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Baker 06/28/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/83

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-02-02FIRE ZONE 5-A-3 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100', DC switchgear room 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fire extinguisher FE-A115 02-12.

SOURCE CODE: M-FETARGET:

HNJB (cable tray).

TARGET CODE: E-HNJBPOSTULATED INTERACTION:

Extinguisher could fall from its mounting and impact HNJB.

PHENOMENA CODE: LOOSE & MECHFALLRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure stability of extinguisher by providing mechanism to keep canister on station mount.

P. Anderson 06/05/81WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

G.C. has been instructed to provide positive quick-release restraint to the fire extinguisher per ART 375.

DISCIPLINE ENGINEER/DATEJ. A. Longworth  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/02/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84SIP PROJECT ENGINEER APPROVAL/DATE

S.E. 8/28/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-02-03FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 110', near col. J &amp; 15.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fire protection piping.

SOURCE CODE: P-SPR-3BBTARGET:

K5755 and KK585.

TARGET CODE: E-K5755+POSTULATED INTERACTION:

Fire protection piping falls due to failure of fixed-end rod hangers.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace fixed-end rod hangers with clevis-end types.

P. Anderson 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 See IDs No. 25-185-02-02.

C. R. VanNatta 04/27/83  
DISCIPLINE ENGINEER/DATE

J. A. Longworth 04/29/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Baker 06/28/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/05/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-02-04FIRE ZONE 5-A-4 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100', Col. 16' & J.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" fire protection piping.SOURCE CODE: P-USB-5A4TARGET:  
K7143 to box 8JH 309.TARGET CODE: E-K7143-2POSTULATED INTERACTION:  
There exists about 1/8" clearance between source line and target. Excessive movement of source line could damage conduit.PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
By simplified analysis, ensure integrity of conduit.P. Anderson 06/10/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis. See Resolution Report No. 49.

ACB

P. Anderson 09/24/81  
DISCIPLINE ENGINEER/DATEJ. A. Ante 03/17/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 11/11/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

13

POSTULATED INTERACTION NO.: 01-12-02-06

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 106' azimuth 320°, outer edge of pipe rack.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CD

TARGET:

Conduit K-5755-3/4".

TARGET CODE: F-K5755-0.75

POSTULATED INTERACTION:

Missing conduit cover.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace cover.

S. E. Traisman 06/30/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Replace conduit cover. IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

\_\_\_\_\_  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE FMS ENG GC HVAC I&C PSE NPO NAN [QC]

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 07/03/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-05-02

FIRE ZONE 3-BR LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Cols. L and 6.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Conduit KK793-3/4".

TARGET CODE: E-KK793-0.75

POSTULATED INTERACTION:  
Construction def. - "C" conduit left without a cover.

PHENOMENA CODE: HOUSEKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install cover.

R. L. Cloud 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Replace coverplate on conduit per ART 160.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/15/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-05-03FIRE ZONE 3-Q-2 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, (T-U, 15-15<sup>2</sup>), 11' above the floor

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:2" copper line 1431 and 4" service air line. Both lines run 14" from the 15<sup>2</sup> wall.SOURCE CODE: P-ULB-3Q2TARGET:

Conduit KK 793-3/4"

TARGET CODE: E-KK793-0.75POSTULATED INTERACTION:

The two lines impact the conduit 1/4" away due to seismic movement.

PHENOMENA CODE: deflectRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Secure both lines to the existing support with U bolts. The support is 166" west of the U column line and 25" west of the wall between T and U.

E. Denison 07/08/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Add seismic stop by generic DCN-DC1-EP-5061-PRO HGR. DWG. 049339 sht. 331

C. R. Van Natta 07/29/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 07/29/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO  
 NAN

S. E. Traisman 09/21/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

SN

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-12-10-01

FIRE ZONE 5-A-1 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
El. 102' in Vital 480V Swgr Room 1F

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
8 Hr battery operated lighting unit

SOURCE CODE: E-LF-BOL

TARGET:  
Aux FW Transformer TFW-1

TARGET CODE: E-TFW1

POSTULATED INTERACTION:  
Lighting Unit Supports Fail, Unit Falls  
on to Transformer Case

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify Integrity of Battery Operated Lighting  
Unit Support

S.E. Traisman 07/27/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Lighting Support has been Seismically Qualified by Analysis.  
See Calc. No. 30-01-73-01.

*Ans  
6/19/84*

R. J. Swaim 11/23/82  
DISCIPLINE ENGINEER/DATE

C. Bhatt 11/23/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 01-13-01-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109'-6"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, near loop 2 penetration

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Motion due to postulated HOS6RI event.

SOURCE CODE: SQ

TARGET:  
AFW valve LCV-113

TARGET CODE: M-LCV113

POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
Actuator on this valve is tall and unsupported. Failure of the upper structure could compromise AFW system operation.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure qualification of valve upper structures and proper modelling in AFW system seismic analyses.

M. Jones 06/22/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The actuators for LCV-110 and LCV-111 were recently replaced. These postulated interactions were "discovered" before the supports were attached to the actuators. Since this time, the designs for the supports have been completed and sent to the field (see attached Dwg. #049302 Shs. 42 and 50). The new supports have been modeled in HOSGRI 2-8 Rev. 6  
Note: The supports associated with LCV 113 were part of original design and were not added as a result of the S.I.P.

G. B. Page 11/17/81  
DISCIPLINE ENGINEER/DATE

T. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

M. Baker 06/23/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-13-02-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109'-6"

## LOCATION WITHIN FIRE ZONE:

Elev. 115; east end of pipe rack by AFW LCV's

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Seismic motion as a result of postulated HOSGRT. SOURCE CODE: NS-CN

TARGET: Conduit K 6145-3/4" TARGET CODE: E-K6145-0.75

POSTULATED INTERACTION: Conduit lacking support near termination of conduit to LCV-111 PHENOMENA CODE: Loose

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add support to conduit K 6145 near flex connection to LCV-111 support conduit off of adjacent structural steel.

S. F. Traisman 06/30/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved per ART 344.

M. J. Hanz 02/07/83  
DISCIPLINE ENGINEER/DATE

G. I. Glascock 06/22/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS [ENG] GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-14-01-01FIRE.ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, over auxiliary feed pump 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platform and grates.

SOURCE CODE: C-PLAT-388TARGET:

Aux. feedwater pump 1-3 and associated piping &amp; instruments.

TARGET CODE: M-AFWPP1-3POSTULATED INTERACTION:

Platform falls, impacts pump, etc.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform and grating have been qualified by analysis. See resolution sheet.  
 and Calc. No. 01-14-01-01.

S. Hanusiak 02/03/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-15-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, GE Area, along West Wall

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (2 fixtures), chain supported SOURCE CODE: E-LF-3BB

TARGET: Motor Operator to Valve LCV-113 TARGET CODE: I-LCV113

POSTULATED INTERACTION: Fixture falls, impacts actuator. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount, modifications will be required.

M. Jones 6/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-15-02-01

FIRE ZONE 6-A-5 LOCATION Electrical Room FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', outside D.C. switchgear room 1-1, near fan S-44

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Handrails

SOURCE CODE: C-HANDRAIL

TARGET:  
KT987

TARGET CODE: E-KT987-1.50

POSTULATED INTERACTION:  
Handrails could impact KT987

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure handrails

P. Anderson 6/5/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Handrails to be secured per ART No. 191

S. Hanusiak 07/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 7/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/14/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-15-02-03FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 112, 7' west of col. L, mid room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Lateral brace to cable tray.

SOURCE CODE: F-RS-3RRTARGET:

Conduit KT-243-1.25".

TARGET CODE: E-KT243-1.25POSTULATED INTERACTION:

Lateral motion of cable tray results in brace contacting and damaging conduit.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Relocate cable tray support brace away from conduit to provide 2" clearance.

M. Jones 06/09/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Relocate cable tray support brace way from conduit to provide 2" clearance.  
Per ART 329.

Peter P. Chu 11/17/82  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 07/10/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-15-10-01

FIRE ZONE 5-A-3 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 102', in vital 480V Swgr room 1H.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
8 Hr battery operated lighting unit.

SOURCE CODE: E-I.F-BOL

TARGET:  
Aux. FW transformer TFW-2.

TARGET CODE: E-TFW2

POSTULATED INTERACTION:  
Lighting unit supports fail, unit falls onto transformer case.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of battery operated lighting unit support.

S. E. Traisman 07/27/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Lighting support has been seismically qualified by analysis. See Civil Calc. No. 30-01-73-01.

*Acis*

R. J. Swaim 11/23/82  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 11/23/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-16-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, GE Area, along West Wall

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (2 fixtures), chain supported  
SOURCE CODE: E-LF-3BB

TARGET: Motor Operator to Valve LCV-115  
TARGET CODE: T-LCV115

POSTULATED INTERACTION: Fixture falls, impacts actuator.  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, modifications will be required.

M. Jones 6/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).

This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-17-02-01FIRE ZONE 4-A LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, area H, outside chemical lab, access hatch in ceiling, 15" down  
 from door 145

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Hot water line insulated with black foam.

SOURCE CODE: NS-TTARGET:

Conduit K7227.

TARGET CODE: E-K7227-3POSTULATED INTERACTION:

Contact between uninsulated pipe and K7227 below valve (Postulated heat  
 damage).

PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of K7227 or place insulation between the pipe and K7227

E. Dennison 06/05/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Initial "final resolution" found unacceptable. See field verification (4/28/82).  
 1/4" thick pipe insulation has been placed between hot water pipe and  
 conduit K7227. Insulation secured per ART 397 which was written as a result of  
 F.V.R. dated 04/28/82, and resolved interaction.

DISCIPLINE FWGTNFER/DATED. H. Hagstrom 04/21/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

M. Jones 04/28/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-18-01-01FIRE ZONE 53 LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Along Col. 15.7 between Cols. U and T (in stairwell east of area GE).

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Battery operated light fixture and assoc. power conduit.  
SOURCE CODE: E-I.F-BOL

TARGET: Inst. lines assoc. with PT-433 (AFP 2-3), PS-421 (AFP2-21), and PS-422 (AFP2-3).  
TARGET CODE: I-PT433

POSTULATED INTERACTION: Conduit is run above target tubes. Light fixture mounting fails fixture pulls its conduit off wall and ceiling and conduit damages target inst. tubes.  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute conduit underneath target inst. tubes.

Note: This TDS is a result of SIP review of DCN DC1-EE-17081.

S. Skochko 01/18/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Reroute conduit underneath the instrument tubing to preclude postulated interaction. Resolved by modification. See ART 499.

Acs

R. J. Swaim 03/04/83  
DISCIPLINE ENGINEER/DATE

G. Bhatt 03/05/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. Chesnut 05/16/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/25/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-01FIRE ZONE 4-A LOCATION Auxiliary Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, Chem Lab area, cable spreading room NE, through door #147 and 146.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class II plaster/metal stud wall.

SOURCE CODE: C-WALLTARGET:K6958, K6959, K6960, K6961, K6954, K6995, K6956, K6957, K7033 and K7034  
conduits.TARGET CODE: E-K6958+POSTULATED INTERACTION:

Class II wall could fall and impact targets.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Insure integrity of Class II wall.

Paul Anderson 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Wall qualified by analysis. See Calc. No. 01-19-02-01.

S. Hanusiak 09/21/81  
DISCIPLINE ENGINEER/DATE

E. Wollak 09/24/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-02FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 118' in vicinity of stairwell 1B, Cols. C and 7.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Stairway 1B - elev. 104' to 119'.

SOURCE CODE: C-STAIR-14ATARGET:

Conduit K2665-1".

TARGET CODE: E-K26665-1POSTULATED INTERACTION:

Stairway fails, impacts conduit.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify integrity of stairway by simplified analysis.

S. E. Traisman 07/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The stairway has been seismically qualified with modifications. See ART 394 and  
 Calc. No. 01-19-02-02.

S. Gaballah 06/08/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 06/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
3/5/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-03

FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 103', near Cols. C and 8.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: FW HTR 1-6 drain tank. SOURCE CODE: M-TANK

TARGET: Conduit K2665-1". TARGET CODE: E-K2665-1

POSTULATED INTERACTION: Tank failure/displacement damages conduit. PHENOMENA CODE: SPTFAIL. Conduit could sustain heat damage from adjacent line.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of tank. Also show that conduit is not damaged by tank displacement or high temperature. Otherwise provide modification to prevent interaction.

S. E. Traisman 07/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Drain tank support has been seismically qualified by analysis. Seismic movement of tank and temperature of wiring have been evaluated. No modification is required. See Calc. No. 01-19-02-03.

S. Gaballah 06/15/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 06/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/21/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/8/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-04FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 119'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 118' in vicinity of stairway 15, cols. C+8:

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Firewater sprinkler lines above stairway 15.

SOURCE CODE: P-SPR-14ATARGET:

Conduit K2665-1".

TARGET CODE: E-K2665-1POSTULATED INTERACTION:

Conduit runs N-S at east edge of stairway and as such is unprotected from source above 119' level. Threaded sprinkler piping with fixed end rod hangers fall onto conduit.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install bilateral supports to sprinkler piping in the area above stairway 15.

S. E. Traisman 07/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added supports per generic DCN DC1-EP-5061-HGR. No. 049339 SHT. 338 thru 340, Rev. 1.

C. R. VanNatta 08/11/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/11/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SM

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-05FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 118', in vicinity of stairway 15, cols. C + 8.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Crane east of MSR 1-1C.

SOURCE CODE: M-HOIST-14ATARGET:

Conduit K2665-1".

TARGET CODE: E-K2665-1POSTULATED INTERACTION:PHENOMENA CODE: MECHFAL

Conduit runs north-south at east edge of stairway and as such is unprotected from source above 119' level. Crane comes off monorail and impacts conduit.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify integrity of crane by simplified analysis. Alternatively, install stops on monorail to keep crane at south end of monorail.

S. E. Traisman 07/20/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Install crane stops on monorail as recommended. See ART #398 and resolution sheet.

S. Gaballah 06/08/83DISCIPLINE ENGINEER/DATEB. Sarkar 06/21/83ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANGregory Zaharoff 02/08/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84SIP PROJECT ENGINEER APPROVAL/DATE5/6  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-06FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 118' in vicinity of stairwell 15, cols. C and 8.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Firewater hosereel FW-124-T26-1.

SOURCE CODE: M-HRTARGET:

Conduit K-2665-1".

TARGET CODE: E-K2665-1POSTULATED INTERACTION:

Conduit runs N-S at east edge of stairwell and as such is unprotected from source above 119' level. Hose reel comes loose and impacts conduit.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Pin hose reel wheel to hose reel mounting support.

S. E. Traisman 07/20/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added cotter pin and washer to keep hose reel from dislodging from mounting support per ART 373. See IDS 01-19-02-07 for modification package.

J. Haake  
 DISCIPLINE ENGINEER/DATE

J. A. Longworth 05/03/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAX

S. E. Traisman 02/24/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

*L. W. Horn*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-07

FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 119' in vicinity of stairway 15, Columns C and B.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fire exit FE T119-07-1

SOURCE CODE: M-FE

TARGET:

Conduit K2665-1"

TARGET CODE: E-K2665-1

POSTULATED INTERACTION:

Conduit runs N-S at east edge of stairwell and as such is unprotected from sources above 119' level. Fire ext. comes loose and falls on conduit.

PHENOMENA CODE: LOOSE/MATCHFALL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Clamp fire ext. in place with quick release mechanism.

S. E. Traisman 02/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Install fire extinguisher with hook and NFPA approved quick release strap.  
Per ART 373.

J. Haake 05/02/83  
DISCIPLINE ENGINEER/DATE

J. Longworth 05/03/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 07/09/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*A.J.E. 8/28/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-11FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', between column lines 5 and 7 and C and D.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: E-LF-14A  
 Fluorescent light fixture support beam (5 locations).

TARGET: TARGET CODE: E-K2665-1  
 Conduit K2665 - 1".

POSTULATED INTERACTION: PHENOMENA CODE: FIXTURE  
 East-west horizontal support beam for a row of fluorescent light fixtures (type 4 fixtures per beam) is above target conduit. Connection tying support beam to turbine building struct. steel fails or slips loose, support beam impacts conduit below. Existing source/target clearance 1".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Resupport light fixture support beam in vicinity of target conduit so that interaction is eliminated.

S. E. Traisman 07/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Light fixtures are installed in accordance with DWG No. 050041, details 31 thru 36. These details are seismically qualified by Civil engineering Calculation No. 52.24.52, Rev 3. (Refer to same calculation p. 54.1 for details).

S. R. Wang 08/03/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 08/03/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAH

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-19-02-17

FIRE ZONE 3-1 LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Behind aux. bldg. control room, 2'-6" east of Col. T.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

N<sub>2</sub> storage bottles (3).

SOURCE CODE: M-ROTTIF

TARGET:

Conduits K6993-4" and K6998-4" encased within pyrocrete fireproofed vault.

TARGET CODE: F-6993-4

POSTULATED INTERACTION:

PHENOMENA CODE: LOOSE & MECHFATL

Two bottles are mounted in permanent storage racks, third bottle is tied to the wall with rope. Bottles become dislodged from storage rack or temporary mount, nozzles are broken off, bottles become missiles and have potential to impact target conduits.

Note: This IDS is a result of the final sip area walkdown of compartment 85-J-2.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Tighten storage rack anchor bolts. Remove debris from behind channel and rack base to insure the vertical channel is flush against the wall.
2. If the third bottle is required to be in the area, provide permanent mount; otherwise remove from area.

S. Chesnut 07/27/83

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by analysis - see NPPR #DCO-83-NO-P0015

D. W. Shelley 06/20/84

DISCIPLINE ENGINEER/DATE

J. Arnold

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE FMS ENG GC HVAC I&C PSE [NPO] NAW

S. F. Traisman 07/27/83

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 01/19/84

SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-01-01 Intercomp

FIRE ZONE 3-Q-2 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 105' Col. T between 15 and 15.7

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Hydrazine and ammonia Tanks, E1 115'

SOURCE CODE: M-TANK

TARGET:

Aux. Feedwater Pump Motor 1-3, E1 100'

TARGET CODE: M-AFWPP1-3

POSTULATED INTERACTION:

Tank supports fail, tank ruptures and spills liquid onto motor. Tank sufficiently restrained to preclude tank from falling through opening in floor under tank.

PHENOMENA CODE: SPTFAI&ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify integrity of tanks.

S. E. Traisman 08/04/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Tank supports has been seismically qualified by analysis. See resolution sheet and calc. No. 01-20-01-01

S. Gaballah 06/15/83  
DISCIPLINE FMGTNFR/DATE

R. Sarkar 06/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE FMS FMG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/04/83  
SIP PROJECT FMGTNFR APPROVAL/DATE

*S.E.*  
*5/5/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-01-02 INTERCOMP

FIRE ZONE 3-R LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 105', col T between 15 and 15.7.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Hydrazine and ammonia tanks, elev. 115'.

SOURCE CODE: M-TANK

TARGET:  
Auxiliary feedwater pump motor 1-3, elev. 100'.

TARGET CODE: M-AFWPP1-3

POSTULATED INTERACTION:  
1/2" and 3/4" unions on piping to tanks fail, hydrazine and/or ammonia leaks onto motor below.

PHENOMENA CODE: PIPEFAIL & ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of piping system associated with tanks by simplified analysis.

S. E. Traisman 08/04/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Change the unions to socket welded flanges. PLS. Refer to resolution document.  
See ART-346.

B. Abella 01/07/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 02/15/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-02-01

FIRE ZONE 5-A-2 LOCATION Electrical Rms FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, DC switch gear unit 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Battery charger on floor. SOURCE CODE: N-BATT CHG

TARGET: FNJR (cable tray) TARGET CODE: E-FNJB

POSTULATED INTERACTION: Battery charger on wheels could roll and hit tray. PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or secure battery charger.

P. Anderson 06/04/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Battery charger not present in swgr. room as of 08/31/82.

*DWS*  
*8/2/84*  
DISCIPLINE ENGINEER/DATE

A. G. Barta 08/06/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE [NPO] NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-70-07-02

FIRE ZONE 5-A-4 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100', near Col. H & 16<sup>s</sup>.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Scaffolding.

SOURCE CODE: NS-CD

TARGET:  
Conduits K7231 and K7237 to PM 30.

TARGET CODE: E-K7231+

POSTULATED INTERACTION:  
Temp scaffolding is very close to target conduit and could crush them in event of seismic activity.

PHENOMENA CODE: HOUSEKEFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove scaffolding prior to operation.

P. Anderson 06/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Scaffolding to be removed per ART 192.

S. Hanusiak 07/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-02-03FIRE ZONE 6-A-5 LOCATION Electrical Room FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 115', 15<sup>7</sup> & H

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
HandrailsSOURCE CODE: C-HANDRAILTARGET:  
K7237TARGET CODE: E-K7237-2POSTULATED INTERACTION:  
Handrails are not secured.PHENOMENA CODE: LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure handrails prior to operation.P. Anderson 6/10/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Handrails to be secured per ART No. 190.  
(attached)S. Hanusiak 07/20/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 7/28/81  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE5/2  
7/21/81

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-02-04

FIRE ZONE 14-A LOCATION Turbine Bldg FLOOR ELEVATION 104'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117', 2' N and E of turbine pedestal cols. C and 7.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: MSR 1-1C HP STM supply leak off line K14-4434-1" SOURCE CODE: P-4434-1

TARGET: Conduit K2666-1" TARGET CODE: E-K2666-1

POSTULATED INTERACTION: Conduit runs N - S, source line runs E - W, existing clearance 2". Source line free to slide off supports and impact conduit. PHENOMENA CODE: LOOSE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add restraint on supports for line 4434 in vicinity of interaction to prevent line from slipping off support.

S. E. Traisman 07/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added support by generic DCN DC1-EP-5061-FGR DWG No. 049339 Sht. 349, Rev. 1.

C. R. VanNatta 08/19/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/19/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-02-06FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 116', Col. 5, between Cols. C and D.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Support bracket mounted off of 6" const. air hdr. line.

SOURCE CODE: P-SA-14ATARGET:

Conduit K2666-1.

TARGET CODE: E-K2666-1POSTULATED INTERACTION:

Support bracket mounted off of 6" const. air header line (for support of small bore const. lines) touches conduit. Seismic excitation of header line could damage conduit.

PHENOMENA CODE: E-K2666-1RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove source line before plant operation.

S. E. Traisman 07/20/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by NPPR DCO-83-NO-P0017.

DISCIPLINE ENGINEER/DATEJ. J. Vranicar 07/24/84ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAMFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-02-07FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'

LOCATION WITHIN FIRE ZONE:  
 Elev. 116' col. line 6 between C and D.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Air operator chamber for FCV-723 (on cond. bypass around SW evap. line - 24").  
SOURCE CODE: M-FCV723

TARGET: K2666-1" conduit.  
TARGET CODE: E-K2666-1

POSTULATED INTERACTION: Air operator chamber fails at connection to valve operator. Conduit cated 1-1/2" below chamber is damaged.  
PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify integrity of air chamber by simplified analysis.

S. E. Traisman 07/20/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Reroute conduit K2666-1" underneath cross I-beam running between col. 5 and 6 at column line "C". Resolved by modification. See ART 423 for details.

AGB

N. Barangan 08/05/83  
DISCIPLINE ENGINEER/DATE

C. Kahl 08/05/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 01-20-02-09FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117' between column lines 5 and 7 and C and D.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fluorescent light fixture support beam (5 locations).

SOURCE CODE: E-LF-14ATARGET:

Conduit K2666-1".

TARGET CODE: E-K2666-1POSTULATED INTERACTION:PHENOMENA CODE: FIXTURE

East-west horizontal support beam for a row of fluorescent light fixtures (typ 4 fixtures per beam) is above target conduit. Connection tying support beam to turbine building structure. Steel fails or slips loose, support beam impacts conduit below. Existing source/target clearance 1".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Resupport light fixture support beam in vicinity of target conduit so that interaction is eliminated.

S. Traisman 07/20/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Light fixtures are installed in accordance with DWG No. 050041 details 31 thru 36. These details are seismically qualified by civil engineering calculation No. 52.24.52, Rev. 3. (Refer to same calculation, p. 54.1 for details).  
 Resolved by analysis.

S. R. Wang 08/03/83DISCIPLINE ENGINEER/DATES. Auer 08/29/84ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-01-03-02

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 125, at MFW loop 3 penetration.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Pipe whip restraint.

SOURCE CODE: P-0557-16

TARGET:  
 1" tie-in & root valve to MFW line 557-16".

TARGET CODE: PA-0557-16

POSTULATED INTERACTION: Vertical movement of whip restraint results in impact with 1" tie-in root valve.  
PHENOMENA CODE: DEFLECT & SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Remove tie-in & root valve to eliminate interaction.
2. Extend root valve away from whip restraint and add supports to whip restraint to reduce deflection and possible impact with 1" tie-in pipe.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Interaction is resolved per ART 275. Also, the rod hanger hooks have been replaced w/eye hooks. See RLCA resolution report #26 and tech. review.

DISCIPLINE ENGINEER/DATE

J. A. Longworth  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. Chestnut 04/27/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 05/15/84  
SIP PROJECT ENGINEER APPROVAL/DATE.

*Sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-01-04-02FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, near MFW loop 4 penetration.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Pipe whip restraint to line 556-16".

SOURCE CODE: P-0556-16TARGET:

1" tie-in &amp; root valve to MFW line 556-16".

TARGET CODE: PA-0556-16POSTULATED INTERACTION:

Lateral movement of whip restraint results in impact with tie-in pipe.

PHENOMENA CODE: DEFLECT & SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Remove tie-in & root valve, or
  2. Reroute tie-in connection away from whip restraint.
- Note: Root valve has seal welded threaded connections.

M. Jones 06/11/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Interaction is resolved per ART 225. Also, the rod hanger hooks have been replaced w/eye hooks. See IDS No. 02-01-03-02 for resolution. See RLCA Report #26.

DISCIPLINE ENGINEER/DATEJ. A. Longworth  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. Chestnut 04/27/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 05/15/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-01-04-03FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 120, MFW loop 4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grate.SOURCE CODE: C-PLAT-3BBTARGET:  
Vent pipe & root valve to MFW line 556-16" between FCV-441 & isolation check valve.TARGET CODE: PA-0556-16POSTULATED INTERACTION:  
Movement of MFW pipe or grate results in impact with vent pipe.PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut grate away from vent pipe consistent with thermal & seismic movements.M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
2" min. clearance will be provided per ART 166.S. Hanusiak 07/15/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 07/29/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAM

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE34  
7/27/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-03-02-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 109, on containment wall, near Column N.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Steam line, 1" diameter pipe with 1" of insulation. SOURCE CODE: NS-T

TARGET: Conduit K5865 TARGET CODE: E-K5865-1.25

POSTULATED INTERACTION: Postulated heat damage to the conduit with the steam line 1/8" away. PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure the integrity of the conduit by analysis or reroute K5865 locally.

Edward Dennison 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by analysis described in RLCA report No. 40.

Shah Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

53

POSTULATED INTERACTION NO.: 02-03-02-02

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 120, east end of platform 9' from the containment.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Main steam dump.

SOURCE CODE: NS-T

TARGET:  
K5865 conduit.

TARGET CODE: K5865

POSTULATED INTERACTION:  
Eight inch clearance between the steam dump main and K5865. Postulated heat damage due to missing insulation.

PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of the conduit by analysis or replace the missing insulation.

Edward Dennison 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis as described in RLCA Report #43.

S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF FE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 04-18-83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-03-02-03

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 89, at containment wall, col. line 11.7.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Turbine building roll-up door #192.

SOURCE CODE: C-DOOR

TARGET:

Conduit K6067-1 1/4".

TARGET CODE: E-K6067-1.25

POSTULATED INTERACTION:

Roll-up door & associated mechanism falls, impacts conduit.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of door/roll-up mechanism by simplified analysis.

M. Jones 06/30/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Roll-up door and associated mechanism have been seismically qualified by analysis. See resolution sheet & Calc. No. 02-03-02-03.

S. Gaballah 09/01/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 09/09/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5-49  
3/6/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-03-02-04FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

EL 105', 4' from containment wall, azimuth 20°

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Gland steam and air ejector to plant vent 16" line. SOURCE CODE: P-1743-16

TARGET: Conduit K5865-1<sup>1</sup>/<sub>4</sub>. TARGET CODE: E-K5865-1.25

POSTULATED INTERACTION: Pipe clamp for source line impacts conduit and damages conduit. Clearance is 0". PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Relocate pipe clamp hanger east approx. 3'-0" to next available support location.

S. E. Traisman 06/30/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Recommended resolution - OK. See DCN-DC1-EP-5062, HGR. DWG. 049306-7/5R, SHT #7.

C. R. VanNatta 07/21/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 07/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS).

POSTULATED INTERACTION NO.: 02-03-02-07FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 108', east end of pipe rack.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Conduit KRO134 - 3/4".

SOURCE CODE: F-R-28TARGET:

Conduit K5865 - 1 1/4".

TARGET CODE: E-K5865-1.25POSTULATED INTERACTION:

Source and target conduits impact and damage K5865 conduit. Clearance is nil.  
 Source conduit appears over-spanned due to missing support.

PHENOMENA CODE: INTERFFRFRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add support to conduit KRO134 in vicinity of point of contact with K5865.

S. E. Traisman 06/30/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added additional support to conduit.  
 See ART 343. Resolved by modification.

Add

M. J. Hanz 02/07/83  
 DISCIPLINE ENGINEER/DATE

G. L. Glasscock 02/07/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/18/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 08/23/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-04-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near MFW Loop 3 Penetration

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (Ball/Socket mount) SOURCE CODE: E-LF-3BB

TARGET: MFW Isolation Valve FCV-440 Power & Control Cable TARGET CODE: M-FCV440

POSTULATED INTERACTION: Fixture falls, impacts power & control cable. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, Detail 9 (Category X).

*Act's* This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-04-01-02FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 125, near MFW loop 3 penetration.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead platforms (2), railings, grates & ladder. SOURCE CODE: C-PLAT-3BB

TARGET: MFW isolation valve FCV-440 & operator. TARGET CODE: M-FCV440

POSTULATED INTERACTION: Platforms, etc. fall, impact operator and valve. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The platforms, railings, grating and ladder have been seismically qualified by analysis. See resolution sheet and Calc. 02-04-01-02.

S. Hanusiak 02/03/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
7/23/77



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 02-05-01-02

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near loop 4 MRW penetration.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead platforms (2), railings, grates & ladder. SOURCE CODE: C-PLAT-3BB

TARGET: MFW isolation valve FCV-441 & operator. TARGET CODE: M-FCV441

POSTULATED INTERACTION: Platforms, etc. fall, impact FCV-441 and operator. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platforms, railings, grates and ladder have been qualified by analysis. See resolution sheet and Calc. 03-19-01-01 and Calc. 03-64-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*5.62*  
*7/21/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-01-01-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 119, near MS containment penetrations, loops 1&amp;2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead cyclone fence panels, platforms, grates, & railings.  
SOURCE CODE: C-PLAT-28

TARGET: PT-514 instrument tap & tubing.  
TARGET CODE: I-PT514

POSTULATED INTERACTION: Sources fall, impact tap and tubing.  
PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of sources listed above by simplified analysis.

M. Jones 06/04/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The sources have been qualified by analysis. See resolution sheet, referenced Calc. No. 03-01-01-01 and referenced Calc. No. 30-01-54-07.

S. Hanusiak 01/23/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 8/6/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-01-01-02FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'

## LOCATION WITHIN FIRE ZONE:

Elev. 105, under MS loop 1, near containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 3433-1 1/2"; steam lead 1 drain.

SOURCE CODE: P-3433-1.50TARGET:

Instrument tubing to PT-514.

TARGET CODE: I-PT514POSTULATED INTERACTION:

Lateral movement of line 3433 results in impact with tubing.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add lateral restraint to line 3433 to preclude contact.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added & modified pipe supports. See pipe support Dwg. No. 44-4 Rev. 3 and hanger dwg. 049315 sht. 380 on generic DCN DC1-UP-5061-PRO & 049308 sht. 160 on generic DCN DC1-EP-5060.

C. R. VanNatta 05/13/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 05/13/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EM ENG GC HVAC I&amp;C [PSE] NPO NAM

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 03-01-01-03

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 90-115, pipe rack area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Tubing to PT-514.

TARGET CODE: I-PT514

POSTULATED INTERACTION: PHENOMENA CODE: HOUSEKEEP  
Tubing has been damaged during construction & has had support clips removed in some places.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Inspect tubing and repair if/as required. Add missing support clips.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-01-02-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

ELEV. 85, under MS Loops 1,2 along containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3103 - 2"; fan heating coil trap drain header SOURCE CODE: P-3103-2

TARGET: Mechanical panel 103 and attached tubing TARGET CODE: I-PM103

POSTULATED INTERACTION: Line 3103 falls on mechanical panel due to lack of vertical support and failure of threaded couplings. PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Install additional pipe supports as required to preclude falling of pipe.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Added and modified supports per ART 149 and Cloud Res. RPT. 20..

J. A. Ante 05/12/81  
DISCIPLINE ENGINEER/DATE

S. Chitnis  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-01-02-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, under MS loops 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

SOURCE CODE: C-PLAT-28

Overhead platforms (2 levels), grates, handrails, and security barrier panel ladder; grating.

TARGET:

TARGET CODE: I-PM103

Mechanical panel 103 and attached tubing.

POSTULATED INTERACTION:

PHENOMENA CODE: CIVILFAIL

Platforms fall, impact mechanical panel.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-01-02-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SL  
8/1/82

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-02-01-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
ELEV. 105, under MS Loop 1, near containment

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 3433 - 1-1/2"; steam lead 1 drain

SOURCE CODE: P-3433-1.50

TARGET:  
Instrument tubing to PT-515

TARGET CODE: I-PT515

POSTULATED INTERACTION:  
Lateral movement of line 3433 results in impact with tubing.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral restraint to line 3433 to preclude contact.

M. G. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS #03-01-01-02.

C. R. Van Natta 05/13/83  
DISCIPLINE ENGINEER/DATE

J. A. Longworth 05/13/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-02-01-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 119, near MS containment penetrations, loops 1&2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead cyclone fence panels, platforms, grates, & railings.  
SOURCE CODE: C-PLAT-28

TARGET: PT-515 instrument tap & tubing.  
TARGET CODE: I-PT515

POSTULATED INTERACTION: Platforms fall, impact taps and tubing.  
PHENOMENA CODE: CIVIL.FAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of structurals listed above by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-01-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
3/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-02-01-03

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 90-115, pipe rack area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Tubing to PT-515.

TARGET CODE: I-PT515

POSTULATED INTERACTION:  
Tubing has been damaged during construction & has had support clips removed in some places.

PHENOMENA CODE: HOUSFKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Inspect tubing and repair if/as required. Add missing support clips.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-02-02-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

ELEV. 85, under MS Loops 1,2 along containment wall

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 3103-2"; fan heating coil trap drain header

SOURCE CODE: P-3103-2TARGET:

Mechanical panel 107 and attached tubing.

TARGET CODE: I-PM107POSTULATED INTERACTION:

Line 3103 falls on mechanical panel due to lack of vertical support and failure of threaded couplings.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install additional pipe supports as required to preclude falling of pipe.

M. G. Jones 06/04/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added supports - See IDS #03-01-02-01.

J. A. Ante 05/12/81

DISCIPLINE ENGINEER/DATE

S. Chitnis

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NANS. E. Traisman 08/24/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/08/83

SIP PROJECT ENGINEER APPROVAL/DATE

*Sw*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-02-02-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, under MS loops 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-PLAT-28  
Overhead platforms (2 levels), grates, handrails, and security barrier panel grating and ladder.

TARGET: TARGET CODE: I-PM107  
Mechanical panel 107 and attached tubing.

POSTULATED INTERACTION: PHENOMENA CODE: CIVILFAIL  
Platforms fall, impact mechanical panel.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-01-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*3/8/81*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-03-01-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0

## LOCATION WITHIN FIRE ZONE:

Elev. 105, under MS loop 1, near containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 3433-1 1/2"; steam lead 1 drain.

SOURCE CODE: P-3433-1.50TARGET:

Instrument tubing to PT-516.

TARGET CODE: I-PT516POSTULATED INTERACTION:

Lateral movement of line 3433 results in impact with tubing.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add lateral restraint to line 3433 to preclude contact.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 See IDS #03-01-01-02.

C. R. VanNatta 05/13/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 05/13/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO MAN

S. E. Traisman 10/20/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-03-01-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 119, near MS containment penetrations, loops 1&2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead cyclone fence panels, platforms, grates, & railings. SOURCE CODE: C-PLAT-28

TARGET: PT-516 instrument tap & tubing. TARGET CODE: I-PT516

POSTULATED INTERACTION: Structural fall, impact tap and tubing. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of structurals listed above by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The structures have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-03-02-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, under MS Loops 1,2 along containment wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3103-2"; fan heating coil trap drain header SOURCE CODE: P-3103-2

TARGET: ,Mechanical panel 111 and attached tubing TARGET CODE: I-PM111

POSTULATED INTERACTION: Line 3103 falls on mechanical panel due to lack of vertical support and failure of threaded couplings. PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install additional pipe supports as required to preclude falling of pipe.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added supports - See IDS #03-01-02-01.

J. A. Ante 05/12/81  
DISCIPLINE ENGINEER/DATE

S. Chitnis  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-03-02-02FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, under MS loops 1,2 along containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platforms (2 levels), grates, handrails, and security barrier panel grating and ladder.

SOURCE CODE: C-PLAT-28TARGET:

Mechanical panel 111 and attached tubing.

TARGET CODE: I-PM111POSTULATED INTERACTION:

Platforms fall, impact mechanical panel.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-01-01-01.

S. Hanusiak 02/19/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-03-03-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 118'-0"

LOCATION WITHIN FIRE ZONE:  
Outside GW north wall near col. line 11, elev. 120'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Conduit KT610.

TARGET CODE: F-KT610-1

POSTULATED INTERACTION:  
Flex is severed and wires are exposed.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Fix flex conduit.

G. Worisky 06/01/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved per ART 158. Replace broken flex conduit KT610.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/15/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAN

S. E. Traisman 09/29/82  
FFFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP-PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-03-03-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:

Outside area GW north wall, elev. 130, along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform and railings.

SOURCE CODE: C-PLAT-28

TARGET:

K5837, K6411, KT610 conduits.

TARGET CODE: E-KT610-1

POSTULATED INTERACTION:

Platform and railings fail and impact conduits.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform and railings.

E. W. Worinsky 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source components have been seismically qualified by analysis. See resolution sheet and Calc. #03-03-03-02.

S. Hanusiak 01/16/82  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/20/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.*  
*8/8/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-04-01-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 119, near MS containment penetrations, loops 1&amp;2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-PLAT-28  
 Overhead cyclone fence panels, platforms, grates, and railings.

TARGET: TARGET CODE: I-PT524  
 PT-524 instrument tap and tubing.

POSTULATED INTERACTION: PHENOMENA CODE: CIVILFAIL  
 Structural fall, impact tap and tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of structurals listed above by simplified analysis.

M. Jones 06/04/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Qualified by analysis. See resolution sheet & Calc. No. 03-04-01-01.

S. Hanusiak 01/30/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

5/6  
2/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-04-01-02

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 90-115, pipe rack area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Tubing to PT-524.

TARGET CODE: I-PT524

POSTULATED INTERACTION: PHENOMENA CODE: HOUSFKFP  
Tubing has been damaged during construction & has had support clips removed in some places.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Inspect tubing and repair if/as required. Add missing support clips.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EF FMS ENG GC HVAC I&C PSE NPO NAN [QC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-04-02-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, under MS Lead 1,2 along containment wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3103-2"; fan heating coil trap drain header SOURCE CODE: P-3103-2

TARGET: Mechanical panel 104 and attached tubing. TARGET CODE: I-PM104

POSTULATED INTERACTION: Line 3103 falls on mechanical panel due to lack of vertical support and failure of threaded couplings. PHENOMENA CODE: PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install additional pipe supports as required to preclude falling of pipe.

M. G. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added supports - See IDS #03-01-02-01.

S. A. Ante 05/12/81  
DISCIPLINE ENGINEER/DATE

S. Chitnis  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAW

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-04-02-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, under MS loops 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

SOURCE CODE: C-PLAT-28

Overhead platforms (2 levels), grates, handrails, security barrier panel grating, ladder.

TARGET:

TARGET CODE: I-PM104

Mechanical panel 104 and attached tubing.

POSTULATED INTERACTION:

PHENOMENA CODE: CIVILFAIL

Platforms fall, impact mechanical panel.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platforms have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak

DISCIPLINE ENGINEER/DATE

E. P. Wollak

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S-S  
9/16/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-05-01-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 119, near containment penetrations, MS loops 1&2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead cyclone fence panels, platforms, grates, and railings. SOURCE CODE: C-PLAT-28

TARGET: PT-525 instrument tap & tubing. TARGET CODE: I-PT525

POSTULATED INTERACTION: Structural fall, impact tap and tubing. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of structurals listed above by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

S.G.  
8/17/82

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-05-01-02

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 90-115, pipe rack area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Tubing to PT-525.

TARGET CODE: I-PT525

POSTULATED INTERACTION: PHENOMENA CODE: HOUSEKEEP  
Tubing has been damaged during construction & has had support clips removed in some places.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Inspect tubing and repair if/as required. Add missing support clips.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

\_\_\_\_\_  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-05-02-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, under MS Lead 1,2 along containment wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3103-2"; fan heating coil trap drain header  
SOURCE CODE: P-3103-2

TARGET: Mechanical panel 108 and attached tubing  
TARGET CODE: I-PM108

POSTULATED INTERACTION: Line 3103 falls on mechanical panel due to lack of vertical support and failure of threaded couplings.  
PHENOMENA CODE: PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Install additional pipe supports as required to preclude falling of pipe.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Added supports - See IDS #03-01-02-01.

J. A. Ante 05/12/81  
DISCIPLINE ENGINEER/DATE

S. Chitnis  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-05-02-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, under MS loops 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-PLAT-28  
Overhead platforms (2 levels), grates, handrails, and security barrier panel grating and ladder.

TARGET: TARGET CODE: I-PM108  
Mechanical panel 108 and attached tubing.

POSTULATED INTERACTION: PHENOMENA CODE: CIVILFAIL  
Platforms fall, impact mechanical panel.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified by analysis. See resolution sheet and referenced Calc. Nos. 03-04-01-01 & 03-04-02-02.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.S.*  
*8/1/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-05-02-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Azimuth 310°, adjacent to crane wall (1'-6" away).

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: H-DUCT-1B  
 Trapeze hanger for supply air duct at bottom of reactor vessel.

TARGET: TARGET CODE: I-LT501  
 Instrument lines to FIC 499A (RCS RTD flow controller) and LT-501 (SGJ-1 level).

POSTULATED INTERACTION: PHENOMENA CODE: DFLFCT  
 Trapeze hanger undergoes large displacements during seismic event and impacts the target installation lines running along crane wall approximately 1'-6" away. Rod hangers are attached to support beam with "C" clamps: A suspect configuration.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Provide restraint to trapeze or alternative hanger configuration.  
 Note: This interaction is a result of final SIP area walkdown.

S. Chesnut 09/28/83  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Reference telecon A. Matyes & J. Dokladal dated 10/05/82. The support to be removed since it does not impact the duct/duct support seismic qualification. See ART 450.

J. Dokladal  
 DISCIPLINE ENGINEER/DATE

J. A. Longworth 10/05/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAW

S. E. Traisman 11/29/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-06-01-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 119, near containment penetrations, MS loops 1&2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead cyclone fence panels, platforms, grates, and railings. SOURCE CODE: C-PLAT-28

TARGET: PT-526 instrument tap & tubing. TARGET CODE: I-PT526

POSTULATED INTERACTION: Structural fall, impact tap and tubing. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of structurals listed above by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S-G  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-06-02-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, under MS loops 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

SOURCE CODE: C-PLAT-28

Overhead platforms (2 levels), grates, handrails, and security barrier panel grating and ladder.

TARGET:

TARGET CODE: I-PM112

Mechanical panel 112 and attached tubing.

POSTULATED INTERACTION:

PHENOMENA CODE: CIVILFAIL

Platforms fall, impact mechanical panel.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SIG  
8/11/82



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-06-02-02

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, under MS leads 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3103-2"; fan heating coil trap drain header SOURCE CODE: P-3103-2

TARGET: Mechanical panel 112 and attached tubing TARGET CODE: I-PM112

POSTULATED INTERACTION: Line 3103 falls on ;mechanical panel due to lack of vertical support and failure of threaded couplings. PHENOMENA CODE: PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install additional pipe supports as required to preclude falling of pipe.

M. G. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added and modified supports. See IDS No. 03-01-02-01.

J. A. Ante 05/12/81  
DISCIPLINE ENGINEER/DATE

S. Chitnis  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-07-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, along containment wall, 215°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead platform is used for the support of target. SOURCE CODE: C-PLAT-388

TARGET: Class 1A instrument tubing. TARGET CODE: I-TUBING

POSTULATED INTERACTION: Platform falls, damaging tubing. Platform could also impact Class I instrument panels. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure that platform is Class I or qualify accordingly by analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been seismically qualified by analysis subject to modification.  
See resolution sheet Rev. 1 and IDS file No. 06-60-10-05.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08-08-80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

54  
7/23/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-07-02-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 115, near Containment, 215°

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. SOURCE CODE: E-LF-3BBTARGET: Mechanical Panel 106 and attached tubing. TARGET CODE: I-PM106POSTULATED INTERACTION: Fixture falls, impacts panel. PHENOMENA CODE: FIXTUREFRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Act*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-07-02-02FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, near containment, 215°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Ladder.

SOURCE CODE: C-PLAT-388TARGET:

Mechanical panel 106 and attached tubing.

TARGET CODE: I-PM106POSTULATED INTERACTION:

Ladder falls, impacts panel.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of ladder by simplified analysis.

M. Jones 06/04/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Ladder qualified by analysis. See resolution sheet and  
Calc. No. 03-07-02-02.

S. Hanusiak 08/08/80  
 DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-08-01-01FIRE ZONE 3-8B LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture, ball/socket mounted. (2 fixtures)

SOURCE CODE: E-I.F-388TARGET:

PT-535 Tubing

TARGET CODE: I-PT534POSTULATED INTERACTION:

Fixture falls, impacts PT-535 Tubing

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).

This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-08-01-02

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near MS Loop 3, 4 Penetration

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures) SOURCE CODE: E-1 F-3BR

TARGET: PT-534 Tubing TARGET CODE: I-PT534

POSTULATED INTERACTION: Fixture falls, impacts PT-534 Tubing PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

*Asis*

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-09-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures)  
SOURCE CODE: E-LF-388

TARGET: PT-536 Tubing  
TARGET CODE: I-PT536

POSTULATED INTERACTION: Fixture falls, impacts PT-536 Tubing  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, Detail 9 (Category X).  
*As is* This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-09-02-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, near containment, 215°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Ladder.

SOURCE CODE: C-PLAT-38B

TARGET:  
Mechanical panel 113 and attached tubing.

TARGET CODE: I-PM113

POSTULATED INTERACTION:  
Ladder falls, impacts panel.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of ladder by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Ladder qualified by analysis. See resolution sheet and Calc. No. 03-07-02-02.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*56*  
*7/28/84*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-10-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: E-LF-3BB  
 Overhead light fixture, ball/socket mounted. (2 fixtures)

TARGET: TARGET CODE: I-PT544  
 PT-544 Tubing

POSTULATED INTERACTION: PHENOMENA CODE: FIXTURE  
 Fixture falls, impacts PT-544 Tubing

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).  
 This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 8/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-12-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures) SOURCE CODE: E-LF-3BB

TARGET: PT-546 Tubing TARGET CODE: I-PT546

POSTULATED INTERACTION: Fixture falls, impacts PT-546 Tubing PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Act* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 8/24/83  
SIP. PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-17-01-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 109'-6"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, near containment penetration, MS loop 1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead platforms, grates, handrails, etc. SOURCE CODE: C-PLAT-28

TARGET: Operator to valve FCV-41. TARGET CODE: M-FCV41

POSTULATED INTERACTION: Platforms, etc. fall, impact operator. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.S.  
8/1/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-17-07-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109'-6"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', east end of pipe rack near STM lead 1-1 MSIV.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

FCV-25 value body.

SOURCE CODE: M-FCV25TARGET:

Terminal box to actuator for MSIV FCV-41.

TARGET CODE: M-FCV41POSTULATED INTERACTION:PHENOMENA CODE: MECHFAL

Terminal box is rigidly attached to adjacent structural steel. FCV-25 (and associated equalizing line around FCV-41) will have thermal and seismic motion which could damage terminal box and associated conduits to box. Existing cold clearance between terminal box and valve insulation is 0".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Determine thermal growth and seismic motion of main steam line at MSIV FCV-41 in southerly direction. Motion of equalizing line and FCV-25 will be the same as MSL motion as they are rigidly connected. If motion in southerly direction is sufficient to damage terminal box (approximately 2"), relocate terminal box.

S. E. Traisman 06/30/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Pipe thermal movement is away from targets per calc. by E. L. Green dated 10-27-83.

E. L. Green 10/27/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 10/28/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-18-01-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 109'-6"

LOCATION WITHIN FIRE ZONE:

Elev. 110, near containment penetration, MS loop 2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platforms, grates, handrails, etc.

SOURCE CODE: C-PLAT-28

TARGET:  
Operator to valve FCV-42.

TARGET CODE: M-FCV42

POSTULATED INTERACTION:  
Platforms, etc. fall, impact operator.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platforms, etc. have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
3/4/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-18-07-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION \_\_\_\_\_

## LOCATION WITHIN FIRE ZONE:

Elev. 117', east end of pipe rack NR STM lead 1-2 MS.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

MSIV FCV-42 actuator.

SOURCE CODE: M-FCV25TARGET:

Terminal box to MSIV FCV-42.

TARGET CODE: E-FCV42POSTULATED INTERACTION:PHENOMENA CODE: INTERFERE/DEFLECT

Seismic motion of main STM line 1-2 could result in actuator for MSIV FCV-42 impacting terminal box support and damaging terminal box. Terminal box is rigidly supported to adjacent structural steel, while main steam is not (although it is snubbed in the immediate area). Existing clearance approx. 3/8"

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Cut away a portion of unistrut support for terminal box to provide 2" clear clearance between terminal box and actuator.

S. E. Traisman 06/30/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

As recommended above, cut away a portion of unistrut support for terminal box to provide 2" clearance between terminal box and actuator. See ART 329.

Peter P. Chu 11/17/82  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 11/17/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 10/14/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-18-07-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 109'-5"

LOCATION WITHIN FIRE ZONE:  
Elev. 109'6", pipe rack.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platform grating elev. 109'5 1/4", platform 42FW. SOURCE CODE: C-PLAT-28

TARGET: Conduit K-5807-1". TARGET CODE: E-K5807-1

POSTULATED INTERACTION: Sharp point of floor grating contacts conduit. Relative motion between grating and conduit could damage conduit. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut away a portion of platform grating to provide 2" clearance between grating and conduit.

S. E. Traisman 06/30/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Provide 2" clearance between grating and conduit No. K-5807-1" as recommended per ART-358.

S. Gaballah 04/05/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 04/19/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 09/08/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.E.*  
*8/6/84*



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-19-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, GW area, near loop 3 penetration.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform, grates, handrails.

SOURCE CODE: C-PLAT-3BB

TARGET:  
Operator to FCV-43.

TARGET CODE: M-FCV43

POSTULATED INTERACTION:  
Platform, etc. falls, impacts operator.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform etc. qualified by analysis. See resolution sheet and  
Calc. No. 03-19-01-01.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*SC*  
*7/29/82*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-19-03-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 120, under FCV-43.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platforms 3 GW & 8 GW.SOURCE CODE: C-3GWTARGET:  
Air supply tubing to FCV-43.TARGET CODE: M-FCV43POSTULATED INTERACTION:  
Platforms fall, impact tubing.PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms by simplified analysis. Secure grates to platforms as needed.

M. Jones 11/05/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources have been qualified subject to modification per ART 85. See resolution sheet and Calc. No. 03-19-01-01, No. 03-64-01-01.

S. Hanusiak 02/04/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 03/09/81  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION:  CE  EE  EMS  ENG  GC  HVAC  I&C  PSE  NPO  NANS. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-19-07-03FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 115', area GW, below FCV43.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CNTARGET:

K6110 at BJK 247.

TARGET CODE: E-K6110-1.50POSTULATED INTERACTION:

Cover plate missing.

PHENOMENA CODE: HOUSEKEFPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace missing cover plate.

E. Denison 06/08/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved per ART 161. Replace missing coverplate.

DISCIPLINE ENGINEER/DATEA. G. Barta 07/15/81ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF FE EMS ENG [QC] HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/31/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 10/28/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 03-20-03-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, under FCV-44

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Insulation to lines 3421 & 3411

SOURCE CODE: NS-T

TARGET:  
Air supply flexible hose to FCV-44.

TARGET CODE: M-FCV44

POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON  
Hot insulation causes heat damage to flexible hose.  
Flexible hose-synflex 3000-16, SAE 100R7, 1" Samuel Moore #9-0018.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify by analysis that temperature of surface of insulation is low enough to preclude damage to flexible hose.

M. Jones 11/05/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Line qualified by thermal analysis, see RLCA Resolution Report #25

Shah Motiwalla 04/27/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 04/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09-30-82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-03-02FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 120, under FCV-44.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platforms 3 GW & 5 GW and associated ladders. SOURCE CODE: C-3GWTARGET: Air supply tubing to FCV-44. TARGET CODE: M-FCV44POSTULATED INTERACTION: Platforms fall, impact tubing. PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms/ladders by simplified analysis. Secure grates to platforms as needed.M. Jones 11/05/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been qualified subject to ART 85. See resolution sheet and Calc. No. 03-20-03-02.S. Hanusiak 03/12/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 03/12/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

S: E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATES  
7/21/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 03-20-07-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
EL 125, Adjacent to main steam FCV 22.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Main steam line 225-28" with insulation.

SOURCE CODE: P-0225-28

TARGET:  
Conduit K6457 and tee it connects into.

TARGET CODE: E-K6457-1.25

POSTULATED INTERACTION:  
Motion under thermal expansion impacts conduit.

PHENOMENA CODE: INTERFERE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Show by analysis that thermal motion of LZ25 will not damage conduit contents.

B. Worinski 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
No modification required. I-Beam support prevents impact to the target (Conduit K6457). See sketch shown on IDS No. 03-20-07-01.

R. P. Espinelli  
DISCIPLINE ENGINEER/DATE

W. Vahlstrom 07/12/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/04/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

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POSTULATED INTERACTION NO.: 03-20-07-02FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125' adjacent to main steam FCV 22.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Radiant heat from main steam line lead #4.

SOURCE CODE:NS-TTARGET:

Conduit K6457-1.25.

TARGET CODE:E-K6457-1.25POSTULATED INTERACTION:

Conduit runs within 5" of uninsulated section of 536 °F main steam line. Wires within conduit rated to max. 90° C.

PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure wires can withstand expected temperatures.

G. Whorisky 05/08/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Install 2" of 1" insulation to conduit K6457 to protect cable from heat damage per ART 383. For eng. resolution see RICA Report #42.

R. J. Swaim 07/27/83

DISCIPLINE ENGINEER/DATE

S. Auer 06/01/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-07-04

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, below main steam FCV 22.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
L4347-3"

SOURCE CODE: P-4347-3

TARGET:  
K6702.

TARGET CODE: E-K6702-1

POSTULATED INTERACTION: 4347-3" swings due to being supported by clevis rod hangers. PHENOMENA CODE: DEFLECT  
impacts K6702.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Demonstrate by simplified analysis that integrity of conduit will not be compromised.

G. Whorisky 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Rerouted the conduit per ART-222. See RLCA Resolution Report #33.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-07-05FIRE ZONE 3-8B LOCATION Penetration Areas FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 115 at 15 and L

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Main steam line 225-28" with insulation.SOURCE CODE: NS-TTARGET:  
Conduit K6464.TARGET CODE: E-K6464-1.25POSTULATED INTERACTION:  
Steam line moves under thermal expansion and impacts conduit.PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Demonstrate that motion of steam line will not damage integrity of conduit, or reroute conduit.P. Worinski 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Local reroute of target conduit per ART 222. For eng. resolution see R.L.C.A. Report #33.H. Luey 07/31/81  
DISCIPLINE ENGINEER/DATER. L. Cloud 07/30/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-07-06

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, Area GW FCV 22.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
SGBO to SGBD demins L4072, 5' diameter.

SOURCE CODE: P-4072-3

TARGET:  
K6702.

TARGET CODE: E-K6702-1

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
Horizontal pipe, already touching vertical K6702, will swing through conduit.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of the conduit or locally reroute K6702 along a nearby column.

E. Denison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See ART 222, Res. Rpt 33.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

\_\_\_\_\_  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. F. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO:  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

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POSTULATED INTERACTION NO.: 03-20-07-07

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, area GW, near FCV 22.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: NS-T  
SG 12 blowdown to flash TK L3876 and SG13 blowdown to flash TK L3876.  
(Both 3" diameter pipe with 1" of insulation).

TARGET: TARGET CODE: E-K6702-1  
Conduit K6702.

POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON  
Both steam pipes are 1/4" from K6702 (Postulated heat damage).

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of wires within conduit or reroute K6702 down nearby column.

Edward Dennison 06/03/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above interaction has been resolved by analysis per RLCA Resolution Report No. 42. No further action necessary.

NOTE: This resolution supercedes any previous resolution of this interaction. See ART-300.

S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 05/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-07-08FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 115', area GW, under FCV22.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: NS-T  
 SG14 blowdown to flash TK L3880 3" diameter pipe with 1" of insulation.

TARGET: TARGET CODE: E-K6703-1.25  
 K6703.

POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON  
 T-K6703 runs across the pipe and has dented the insulation.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure no heat damage to the wires inside K6703 or reroute the conduit.

E. Denison  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The above interaction has been resolved by analysis per RLCA Resolution Report No. 42. No further action necessary.  
 Note: This resolution supercedes any previous resolution supercedes any previous resolution of this interaction. See ART 300.

S. Motiwalla 08/26/81  
 DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 05/16/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-07-09FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 115. area GW, above FCV44.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Main Steam Lead 4 to turbine L585.

SOURCE CODE: NS-T

TARGET:  
 Conduit K6457 at the tee.

TARGET CODE: E-K6457-1.25

POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON  
 K6457 touches the insulation which causes the circuits in the conduit to  
 overheat and degrade the function of the circuit(s).

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure no heat damage to the wires inside K6457 or reroute the conduit.

Edward Dennison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by analysis described in RLCA Report #43.

S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/18/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-20-07-10FIRE ZONE 3-RB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 115, area GW, near FCV 44.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Main steam lead #4 to turbine L585 2' diameter pipe with 8" of insulation.  
SOURCE CODE: NS-T

TARGET: K6464 conduit  
TARGET CODE: E-K6464-1.25

POSTULATED INTERACTION: K6464 runs along the bottom of the main steam lead with no clearance.  
PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure no heat damage to the wires inside K6464 or reroute the conduit.

Edward Dennison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved per analysis described in RICA Report #43.

S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. I. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE FMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FFFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 04/18/83  
SIP PROJECT ENGINEER APPROVAL./DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-01-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 119'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 122, along outside wall of containment by MS loops 1,2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE: C-PLAT-28TARGET:

Instrument tubing to PCV-19.

TARGET CODE: I-PCV19POSTULATED INTERACTION:PHENOMENA CODE: CIVILFAIL & LOOSE

Grates slide into tubing due to failure of hold down clips.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install protection around tubing, possibly by using Uni-strut or Channel steel.

M. Jones 06/10/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Protective channel steel installed to protect tubing.  
See ART 272 and memo dated 07/10/80.DISCIPLINE ENGINEER/DATEG. H. Moore  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 08/31/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/92  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-02-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-10"

## LOCATION WITHIN FIRE ZONE:

Elev. 122, along outside wall of containment, near MS loop 2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

4" auxiliary feedwater pipe, line 476.

SOURCE CODE: P-0476-4TARGET:

Instrument tubing to PCV-19.

TARGET CODE: I-PCV19POSTULATED INTERACTION:

. lateral movement of 4" pipe results in impact with tubing.

PHENOMENA CODE: DEFI C TRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add plate to pipe support 1-24R to preclude large lateral movement of line 476.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added lateral restraint for line 1-Ka6-476-4 per stress analysis 2-118  
 Rev. 3. Issued for construction per DC1-EP-5060 & dwg. 049302, sheet 29.  
 (HGR. 1-24R). REF: RLCA No. 46.

B. Abella 12/08/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 12/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO 'MAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 04/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-72-02-02

FIRE ZONE 2B LOCATION Outside Area FLOOR ELEVATION 119'-10"

LOCATION WITHIN FIRE ZONE:

Flev. 177', along outside wall containment by MS loops 1,2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE:

C-PLAT-2B

TARGET:

Instrument tubing to PCV-19 (bottled air tubing to valve mounted SV on PCV-19).

TARGET CODE:

I-PCV19

POSTULATED INTERACTION:

Grates slide into tubing due to failure of holddown clips.

PHENOMENA CODE:

CIVILFAIL & LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install protection around tubing, possibly by using Uni-Strut or Channel steel.

M. Jones 06/10/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Install protective channel to protect tubing per ART 272.

E. M. Valeriano 07/10/80

DISCIPLINE ENGINEER/DATE

G. H. Moore 07/10/80

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

S. E. Traisman 08/31/82

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/29/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-03-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 122, along outside wall of containment by MS loops 1,2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE: C-PLAT-28TARGET:Instrument tubing to PCV-19 (normal air supply on N<sub>2</sub> supply tube to valve mounted SV on PCV-19).TARGET CODE: I-PCV19POSTULATED INTERACTION:

Grates slide into tubing due to failure of holddown clips.

PHENOMENA CODE: CIVILFAIL & LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install protection around tubing, possibly by using Uni-Strut or Channel steel.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Protective channel steel installed to protect tubing per ART 272.

E. M. Valeriano 06/10/80  
DISCIPLINE ENGINEER/DATEG. H. Moore 06/10/80  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NANS. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS).

POSTULATED INTERACTION NO.: 03-22-03-02FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 122, along containment wall, near MS loop 2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE: C-PLAT-28TARGET:

3/4" copper tube air supply to PCV-19, 20.

TARGET CODE: I-PCV19POSTULATED INTERACTION:

Grates slide into tubing due to failure of holddown clips.

PHENOMENA CODE: CIVILFAIL & LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install guard pipe around tubing to protect from impact.

M. Jones 06/10/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Protection provided for tubing per ART 272.

E. M. Valeriano 06/10/80

DISCIPLINE ENGINEER/DATE

G. H. Moore 06/10/80

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NANS. E. Traisman 08/31/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-08-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 109'-6"

## LOCATION WITHIN FIRE ZONE:

Elev. 106, at turbine bldg. wall, near door 386 entrance to auxiliary bldg.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Approx. 2" diameter steam line to RO system. SOURCE CODE: P-USB-28

TARGET: Conduit K5849-3". TARGET CODE: E-K5849-3

POSTULATED INTERACTION: Lateral motion coupled w/failure of fixed end rod hangers of source pipe results in impact with conduit. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add bilateral pipe support to source pipe to reduce lateral motions. Add to beam between turbine & containment buildings, azimuth 270°. Keep lateral gaps at a minimum.

M. Jones 06/30/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution - OK. See DCN DCI-EP-5061 - HGR. DWG. 049339 sheets 350 & 351, (339/350R & 351R).

C. R. VanNatta 10/10/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 10/10/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 11/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-13-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, under MS. leads 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3103-2"; Fan heating coil trap drain header. SOURCE CODE: P-3103-2

TARGET: Mechanical panel 100 and attached tubing. TARGET CODE: I-PM100

POSTULATED INTERACTION: Line 3103 falls on mechanical panel due to lack of vertical support and failure of threaded couplings. PHENOMENA CODE: PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install additional pipe supports as required to preclude falling of pipe.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS No. 03-01-02-01. Added supports.

J. A. Ante 05/06/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 05/06/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-13-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, under MS loops 1,2 along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead platforms (2 levels), grates, handrails, security barrier panel grating and ladder. SOURCE CODE: C-PLAT-28

TARGET: Mechanical panel 100 and attached tubing. TARGET CODE: I-PM100

POSTULATED INTERACTION: Platforms fall, impact mechanical panel. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platforms qualified by analysis. See resolution sheet, referenced Calc. No. 03-01-01-01 and 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-24-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 127'-3 1/4"LOCATION WITHIN FIRE ZONE:  
Elev. 128, (N, 60)

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: NS-T  
 Vertical steam dump near outer containment wall.

TARGET: TARGET CODE: E-K5776+  
 Conduits K5776, K5862, K5842, K5861.

POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON  
 Noninsulated sections 4" away from conduit. Postulated heat damage.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of wires within conduit, insulate the steam dump, or reroute the conduit.

Edward Dennison 06/05/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Modification per ART # 289. (Addition of insulation)  
 Eng. resolution per RLCA #43.

S. Motiwalla 08/26/81  
 DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-24-02

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 127'-3"

LOCATION WITHIN FIRE ZONE:  
Elev. 128, (N, 6<sup>4</sup>).

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Vertical steam dump near outer containment wall. SOURCE CODE: P-ULB-28

TARGET: K5776, K5862, K5842, and K5861. TARGET CODE: E-K5776+

POSTULATED INTERACTION: Horizontal deflection of 4" by the vertical steam dump - hits the conduits on the wall. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of clearance by analysis of seismic and thermal movements.

E. Denison 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Field inspected by C. R. Van Natta (OPEG-Piping) & E. L. Green (OPEG-Piping) determined that the line K15-228-28 (with vertical steam dump) is adequately supported by existing configuration (anchor above the conduits and anchor at fluedhead). The line 228-28 show maximum temperature is 354° F, therefore it was sent to electrical group to investigate if conduits required insulation. Electrical group has advised me that insulation will not be required. (See item 17 drawing 50029). Therefore no action necessary.

C. R. VanNatta 09/22/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 09/22/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-22-24-03

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 127'-3"

LOCATION WITHIN FIRE ZONE:

Elev. 128, 10' from BJF17, near the containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating.

SOURCE CODE: C-PLAT-28

TARGET:  
K5774.

TARGET CODE: E-K5774-0.75

POSTULATED INTERACTION:  
Unbolted grating impacts the conduit.

PHENOMENA CODE: CIVILFAIL & LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Bolt down grating.

Edward Denison 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Grating to be bolted down per ART No. 187.

S. Hanusiak 07/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 09/29/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/6/74

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-24-01-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-10"

## LOCATION WITHIN FIRE ZONE:

Elev. 122, along outside wall of containment by MS loops 1,2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE: C-PLAT-28TARGET:

Instrument tubing to PCV-20 (signal tubing from R-20 to PCV-20)

TARGET CODE: I-PCV20POSTULATED INTERACTION:

Grates slide into tubing due to failure of holddown clips.

PHENOMENA CODE: CIVILFAIL & LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install protection around tubing, possibly by using Uni-Strut or Channel steel.

M. Jones 06/10/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Protective channel installed to protect tubing. Per ART 272.

E. M. Valeriano 06/10/80

DISCIPLINE ENGINEER/DATE

G. H. Moore 06/10/80

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NANS. E. Traisman 08/31/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-24-02-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-10"

## LOCATION WITHIN FIRE ZONE:

Elev. 122, along outside wall of containment MS loops 1,2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE: C-PLAT-28TARGET:

Instrument tubing to PCV-20 (bottled air tubing to SV mounted on PCV-20)

TARGET CODE: I-PCV20POSTULATED INTERACTION:

Grates slide into tubing due to failure of holddown clips.

PHENOMENA CODE: CIVILFAIL & LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install protection around tubing, possibly by using Uni-Strut or Channel steel.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Protective channel steel installed to protect tubing per ART 272.

E. M. Valeriano 06/10/80  
DISCIPLINE ENGINEER/DATEG. H. Moore 06/10/80  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NANS. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-24-03-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 122, along outside wall of containment by MS loops 1, 2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grates.

SOURCE CODE: C-PLAT-28

TARGET:

Instrument tubing to PCV-20 (normal air supply on N<sub>2</sub> supply tube to SV mounted on PCV-20).

TARGET CODE: I-PCV20

POSTULATED INTERACTION:

Grates slide into tubing due to failure of holddown clips.

PHENOMENA CODE: CIVILFAIL & LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install protection around tubing, possibly by using Uni-Strut or Channel steel.

M. Jones 06/10/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Protective steel channel installed to protect tubing per ART 272.

E. M. Valeriano 06/10/80

DISCIPLINE ENGINEER/DATE

G. H. Moore 06/10/80

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

S. E. Traisman 08/31/82

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/29/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-24-23-01FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109'-6"

## LOCATION WITHIN FIRE ZONE:

Elev. 115', east corner of pipe rack.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CDTARGET:

Air bottle to 10% steam dump valve, PCV-20.

TARGET CODE: M-BOTTLEPOSTULATED INTERACTION:

Support clamps have been removed and wire used for support of bottle.

PHENOMENA CODE: LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace missing support clamps.

M. Jones 06/30/87

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATEENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 05/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

55

POSTULATED INTERACTION NO.: 03-24-30-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 140', Azimuth 15° on containment wall on wall, near SG 1-3 release to atmosphere.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Uninsulated relief pipes.

SOURCE CODE: NS-T

TARGET:

Conduits K5786, K7684, and K7682 conduit.

TARGET CODE: F-K5786+

POSTULATED INTERACTION:

3/4" clearance to K5786  
3/4" clearance to K5784  
3/4" clearance to k5782

PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure no heat damage to the wires inside the conduits, insulate, or reroute.

Edward Dennison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved per analysis described in RLCA Report #50.

S. Motiwalla 09/30/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 10/01/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-24-30-02

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE: .  
Elev. 140', inside panel, 15', near SG1-3.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Construction deficiency. SOURCE CODE: NS-CD

TARGET: Flex conduits associated with K6505 and K5781. TARGET CODE: E-K6505+

POSTULATED INTERACTION: loose connection at coupling. PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Tighten connections to valve.

E. Denison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved per ART 155.

DISCIPLINE ENGINEER/DATE A. G. Barta 07/15/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-24-30-03

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 140, (15<sup>7</sup>), near SG 1-3 release to atmosphere.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: None. SOURCE CODE: E-R-28

TARGET: T-K6505, K5781, and K6506. TARGET CODE: F-K6505

POSTULATED INTERACTION: Vertical conduits impact, due to seismic movements. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of the conduits by analysis or provide horizontal bracing.

E. Denison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Provided horizontal bracing to secure conduits. See ART 233. Resolved by modification.

AGB

A. G. Barta 08/06/81  
DISCIPLINE ENGTNFR/DATE

S. Auer 08/29/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/29/82  
SIP PROJECT ENGTNFR APPROVAL/DATE





PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-26-13-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures) SOURCE CODE: E-LF-3BB

TARGET: PT-536A TARGET CODE: I-PT536A

POSTULATED INTERACTION: Fixture falls, impacts PT-536A PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).  
*AcB* This fixture type has been qualified by analysis per calculation 52.24.52.  
No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-26-14-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures)  
SOURCE CODE: E-LF-388

TARGET: PT-536A Tubing  
TARGET CODE: I-PT536A

POSTULATED INTERACTION: Fixture falls, impacts PT-536A Tubing  
PHENOMENA CODE: FIXTURF

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).

*Acts* This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-26-22-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 140, near SG 1-3 release to atmosphere inside panel, 15<sup>7</sup>.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Panel (8' tall).

SOURCE CODE: I-PANFI

TARGET:  
K6505.

TARGET CODE: E-k6505-0.75

POSTULATED INTERACTION:  
Panel falls (assumed to be Class II).

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of panel.

Edward Denison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Valve panel and the supporting platform (19GW-1) have been checked and qualified as Class I structures. See Calcs No. 52.15.12.6. For modification see DCN No. DC1-EC-13109-RD.

S. Gaballah 04/08/83  
DISCIPLINE ENGINEER/DATE

J. K. McCall 04/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/8/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-26-25-01

FIRE ZONE 7-A LOCATION Electrical Rooms FLOOR ELEVATION 127'-4"

LOCATION WITHIN FIRE ZONE:  
Elev. 128' cable spreading room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Floor plates SOURCE CODE: C-PLAT-7A

TARGET: K5794, generally all conduits on floor TARGET CODE: E-K4794-1

POSTULATED INTERACTION: Floor plates are not secured to I-beams on floor. Loose plates could impact much conduit. PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure plates to floor

Paul Anderson 06/04/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Floor plate to be secured per ART No. 186.

S. Hanusiak 07/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 01/26/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 3/7/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SS  
2/5/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-26-25-02

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', area GW, near RJG 143.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Two vertical spring hangers.

SOURCE CODE: P-0123-6

TARGET:  
K5779.

TARGET CODE: E-K5779-1

POSTULATED INTERACTION:  
Spring hangers hit horizontal conduit.

PHENOMENA CODE: DEFLCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of conduit.

E. Denison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Spring cans on 58S/46V have been lowered so as to avoid the interaction. See attached copy of DC1-EP-17430, Rev. 0.

E. L. Green 01/25/84  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/25/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*gn*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-01-01

FIRE ZONE 3-BR LOCATION Penetration Area FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Flev. 140', outside by main steam loops 3 & 4 relief valves.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform & grating.

SOURCE CODE: C-PLAT-3BR

TARGET:

Instrument tubing to PCV-22.

TARGET CODE: I-PCV22

POSTULATED INTERACTION:

lateral movement of platform results in tubing being compressed between platform and main steam loop 4 relief header.

PHENOMENA CODE: DFFLCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute tubing away from platform and main steam relief header.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Tubing rerouted per ART 272.

F. M. Valeriano 07/10/80  
DISCIPLINE ENGINEER/DATE

G. H. Moore 07/10/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-02-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140, outside by main steam loops 3&amp;4 relief valves.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform &amp; grates.

SOURCE CODE: C-PLAT-388TARGET:

Instrument tubing to PCV-22 (bottled air tubing to valve [PCV-22] mounted SV).

TARGET CODE: I-PCV22POSTULATED INTERACTION:

Lateral movement of platform results in tubing being compressed between platform and main steam loop 4 relief header.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute tubing away from platform and main steam relief header.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Tubing rerouted per ART 272.

E. M. Valeriano 06/10/80  
DISCIPLINE ENGINEER/DATE

G. H. Moore 06/10/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&amp;C] PSE NPO NAN

S. E. Trainsman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-03-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 140, outside by main steam loops 3&4 relief valves.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform & grates.

SOURCE CODE: C-PLAT-388

TARGET:

Instrument tubing to PCV-22 (n<sub>2</sub> supply tubing to valve [PCV-22] mounted SV)

TARGET CODE: I-PCV22

POSTULATED INTERACTION:

Lateral movement of platform results in tubing being compressed between platform and main steam loop 4 relief header.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute tubing away from platform and main steam relief header.

M. Jones 06/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Tubing rerouted per ART 272.

E. M. Valeriano 06/10/80  
DISCIPLINE ENGINEER/DATE

G. H. Moore 06/10/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAV

S. E. Trainsman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-13-01FIRE ZONE 3-88 LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures)  
SOURCE CODE: E-LF-388

TARGET: PT-546A  
TARGET CODE: I-PT546A

POSTULATED INTERACTION: Fixture falls, impacts PT-546A  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, Detail 9 (Category X).  
*AcS* This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-14-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near MS Loop 3, 4 Penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture, ball/socket mounted. (2 fixtures)  
SOURCE CODE: E-IF-3BB

TARGET: PT-546A tubing  
TARGET CODE: T-PT546A

POSTULATED INTERACTION: Fixture falls, impacts PT-546A tubing.  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 6/4/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X).

Acc

This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-23-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140, near SG 1-3 release to atmosphere inside panel.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Panel (8' tall).

SOURCE CODE: I-PANELTARGET:

Flex K6557 to valve.

TARGET CODE: E-K6557-1POSTULATED INTERACTION:

Panel falls (assumed to be Class II).

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of panel.

Edward Denison 06/08/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Valve panel and the supporting platform (19GW-1) have been checked and qualified as Class I structures. See Calcs No. 52.15.12.6. For modification see DCN No. DC1-EC-13109-RD.

S. Gaballah 08/04/83

DISCIPLINE ENGINEER/DATE

J. K. McCall 08/04/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 02/24/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-28-23-02FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140', inside panel (15<sup>7</sup>), near SG 1-3 release to atmosphere.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CDTARGET:

Flex conduits associated with K6557 and K6582.

TARGET CODE: F-K6557+POSTULATED INTERACTION:

Loose connection at couplings to target conduits.

PHENOMENA CODE: HOUSEKEEPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Tighten connections to valve.

E. Denison 06/08/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved per ART 155.

DISCIPLINE ENGINEER/DATEA. G. Barta 07/15/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE FMS ENG [QC] HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 06/06/83  
SIP PROJECT ENGINEER APPROVAL./DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-29-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 160', around steam generator 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Kick plate and platform grating.SOURCE CODE: C-PLAT-1CTARGET:  
Instrument tap & root valve to LT-501.TARGET CODE: I-LT501POSTULATED INTERACTION:  
Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc. by simplified analysis.

M. Jones 04/01/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
This interaction duplicates interaction No. 03-30-01-02.S. Hanusiak 01/21/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 01/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATES.G.  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-29-01-02

FIRE ZONE 1-R LOCATION Containment FLOOR ELEVATION 104'-7"

LOCATION WITHIN FIRE ZONE:  
Elev. 110', at missile barrier, near steam generator 1-1.

*J*

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Instrument tubing to LT-501.

TARGET CODE: I-I.T501

POSTULATED INTERACTION:  
Tubing clips are missing (2 places).

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing tubing clips.

M. Jones 12/02/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Two tubing clips installed as required per ART 144.

E. M. Valeriano 04/27/81  
DISCIPLINE ENGINEER/DATE

F. Mori 07/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG [QC] HVAC I&C PSE NPO NAN

S. Harris 02/17/84  
FIFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 02/17/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-29-01-03

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 98, near missile barrier 335°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixture.

SOURCE CODE: E-LF-1A

TARGET:  
Instrument tubing to LT-501.

TARGET CODE: I-LT501

POSTULATED INTERACTION:  
Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
*Act* Wall mounted rigidly fixed incandescent lgt. fixture per detail 24, PG&E DWG. 050041. Field inspection reveals interaction not credible. No action necessary. Resolved by analysis. See Cloud Report No. 7.

R. J. Swaim 01/14/83  
DISCIPLINE ENGINEER/DATE

V. Shet 01/14/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/27/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-29-01-04

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-1, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Air registers (2). SOURCE CODE: H-DUCT-1B

TARGET: Instrument tubing to LT-501. TARGET CODE: I-LT501

POSTULATED INTERACTION: Registers fall, impact tubing. PHENOMENA CODE: MECHFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Attached EDS nuclear/calculation/problem No. 2/job No. 0170-024-362 shows registers will not fall. No field modifications are required.

DISCIPLINE ENGINEER/DATE D. W. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/08/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

*AWS*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-29-03-03FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117 Az. 208° against cont. wall below box BTX8E.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-GRATING  
 Grating and beam supported to interior structure.

TARGET: TARGET CODE: E-KX390-1.50  
 Conduit KX390 supported to cont. wall.

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE/RELSTRUCT

As conduit drops through grating it is adjacent to edge of grating and beam. Differential seismic motion could cause impact between beam or grating and conduit. Existing gap is  $\pm 1/8"$ .

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Modify conduit to ensure minimum spacing requirements.

K. N. Anderson 02/11/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Penetration box BTX8E and support S206 for conduit KX390 have been detached from containment wall per DCN DCJ-FC-3604. This modification eliminates the possibility of impact between CND. and platform grating and/or floor beam due to differential motion between containment and annulus structure. No further action necessary. Resolved by modification. This resolution supercedes any previous resolution of this interaction.

R. J. Swaim 06/24/83  
 DISCIPLINE ENGINEER/DATE

S. Auer 08/23/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/02/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-30-01-01FIRE ZONE 1-A LOCATION Containment FLOOR, ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 1" line 1870-SG 1,2 N<sub>2</sub> supply.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 56 tubing.

TARGET CODE: I-PM56

POSTULATED INTERACTION: Line 1870 does not meet B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 56 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to ensure integrity of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. F. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-30-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Kick plate and platform grating.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap &amp; root valve to LT-517.

TARGET CODE: I-LT517POSTULATED INTERACTION:PHENOMENA CODE: INTERFERE

Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc. by simplified analysis.

M. Jones 04/01/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis also platform is seismically qualified subject to modification per DCN DC1-EC-3897. See Calc. No. 03-30-01-02.

S. Hanusiak 01/21/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/22/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANM. Baker 06/28/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83

SIP PROJECT ENGINEER APPROVAL/DATE

SG  
6/8/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SS

POSTULATED INTERACTION NO.: 03-30-01-03

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 140', inside SG 1-1 shield wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Instrument tubing to I.T-517.

TARGET CODE: I-LT517

POSTULATED INTERACTION: PHENOMENA CODE: HOUSEKEEP  
Support clamps missing to this and other stainless tubing in this area.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing support clamps.

M. Jones 04/01/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Support clamps installed as required per ART 272.

F. M. Valeriano 07/10/80  
DISCIPLINE ENGINEER/DATE

G. H. Moore 07/10/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAW

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-30-01-04

FIRE ZONE 1-R LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
. Elev. 125', at missile barrier, 313°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1870-1"; N<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
Instrument tubing to LT-517.

TARGET CODE: T-I.T517

POSTULATED INTERACTION:  
Pipe falls on tubing due to failure of fixed-end rod supports.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of line 1870 by analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Design calculations by H. Hohmann date 08/02/82, ART-010, DWG 049339, and DCN-DC1-EP-3606, resolves all interactions identified in the Field Verification Report by M. Jones dated 02/24/82.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAR

M. Baker 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-30-01-05FIRE ZONE 1-8 LOCATION Containment FLOOR ELEVATION 125'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near RCP 1-1, at missile barrier.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Air registers (2).

SOURCE CODE: H-DUCT-1BTARGET:

Instrument tubing to LT-517.

TARGET CODE: I-LT517POSTULATED INTERACTION:

Registers fall, impact tubing.

PHENOMENA CODE: MECHFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Registers qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHFET (IDS)

POSTULATED INTERACTION NO.: 03-30-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117', on missile wall, 195°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 1" line 1870-SG 1,2 Nz supply.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 56.

TARGET CODE: J-PM56

POSTULATED INTERACTION:  
 Line 1870 does not meet R31.J hanger spacing requirements. Line 1831 could fall, damage mechanical panel 56.

PHENOMENA CODE: SPTFAIL & PIPEFALLRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis of line 1870 to ensure integrity of the supports. Add restraints as required.

C. R. VanNatta 01/24/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Design calculation by H. Hohmann dated 08/02/82, ART-010, DWG 049339  
 (DCN-DC1-FP-3606 resolves all interaction concerns identified in the field  
 verification report by M. Jones dated 02/24/82.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 04/19/83  
FIFLD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 04/19/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-31-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1" Line 1870-SG 1,2 N<sub>2</sub> supply.SOURCE CODE: P-1870-1TARGET:

Mechanical panel 52 tubing.

TARGET CODE: I-PM52POSTULATED INTERACTION:

Line 1870 hanger does not meet B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 52 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to insure integrity of the supports. Add restraints as required..

M. Jones 04/15/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83DISCIPLINE ENGINEER/DATEK. M. Krause 01/24/83ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 12/19/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-31-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Kick plate and platform grating.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap &amp; root valve to LT-518.

TARGET CODE: I-LT518POSTULATED INTERACTION:

Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc. by simplified analysis.

M. Jones 04/01/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See resolution and calc. sheets.  
 Also see IDS File #03-30-01-02 for platform integrity.

S. Hanusiak 01/21/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.A.  
 8/8/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-31-01-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-1, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-518.

TARGET CODE: I-LT518

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS 03-29-01-04.

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DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

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FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-31-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 1" line 1870-SG 1,2 N<sub>2</sub> supply.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 52.

TARGET CODE: I-PM52

POSTULATED INTERACTION:  
 Line 1870 does not meet 831.1 hanger spacing requirements. Line 1831 could fall, damage mechanical panel 52.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to ensure integrity of the supports. Add restraints as required.

M. Jones 04/15/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 12/19/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-32-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1" line 1870-SG1, 2 N<sub>2</sub> supply.SOURCE CODE: P-1870-1TARGET:

Mechanical panel 48 tubing.

TARGET CODE: I-PM48POSTULATED INTERACTION:PHENOMENA CODE: SPTFAIL & PIPEFAIL

Line 1870 does not meet B31.1 hanger spacing requirements. Line 1870 could fall, damage mechanical panel 48 tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to ensure integrity of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculation by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-32-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Kick plate and platform grating.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap &amp; root valve to LT-518.

TARGET CODE: I-LT519POSTULATED INTERACTION:

Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc: by simplified analysis.

M. Jones 04/01/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source (platform 76F) is Class I platform and has been qualified - see Unit 1 containment Calc. #769 - 1 thru 8 also existing clearance is adequate by analysis. See resolution sheet and referenced Dwg. #59668 and 59669.

S. Hanusiak 01/21/81DISCIPLINE ENGINEER/DATEE. P. Wollak 01/27/81ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATES.G.  
8/8/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-32-01-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-1, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-519.

TARGET CODE: I-LT519

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-32-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, on missile wall 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 1" line 1870-SG 1,2 N<sub>2</sub> supply.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 48.

TARGET CODE: I-PM48

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
 Line 1870 does not meet B31.1 hanger spacing requirements. Pipe could fall on mechanical panel.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional seismic analysis on line 1870 to ensure integrity of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger DWG. 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-32-05-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1" line 1870-SG 1,2 N<sub>2</sub> supply.SOURCE CODE: P-1870-1TARGET:

LT 516.

TARGET CODE: I-LT516POSTULATED INTERACTION:

Line 1870 does not meet B31.1 hanger spacing requirements. Line 1870 could fall, damage LT 516.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to ensure integrity of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculation by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-33-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1" line 1870-SG 1,2 N<sub>2</sub> supply.SOURCE CODE: P-1870-1TARGET:

Mechanical panel 44 tubing.

TARGET CODE: I-PM44POSTULATED INTERACTION:

Line 1870 does not meet B31.1 hanger spacing requirements. Line 1831 could fall, damage mechanical panel 44 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to ensure integrity of the supports. Add restraints as required.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83

DISCIPLINE ENGINEER/DATE

K. M. Krause - 01/24/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 10/14/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-33-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Kick plate and platform grating.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap &amp; root valve to FT-512.

TARGET CODE: I-FT512POSTULATED INTERACTION:

Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc. by simplified analysis.

M. Jones 04/01/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See resolution sheet and Calc. #03-33-01-02. Also see IDS File 03-30-01-02 for platform integrity.

S. Hanusiak 01/27/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
2/1/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-33-01-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near RCP 1-1, at missile barrier.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Air registers (2).

SOURCE CODE: H-DUCT-1BTARGET:

Instrument tubing to FT-512.

TARGET CODE: I-FT512POSTULATED INTERACTION:

Registers fall, impact tubing.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-33-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, on missile wall, 295°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1" line 1870-SG 1,2 N<sub>2</sub> supply.SOURCE CODE: P-1870-1TARGET:

Mechanical panel 44.

TARGET CODE: I-PM44POSTULATED INTERACTION:

Line 1870 hangers do not meet B31.1 hanger spacing requirements. Line 1831 could fall, damage mechanical panel 44.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 1870 to insure integrity of the supports. Add restraints as required..

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO 'NAN

S. E. Traisman 12/19/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83

SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-34-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-1, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to FT-513.

TARGET CODE: I-FT513

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-35-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 91, along missile wall 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 2" scupper drain (line 4397).

SOURCE CODE: P-4397-2

TARGET:  
 Instrument panel 84 tubing.

TARGET CODE: I-PM84

POSTULATED INTERACTION:  
 Drain line 4397 runs 2' above tubing. Drain line falls, impacts tubing

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 4397 to ensure integrity of the supports.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger modified. See IDS file No. 07-12-02-01.

P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 02/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 11/12/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-35-01-03

FIRE ZONE 1-R LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 105', under RCP J-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
1" RCP #3 seal water lines.

SOURCE CODE: P-USB-1R

TARGET:  
Instrument tubing to IT-502.

TARGET CODE: T-IT502

POSTULATED INTERACTION:  
lateral movement of 1" lines results in impact with tubing.

PHENOMENA CODE: DFFLCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute tubing away from 1" lines to provide minimum 6" clearance, or guard tubing.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Tubing rerouted per ART 270 to provide adequate clearance.

F. M. Valeriano 01/15/82  
DISCIPLINE ENGINEER/DATE

F. Mori 06/18/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

M. Jones 05/05/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-35-01-04

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 110, next to SG 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Light fixture. SOURCE CODE: E-LF-1B

TARGET: Instrument tubing to LT-502. TARGET CODE: I-LT502

POSTULATED INTERACTION: Fixture falls, impacts tubing. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of light fixture.

M. Jones 12/03/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by analysis. Light fixture was qualified by Civil Calc. 52.24.52  
 and RICA Report 8 & 7 with addendum 1.

*Agts*

R. J. Swain 01/25/83  
 DISCIPLINE FNGTFR/DATE

G. C. Bhatt 01/25/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FJFD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn,  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-35-01-05

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-1, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (8' long).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-502.

TARGET CODE: I-LT502

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Haqstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-35-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 91, along missile wall 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" scupper drain (line 4397).

SOURCE CODE: P-4397-2

TARGET:  
Instrument panel 84.

TARGET CODE: I-PM84

POSTULATED INTERACTION:  
Drain line 4397 runs 2' above panel. Drain line falls, impacts panel.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional seismic analysis on line 4397 to ensure integrity of the supports.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hanger modified. See IDS file No. 07-12-02-01.

P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 02/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-35-02-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 91', at missile barrier, 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Iodine Removal Unit E-16.SOURCE CODE: H-E16TARGET:  
Instrument panel 84.TARGET CODE: I-PM84POSTULATED INTERACTION:  
Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into panel.PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install hold-down clamps to unit mounting skid to preclude movement of unit.M. Jones 08/12/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
EDS Calc. No. 1 has demonstrated the adequacy of the existing anchorage. No field modifications are required.DISCIPLINE ENGINEER/DATE  
D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-36-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 123, at missile barrier, 36°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Wall mounted light fixture.

SOURCE CODE: E-LF-1A

TARGET:  
 Instrument tubing to FT-522.

TARGET CODE: I-FT522

POSTULATED INTERACTION:  
 Fixture falls, impacts tubing. Fixture is mounted loosely to existing J-Box.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Secure light fixture to J-Box.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by Modification. Mounting was inspected and found to be flexible but positively attached. Judged acceptable. See ART 136.

ACTS

A. G. Barta 02/12/82  
DISCIPLINE ENGINEER/DATE

W. Vahlstrom 02/12/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-36-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-2, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (8' long).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to FT-522.

TARGET CODE: I-FT522

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

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FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-36-03-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117 col. 16 PM 45 DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Floor grating. SOURCE CODE: C-GRATING

TARGET: KX197 conduit. TARGET CODE: E-KX197-1.25

POSTULATED INTERACTION: Grating touches conduit. Could impact with damage if movement occurs. PHENOMENA CODE: INTERFERF & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide separation between grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Clearance to be provided per ART 213.  
Note: This IDS is duplicate with IDS 03-40-03-02.

S. Hanusiak 07/21/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 08/13/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S-6  
9/14/82*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-37-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Structural platform, railings and grates.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap and tubing from steam generator 1-2 to FT-523.

TARGET CODE: I-FT523POSTULATED INTERACTION:

Motion of steam generator and/or platform results in contact between instrument tap and platform.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See resolution and Calculation sheets for platform qualification. See IDS file No. 03-30-01-02.

S. Hanusiak 01/21/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/22/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 11/01/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S/S  
8/1/82



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-37-01-03

FIRE ZONE 1-8 LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-2, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Air registers (8' long). SOURCE CODE: H-DUCT-18

TARGET: Instrument tubing to FT-523. TARGET CODE: I-FT523

POSTULATED INTERACTION: Register falls, impacts tubing. PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/08/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-37-03-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112 col. 13 near platform at valve 8703 DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform structure.

SOURCE CODE: C-PLAT-1A

TARGET:  
KX246.

TARGET CODE: E-KX246-2.50

POSTULATED INTERACTION: Platform structure within 1/8" of conduit. Platform and/or grating could pinch conduit.  
PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between platform and conduit.

J. G. Grant 09/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
It has concluded the part of structure in question is a light flexible angle hanger. Very little relative movement between conduit and hanger are expected (they are attached to same structure) and flexible angle hanger is not capable of damaging rigid pipe conduit.

S. Hanusiak 01/22/81  
DISCIPLINE ENGINEER/DATE

F. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

R. L. Cloud 06/24/81  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S-G  
9/14/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-38-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Kick plate and platform grating.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap &amp; root valve to LT-527.

TARGET CODE: I-LT527POSTULATED INTERACTION:

Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc. by simplified analysis.

M. Jones 04/01/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See resolution sheet and Calc. #03-38-01-01. For platform qualification see IDS File #03-30-01-02.

S. Hanusiak 01/27/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 9/9/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-38-01-03

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'

LOCATION WITHIN FIRE ZONE:  
Elev. 121 at missile barrier, 16°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
lighting transformer TL-17.

SOURCE CODE: E-TL17

TARGET:  
Instrument tubing to I.T-527.

TARGET CODE: I-LT527

POSTULATED INTERACTION:  
Transformer overturns, impacts tubing.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure by analysis that transformer will not overturn.

M. G. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Bracing provided per ART 282 to prevent overturning. Resolved by modification.

ACTB

A. G. Barta 01/18/82  
DISCIPLINE ENGINEER/DATE

S. Auer 08/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-38-01-05

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 125, near RCP 1-2, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Air registers (8' long).

SOURCE CODE: H-DUCT-1B

TARGET:  
 Instrument tubing to LT-527.

TARGET CODE: I-LT527

POSTULATED INTERACTION:  
 Register falls, impacts tubing.

PHENOMENA CODE: MECHFALL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-38-03-04

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117 above accum. 102 at PM57 DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating.

SOURCE CODE: C-GRATING

TARGET:  
KX195 conduit.

TARGET CODE: E-KX195-1

POSTULATED INTERACTION:  
Grating contacts conduit. Could damage conduit.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between platform and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART No. 016.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG .GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/9/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-39-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Structural platform, railings and grates. SOURCE CODE: C-PLAT-1C

TARGET: Instrument tap and tubing from steam generator 1-2 to FT-528. TARGET CODE: I-LT528

POSTULATED INTERACTION: Motion of steam generator and/or platform results in contact between instrument tap and platform. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See resolution sheet and Calc. #03-39-01-01. Also see IDS File #03-30-01-02 for platform qualification.

S. Hanusiak 01/27/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 07/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 8/9/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-39-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-2, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Air registers (8' long). SOURCE CODE: H-DUCT-18

TARGET: Instrument tubing to LT-528. TARGET CODE: J-LT528

POSTULATED INTERACTION: Register falls, impacts tubing. PHENOMENA CODE: MECHFALL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/08/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

AVS



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-40-01-01FIRE ZONE I-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160, around steam generator 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Wall (concrete).

SOURCE CODE: C-RSM-ICTARGET:

Instrument tap from steam generator 1-2 to LT-529.

TARGET CODE: I-LT529POSTULATED INTERACTION:

Tap is run against concrete wall. Motion of steam generator results in tap being crushed between steam generator and wall.

PHENOMENA CODE: INTERFERF/DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Verify that steam generator movement does not compromise instrument tap.
- or-
2. Reroute instrument tap away from wall.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Interacting component sufficiently distant from target to prevent interaction. No resolution required. According to J. VanVyneckt of DCPD start-up, there exists approximately 6" horizontal clearance and 3 1/2" vertical clearance between instrument tap and wall (see telecon).  
 (Continued on page 2).

DISCIPLINE ENGINEER/DATE

E. Connell III 07/13/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E. 8/31/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-40-01-01

CONTINUED FROM PAGE ONE:

From the Hosgri Seismic Analysis 1-1 Rev. 6, 6-11-74; (1) the largest horizontal and vertical displacements are 0.13 inches and 0.004 inches respectively, (2) From the Flex Analysis 10 Rev. E 8-16-77, the displacements due to thermal expansion at the top of the steam generator are 2.84" vertical and 1.1" - 1.2" horizontal. (3) Therefore, the combined thermal and seismic displacements are 1.3" horizontal and 2.9" vertical, less than the allowables.

- (1) Typical for all four steam generators.
- (2) Largest displacements experienced.
- (3) Conservative values considering only expansion of interests occurs to level of instrument tap.

A.J.E 8/31/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-40-01-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 123, at missile barrier, 36°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Wall mounted light fixture.

SOURCE CODE: E-LF-1A

TARGET:  
 Instrument tubing to LT-529.

TARGET CODE: I-LT529

POSTULATED INTERACTION:  
 Fixture falls, impacts tubing. Fixture is mounted loosely to existing J-Box.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Secure light fixture to J-Box.

M. Jones 12/03/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Secure light fixture to J-box. Resolved by modification. See ART 136. Mounting was inspected. Found to be flexible but positively attached. Judged acceptable.

A. G. Barta 02/12/82  
 DISCIPLINE ENGINEER/DATE

W. Vahlstrom 02/12/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. Harris 02/19/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-40-01-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 125, near RCP 1-2, at missile barrier.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Air registers (8' long).

SOURCE CODE: H-DUCT-1BTARGET:

Instrument tubing to LT-529.

TARGET CODE: I-LT529POSTULATED INTERACTION:

Register falls, impacts tubing.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATED. H. Haqstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-40-03-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117 col. 16 PM 45 DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Floor grating. SOURCE CODE: C-GRATING

TARGET: KX197 conduit. TARGET CODE: E-KX197-1.25

POSTULATED INTERACTION: Grating touches conduit. Could impact with damage if movement occurs. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide separation between grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART No. 017.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
3/14/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-40-03-03FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 115', area GW.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 74GW and ladder.SOURCE CODE: C-74GWTARGET:  
Conduit KT351-3".TARGET CODE: E-KT351-3POSTULATED INTERACTION:  
Platform and ladders fail and impact conduits.PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms and ladder.G. Whorinsky 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Ladder qualified by analysis. See Calc. No. 03-07-02-02. Platform 74 GW qualified by analysis subject to modification. See resolution sheet and IDS files No. 03-07-01-01 & 06-60-10-05.S. Hanusiak 08/21/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 09/03/81  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-41-01-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-3, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-503.

TARGET CODE: I-LT503

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFALL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-42-01-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 146', inside shield wall, near SG1-3.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction Deficiency.

SOURCE CODE: NS-CD

TARGET:  
Instrument tubing to LT-539.

TARGET CODE: I-LT539

POSTULATED INTERACTION:  
Tubing support clips are missing (2 places).

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing support clips.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Clips provided as required per ART 143.

DISCIPLINE ENGINEER/DATE

E. M. Valeriano 04/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAN

02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-42-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-3, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-539.

TARGET CODE: I-LT539

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

BWS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-43-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160', around steam generator 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS.

SOURCE:

Kick plate and platform grating.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap &amp; root valve to LT-537.

TARGET CODE: I-LT537POSTULATED INTERACTION:PHENOMENA CODE: INTERFERE & DEFLECT

Steam generator thermal and/or seismic movements could result in platform structure and kick plate impacting instrument tap and root valve.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Provide additional clearance between platform, etc. and instrument tap.
2. Ensure integrity of platform, etc. by simplified analysis.

M. Jones 04/01/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See interaction resolution sheet and Calc. 03-43-01-01. For platform qualification see IDS file No. 03-49-01-04.

S. Hanusiak 01/27/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATES.S.  
8/1/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-43-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-3, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Air registers (2). SOURCE CODE: H-DUCT-1B

TARGET: Instrument tubing to LT-537. TARGET CODE: I-LT537

POSTULATED INTERACTION: Registers fall, impact tubing. PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/08/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-43-03-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0

LOCATION WITHIN FIRE ZONE:  
Elev. 110' east stairs DWG 57687.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Stairs

SOURCE CODE: C-STAIR-1A

TARGET:  
KX177

TARGET CODE: E-KX177-0.75

POSTULATED INTERACTION:

Steps on stairs run right next to conduit.  
conduit.

PHENOMENA CODE: INTERFERE & DEFLECT

Movement of stairs could impact

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide clearance between stairs and conduit.

J. F. Grant 09/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Min 2" clearance around the conduit has been provided per ART No. 018.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

S. Hanusiak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/16/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/19/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-44-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160'-0" around steam generator 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Structural platform, railings and grates.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap and tubing from steam generator 1-3 to LT-538.

TARGET CODE: I-LT538POSTULATED INTERACTION:

Motion of steam generator and/or platform results in contact between instrument tap and platform.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate. See interaction resolution sheet, also referenced DWG No. 502970 and IDS file No. 03-49-01-04.

S. Hanusiak 01/27/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

SS  
 8/14/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-44-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-3, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-538.

TARGET CODE: I-LT538

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-44-03-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 110', east stairs DWG 57687.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Stairs

SOURCE CODE: C-STAIR-1A

TARGET:  
 KX178

TARGET CODE: E-KX178-0.75POSTULATED INTERACTION:

Steps on stairs run next to conduit. Movement of stairs could impact conduit.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide clearance between stairs and conduit.

J. F. Grant 09/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Min. 2" clearance around the conduit has been provided per ART No. 019.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/16/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.*  
*9/19/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-45-01-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-3; at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to FT-533.

TARGET CODE: I-FT533

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-45-03-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117' Az 235° against containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Grating attached to interior concrete, and support beam.

SOURCE CODE: C-GRATINGTARGET:

Conduit KX110 attached to containment wall.

TARGET CODE: E-KX110-2POSTULATED INTERACTION:

As conduit drops through grating, next to beam, there exists insufficient clearance for differential seismic motion.

PHENOMENA CODE: INTERFERE/RFI.STRUCT.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Modify grating, beam and/or routing of KX110 to ensure minimum 2" clearance between conduit and beam and grating.

P. H. Anderson 02/18/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Penetration box BTX24E and support S-305 for conduit KX110 have been detached from containment wall per DCN DC1-EC-3604. This modification eliminates the possibility of impact between CNC. and platform grating and/or floor beam due to differential motion between containment and annulus structure. No further action necessary. This resolution supercedes any previous resolution of this interaction.

R. J. Swaim. 06/24/83  
DISCIPLINE ENGTNFER/DATE

S. Auer 08/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 11/07/87  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-46-01-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-3, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to FT-532.

TARGET CODE: I-FT532

POSTULATED INTERACTION:  
Registers fall, impact tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/08/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

*AVS*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-47-01-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 103, at missile barrier, 205°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" RCP lube oil scupper drain line.

SOURCE CODE: P-4397-2TARGET:

Instrument tubing to LT-504.

TARGET CODE: I-LT504POSTULATED INTERACTION:

Lateral deflection of 2" pipe due to failure of fixed-end rod support results in impact with tubing.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace fixed-end rod support of 2" line with a bi-lateral support.

M. Jones 12/03/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution OK. See IDS 30-01-17-02.

C. R. VanNatta 06/02/83DISCIPLINE ENGINEER/DATEK. M. Krause 06/02/83ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 08/18/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/83SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-47-01-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, at SG 1-4.

55

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1038-2"; SG 1-4 blowdown.

SOURCE CODE: P-1038-2

TARGET:  
Instrument tubing to LT-504 (low side).

TARGET CODE: I-LT504

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE & DEFLECT  
Thermal/seismic movements of line 1038 result in impact with tubing. Tubing currently rests against line 1038.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Reroute tubing away from line 1038 to provide minimum 6" clearance.

M. Jones 12/03/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification per ART 269. Tubing rerouted to provide greater than 6" clearance from line 1038-2".

E. M. Valeriano 05/15/82  
DISCIPLINE ENGINEER/DATE

F. Mori 06/29/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 02/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-47-01-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, at missile barrier, near valve 8141C.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

light fixture.

SOURCE CODE: E-LF-1BTARGET:

Instrument tubing to 1T-504 (high side).

TARGET CODE: I-1.T504POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 12/03/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 &amp; 2.

KCS

R. J. Swaim 01/25/83DISCIPLINE ENGINEER/DATEG. C. Bhatt 01/25/83ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-47-01-04

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, at SG 1-4.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Light fixture.

SOURCE CODE: E-1F-1B

TARGET:  
Instrument tubing to LT-504 (low side).

TARGET CODE: I-LT504

POSTULATED INTERACTION:  
Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 & 2.

*Accs*

R. J. Swaim 01/25/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/17/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-47-01-05

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-4, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-504.

TARGET CODE: I-LT504

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-47-03-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117 at BTX8E DWG 57687.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating.

SOURCE CODE: C-GRATING

TARGET:  
KX390.

TARGET CODE: E-KX390-1.50

POSTULATED INTERACTION:  
Floor grating would impact conduit.

PHENOMENA CODE: INTERFFRF & DFFI FCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between grating and conduit.

J. F. Grant 09/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART No. 277.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 04/28/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL./DATE

5-  
2/15/84



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-48-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, 220° on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Line 1870-1" n<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 59 tubing.

TARGET CODE: I-PM59

POSTULATED INTERACTION:  
 Line 1870 hangers do not meet B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 59 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required..

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-48-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 160'-0" around steam generator 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Structural platform, railings and grates. SOURCE CODE: C-PLAT-1C

TARGET: Instrument tap and tubing from steam generator 1-4 to IT-547. TARGET CODE: I-LT547

POSTULATED INTERACTION: Motion of steam generator and/or platform results in contact between instrument tap and platform. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Existing clearance is adequate by analysis. See resolution sheet and Calc. No. 03-48-01-02 also IDS file No. 03-49-01-04.

S. Hanusiak 01/21/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SG*  
*3/1/87*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-48-01-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-4, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to I.T-547.

TARGET CODE: I-LT547

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-48-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 220<sup>0</sup> on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1870-1" N<sub>2</sub> supply line.SOURCE CODE: P-1870-1TARGET:  
Mechanical panel 59.TARGET CODE: I-PM59

## POSTULATED INTERACTION:

Line 1870 hangers do not meet B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 59.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required..

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET. (IDS)

POSTULATED INTERACTION NO.: 03-48-03-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', Az. 210°, against containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Beam and grating at elev. 117'.

SOURCE CODE: C-GratingTARGET:

KX103 below BTX8E.

TARGET CODE: E-KX103-1.50POSTULATED INTERACTION:

As conduit passes through elev. 117', there is no clearance on one side of floor beam and grating. The conduit is supported to the containment wall and is subject to differential motion.

PHENOMENA CODE: INTERFERE & REI STRUCTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Locally reroute the conduit to provide at least 1" clearance.

Paul H. Anderson 06/03/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Penetration box BTX8E and support S206 for conduit KX103 have been detached from containment wall per DCN DCI-EC-3604 (DWG 050030, PEN 8E SH. 1 of 3 attached)  
 This modification eliminates the possibility of impact between CND and platform grating and/or floor beam due to differential motion between containment and annulus structure. No further action necessary. This resolution supercedes any previous resolution of this interaction. Resolved by modification.

R. J. Swaim 06/24/83  
DISCIPLINE ENGINEER/DATE

S. Auer 06/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 03-49-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117, 221<sup>0</sup>, along missile wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixture.

SOURCE CODE: E-I.F-1A

TARGET:  
Tubing to mechanical panel 55.

TARGET CODE: I-PM55

POSTULATED INTERACTION:  
Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture mount. Simple analysis should be adequate.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Fixture qualified by analysis. See Civil Calc. 52.24.52.

*ks*

R. J. Swaim 01/28/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-49-01-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 220° on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:Line 1870-1" N<sub>2</sub> supply line.SOURCE CODE: P-1870-1TARGET:

Mechanical panel 55 tubing.

TARGET CODE: I-PM55POSTULATED INTERACTION:

Line 1870 hangers do not meet the B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 55 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/14/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 04/15/83

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-49-01-03

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 160'-0" around steam generator 1-4.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Structural platform, railings and grates. SOURCE CODE: C-PLAT-1C

TARGET: Instrument tap and tubing from steam generator 1-4 to LT-548. TARGET CODE: I-LT548

POSTULATED INTERACTION: Motion of steam generator and/or platform results in contact between instrument tap and platform. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Existing clearance is adequate by analysis. See resolution sheet and Calc. No. 03-49-01-03 also IDS File No. 03-49-01-04.

S. Hanusiak 01/27/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/19/84



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-49-01-04FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160'-0" around steam generator 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Structural platform, railings and grates.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap and tubing from steam generator 1-4 to PX-11.

TARGET CODE: I-PX11POSTULATED INTERACTION:

Motion of steam generator and/or platform results in contact between instrument tap and platform.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis also - platform qualified by analysis. Subject to modification per DCN DC1-EC-5010. See Calc. No. 03-49-01-04 and resolution sheet.

S. Hanusiak 01/21/81DISCIPLINE ENGINEER/DATEE. P. Wollak 01/22/81ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

M. Baker 06/28/83FIELD VERIFICATION BY WALKDOWN TEAM(FOR MODIFICATIONS ONLY)I. W. Horn 10/25/83SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-49-01-05

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-4, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (2).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-548.

TARGET CODE: I-LT548

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*AVS*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-49-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 220<sup>0</sup> on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1870-1" N<sub>2</sub> supply line.SOURCE CODE: P-1870-1TARGET:  
Mechanical panel 55.TARGET CODE: I-PM55POSTULATED INTERACTION:

Line 1870 hangers do not meet the B31.1 hanger spacing requirements. Pipe could fall, damage panel.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 12/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE*sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-50-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 221<sup>0</sup>, along missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture.

SOURCE CODE: E-LF-1ATARGET:

Tubing to mechanical panel 51.

TARGET CODE: J-PM51POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture mount. Simple analysis should be adequate.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52.

AGB

R. J. Swaim 01/28/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 06/08/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-50-01-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, 220° on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Line 1870-1" N<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 51 tubing.

TARGET CODE: I-PM51

POSTULATED INTERACTION:  
 Line 1870 hangers do not meet B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 51 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional Piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required..

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause -01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

Sw

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-50-01-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-4, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (small).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to LT-549.

TARGET CODE: I-LT549

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-50-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, 220<sup>0</sup> on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Line 1870-1" N<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 51.

TARGET CODE: I-PM51

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
 Line 1870 hangers do not meet the B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 51.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional Piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 12/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

[0007A/0067Z-11]

sw

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-51-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, 220° on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Line 1870-1" N<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 47 tubing.

TARGET CODE: I-PM47

POSTULATED INTERACTION:  
 Line 1870 hangers do not meet B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 47 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required..

M. Jones 04/15/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/02/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

sw



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-51-01-02FIRE ZONE J-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 221<sup>o</sup>, along missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture.

SOURCE CODE: E-LF-1ATARGET:

Tubing to mechanical panel 47.

TARGET CODE: I-PM47POSTULATED INTERACTION

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture mount. Simple analysis should be adequate.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52.

KSP

R. J. Swaim 01/28/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/08/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-51-01-03FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 160'-0" around steam generator 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Structural platform, railings and grates.

SOURCE CODE: C-PLAT-1CTARGET:

Instrument tap and tubing from steam generator 1-4 to FT-542.

TARGET CODE: I-FT542POSTULATED INTERACTION:

Motion of steam generator and/or platform results in contact between instrument tap and platform.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that existing clearance between platform and instrument tap is adequate to preclude contact. Provide additional clearance if/as required.

M. Jones 07/16/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Existing clearance is adequate by analysis. See interaction resolution sheet and Calc. No. 03-51-01-03 also IDS File No. 03-49-01-04.

S. Hanusiak 01/27/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 01/27/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 3/9/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-51-01-04FIRE ZONE J-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 elev. 150', inside shield wall, near SG1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Construction deficiency.

SOURCE CODE: NS-CN

TARGET:  
 Instrument tubing to FT-542 (high leg).

TARGET CODE: I-FT542

POSTULATED INTERACTION:  
 Tubing clips are missing (2 places).

PHENOMENA CODE: HOUSFKEFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Replace missing tubing clips.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Clips provided as required per ART 142.

DISCIPLINE ENGINEER/DATE

E. M. Valeriano 04/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EF EMS ENG [QC] HVAC I&amp;C PSE NPO NAN

S. Harris 02/19/82  
FIFID VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-51-01-05

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-4, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (small).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to FT-542.

TARGET CODE: I-FT542

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-51-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 220° on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1870-1" N<sub>2</sub> supply line.SOURCE CODE: P-1870-1TARGET:  
Mechanical panel 47.TARGET CODE: I-PM47

## POSTULATED INTERACTION:

Line 1870 hangers do not meet the 831.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 4T.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 12/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE*SW*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-52-01-01

FIRE ZONE 1-8 LOCATION Containment FLOOR ELEVATION 125'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, near RCP 1-4, at missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air registers (small).

SOURCE CODE: H-DUCT-1B

TARGET:  
Instrument tubing to FT-543.

TARGET CODE: I-FT543

POSTULATED INTERACTION:  
Register falls, impacts tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 12/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-53-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Flev. 160, along the containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixtures at elev. 220 FT ±.

SOURCE CODE: E-LF-1CTARGET:

Misc. Class I components on elev. 140.

TARGET CODE: GENERICPOSTULATED INTERACTION:

Fixtures fall, impact inst. lines and misc. appurtenances assoc. with steam generators, main steam piping, pressurizer, etc.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount, possibly by simplified analysis, or attach safety strap to fixtures.

M. Jones 04/01/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 &amp; 2.

Act

R. J. Swaim 01/25/83DISCIPLINE ENGINEER/DATEG. C. Bhatt 01/28/83ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-53-02-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 140, 325°, along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

1-1/2" line along containment wall, vertical run line 3256 (auxiliary steam line for tritium control).

SOURCE CODE: P-3256-2

TARGET:

MS line 1-1 flow element FE 512.

TARGET CODE: I-FE512

POSTULATED INTERACTION:

Pipe falls due to lack of vertical support, impacts FE 512.

PHENOMENA CODE: PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install additional support or seismic stops to line 3256 to preclude falling.

M. Jones 04/01/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Refer to IDS 25-127-02-02.

C. R. VanNatta 05/13/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 05/13/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-53-02-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev 140, 325°, 16°, and 175° along containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class II duct supported to containment.

SOURCE CODE: H-DUCT-1CTARGET:

MS line instruments (MS lines 1-1, 1-2, 1-3) FE 512, 522, 532.

TARGET CODE: I-FE512+POSTULATED INTERACTION:

Duct falls, impacts instruments.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of duct. This duct is well supported, and simplified analysis should prove integrity.

M. Jones 04/02/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

FDS Calc. No. 3 shows existing duct support is adequate. No field modifications are required.

DISCIPLINE ENGINEER/DATED. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-54-02-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev 140, 325°, 16°, and 175° along containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Class II duct supported to containment.

SOURCE CODE: H-DUCT-1C

TARGET:  
MS line instruments (MS lines 1-1, 1-2, 1-3) FE 512, 522, 532.

TARGET CODE: I-FF512+

POSTULATED INTERACTION:  
Duct falls, impacts instruments.

PHENOMENA CODE: SPTFATL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of duct. This duct is well supported, and simplified analysis should prove integrity.

M. Jones 04/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Duct supports qualified by analysis. See IDS File No. 03-53-02-02.

DISCIPLINE ENGTFER/DATE

D. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/10/82  
SIP PROJECT ENGTFER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-55-01-02FIRE ZONE 1C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 180, top of steam generator 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Platform railing.

SOURCE CODE: C-PLAT-1C

TARGET:  
 Root valve to N<sub>2</sub> connection to main steam loop 4.

TARGET CODE: I-VALVE

POSTULATED INTERACTION:  
 Railing contacts root valve.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Cut railing away from root valve.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Cut-out provided as recommended. See ART 278.

S. Hanusiak 02/03/81  
DISCIPLINE ENGINEER/DATE

E. Wollak 02/19/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 04/28/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-55-02-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev 140, 325°, 16°, and 175° along containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class II duct supported to containment.

SOURCE CODE: H-DUCT-1CTARGET:

MS line instruments (MS lines 1-1, 1-2, 1-3) FE 512, 522, 532.

TARGET CODE: I-FE512+POSTULATED INTERACTION:

Duct falls, impacts instruments.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of duct. This duct is well supported, and simplified analysis should prove integrity.

M. Jones 04/02/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Duct supports qualified by analysis. See IDS File No. 03-53-02-02.

DISCIPLINE ENGINEER/DATED. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-58-01-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 109'-6"

LOCATION WITHIN FIRE ZONE:

Elev. 110, near containment penetration, MS loop 1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platforms, grates, handrails, etc.

SOURCE CODE: C-PLAT-28

TARGET:

Operator to valve FCV-25.

TARGET CODE: M-FCV25

POSTULATED INTERACTION:

Platforms, etc. fall, impact operator.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platforms, etc. have been qualified by analysis. See resolution sheet and referenced Calc. No. 03-04-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-58-05-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 113, auxiliary bldg. along column 1 @ 224° containment.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2 1/2" fire line

SOURCE CODE: P-SPR-388TARGET:

K5815

TARGET CODE: E-K5815-1POSTULATED INTERACTION:

Fire line deflects or falls due to being supported by fixed end rod hangers.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Show by simplified analysis that conduits will not be jeopardized.

E. Whorinski 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Field inspection of Target conduit K5815-1" (F BUS) reveals that conduit runs in GE-GW for a 5'-0" length along column J. Ref: DWG 502078 cable tray & conduit layout plan below. El. 115'.0" area GE-GW. Sprinkler line in vicinity of K5815 is below conduit and has seismic supports ( support No. 50R-341 in vicinity of K5815 was installed 02/28/79. Ref: Pullman QC inspection green tag). Conduit runs outside of GE-GW in area FW, however, no sprinkler protection is provided in the area. Therefore, no action necessary.

C. R. VanNatta 04/25/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 05/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-58-05-02FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 109'-4"

## LOCATION WITHIN FIRE ZONE:

Outside elev. 120' area GW north wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform and railings.

SOURCE CODE: C-PLAT-28TARGET:

Conduits KT062, K5815.

TARGET CODE: E-ICT062 +POSTULATED INTERACTION:

Platform fails and impacts conduits.

PHENOMENA CODE: CIVIL FAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform and railings.

G. Whorinski 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis, subject to modification per DCN DC1-EC-1285. See Calc. No. 03-58-05-02.

S. Gaballah 03/16/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 03/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Baker 06/28/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/05/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 8/8/84





PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-62-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, GW area, near loop 3 penetration.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform, grates, handrails.

SOURCE CODE: C-PLAT-3BB

TARGET:  
Operator to FCV-23.

TARGET CODE: M-FCV23

POSTULATED INTERACTION:  
Platform, etc. falls, impacts operator.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform, etc. by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform, etc. qualified by analysis. See resolution sheet and Calc. No  
03-19-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

3.6  
7/29/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 03-64-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 125, GW area, near loop 4 penetration.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platform, grates, handrails.

SOURCE CODE: C-PLAT-3BB

TARGET:

Operator to FCV-24.

TARGET CODE: CIVILFAIL

POSTULATED INTERACTION:

Platform, etc. falls, impacts operator.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform, etc. by simplified analysis.

M. Jones 06/04/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platform, etc. qualified by analysis. See resolution sheet and Calc. No  
 03-64-01-01.

S. Hanusiak 08/08/80

DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 04-01-01-01

FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Az 0+, between relief valve JIB cranes @ pipeway structure.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Handrails @ top of pipeway structure.

SOURCE CODE: C-HANDRAIL

TARGET:  
Vent line off of K14-593-4", STM supply to T-D AFW pump.

TARGET CODE: P-0593-4

POSTULATED INTERACTION:

PHENOMENA CODE: LOOSE

Handrails sit loosely in sockets. High vertical acceleration causes handrails to lift out of sockets, dropping on target line below.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure handrails by means of bolts or pins.

W. F. Walker 02/24/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Secure handrail posts, per ART #520. See Calc. #04-01-01-01.

N. K. Makam 04/18/84  
DISCIPLINE ENGINEER/DATE

Fathy A. Morsy 04/19/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Skochko 06/08/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.C.  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SS

POSTULATED INTERACTION NO.: 04-02-03-01

FIRE ZONE 28 LOCATION Outside Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Flev. 110, over mechanical panel 142, 10' from containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CD

TARGET:

Pull box BJF6 to conduit K5907-1-1/2".

TARGET CODE: E-BJF6

POSTULATED INTERACTION:

Pull box cover is missing.

PHENOMENA CODE: HOUSEKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace missing pull box cover.

M. Jones 06/30/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

FIFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 07/03/84  
SIP PROJECT ENGINEER APPROVAL./DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 04-03-01-03

FIRE ZONE 3-P-2 LOCATION HVAC Fan Room FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, by containment 66°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platforms (2) and ladders (3).

SOURCE CODE: C-PLAT-3P2

TARGET:  
Line 593-4", steam supply line.

TARGET CODE: P-0593-4

POSTULATED INTERACTION:  
Platform and ladder fall, impact line 593.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform and ladder by simplified analysis.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform and ladder qualified by analysis, see resolution sheet and  
Calc. No. 04-03-01-03.

S. Hanusiak 01/29/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.  
6/6/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 04-03-01-05FIRE ZONE 3-8B LOCATION Penetration Areas FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 115, NE corner.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 2416-1".SOURCE CODE: P-2416-1TARGET:  
Drain connection to line 593-4".TARGET CODE: P-0593-4POSTULATED INTERACTION:  
Line 2416 deflects vertically, impacts drain connection.PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add clips to existing clamp &amp; shoe assemblies of line 2416-1", located on each side of contact point.

M. Jones 06/11/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added and modified per Dwgs-2165-12; 2165-13; 2165-14 & 2165-34.C. R. VanNatta 06/15/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 06/15/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 04-04-01-01FIRE ZONE 3BB LOCATION Penetration Area FLOOR ELEVATION 115'

LOCATION WITHIN FIRE ZONE:  
 Elev. 115. Along East Wall

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead Light Fixtures (2)

SOURCE CODE: E-LF-3BB

TARGET:  
 Power and Control Cable to FCV-95

TARGET CODE: M-FCV25

POSTULATED INTERACTION:  
 Fixtures Fall, Impact Power and Control Cable.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure Integrity of Fixture Mounts, by Analysis.

M. G. Jones 6/11/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The Above Source Light Fixtures have been Field Inspected and Verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X). This Fixture Type has been Qualified by Analysis Per Calculation 52.24.52.

R. J. Swaim  
 DISCIPLINE ENGINEER/DATE

C. Bhatt  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-01-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Containment annulus, azimuth 30°, 5' form containment liner.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Conduit K1534-5", RCP 1-2 power conduit.

SOURCE CODE: E-K1534-5TARGET:Line K16-1041-2 1/2", SG 1-2 blowdown line.  
Line K16-1040-2 1/2", SG 1-1 blowdown line.TARGET CODE: P-1040-2.5POSTULATED INTERACTION:PHENOMENA CODE: SPTFAIL

Conduit supports consist of a variety of trapeze and cantilever configurations with P1000 vertical struts of lengths up to 6 1/2'. No longitudinal supports are provided and the conduit/support system exhibits low frequency flexibility in the lateral direction. Supports for source conduit assumed to fail due to lateral, longitudinal, and torsional seismic loads. Probable failure point of support is at upper support connection points and/or at the top of the P1000 vertical strut. Result is that the conduit and its assoc. failed supports drop downward. The first intervening objects which the conduit/supports fall onto are the two target blowdown lines 2 1/2" to 4" below. Added load of long span of 5" conduit and assoc. supports fails the target lines and/or pipe supports.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Determine load imposed on blowdown lines/supports resulting from failed conduit supports and evaluate acceptability of such load on the piping/support system.
2. Provide additional support for conduit in vicinity of interaction points such that if other conduit supports fail, conduit will not drop onto target lines.

S. E. Traisman 09/15/83

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Modify per ART 445.

N. Barangan 09/27/83

DISCIPLINE ENGINEER/DATE

C. Kah] 09/23/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/02/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-04-03-01FIRE ZONE 1-8 LOCATION Containment FLOOR ELEVATION 110'-9"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, at missile barrier, near RCPP1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

light fixture.

SOURCE CODE: E-LF-18.TARGET:

Air supply tubing to FCV-760.

TARGET CODE: I-FCV760POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 11/05/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 &amp; 2.

Asd

R. J. Swaim 01/25/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/25/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/17/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SS

POSTULATED INTERACTION NO.: 05-04-05-01

FIRE ZONE 3-RB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', area GW.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 4 construction gas lines v1.5", green, orange, white, gray. SOURCE CODE: NS-CD

TARGET: Conduit KT077. TARGET CODE: E-KT027-2

POSTULATED INTERACTION: Gas lines impact conduit due to lack of lateral support. PHENOMENA CODE: HVAC Fan Rooms

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
These lines are believed to be temporary lines. Insure that they are removed prior to plant start-up.

G. Worisky 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
lines will be removed as directed by NPPR #DC1-83-NO-P0012.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-08-01-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-0"

LOCATION WITHIN FIRE ZONE:

Azimuth 200° between steam generator 1-4 and crane wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line No. 3847-6".  
(RHR pp 1-2 INJ. cold leg 4)

SOURCE CODE: P-3847-6

TARGET:

FCV-763 (operator), SG blowdown 1-4 isolation valve.

TARGET CODE: M-FCV763

POSTULATED INTERACTION:

Insulation on line No. 3847 is in contact with FCV-763, relative movement could damage the operator on FCV-763.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Rework insulation on line 3847 as required to allow relative movement by providing 1" air gap between insulation and valve operator.

Note: This interaction is a result of final sip area walkdown.

S. L. Harris 09/28/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Insulation on line #3847 reworked to provide 1" clearance around the operator on FCV-763. (Per ART 453.)

C. R. VanNatta 10/10/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 10/10/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO MAN

S. E. Traisman 11/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-10-03-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, near RCP 1-2, along missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Air register (8' long).

SOURCE CODE: H-DUCT-1B

TARGET:  
Air supply tubing to FCV-761.

TARGET CODE: I-FCV761

POSTULATED INTERACTION:  
Air register falls, impacts tubing.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air registers by simplified analysis.

M. Jones 11/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

45

POSTULATED INTERACTION NO.: 05-10-03-02FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 120', at missile barrier, near pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Temporary florescent light fixture.

SOURCE CODE: F-I.F-18TARGET:

Air supply tubing to FCV-76.

TARGET CODE: I-FCV761POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove temporary light fixture before plant start-up.

M. Jones 11/06/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

light fixture removed 02/19/82 per ART 043.

DISCIPLINE ENGINEER/DATE

A. G. Barta 02/12/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

S. Harris 11/06/80  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-16-03-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

## LOCATION WITHIN FIRE ZONE:

Elev. 110, near RCP 1-3, along missile barrier.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Air registers (2).

SOURCE CODE: H-DUCT-18TARGET:

Air supply tubing to FCV-762.

TARGET CODE: I-FCV762POSTULATED INTERACTION:

Air registers fall, impact tubing.

PHENOMENA CODE: MECHFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of air registers by simplified analysis.

M. Jones 11/15/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATED. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-16-05-03

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117 Col. 7 at BTX12E.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating.

SOURCE CODE: C-GRATING

TARGET:  
K1741

TARGET CODE: E-K1741-2

POSTULATED INTERACTION: Floor grating close to conduit and could impact if movement occurred.  
PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between floor grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART 021.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S/G  
8/15/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-16-05-05

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', area GW.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: NS-CD  
4 construction gas lines, three 1.5" - green, orange, white. One 2.5" - gray.

TARGET: TARGET CODE: E-KT026-1  
Conduit KT026.

POSTULATED INTERACTION: PHENOMENA CODE: HOUSFKFFP  
Gas lines impact conduit due to lack of lateral support.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
These lines are believed to be temporary lines. Insure they are removed prior to plant start.

G. Worisky 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Lines will be removed as directed by NPPR No. DC1-83-NO-P0012.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE FMS ENG [GC] HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-17-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, near penetration 77.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Steam generator blowdown line 1042 - 2 1/2". SOURCE CODE: P-1042-2.50

TARGET: Class E blowdown line to pressurizer relief tank. TARGET CODE: P-1162-0.75

POSTULATED INTERACTION: Line 1042 moves laterally, impacts vent connection to class E line. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Add lateral restraint to line 1042 to preclude contact with vent connection.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Review of seismic and thermal expansion movement analysis done by PG&E & Bechtel show that the postulated interaction will not occur. Therefore no action necessary. See RLCA Resolution Report # 54.

C. R. VanNatta 06/22/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 06/22/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 07/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-21-02-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Near steam generator 1-4.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead HVAC ducts and air register.

SOURCE CODE: H-DUCT-1B

TARGET:  
FCV-763.

TARGET CODE: I-FCV763

POSTULATED INTERACTION:  
Ducts and/or register fall on valve and control circuits (air supply, position switches).

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of ducts and register. Simplified analysis coupled with detailed inspection is suggested.

M. Jones 04/01/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

EDS Calc. No. 2 has demonstrated the integrity of the identified duct and register. No field modifications are required.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-27-03-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117, 220<sup>0</sup>, on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:Line 1870-1" N<sub>2</sub> supply line.SOURCE CODE: P-1870-1TARGET:

Mechanical panel 162 tubing.

TARGET CODE: I-PM162POSTULATED INTERACTION:

Line 1870 hangers do not meet the B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 162 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculation by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 12/17/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

sw

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS).

POSTULATED INTERACTION NO.: 05-22-03-02FIRE ZONE J-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, 221<sup>0</sup>, along missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead light fixture.

SOURCE CODE: F-LF-1A

TARGET:  
 Tubing to mechanical panel 162.

TARGET CODE: I-PM162

POSTULATED INTERACTION:  
 Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of light fixture mount. Simple analysis should be adequate.

M. Jones 04/15/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Fixture qualified by analysis. See Civil Calc. 52.24.52.

Act

R. J. Swaim 01/28/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/08/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-22-03-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, near RCP 1-4, along missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Air register. SOURCE CODE: H-DUCT-1B

TARGET: Air supply tubing to FCV-763. TARGET CODE: I-FCV763

POSTULATED INTERACTION: Air register falls, impacts tubing. PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of air register by simplified analysis.

M. Jones 11/05/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATE D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/08/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-22-04-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117, 220°, on missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Line 1870-1" N<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
 Mechanical panel 162.

TARGET CODE: I-PM162

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
 Line 1870 hangers do not meet the B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 162.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-22-05-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117 Col. 7 at BTX12F DWG 57687.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating.

SOURCE CODE: C-GRATING

TARGET:  
K1741

TARGET CODE: F-K1741-2

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE & DEFLECT  
Floor grating close to conduit and could impact if movement occurred.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between floor grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART #22.  
Note: This IDS is duplicate with IDS #05-16-05-03.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

F. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 05/27/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*S: 2/21/82*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-22-05-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1-1/2"

LOCATION WITHIN FIRE ZONE:

Elev. 117, inside shield wall near STM GEN 1-4, azimuth 235°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Tie rod supporting FCV 763.

SOURCE CODE: M-FCV763

TARGET:

Flex conduit from conduit K1788 TO FCV 163, line 1048-2 1/2".

TARGET CODE: E-K1788-1

POSTULATED INTERACTION:

Tie rod could impact flex conduit.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Shield flex conduit from tie rod.

B. Smith 02/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Flex conduit will behave like a parabolic curve from a fixed point. See DWG for more details. This concluded that the spring HG rod will not impact flex conduit. Therefore no action necessary.

C. R. VanNatta 06/14/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 06/14/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 07/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-27-03-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100, at containment 127°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform.SOURCE CODE: C-PLAT-3BBTARGET:  
FCV-250.TARGET CODE: M-FCV250POSTULATED INTERACTION:  
Platform falls, impacts valve and attached tubing.PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by analysis.M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform, etc. qualified by analysis. See resolution sheet and Calc. No  
05-27-03-01.S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATEV. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE562  
7/28/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-28-03-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100", GF area, near penetration 37, 131°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Tension rods to pipe whip restraint to line 1040, support node 648-R4.  
SOURCE CODE: PS-1040-2.50

TARGET: Air supply tubing to valve FCV-250.  
TARGET CODE: I-FCV250

POSTULATED INTERACTION: Lateral movement of tension rods causes impact with tubing.  
PHENOMENA CODE: DIFFICT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Add shield bracket to column 9 to protect tubing from impact.

M. Jones 05/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Instrument line rerouted per ART 272.

E. M. Valeriano  
 DISCIPLINE ENGINEER/DATE

G. H. Moore 07/10/80  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman  
 FIFD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/29/87  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-31-03-01

FIRE\_ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, at containment 127°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform.

SOURCE CODE: C-PLAT-3BB

TARGET:  
FCV-249.

TARGET CODE: M-FCV249

POSTULATED INTERACTION:  
Platform falls, impacts valve and attached tubing.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by analysis.

M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform is qualified by analysis. See resolution sheet and Calc. No  
05-27-03-01.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

5/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1 575

POSTULATED INTERACTION NO.: 05-32-03-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 100, GE area, near penetration 37, 131°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

SOURCE CODE: P-1040-2.50

Tension rods to pipe whip restraint to line 1040, support node 648-R4.

TARGET:

TARGET CODE: M-FCV248

Air supply tubing to valve FCV-248.

POSTULATED INTERACTION:

PHENOMENA CODE: DEFLECT

Lateral movement of tension rods causes impact with tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add shield bracket to column 9 to protect tubing from impact.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The tension rods are located approx 40" above platform 73 G grating and the air supply tubing is located approx 9" below 73 G platform grating. The interposing grating precludes the interaction. No modification is necessary.

S. Skochko 06/27/83  
DISCIPLINE ENGINEER/DATE

J. P. Meierdierks 06/27/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-35-03-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100, at containment 127°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform.SOURCE CODE: C-PLAT-388TARGET:  
FCV-246.TARGET CODE: M-FCV246POSTULATED INTERACTION:  
Platform falls, impacts valve and attached tubing.PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by analysis.M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform is qualified by analysis. See resolution sheet and referenced Calc. No  
05-27-03-01.S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATEV. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-36-03-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100', GE area, near penetration 37, 131°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Tension rods to pipe whip restraint to line 1040, support node 648-R4.  
SOURCE CODE: P-1040-2.50

TARGET: Air supply tubing to valve FCV-246.  
TARGET CODE: M-FCV246

POSTULATED INTERACTION: Lateral movement of tension rods causes impact with tubing.  
PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Add shield bracket to column 9 to protect tubing from impact.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The tension rods are located approx 40" above platform 73 G grating and the air supply tubing is located approx 9" below 73 G platform grating. The interposing grating precludes the interaction. No modification is necessary.

S. Skochko 06/27/83  
DISCIPLINE ENGINEER/DATE

J. Meierdierks 06/27/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-38-01-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 100- 5' from container wall azimuth 143°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Motion due to postulated HOSGRI event.

SOURCE CODE: NS-CDTARGET:

FCV 160 S.G. to blowdown tank.

TARGET CODE: M-FCV160POSTULATED INTERACTION:

Contr. deficiency: seismic compression stop has about 3/4" clearance & pipe attached to valve is in rigid guides so that seismic stop is ineffective.

PHENOMENA CODE: HOUSEKEEPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Shim 3/4" (about) between valve &amp; compression stop.

R. L. Cloud 06/09/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

A PG&E memo was sent to PPP/P. Steiger/R. King/H. Karner from R. Meredith R. Tinkle on 05/03/83 stating that hanger 575/186R is to be reworked in order to resolve interaction.

Note: construction deficiency corrected via ref. PG&amp;E memo.

C. R. VanNatta 05/10/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 05/10/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/02/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84

SIP PROJECT ENGINEER APPROVAL/DATE





PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-40-03-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, GE area, near penetration 37, 131°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Tension rods to pipe whip restraint to line 1040, support Mode 648-R4.

SOURCE CODE: P-1040-2.50TARGET:

Air supply tubing to valve FCV-244.

TARGET CODE: M-FCV244POSTULATED INTERACTION:

Lateral movement of tension rods causes impact with tubing.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add shield bracket to column 9 to protect tubing from impact.

M. Jones 05/20/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The tension rods are located approx. 40" above platform 73G grating and the air supply tubing is located approx. 9" below platform 736 grating. The interposing grating precludes the interaction. No modification is necessary.

S. Skochko 06/27/83

DISCIPLINE ENGINEER/DATE

J. Meirdierks 06/27/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&amp;C] PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 08/23/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 05-41-01-02

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 103, at containment wall 139°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform and grates.

SOURCE CODE: C-PLAT-388

TARGET:  
Line 1863-1"; N<sub>2</sub> supply line.

TARGET CODE: P-1863-1

POSTULATED INTERACTION:  
Platform falls, impacts line 1863.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 08/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform and grating have been seismically qualified by analysis. See resolution sheet and referenced Calc. No 05-27-03-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
7/27/94

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 148, on walls above the reactor pit.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Big beam battery-operated lights (2).

SOURCE CODE: E-IF-1CTARGET:

Reactor vessel and CRDM.

TARGET CODE: M-CROMPOSTULATED INTERACTION:

Lights fall from mounting, impact CRDM.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Insure integrity of lights. Add additional restraints (strapping) if/as required.

M. Jones 03/02/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Lights mounting have been seismically qualified by analysis. See Civil Calc.

Ret No. 06-01-01-01.

S. Gaballah 08/25/82DISCIPLINE ENGINEER/DATEB. Sarkar 09/21/82ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140, over reactor pit.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Concrete radiation shields (7).

SOURCE CODE: C-SHIELDTARGET:

Reactor vessel and CRDM.

TARGET CODE: M-CRDMPOSTULATED INTERACTION:

Concrete blocks overturn, fall into reactor pit.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of concrete shields by simplified analysis.

M. Jones 03/03/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Concrete radiation shields have been seismically qualified by analysis. See calculation No. 06-01-01-02 and resolution sheet.

S. Gaballah 09/22/82  
 DISCIPLINE ENGINEER/DATE

B. Sarkar 09/23/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L W. Horn 10/25/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-03

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 140', near steam generator and inside Fuel Transfer Canal.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Remote equipment operators (20' long, 8 pieces). SOURCE CODE: C-MISC-1C

TARGET: Reactor vessel & CRDM. TARGET CODE: M-CRDM

POSTULATED INTERACTION: Remote operators fall from temporary mountings, impact CRDM. PHENOMFNA CODE: MFCHFALL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure remote operators to mountings or remove from area.

M. Jones 03/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The remote operator attached to the wall near S/G 1-3 has been secured as per ART No. 412. See Calc. No. 06-01-01-03. Also other remote operators will remain in the fuel transfer canal with no interaction with CRDM or reactor vessel.

S. Gaballah 07/18/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 07/18/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 11/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
3/21/74

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-04

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 140, around reactor pit.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: M-HOIST-1C  
 Misc. lifting equipment (FH crane, head and reactor internals lifting devices, small hoists, etc). Hoist each side of SG1-3.

TARGET: TARGET CODE: M-CRDM  
 Reactor vessel & CRDM.

POSTULATED INTERACTION: PHENOMENA CODE: MFCHEAI  
 Source components fail or fall, impacting reactor and appurtanences.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of source components by analysis. Stored components should be secured in place.

M. Jones 03/02/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 No modifications are required. Sources have no possibility of interaction with targets or qualified for Hosgri event. See rationale, in IDS file No. 06-01-01-04.

A. Appleford 11/28/82  
 DISCIPLINE FMGTNFER/DATE

R. Sarkar 12/07/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS ENG GC HVAC I&C PSE NPO NAN

FIFD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 02/08/83  
 SIP PROJECT FMGTNFER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-05FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Top of containment dome.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Power cable to polar crane drive. SOURCE CODE: E-R-JC

TARGET: Reactor vessel and CRDM. TARGET CODE: M-CROM

POSTULATED INTERACTION: Cable mount (Elev. 300) fails, cable falls on CRDM. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Insure integrity of power cable mounting, by simplified analysis. See Civil Calc.  
 No. 06-01-01-05.

M. Jones 03/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Lights mounting have been seismically qualified by analysis. See Civil Calc.  
 No. 06-01-01-01.

KCS

S. Gaballah 08/19/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 09/22/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/25/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-06FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 211', top of polar crane.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Service hoist.

SOURCE CODE: M-HOIST-1CTARGET:

Reactor vessel &amp; CRDM.

TARGET CODE: M-CRDMPOSTULATED INTERACTION:

Hoist falls, impacts CRDM.

PHENOMENA CODE: MECHFAT1RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis. Secure hoist to monorail to prevent motion.

M. Jones 03/03/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources identified in technical review No. 9716-TR-0373, 0269 has been seismically qualified with modification per ART No. 413 and 351. See Calc. No. 06-01-01-06, Rev. 1.

S. Gaballah 03/10/83

DISCIPLINE ENGINEER/DATE

B. Sarkar 03/10/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. F. Traisman 11/29/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 01/18/84

SIP PROJECT ENGINEER APPROVAL/DATE

SG  
3/21/84



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-07

FIRE ZONE IC LOCATION Containment FLOOR ELEVATION 140'

LOCATION WITHIN FIRE ZONE:  
Elevation 211. top of polar crane

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Misc. equipment (fire extinguishers, battery charger, etc.) SOURCE CODE: NS-CD

TARGET: Reactor vessel and CRDM TARGET CODE: M-CRDM

POSTULATED INTERACTION: Equipment falls from crane, impacts CRDM PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove equipment before start-up.

M.G. Jones 3/3/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Equipment removed as of 6/23/83.

*DWS  
8/1/84*

DISCIPLINE ENGINEER/DATE

J.D. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S.E. Traisman 11/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L.W. Horn 1/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-08FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Hydraulic fluid tank to dome service crane.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Hydraulic fluid tank to dome service crane.

SOURCE CODE: M-TANKTARGET:

Reactor vessel &amp; CRDM.

TARGET CODE: M-CRDMPOSTULATED INTERACTION:

Tank overturns, falls from crane, impacts CRDM. Fluid spills onto CRDM resulting in fire.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of tank by analysis. Provide additional supports if/as required.

M. Jones 03/03/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

source component was seismically qualified by analysis. Subject to modifications shown on DCN NO. SC1-EC-5349.

S. Gaballah 02/24/83

DISCIPLINE ENGINEER/DATE

B Sarkar 02/28/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANM. Baker 06/28/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/05/83

SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/15/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-09

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 211, top of polar crane.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Cover to electrical equipment, near gantry control panel 4. SOURCE CODE: NS-CD

TARGET: Reactor vessel & CRDM. TARGET CODE: M-CRDM

POSTULATED INTERACTION: Cover falls, impacts CRDM. PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing bolt to cover on bottom edge to ensure integrity of cover.

M. Jones 03/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 07/29/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-01-10FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Above reactor vessel head.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 CRDM cooling fans and associated ducting.

SOURCE CODE: H-DUCT-1C

TARGET:  
 CRDM's.

TARGET CODE: M-CRDM

POSTULATED INTERACTION:  
 Fans and/or associated duct supports fail and sources impact target below.

PHENOMENA CODE: SPTFAT1

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify integrity of fans and duct supports by simplified analysis.

S. E. Traisman 09/28/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Subject fans and ducts have been qualified with modification under the DCP  
 Ductwork Reverification Program. For modification see DCN DC1-FC-3603 and for  
 Calc. see Calc. File #52.7.12.1.

S. Gaballah 07/12/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 07/12/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS FNG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

$\frac{3}{8}$  12/82

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-02-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 114', inside containment building.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Handrails at fuel transfer canal, elev. 140'. SOURCE CODE: C-HANDRAIL

TARGET: Reactor head equipment. TARGET CODE: M-CROM

POSTULATED INTERACTION: Handrails fall into reactor pit impact reactor head equipment. PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Secure removable handrails to mountings and/or ensure integrity of handrails by simplified analysis.

R. D. Dorli 04/01/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Handrails have been qualified by analysis. See resolution sheet and Calc No. 06-01-02-01, Rev. 1.

S. Hanusiak 04/22/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/22/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5/2  
3/16/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-02-02

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 114', inside reactor pit.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
CRDM hoists for stud tensioner.

SOURCE CODE: M-HOIST-1C

TARGET:  
CRDM.

TARGET CODE: MECHFATI.

POSTULATED INTERACTION:  
Hoists fall, impact CRDM.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of hoists by simplified analysis.

M. Jones 03/11/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Since the stud tensioner hoists are not installed on the monorail during reactor operations, interaction invalid. See resolution sheets.

S. Gaballah 12/07/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 12/07/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5/5  
5/24/84



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-04-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:  
 Elev. 112', in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 5-path and 10-path drive assemblies over seal table. SOURCE CODE: M-5-10PATH

TARGET: Incore flux monitoring tubing. TARGET CODE: I-FLUX MON

POSTULATED INTERACTION: Drive assemblies fall upon tubes. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/17/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Modification provided per DCN #DCI-E-M-5332.

T. P. Lee 07/07/83  
 DISCIPLINE ENGINEER/DATE

E. Connell III 07/07/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/24/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 07/03/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E. 8/21/84*



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-04-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112, in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grating at elev. 125.

SOURCE CODE: NS-CD

TARGET:  
Vessel bottom conduits.

TARGET CODE: I-FLUX MON

POSTULATED INTERACTION:  
Grating is stored loosely on overhead conduits.

PHENOMENA CODE: HOUSEKEEP

platform. Grating falls, impacts

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/17/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
No grating is stored loosely on upper platform. This work was done in the course of construction - no design documentation necessary.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE [NPO] NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-04-03FIRE ZONE 1-8 LOCATION Containment FLOOR ELEVATION 112'-1<sup>1</sup>/<sub>2</sub>"

LOCATION WITHIN FIRE ZONE:

Elev. 112, in seal table room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Nitrogen storage bottle.

SOURCE CODE: M-BOTTLETARGET:

Incore flux monitoring tubes.

TARGET CODE: I-FLUX MONPOSTULATED INTERACTION:

Bottle overturns, impacts tubes.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure that bottle mountings (chains) are adequate to support bottle.  
 Secure ends of chain to mounting bracket by bolting.

M. G. Jones 03/15/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

See calculation No. M-159 for resolution and field modification, ART 307.  
 Modified latches at ends of chain.

E. Barna 10/01/82  
DISCIPLINE ENGINEER/DATE

E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 11/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*A.J.E. 8/21/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-04-04FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 81'-6"

LOCATION WITHIN FIRE ZONE:  
 Elev. 88, near reactor cavity.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Reactor coolant drain tank.

SOURCE CODE: M-TANK

TARGET:  
 Vessel bottom conduits.

TARGET CODE: I-FLUX MON

POSTULATED INTERACTION:  
 RCDT supports fail, resulting in overturning of tank and subsequent impact with bottom conduits.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of RCDT supports by simplified analysis.

M. Jones 03/17/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The RCDT supports have been qualified by analysis. See Calc. No. 06-01-04-04.

S. Gaballah 10/06/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 10/07/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-04-06FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Incore seal table room, elev. 112', azimuth 270°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform 72FG, elev. 125'.

SOURCE CODE: C-72FGTARGET:

Seal table.

TARGET CODE: I-FLUX MONPOSTULATED INTERACTION:

Platform fails, falls onto target.

PHENOMENA CODE: CIVTLFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify integrity of platform by simplified analysis.

S. F. Traisman 09/29/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Modification per ART No. 319 to be added to prevent postulated interaction. See resolution sheet and Calc. No. 06-01-04-06.

S. Gaballah 10/28/82DISCIPLINE ENGINEER/DATEB. Sarkar 10/28/82ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. F. Traisman 08/24/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/08/83SIP PROJECT ENGINEER APPROVAL/DATES/S  
9/12/83

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-01-04-07FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Bottom of reactor pit at elev. 64'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: I-ELPP06  
 Loose parts pinger No. ELPP06 attached to flux monitoring tubes.

TARGET: TARGET CODE: I-FLUX MON  
 Incore flux monitoring tubes (part of RCS pressure boundary).

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAI  
 Loose parts pinger mounted on a 39" x 4" x 3/4" stainless steel plate. Plate is supported off of two incore flux monitoring tubes. Seismic excitation of apparatus mounted on flux monitoring tubes damages flux monitoring tubes or apparatus mounting fails and impacts flux monitoring tubes.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify by analysis that the present configuration, (i.e.; loose parts pinger and stainless steel mounting plate mounted on two incore flux monitoring tubes) is qualified. Note: This IDS is being resolved via DC1-EM-13006 (06/23/83).

S. Skochko 07/19/83  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

DC1-EM-13006-RO, requests that the loose parts pinger ELPP06 be removed from the flux monitoring tubes which precludes the interaction.

S. Skochko 08/18/83  
 DISCIPLINE ENGINEER/DATE

J. Meierdierks 08/18/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE FMS ENG GC HVAC [I&C] PSE NPO NAN

S. F. Traisman 11/02/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-02-07-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Nearby shielding plates.

SOURCE CODE: C-SHIELD

TARGET:  
Root valve 8061A.

TARGET CODE: I-8061A

POSTULATED INTERACTION:  
Deflection of shielding plates results in impact with valve 8061A.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8061A.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required.  
See resolution (4 total) by RWE on 08/22/80.

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DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

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FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-02-08-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 95, under steam generator 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Nearby shielding plates.

SOURCE CODE: C-SHIELDTARGET:

Root valve 8060A.

TARGET CODE: I-8060APOSTULATED INTERACTION:

Deflection of shielding plates results in impact with valve 8060A.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or cut shielding plates away from valve 8060A.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Seismic displacements less than existing gap. No action required.  
 See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10-28-82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-02-09-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Nearby shielding plates.

SOURCE CODE: C-SHIELD

TARGET:  
Root valve 8059A.

TARGET CODE: I-8059A

POSTULATED INTERACTION:  
Deflection of shielding plates results in impact with valve 8059A.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8059A.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required.  
See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10-28-82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-03-05-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 96, under RCP's 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Class E lines 3816-3819, stem leakoff piping to valves 8073A-D. SOURCE CODE: P-3816-0.75

TARGET: Misc. RCL instrument taps & Class I conduit. TARGET CODE: GENERIC

POSTULATED INTERACTION: Class E pipe impacts Class I RCL instrument pipe & conduit due to Jack of lateral support. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Add additional restraints to lines 3816-3819 to preclude large deflections and reduce pipe seismic stresses.

M. Jones 04/08/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Pipe supports added per RLCA Resolution Report No. 6, Rev. A. Support E4 installed as one-way restraint w/pipe snubber used for other lateral direction.

P. H. Anderson 01/14/81  
 DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Jones 02/25/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

sw

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-03-05-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Nearby shielding plates.

SOURCE CODE: C-SHIELD

TARGET:  
Root valve 8061B.

TARGET CODE: I-8061B

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
Deflection of shielding plates results in impact with valve 8061B.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8061B.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-03-06-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 95, under steam generator 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Nearby shielding plates.

SOURCE CODE: C-SHIELDTARGET:

Root valve 8060B.

TARGET CODE: I-8060BPOSTULATED INTERACTION:

Deflection of shielding plates results in impact with valve 8060B.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or cut shielding plates away from valve 8060B.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/25/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-03-07-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Nearby shielding plates.

SOURCE CODE: C-SHIELD

TARGET:  
Root valve 8059B.

TARGET CODE: I-8059B

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
Deflection of shielding plates results in impact with valve 8059B.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8059B.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

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DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10-28-82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-04-04-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-3.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Nearby shielding plates. SOURCE CODE: C-SHIELD

TARGET: Root valve 8061C. TARGET CODE: I-8061C

POSTULATED INTERACTION: Deflection of shielding plates results in impact with valve 8061C. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8061C.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required.  
Resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-04-05-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 95, under steam generator 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Nearby shielding plates.

SOURCE CODE: C-SHIELDTARGET:

Root valve 8060C.

TARGET CODE: I-8060CPOSTULATED INTERACTION:

Deflection of shielding plates results in impact with valve 8060C.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or cut shielding plates away from valve 8060C.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-04-06-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 95, under steam generator 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Nearby shielding plates.

SOURCE CODE: C-SHIELDTARGET:

Root valve 8059C.

TARGET CODE: I-8059CPOSTULATED INTERACTION:

Deflection of shielding plates results in impact with valve 8059C.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or cut shielding plates away from valve 8059C.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10-28-82  
SIP PROJECT ENGINEER APPROVAL/DATE

SHEET 1 OF 1  
PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-05-08-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-4.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Nearby shielding plates. SOURCE CODE: C-SHIELD

TARGET: Root valve 8061D. TARGET CODE: I-8061D

POSTULATED INTERACTION: Deflection of shielding plates results in impact with valve 8061D. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8061D.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required. Final resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE H. J. Hansen 08/22/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 10/28/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-05-09-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 95, under steam generator 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Nearby shielding plates.

SOURCE CODE: C-SHIELDTARGET:

Root valve 8060D.

TARGET CODE: I-8060DPOSTULATED INTERACTION:

Deflection of shielding plates results in impact with valve 8060D.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or cut shielding plates away from valve 8060D.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/25/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 12/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-05-10-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, under steam generator 1-4.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Nearby shielding plates.

SOURCE CODE: C-SHIELD

TARGET:  
Root valve 8059D.

TARGET CODE: I-8059D

POSTULATED INTERACTION: DEFLECT  
Deflection of shielding plates results in impact with valve 8059D.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove or cut shielding plates away from valve 8059D.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Seismic displacements less than existing gap. No action required. See resolution sheets (4 total) by RWE on 08/22/80.

DISCIPLINE ENGINEER/DATE

H. J. Hansen 08/25/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10-28-82  
SIP PROJECT ENGINEER APPROVAL/DATE

*sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-05-14-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7"

## LOCATION WITHIN FIRE ZONE:

loop 4, under RCP 4, elev. 110'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" drain line (scupper drain).

SOURCE CODE: P-4397-2TARGET:

Charging line 246 vent (2 valves).

TARGET CODE: PA-0246-3POSTULATED INTERACTION:

2" drain line fails, falls on vent. Failure possible at mechanical coupling of scupper drain.

PHENOMENA CODE: SPTFAIL & PIPFFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add vertical restraint at drain line mechanical coupling location near line 246 vent valves.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bilat added near contact point per ART 006.

R. W. Eschenburg 11/12/80  
DISCIPLINE ENGINEER/DATE

S. Chitnis 07/24/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Jones 02/24/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-05-27-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7"

LOCATION WITHIN FIRE ZONE:  
 Elev. 108, between SG1-4 and RCP.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 3x3 angle bracket of pipe support SI/57R. SOURCE CODE: P-4398-2

TARGET: Line 1158-3"; loop 4 RTD return TARGET CODE: P-1158-3

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE  
 Thermal/seismic movement of line 1158 results in impact with pipe support.  
 Existing pipe support to insulation of line 1158 - 3/8".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify by analysis that impact will not occur or that impact is insufficient to damage line 1158.

M. Jones 02/24/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Relocated pipe & l. 3"x3" x 3/8" -0'-8 3/4" LG per hanger DWG No. 049339 Sht. 96,  
 Rev. 2 by DCN DC1-EP-3606.

C. R. VanNatta 01/10/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Baker 06/28/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/30/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-06-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', azimuth 247°, near BTX31E.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Grating.

SOURCE CODE: C-GRATINGTARGET:

KX418 conduit.

TARGET CODE: E-KX418-1.50POSTULATED INTERACTION:

Movement of grating could cause impact with conduit where conduit drops through.  
 There exists insufficient clearance.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Modify grating to ensure minimum 2" clearance between grating and conduit.

A. G. Barta 07/19/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Clearance to be provided per ART No 184.

S. Hanusiak 07/20/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/28/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EF EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 07/17/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

5/5  
 8/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-06-02-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117, azimuth 297°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating.

SOURCE CODE: C-GRATING

TARGET:  
KX418 conduit.

TARGET CODE: E-KX418-1.50

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE & DEFLECT  
Movement of grating could cause impact with conduit where conduit drops through.  
There exists insufficient clearance.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Modify grating to ensure minimum 2" clearance between grating and conduit.

A. G. Barta 02/19/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Clearance will be provided per ART No. 174.

S. Hanusiak 07/17/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/23/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

56  
3/15/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-06-02-03

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Flev. 100', area GW, (J-K, 12), on the ceiling.

*Handwritten scribble*

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CD

TARGET:

KK308-2".

TARGET CODE: E-KK308-2

POSTULATED INTERACTION:

Missing condulet cover.

PHENOMENA CODE: HOUSEKEFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace the cover.

E. Denison 07/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Cover replaced per ART 210.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/27/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG [QC] HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-06-02-04

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 100', area GW, (J, 12), 11' above + left floor, between BJJ230 and BJJ273.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2 rod hangers from: 1) 4" green service air, 39" east of J line, and  
2) 12" bluewater pipe L721, 20" east of J line.

SOURCE CODE: P-1114-4

TARGET:

KK308-2".

TARGET CODE: E-KK308-1.25

POSTULATED INTERACTION:

The pipes swing and the rod hangers impact KK308.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute the conduit 2" to the east and remove the rod hanger from the 4" green service air line. The remaining supports are 14' apart and adequate per P. H. Anderson.

E. Denison 07/09/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Add pipe support by generic DCN-DC1-EP-5061 HGR No. 049339, sheet 337, Rev 1.

C. R. VanNatta 08/04/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 08/04/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/11/83

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83

SIP PROJECT ENGINEER APPROVAL/DATE

*sw*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-06-02-05FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, GEGW, (12'); 10" east of the J line, 11' above the floor between PM 124' & PM 182, at the wall penetration

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

4" O. D. Blue water pipe and vent.

SOURCE CODE: P-4603-4TARGET:

KK307 2".

TARGET CODE: E-KK307-2POSTULATED INTERACTION:

A 1" O. D. vertical valve from the 4" O. D. blue water pipe impacts the conduit 2" above.

PHENOMENA CODE: INTAKE STRUCTURE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Modify the existing rod hanger to prevent upward pipe movement by adding a bolt under the support. Ensure hanger can take buckling load.

Edward Denison 07/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added support by generic DCN DC1-EP-5061 HGR DWG No. 479339 Sht. 238, Rev. 1

C. R. VanNatta 08/19/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/19/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-09-03-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 117', Az. 210° against cont. wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Beam and grating at Elev. 117'

SOURCE CODE: C-GRATING

TARGET:  
 KX161 below RTX8F.

TARGET CODE: E-KX161-2

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE/RFSTRUCT  
 As conduit passes through elev. 117', there is no clearance against the floor beam and grating on one side. Additionally the conduit is supported to the cont. wall creating some differential motion.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Locally reroute the conduit to provide at least 1" clearance.

P. H. Anderson 06/03/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Penetration box BTX8F and support S206 for conduit KX161 have been detached from containment wall per DCN DC1-FC-3604. This modification eliminates the possibility of impact between CND. and platform grating and/or floor beam due to differential motion between containment and annulus structure. No further action necessary.

R. J. Swaim 06/24/83  
 DISCIPLINE ENGINEER/DATE

S. Auer 08/23/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 11/02/83  
 JFID VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

55

POSTULATED INTERACTION NO.: 06-14-03-03

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 110', area G, col. 8, outer wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Conduit KT461.

TARGET CODE: E-KT461

POSTULATED INTERACTION:  
Cover to BTX26E is missing.

PHENOMENA CODE: HOUSFKFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace the cover.

E. Denison 06/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Cover installed per ART 154.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-15-02-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117', col. 17 crane wall DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Floor grating. SOURCE CODE: C-GRATING

TARGET: KX292 conduit. TARGET CODE: E-KX292-1.25

POSTULATED INTERACTION: Grating touches conduit. Could impact and damage conduit if movement occurs. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART No. 023.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*SL*  
*3/15/82*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-20-03-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 112', col. 13, near platform at valve 8703, DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform structure.

SOURCE CODE: C-PLAT-1A

TARGET:

KX246 conduit.

TARGET CODE: E-KX246-2.50

POSTULATED INTERACTION:

Platform structure within 1/8" of conduit platform and/or grating could pi conduit.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide clearance between platform and conduit.

J. F. Grant 09/10/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

It was concluded the part of structure in question is a light flexible angle hanger. Very little relative movement between conduit and hanger are exacted (they are attached to same structure) and the flexible L hanger is not capable of damaging rigid pipe conduit. See resolution sheet.

S. Hanusiak 01/16/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/20/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.  
8/15/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-23-01-01FIRE ZONE J-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Along crane wall outside @ azimuth 325° above mechanical panel 19.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 2" line off of line S2-4275-3/4 (hot leg SI drain HDR). SOURCE CODE: P-4275-0.75TARGET: Process lines to FT-415 (FT-415 in panel 18). (Reactor coolant coop 1 flow transmitter). TARGET CODE: I-FT415POSTULATED INTERACTION: Source line deflects laterally and/or longitudinally, which results in source line impacting target instrument line. PHENOMENA CODE: DEFLECT

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add 3-way restraint off of existing dead weight angle support to preclude interaction or verify deflection of source line will not impact target instrument lines.

NOTE: This interaction is a result of final sip area walkdown.

S. Skochko 09/14/83  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

No action necessary. Analysis showed piping would not hit tubing. Ref. Calc. by R. Hare dated 09/19/83.

C. R. VanNatta 09/22/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 09/22/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 09/15/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-25-02-04

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Elev. 110', inside shield wall near top of RCP1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating near top of RCP1-2.

SOURCE CODE: C-PLAT-1B

TARGET:  
Conduit KX400 where it goes thru grate down to RTX220.

TARGET CODE: E-KX400-2

POSTULATED INTERACTION:  
Grating very tight around conduit.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut away grating for clearance.

B. Smith 02/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Provide 2" min. clearance around the conduit as per ART No. 170.

S. Hanusiak  
DISCIPLINE MGMTNFR/DATE

F. P. Wollak 04/21/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/18/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 06-27-01-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 106, on loop 3 hot leg piping, 159°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CD

TARGET:

TE 433A.

TARGET CODE: J-TF433A

POSTULATED INTERACTION:

Instrument has been damaged at the tie-in to the loop 3 hot leg.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Repair and/or replace TE 433A if/as required.

M. Jones 03/17/87  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 07/03/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-27-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', azimuth 237°, near BTX24.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Grating.

SOURCE CODE: C-GRATINGTARGET:

Conduit - KX411.

TARGET CODE: E-KX411-1.50.POSTULATED INTERACTION:

Movement of grating could cause impact with conduit where conduit drops through.  
 There exists insufficient clearance.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Modify gratin to ensure minimum 2" clearance between grating and conduit.

A. G. Barta 02/19/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Required clearance to be provided per ART No. 175.

S. Hanusiak  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/02/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/15/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-27-02-02FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115', area GW, SW corner and hand 15.6.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fire line 3" diameter.

SOURCE CODE: P-SPR-388TARGET:

KT064, K6454.

TARGET CODE: E-KT064+POSTULATED INTERACTION:

Fire line fails due to fixed end rod hangers.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace fixed end rod hangers with clevis hangers and include lateral supports as required.

B. Worinsky 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added pipe supports. See pipe support DWG No. SPR-723, Rev. 1 &amp; 724, Rev 1 reflects "as-built" condition.

DISCIPLINE ENGINEER/DATEJ. Longworth 04/29/82  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANM. Baker 08/01/81  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/05/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-57-02-01

FIRE ZONE 6-A-2 LOCATION Electrical Rooms FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', near col. 15<sup>7</sup> and K.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Duct. SOURCE CODE: H-DUCT-6A2

TARGET: K4976 near panel AC PY14 TARGET CODE: E-K4976-0.75

POSTULATED INTERACTION: Target conduit runs over duct with zero clearance. Vertical movement of duct could damage conduit. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of conduit.

P. Anderson 06/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Analysis has demonstrated the integrity of the identified Class I (fireproofed) ventilation duct in this area. There is no displacement or movement of the duct.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/03/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 06-59-02-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:

Elev. 120, inside reactor pit.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Stainless covers to CRDM equipment (5 places). SOURCE CODE: C-COVER

TARGET: 3/4" manual root valve from reactor head. TARGET CODE: I-VALVE

POSTULATED INTERACTION: Covers fall from place, impact manual valve. PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure covers in place by clamps, bolts, etc.

M. Jones 03/11/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Secure the remaining SS covers which were not completely installed during the initial walkdown. This resolves the postulated interaction. See ART 316.

E. Barna 10/15/82  
DISCIPLINE ENGINEER/DATE

E. Connell III 10/15/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

M. Baker 08/01/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/05/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*AJE 8/21/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-04-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 99, under SG 1-3, 175°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Light fixture, near SG 1-4, 7 ft. from shield wall. SOURCE CODE: E-LF-18

TARGET: Tubing, to TE 1315. TARGET CODE: I-TE315

POSTULATED INTERACTION: Fixture falls, impacts tubing. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by Civil analysis. Light fixture is seismically qualified. See Civil  
 Calc. 06-59-04-01.

S. Gaballah 10/01/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 10/04/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/04/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHFET 1 OF 1

POSTULATED INTERACTION NO.: 06-59-06-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 95, at reactor shield wall, 170° to 190°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture, mounted to shield wall.

SOURCE CODE: E-LF-1B

TARGET:

Tubing, from sensor bellows, loop 3.

TARGET CODE: I-RVLIS

POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURF

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture. Secure hood to fixture socket. (Hood is taped to socket).

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 & 2.

ketz

R. J. Swaim 01/25/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-07-01FIRE ZONE 3-RR LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 89, 20 ft. west of col. L, at line 15.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fluorescent chain-supported light fixture.

SOURCE CODE: E-LF-3RRTARGET:

level switch LTS-1310.

TARGET CODE: I-I.IS1310POSTULATED INTERACTION:

Light fixture falls, impacts level switch.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 04/28/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
 Install backup support chain per DCN DCO-EE-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

ACB

R. J. Swaim 02/23/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/30/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-10-05

FIRE ZONE, 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 112, 2' east of Col. L, MID room, area GW.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Pipe support rod to line 1046; SG blowdown tank drain. SOURCE CODE: P-1046-6

TARGET: Conduit KK-200-1 1/2". TARGET CODE: E-KK200-1.50

POSTULATED INTERACTION: Longitudinal motion of line 1046 results in pipe support rod impacting conduit. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
relocate pipe support rod 3" east of present location.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Relocate hanger No 57S/48R 3" to 6" east of present loc. Relocated per DCN-DC1-SP-13128.

S. Cudiamat 05/17/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 07/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-16-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140', over reactor pit, near SG 1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Concrete shield block.

SOURCE CODE: C-SHIELDTARGET:

3/16" tubing, line 4681.

TARGET CODE: I-4681-0.187POSTULATED INTERACTION:

Block overtuns, impacts tubing.

PHENOMENA CODE: CIVILFAT1RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of shield by simplified analysis.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Concrete radiation shields have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 06-01-01-02.

S. Gaballah 09/27/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 09/23/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/25/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
9/27/82

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-16-02

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 114'-11/2  
 LOCATION WITHIN FIRE ZONE:  
 Elev. 120', inside reactor pit, on south wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Underwater light assembly.

SOURCE CODE: E-LF-1C

TARGET:  
 3/16" tubing, line 4681.

TARGET CODE: I-4681-0.187POSTULATED INTERACTION:PHENOMENA CODE: FIXTURE

Light assembly lower support is mounted below tubing. Attempted installation of the light assembly could damage the Uni-strut around tubing and hence damage the tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or relocate light assembly lower support, or abandon this location for underwater lighting.

M. Jones 05/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS transferred to Gen. Construction. Interaction postulates damage to tubing due to careless installation of a light assembly by Plant Operations which is not a valid concern of the system interaction program. (See DP-1-3846-E with response by C. Kahl/J. Meirdierks dated 06/17/83).

DISCIPLINE FMGTNFER/DATE

C. Kahl 06/17/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT FMGTNFER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-21-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 89, 20 ft. west of col. L, at line 15.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Fluorescent chain-supported light fixture.

SOURCE CODE: E-LF-388

TARGET:  
Level switch IIS-1311.

TARGET CODE: I-ITS1311

POSTULATED INTERACTION:  
light fixture falls, impacts level switch.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 04/28/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, detail 8 (category I).  
Install backup support chain per DCN DCO-EE-5552 Sht. 12 of 13, detail 75.  
Resolved by modification. See ART 348.

AMS

R. J. Swaim 02/23/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/30/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1.  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-26-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

## LOCATION WITHIN FIRE ZONE:

Elev. 112', in seal table room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: M-5-10PATH  
 5-path and 10-path drive assemblies over seal table.

TARGET: TARGET CODE: I-4683-0.0187  
 Line 4683-3/16"-tubing.

POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
 Drive assemblies fail, fall upon tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Target is not part of RCS pressure boundary. Target is closed capillary tubing which has no accident mitigating functions, but is only provided for verification. Also, item is not related to achieving or maintaining safe shutdown. Also, it is not related to fire suppression. No further action required.

T. P. Lee  
DISCIPLINE ENGINEER/DATE

E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*A.J.E.* 8/21/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SS

POSTULATED INTERACTION NO.: 06-59-26-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in Seal Table Room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grating at elev. 125'.

SOURCE CODE: NS-CD

TARGET:  
Line 4683-3/16", tubing.

TARGET CODE: T-4683-0.187

POSTULATED INTERACTION:  
Grating is stored loosely on overhead platform, could fall, impact tubing.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The grating was removed during the normal course of construction.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG [GC] HVAC I&C PSE NPO NAN

S. F. Traisman 11/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-27-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 5-path and 10-path drive assemblies over seal table. SOURCE CODE: M-5-10PATH

TARGET: Sensor bellows. TARGET CODE: I-RVLIS

POSTULATED INTERACTION: Drive assemblies fail, fall upon bellows. PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification provided per DCN #DCI-E-M-5332. See IDS 06-01-04-01 for modification package.

T. P. Lee 07/07/83  
DISCIPLINE ENGINEER/DATE

E. Connell III 07/07/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO . NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E. 8/21/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-27-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in Seal Table Room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grating at elev. 125'.

SOURCE CODE: C-GRATING

TARGET:  
Instrument sensor bellows for RVLIS.

TARGET CODE: I-RVLIS

POSTULATED INTERACTION: PHENOMENA CODE: LOOSE  
Grating is stored loosely on overhead platform, could fall, impact bellows.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The grating was removed during the normal course of construction.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-30-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 89, 20 ft. west of col. L, at line 15.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Fluorescent chain-supported light fixture.

SOURCE CODE: E-LF-3BB

TARGET:  
 level switch LIS-1312.

TARGET CODE: I-LIS1312

POSTULATED INTERACTION:  
 light fixture falls, impacts level switch.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of light fixture.

M. Jones 04/28/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
 Install backup support chain per DCN DCO-EE-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348

R. J. Swaim 07/23/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/30/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/12/83  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-34-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 73, in reactor cavity, under RCDT.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture.

SOURCE CODE: E-I.F-1BTARGET:

Capillary tubing to TE 1317.

TARGET CODE: I-TF1317POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 03/10/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.57, Rev. 1 &amp; 2.

ACB

R. J. Swaim 01/25/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/25/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-36-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:

Elev. 112', in seal table room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

5-path and 10-path drive assemblies over seal table.

SOURCE CODE: M-5-10PATHTARGET:

3/8" tubing form seal table to 3/4" manual valve.

TARGET CODE: I-RVLISPOSTULATED INTERACTION:

Drive assemblies fail, fall upon valve.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/10/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Modification provided per DCN #DCI-E-M-5332. See IDS 06-01-04-01 for modification package.

T. P. Lee 07/07/83DISCIPLINE ENGINEER/DATEE. Connell III 07/07/83ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 02/24/84

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84SIP PROJECT ENGINEER APPROVAL/DATE

D.J.E. 8/21/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-36-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112, in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platform grating at elev. 125. SOURCE CODE: C-GRATING

TARGET: 3/8" tubing from seal table to 3/4" manual valve. TARGET CODE: I-RVLIS

POSTULATED INTERACTION: Grating stored loosely on overhead platform, could fall, impact tubing. PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
No grating stored on upper platform.

This work was done in the course of construction. No design documentation necessary.

DISCIPLINE ENGINEER/DATE

K. H. Bych  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE [NPO] NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*DWS*  
*8/8/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-38-01FIRE ZONE 1-B. LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:

Elev. 112', in seal table room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: M-5-10PATH  
 5-path and 10-path drive assemblies over seal table.

TARGET: TARGET CODE: M-RVLIS  
 3/4" manual valve.

POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
 Drive assemblies fail,, fall upon valve.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/10/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Modification provided per DCN #DCI-E-M-5332. See IDS 06-01-04-01 for modification package.

T. P. Lee 07/07/83  
 DISCIPLINE ENGINEER/DATE

E. Connell III 07/07/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 02/24/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

*S.J.E. 8/28/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-38-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in Seal Table Room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grating at elev. 125'.

SOURCE CODE: C-GRATING

TARGET:  
3/4" manual valve off of seal table instruments (RVIJS).

TARGET CODE: M-RVIJS

POSTULATED INTERACTION:  
Grating is stored loosely on overhead platform, could fall, impact valve.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The grating was removed during the normal course of construction.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAM

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-39-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"LOCATION WITHIN FIRE ZONE:  
Elev. 112', in seal table room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: M-5-10PATH  
5-path and 10-path drive assemblies over seal table.TARGET: TARGET CODE: P-RVI.IS  
1" pipe from 3/4" manual valve to sensor bellows.POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
Drive assemblies fail, fall upon pipe.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification provided per DCN #DC1-EM-5332. See IDS 06-01-04-01 for modification package.T. P. Lee 07/07/83  
DISCIPLINE ENGINEER/DATEE. Connell III 07/07/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

T. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

J.J.E. 8/21/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-39-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in Seal Table Room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platform grating at elev. 125'. SOURCE CODE: C-GRATING

TARGET: 1" pipe from 3/4" manual valve sensor belows for RVLIS TARGET CODE: M-RVLIS

POSTULATED INTERACTION: Grating is stored loosely on overhead platform, could fall, impact valve. PHENOMENA CODE: I.OOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The grating was removed during the normal course of construction.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

S. E. Traisman 11/02/83  
FFFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-42-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1-1/2"

LOCATION WITHIN FIRE ZONE:  
 Elev. 116', at missile barrier, 178°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 1" service air line.

SOURCE CODE: P-SA-1B

TARGET:  
 Conduit KK-074.

TARGET CODE: E-KK074

POSTULATED INTERACTION:  
 Lateral deflection of 1" air line results in impact with conduit.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Add bilateral support to 1" air line near point of postulated contact.

M. Jones 03/24/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Recommended resolution OK. See hanger DWG 049339 Sht 127 & 127A, Rev. 1 & Calc. by HH dated 02/07/83.

C. R. VanNatta 04/14/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 04/14/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Baker 08/01/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/05/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

*sw*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-59-42-07FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Flev. 117, at containment wall 238°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform grating.

SOURCE CODE: C-GRATINGTARGET:

Conduit KK-068.

Note: KK-068 has been changed to KX425.

TARGET CODE: E-KK068POSTULATED INTERACTION:

Grating &amp; kickplate contact conduit.

PHENOMENA CODE: INTERFERE/DFFLFCTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide min. 2" clearance between grating/kickplate and conduit.

WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Penetration box BTX24E has been detached from containment wall per DCN DC1-EC-3604. This modification eliminates the possibility of impact between CND. and platform grating and/or floor beam due to differential motion between containment and annulus structure. No further action necessary. This resolution supercedes any previous resolution of this interaction.

R. J. Swaim 06/24/83  
 DISCIPLINE ENGINEER/DATE

S. Auer 08/23/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 11/02/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-04-03

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 104, at containment wall, 166°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixtures (2).

SOURCE CODE: E-LF-3BB

TARGET:  
line 4685-3/16"-tubing.

TARGET CODE: P-4685-0.187

POSTULATED INTERACTION:  
Fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures.

M. Jones 03/25/87  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
Install backup support chain per DCN DCO-EE-5552 Sht. 12 of 13, detail 75.  
Resolved by modification. See ART 348.

KEIS

R. J. Swaim 02/23/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/30/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-06-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 95, at reactor shield wall, 170° to 190°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture, mounted to shield wall.

SOURCE CODE: E-LF-18

TARGET:

Tubing, from sensor bellows, loop 4.

TARGET CODE: I-RVLIS

POSTULATED INTERACTION:

Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture. Secure hood to fixture socket. (Hood is taped to socket).

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 & 2.

ACTS

R. J. Swaim 01/26/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/26/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-10-04

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
EL 110' Nr. cols 15.7 and L

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1595-3", reboiler coil drips to ASDR.

SOURCE CODE: P-1595-3

TARGET:  
Conduit KK385-3"

TARGET CODE: E-KK385-3

POSTULATED INTERACTION:  
Pipe impacts conduit, existing clearance 1/2". Pipe free to swing laterally.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add bilateral support to line 1595 approx 3' west of contact point.

S. E. Traisman 07/14/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Recommended resolution - OK. See hanger DWG 049339 SHT 130 in DCN-DCI-EP-3606.

C. R. Van Natta 01/10/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-10-05FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 120' near containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Steel platform 74GW, elev. 127'.SOURCE CODE: C-74GWTARGET:  
Conduit KK385-3".TARGET CODE: E-KK385-3POSTULATED INTERACTION:  
Platform falls on conduit.PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis. Verify grating hold down clips are in place.

S. E. Traisman 07/14/82  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platform 74GW has been checked as a Class I structure due to attachment of Class I equipment. The platform has been qualified with modification for Calc. No. 52.15.18.8. For modification, see DCN DC1-EC-13109 RO.

S. Gaballah  
DISCIPLINE ENGINEER/DATEJ. K. McCall  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-10-11

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 102, near containment wall, 155°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 104 GE.

SOURCE CODE: C-104GE

TARGET:  
Conduits K3477-2", K3480-2" & KK201-2".

TARGET CODE: E-K3477+

POSTULATED INTERACTION:  
Platform falls, impacts conduit.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 19-04-06-01.

S. Gaballah 11/18/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-11-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140', over reactor pit, near SG1-4.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Concrete shield block.SOURCE CODE: C-SHTELDTARGET:  
3/16" tubing, line 4684.TARGET CODE: J-4684-0.187POSTULATED INTERACTION:  
Block overtuns, impacts tubing.PHENOMENA CODE: CIVILFAI.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of shield by simplified analysis.M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Concrete radiation shields have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 06-01-01-02.S. Gaballah 09/22/82  
DISCIPLINE ENGINEER/DATEB. Sarkar 09/23/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

L. W. Horn 10/25/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/82  
SIP PROJECT ENGINEER APPROVAL/DATESC  
10/25/82

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-11-02FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 109, at containment wall, 166°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixtures (?).

SOURCE CODE: E-I.F-3BRTARGET:

line 4684-3/16"-tubing.

TARGET CODE: P-4684-0.187POSTULATED INTERACTION:

Fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixtures.

M. Jones 03/25/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
 Install backup support chain per DCN DCO-FE-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

KEB

R. J. Swaim 02/23/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] FMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 03/25/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 09/09/83

SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

55

POSTULATED INTERACTION NO.: 06-60-11-03FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 114'-1 1/2"

LOCATION WITHIN FIRE ZONE:

Elev. 170', inside reactor pit, on south wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Underwater light assembly.

SOURCE CODE: E-LF-1CTARGET:

3/16" tubing, line 4684.

TARGET CODE: I-4684-0.187POSTULATED INTERACTION:PHENOMENA CODE: FIXTURE

Light assembly lower support is mounted below tubing. Attempted installation of the light assembly could damage the Uni-strut around tubing and hence damage the tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove or relocate light assembly lower support, or abandon this location for underwater lighting.

M. Jones 05/05/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS transferred to General Construction. Interaction postulates damage to tubing due to careless installation of a light assembly by plant operations which is not a valid concern of the SIP (See DP-1-3846-F with response by C. Kahl/J. Meierdierks, dated 06/17/83).

DISCIPLINE FNGTNER/DATE

C. Kahl 06/17/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE ENG [GC] HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-21-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: M-5-10PATH  
5-path and 10-path drive assemblies over seal table.

TARGET: TARGET CODE: I-4686-0.187  
line 4686-3/16", tubing.

POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
Drive assemblies fail, fall upon tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Target is closed instrument capillary tubing and not part of RCS press. boundary. Item has no accident mitigating functions, but is only verification instrumentation. Also, item is not related to achieving or maintaining safe shutdown; nor is it related to the fire suppression system. No further action required.

DISCIPLINE ENGINEER/DATE E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*AJS. 8/21/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-21-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:  
Elev. 112 in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Nitrogen storage bottle.

SOURCE CODE: M-BOTTLE

TARGET:  
Tubing, line 4686-3/16".

TARGET CODE: I-4686-0.187

POSTULATED INTERACTION:  
Bottle overturns, impacts tubing.

PHENOMENA CODE: LOOSE & MECHFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure tht bottle mountings (chain) are adequate to support bottle. Secure ends of chain to mounting bracket by bolting.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Target is closed instrument capillary tubing and not part of RCS pressure boundary. Item has no accident mitigating functions, but is only verification instrumentation. Item not related to initiating or maintaining safe shutdown, nor to the manual fire suppression system. No further action required.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

L.J.E. 8/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-21-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in Seal Table Room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grating at elev. 125'.

SOURCE CODE: C-GRATING

TARGET:  
Line 4686-3/16", tubing.

TARGET CODE: I-4686-0.187

POSTULATED INTERACTION: Grating is stored loosely on overhead platform, could fall, impact valve.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The grating was removed during the normal course of construction.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF FE FMS ENG [GC] HVAC I&C PSE NPO NAN

S. F. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-21-04FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 109, at containment wall, 166°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixtures (2).SOURCE CODE: E-LF-3BBTARGET:  
line 4686-3/16"-tubing.TARGET CODE: P-4686-0.187POSTULATED INTERACTION:  
Fixtures fall, impact tubing.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures.M. Jones 03/25/82  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*AGB*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I). Install backup support chain per DCN DCO-FF-5552 Sht. 12 of 13, detail 75. Resolved by modification. See ART 348.

R. J. Swaim 02/23/83  
DISCIPLINE EMGTNFR/DATEG. C. Bhatt 02/23/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 03/25/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT EMGTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-22-01

FIRE ZONE 1-8 LOCATION Containment FLOOR ELEVATION 112'-1 1/2"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in seal table room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 5-path and 10-path drive assemblies over seal table. SOURCE CODE: M-5-10PATH

TARGET: Sensor bellows. TARGET CODE: I-RVLIS

POSTULATED INTERACTION: Drive assemblies fail, fall upon bellows. PHENOMENA CODE: MECHFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of drive assembly mountings and the mounting of the individual drive assembly components by simplified analysis. Secure 10-path drive assembly trolley to the I-beam.

M. G. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification provided per DCN #DCI-E-M-5332. See IDS 06-01-04-01 for modification package.

T. P. Lee 07/07/83  
DISCIPLINE ENGINEER/DATE

E. Connell III 07/07/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO MAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*AJ E. 8/21/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-27-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112', in Seal Table Room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform grating at elev. 125'.

SOURCE CODE: C-GRATING

TARGET:  
Sensor bellows.

TARGET CODE: I-RVLIS

POSTULATED INTERACTION:  
Grating is stored loosely on overhead platform, could fall, impact valve.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove grating before start-up.

M. Jones 03/10/87  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The grating was removed during the normal course of construction.

DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-27-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 81'-6"

LOCATION WITHIN FIRE ZONE:  
 Elev. 88, near reactor cavity.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Reactor coolant drain tank.

SOURCE CODE: M-TANK

TARGET:  
 Capillary tubing to TE-1327.

TARGET CODE: I-TE1327

POSTULATED INTERACTION:  
 RCDT supports fail, resulting in overturning of tank and subsequent impact with tubing.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of RCDT supports by simplified analysis.

M. Jones 03/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Subject target is actually metal-encased electrical conductor for RTD TE-1327 (vs. capillary tube). See confirmatory telephone memo. Target function is associated with RVLIS and has no accident mitigating functions-only (visual) verification. Item is not related to initiating or maintaining safe shutdown; nor is it associated with fire suppression. No further action required.

DISCIPLINE ENGINEER/DATE

E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E* *8/28/84*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-28-03FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 81'-6"

LOCATION WITHIN FIRE ZONE:  
 Elev. 88, near reactor cavity.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Reactor coolant drain tank.

SOURCE CODE: M-TANK

TARGET:  
 Capillary tubing to TE-1328.

TARGET CODE: I-TE1328

POSTULATED INTERACTION:  
 RCDT supports fail, resulting in overturning of tank and subsequent impact with tubing.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of RCDT supports by simplified analysis.

M. Jones 03/10/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Subject target is actually metal-encased electrical conductor for RTD TE-1328 (vs. capillary tube). See confirmatory telephone memo. Target function is associated with RVLIS and has no accident mitigating functions-only (visual) verification. Item is not related to initiating or maintaining safe shutdown; nor is it associated with fire suppression. No further action required. See IDS 06-60-27-01 for confirmatory phone memo

DISCIPLINE ENGINEER/DATEE. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

*L.J.E. 8/28/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-32-02

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 81'-6"

LOCATION WITHIN FIRE ZONE:

Elev. 97, in reactor cavity sump pump room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Head tank to reactor cavity sump pumps.

SOURCE CODE: M-TANK

TARGET:

Conduit KK-079

TARGET CODE: E-KK079-0.75

POSTULATED INTERACTION:

Tank supports fail, tank slides into conduit.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of tank supports by simplified analysis.

M. Jones 03/24/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Per Electrical raceway list-unit 1, dated 12/18/81 page 12, conduit KK-079 is carrying cable to TE-1329 (RTD). Target function is associated with RVLIS and has no accident mitigating functions—only (visual) verification. Item is not related to initiating or maintaining safe shutdown; nor is it associated with fire suppression. No further action required. In addition, a modification to the source tank support is made per DCN DCI-EP-5061 as a result of IDS 29-22-05-02. However, no modification to tank support is necessary for this IDS or any others existing. See IDS file 29-22-05-02 for modification package.

DISCIPLINE ENGINEER/DATE

E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/13/84  
SIP PROJECT ENGINEER APPROVAL/DATE

A.J.E. 8/28/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-32-04FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7'

## LOCATION WITHIN FIRE ZONE:

Elev. 110, at missile barrier 193°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" lube oil drain line from RCP drip pans.

SOURCE CODE: P-4397-2TARGET:

Conduit KK-082.

TARGET CODE: E-KK082-0.75POSTULATED INTERACTION:

Lateral movement of 2" drain line, due to failure of fixed-end rod hanger &amp; victaulic couplings, results in impact with conduit.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace fixed-end rod hanger at 193° with bilateral support.

M. Jones 03/24/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution OK. See hanger DWG. 049339 Sht. 126 in DCN DC1-EP-3606.

C. R. VanNatta 01/10/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 01/25/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Baker 08/01/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/05/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-32-05

FIRE ZONE 1-R LOCATION Containment FLOOR ELEVATION 104'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 107, near RCP 1-4, under elev. 110 access ladder.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Conduit KK-083.

TARGET CODE: E-KK083-0.75

POSTULATED INTERACTION:  
Condulet cover is missing.

PHENOMENA CODE: HOUSFKFEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing condulet cover.

M. Jones 03/24/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN [QC]

FJFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 07/03/84  
SIP PROJECT ENGINEER APPROVAL./DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 06-60-32-07

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 99, 6 ft. from shield wall, 190°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3819 - 3/4" - stem leakoff line - loop 4 RTD valve. SOURCE CODE: P-3819-0.75

TARGET: Conduit TARGET CODE: E-KK082-0.75  
KK-052.

POSTULATED INTERACTION: Pipe falls due to failure of threaded union, impacts conduit. PHENOMENA CODE: PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Install bilateral support to line 3519 on vertical run at 190° to preclude failure of threaded union.

M. Jones 03/24/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Field inspection of target conduit K-082 (to XTE 1325). Reveals conduit was rerouted away from line 3819 - 3/4". Therefore, no action necessary.

C. R. VanNatta 06/02/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 06/02/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 06/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/04/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*ew*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-04-03-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117', Col. 16 PM45, DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating.

SOURCE CODE: C-GRATING

TARGET:  
KX197 conduit.

TARGET CODE: E-KX197-1.25

POSTULATED INTERACTION: Grating touches conduit. Could impact with damage if movement occurs.  
PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide separation between grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Minimum 2" clearance around the conduit has been provided per ART #025.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CF] EE FMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*5/2/82*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-06-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
Elev., 91, along missile wall, 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" scupper drain (line 4397).SOURCE CODE: P-4397-2TARGET:  
Instrument panel 20 tubing.TARGET CODE: I-PM20POSTULATED INTERACTION:  
Drain line 4397 runs 2' above tubing. Drain line falls, impacts tubing.PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Perform additional analysis for line 4397 to ensure integrity of supports.M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hanger modified. See IDS file No. 07-12-02-01.DISCIPLINE ENGINEER/DATEJ. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-06-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Along outside of pressurizer wall, near reactor pit.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Portable reactor pit access stairway.SOURCE CODE: C-STAIR-1CTARGET:  
Tubing to LT-457.TARGET CODE: I-LT457POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
Lateral movement of stairway structure results in impact with tubing.

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure by simplified analysis that sufficient clearance exists between tubing and stairway structure.

M. Jones 05/12/82  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source component was seismically qualified by analysis. See Calc. No. 07-06-01-02 and resolution sheet.

S. Gaballah 10/11/82  
DISCIPLINE ENGINEER/DATEB. Sarkar 10/12/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

L. W. Horn 12/10/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 12/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-06-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91, along missile wall, 60°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" scupper drain (line 4397).

SOURCE CODE: P-4397-2

TARGET:  
Instrument panel 20.

TARGET CODE: I-PM20

POSTULATED INTERACTION:  
Drain line 4397 runs 2' above panel. Drain line falls, impacts panel.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Perform additional analysis for line 4397 to ensure integrity of supports.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hanger modified. See IDS file No. 07-12-02-01.

P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-06-02-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 91', at missile barrier, 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Iodine removal unit E-16.

SOURCE CODE: H-E16TARGET:

Instrument panel 20.

TARGET CODE: I-PM20POSTULATED INTERACTION:

Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into panel.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install hold-down clamps to unit mounting skid to preclude movement of unit.

M. Jones 08/12/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bolts qualified by analysis. See IDS No. 03-35-02-02.

DISCIPLINE ENGINEER/DATED. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-07-03-03

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 117', above accum. 1-2 at PM57, DWG 57685.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Floor grating.

SOURCE CODE: C-GRATING

TARGET:

KX195 conduit.

TARGET CODE: E-KX195-1

POSTULATED INTERACTION:

Grating contacts conduit. Could damage conduit.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide clearance between grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART No. 026.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

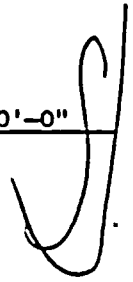
5/6/15/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-08-01-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Approximate Elev. 167-top of pressurizer.



IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Construction deficiency (tubing unsupported from last unistrut at wall). SOURCE CODE: NS-CN

TARGET: Instrument process tubing to 1T-459. TARGET CODE: T-1T459

POSTULATED INTERACTION: Tubing could come loose. PHENOMENA CODE: HOUSFKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide additional bracing or support.

T. Dev 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis. From last support to wall the span length is 38". Per PG&E drawing (Instrument tubing supports) #049238 Rev 9, Sh.3 max. span length is 41". No corrective action is required.

S. Skochko 05/18/83  
DISCIPLINE ENGINEER/DATE

J. P. Meierdierks 05/19/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS [ENG] GC HVAC I&C PSE NPO NAW

FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 06/21/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-08-01-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Approximately elev. 140'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating.

SOURCE CODE: C-PLAT-1A

TARGET:  
LT459 tubing.

TARGET CODE: I-LT459

POSTULATED INTERACTION:

PHENOMENA CODE: INTERFERE & DEFLECT

LT 459 tubing comes through wall and goes through platform grating. No opening provided in grating. Grating moves and impacts tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide protective barrier thru grating.

T. deVriarte 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Grating was cut and banded around the tubing to provide adequate clearance per ART No. 027.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/18/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

5/2/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-08-01-03FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Approximate elev. 165' - top of pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: P-0021-8  
 Spring hanger can 48-4V on line 21-8" (8010A Disch. to PRT).

TARGET: TARGET CODE: I-LT459  
 LT 459 - tubing.

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
 Lateral movement of spring can impacts tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Lower spring can to clear tubing (approx. 2").

S. Harris 02/18/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Recommended resolution OK. See hanger DWG 049256, Sht. 8, Rev. 3, in  
 DCN DC1-EP-5060.

C. R. VanNatta 02/25/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 02/25/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Baker 08/01/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-08-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91', at missile barrier, 60°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Iodine removal unit E-16.

SOURCE CODE: H-E16

TARGET:  
Instrument panel 22.

TARGET CODE: I-PM22

POSTULATED INTERACTION:  
Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into panel.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install hold-down clamps to unit mounting skid to preclude movement of unit.

M. Jones 08/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Bolts qualified by analysis. See IDS No. 03-35-02-02.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

D. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-08-02-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Drain line 4397-2.

SOURCE CODE: P-4397-2

TARGET:  
Instrument panel 22.

TARGET CODE: I-PM22

POSTULATED INTERACTION:  
Line 4397 could fall on panel.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Analyze supports for drain line #4397.

T. de Uriarte 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis. See RLCA Report No. 61.

DISCIPLINE ENGINEER/DATE

J. A. Ante 12/30/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 91, along missile wall, 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" scupper drain (line 4397).

SOURCE CODE: P-4397-2TARGET:

Instrument panel 89 tubing.

TARGET CODE: I-PM89POSTULATED INTERACTION:

Drain line 4397 runs 2' above tubing.  
 Drain line falls, impacts tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional analysis for line 4397 to ensure integrity of supports.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger modified. See IDS file No. 07-12-02-01.

P. H. Anderson 01/14/81

DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO WAN

S. Harris 02/19/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 11/02/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-01-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Approx. elev. 140.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Grating.

SOURCE CODE: C-PIAT-1A

TARGET:  
 Tubing for LT 460.

TARGET CODE: I-LT460

POSTULATED INTERACTION:  
 Grating moves and impacts tubing.

PHENOMENA CODE: INTERFRF & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Provide protection around tubing where it goes thru grating.

S. Harris  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Grating was cut and clearance provided per ART 029.

S. Hanusiak 01/16/81  
 DISCIPLINE ENGINEER/DATE

F. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/18/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

*S.S.  
 2/23/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-01-03

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 162 @ top of pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating is loose.

SOURCE CODE: C-PLAT-1C

TARGET:  
LT460 top of root valve close to grating.

TARGET CODE: I-LT460

POSTULATED INTERACTION:  
Grating impacts top of valve.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide barrier to protect valve.

T. deVriarte 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Grating was cut and banded around the valve to provide adequate clearance. See ART No. 276.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 04/28/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.*  
*8/15/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SS

POSTULATED INTERACTION NO.: 07-09-01-04

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 140'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Fire extinguisher FE-C140.02-1.

SOURCE CODE: M-FF

TARGET:  
Process lines to LT-460 and PT-456.

TARGET CODE: T-LT460+

POSTULATED INTERACTION: PHENOMENA CODE: 100SF  
Fire extinguisher falls and impacts process lines to LT-460 and/or PT-456.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure extinguisher.

T. de Uriarte 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE.  
The target instrument tubes are associated with LT-460 and PT-456. All CO<sub>2</sub> fire extinguishers will be removed from containment during operation and the targets are not necessary to maintain a safe shutdown condition during initial fuel load or subsequent refueling operations. No modification is necessary.

S. Skochko 08/15/83  
DISCIPLINE ENGINEER/DATE

J. Meierdierks 08/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC [I&C] PSE NPO NAN

FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/28/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-01-05FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 159, near top of pressurizer, along shield wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Conduit KX581-1".

SOURCE CODE: E-R-1CTARGET:

Tubing - 3/8", to LT 460.

TARGET CODE: I-LT460POSTULATED INTERACTION:

Conduit has been routed against tubing. Motion of conduit damages tubing.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute tubing away from conduit to provide adequate clearance.

M. Jones 04/28/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Modification per ART 284.

E. M. Valeriano 06/04/82  
DISCIPLINE ENGINEER/DATE

F. Mori 06/29/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

M. R. Baker for S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 02/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91, along missile wall 60°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" scupper drain (line 4397).

SOURCE CODE: P-4397-2

TARGET:  
Instrument panel 89 tubing.

TARGET CODE: I-PM89

POSTULATED INTERACTION:  
Drain pipe falls, impacts panel.  
Drain pipe runs 2' above panel.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Perform additional analysis for 2" drain line to ensure integrity of supports.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hanger modified. See IDS file No. 07-12-02-01.

DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-02-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91', at missile barrier, 60°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Iodine removal unit E-16.

SOURCE CODE: H-E16

TARGET:  
Instrument panel 89.

TARGET CODE: I-PM89

POSTULATED INTERACTION:  
Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into panel.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install hold-down clamps to unit mounting skid to preclude movement of unit.

M. Jones 08/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Bolts qualified by analysis. See IDS No. 03-35-02-02.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

D. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-09-03-03FIRE ZONE J-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 112', col. 13 near platform at valve 8703, DWG 57685.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform structure.

SOURCE CODE: C-PLAT-1ATARGET:

KX246 conduit.

TARGET CODE: F-KX246-2.50POSTULATED INTERACTION:

Platform structure within 1/8" of conduit. Platform and/or grating could pinch conduit.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide clearance between platform and conduit.

J. F. Grant 09/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

It was concluded the part of structure in question is a light flexible angle hanger. Very little relative movement between conduit and hanger are expected (they are attached to same structure) and the flexible hanger is not capable of damaging rigid pipe conduit. Also see resolution sheet.

S. Hanusiak 01/22/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [GE] FE EMS ENG GC HVAC I&C PSE NPO NAN

FFI.D VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/20/82  
SIP PROJECT ENGINEER APPROVAL/DATE

5/2/82



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-10-01-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 162 (approx.) at top of pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Catwalk grating. (No barrier around vent).

SOURCE CODE: C-PLAT-1CTARGET:

Vent above root valve LT-461 (very close to catwalk grating).

TARGET CODE: I-LT461POSTULATED INTERACTION:

Catwalk grating moves more than 1/4" toward vent - impacts vent.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Consider barrier to protect vent.

T. deVriarte 05/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Grating was cut and banded around the vent to provide adequate clearance.  
 See ART 279.

S. Hanusiak 01/16/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

M. Jones 04/28/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-10-01-02FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 148, along outside of pressurizer wall, near reactor pit.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Portable reactor pit access stairway.

SOURCE CODE: C-STATR-1C

TARGET:  
 Tubing to 1T-461.

TARGET CODE: I-LT461POSTULATED INTERACTION:

lateral movement of stairway structure results in impact with tubing.

PHENOMENA CODE: DEFLCTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure by simplified analysis that sufficient clearance exists between tubing &amp; stairway structure.

M. Jones 05/12/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source component was seismically qualified by analysis. See resolution sheet and referenced Calc. No. 07-06-01-02.

S. Gaballah 10/11/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 10/12/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 02/08/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5/2/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-11-01-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 148', along outside of pressurizer wall, near reactor pit.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Portable reactor pit access stairway. SOURCE CODE: C-STAIR-1C

TARGET: Tubing to LT-462. TARGET CODE: I-LT462

POSTULATED INTERACTION: Lateral movement of stairway structure results in impact with tubing. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure by simplified analysis that sufficient clearance exists between tubing & stairway structure.

M. Jones 05/12/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Source component was seismically qualified by analysis. See resolution sheet and referenced Calc. No. 07-06-01-02.

S. Gaballah 10/11/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 10/12/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 12/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*SG*  
*8/15/88*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-12-01-01

FIRE ZONE J-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91, along missile wall 60°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" scupper drain (line 4397).

SOURCE CODE: P-4397-2

TARGET:  
Instrument panel 95 tubing.

TARGET CODE: I-PM95

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
Drain line 4397 runs 2' above tubing. Drain line falls, impacts tubing.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Perform additional analysis for line 4397. to ensure integrity of supports.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hanger modified. See IDS file No. 07-12-02-01.

DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-12-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 91, along missile wall 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 2" scupper drain (line 4397).

SOURCE CODE: P-4397-2

TARGET:  
 Instrument panel 95.

TARGET CODE: I-PM95

POSTULATED INTERACTION:  
 Drain line 4397 runs 2' above panel. Drain line falls, impacts panel.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Perform additional analysis for line 4397 to ensure integrity of supports.

M. Jones 04/15/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Hanger modified per RLCA report No. 6, Rev. A.. and ART No. 10.

P. H. Anderson 01/14/81  
 DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. Harris 02/19/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-12-02-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 91', at missile barrier, 60°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Iodine removal unit E-16.

SOURCE CODE: H-E16TARGET:

Instrument panel 95.

TARGET CODE: I-PM95POSTULATED INTERACTION:

Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into panel.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install hold-down clamps to unit mounting skid to preclude movement of unit.

M. Jones 08/12/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bolts qualified by analysis. See IDS No. 03-35-02-02.

DISCIPLINE ENGINEER/DATED. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-12-03-01

FIRE ZONE 5A-1 LOCATION ELECTRICAL FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100 (H,16), 480 switchgear room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Handrails and scaffolding

SOURCE CODE: C-HANDRAIL

TARGET:  
TSAB (cable tray)

TARGET CODE: E-TSAB

POSTULATED INTERACTION:  
Handrails and scaffolding could impact TSAB

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure handrails and scaffolding prior to operations.

P. Anderson 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Handrails to be secured and scaffolding removed per ART No. 189

S. HANUSIAK 07/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/8/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-13-02-04FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 139 Az 62°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Steam sample line Pressurizer steam space sample line. SOURCE CODE: NS-CDTARGET: Conduit KX499 TARGET CODE: E-KX499-0.75POSTULATED INTERACTION: Steam sample line could melt wire inside conduit if not properly insulated. PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Insure steam sample line is insulated properly.A. G. Barta 02/18/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Conduit KX4999 rerouted such that it does not penetrate the insulation.  
Transferred to IDI E-1-748 system for resolution.C. R. VanNatta 08/18/83  
DISCIPLINE ENGINEER/DATEK. L. Krause 08/18/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/28/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-14-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 130'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 130 Az. 270.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Incore instr. drive motors A-F.

SOURCE CODE: E-INCORF DR

TARGET:  
Conduit KX498.

TARGET CODE: E-KX498-0.75

POSTULATED INTERACTION:  
Incore drive units could tip over and impact conduit KX498.

PHENOMENA CODE: MECHFALL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity by analysis of incore drive units.

P. H. Anderson 05/28/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Incore drive units are structurally acceptable per calculation file No. 57.24  
Calc. No. 07-14-02-01. ART 382. #D1-11662-J-RO issued to add four (4) short  
fillet welds per unit to preclude possible bending of drive motor assembly to  
support foundation connection bolts.

S. Skochko 05/27/83  
DISCIPLINE ENGINEER/DATE

J. P. Meirdierks 05/27/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF FE FMS ENG GC HVAC I&C PSE NPO NAW

P.J.Z. for S. E. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-15-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, near containment wall, 92°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Pipe support beam clamp to line 1135.

SOURCE CODE: P-1135-3

TARGET:  
Tubing to PT-458A.

TARGET CODE: I-PT458A

POSTULATED INTERACTION:  
Tubing runs between beam & clamp. Clamp failure could compromise tubing.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace beam clamp support with welded type rod connection.

M. Jones 08/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe support added per ART No. 10 & RICA Resolution Report No. 6, Rev. A.

P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATE

J. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO MAN

M. Jones 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-16-01-01

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Approx. Elev. 168 top of pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Conduits

SOURCE CODE: F-R-1C

TARGET:  
Acoustic monitor POT 116

TARGET CODE: I-POT116

POSTULATED INTERACTION:

PHENOMENA CODE: DEFLECT

Pipe mounted POT is damaged by impact with rigid conduit. Impact motion results from seismic and/or thermal motion of pressurizer and associated piping.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide flexible conduit connection to POT 116.

S. Harms 02/18/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by modification. Remove flexible conduit so that the cable will be exposed. Cable is environmentally qualified. See ART 400 for modification.

ACTS

J. Swaim 06/14/83  
DISCIPLINE ENGTNEER/DATE

G. C. Bhatt 06/14/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&C PSE NRO NAN

M Baker 08/01/83  
FIFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 07-16-01-02

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 165, top of pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Environmental effects.

SOURCE CODE: NS-CD

TARGET:  
Acoustic Monitor POT116.

TARGET CODE: E-POT116

POSTULATED INTERACTION:  
Signal cable from rigid conduit to POT116 is exposed. Environmental effects in containment could damage cable.

PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Encase cable to POT116 in flexible conduit.

M. Jones 05/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Cable has been qualified per qualification test report 517-TR-03 (file No. 137.014 IH-21) remove flex. conduit per ART #400, which was added per ART #297.

R. J. Swaim 06/14/83  
DISCIPLINE ENGINEER/DATE

S. Auer 06/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/28/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-16-02-02FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 115, above fuel canal, area G.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 2385-4".

SOURCE CODE: NS-TTARGET:

KX532 conduit

TARGET CODE: E-KX532-1.50POSTULATED INTERACTION:

Line 2385 may contain hot fluid, generating temperatures in excess of those allowable for wires in the adjacent conduit.

PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure line does not contain excessively hot fluid or insulate in vicinity of KX532.

G. Whorisky 06/03/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by analysis described in RLCA Resolution Report #40.

S. Motiwalla 08/26/81

DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 11/02/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-16-03-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Approx. Elev. 168 top of pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
ConduitsSOURCE CODE: F-R-1CTARGET:  
Acoustic monitor POT 117.TARGET CODE: I-POT117

## POSTULATED INTERACTION:

PHENOMENA CODE: DEFLECT

Pipe mounted pot is damaged by impact with rigid conduit. Impact motion results from seismic and/or thermal motion of pressurizer and associated piping.

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide flexible conduit connection to POT 117.

S. Harms 07/18/87  
 WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by modification. Remove flexible conduit so that the cable will be exposed. Cable is environmentally qualified. See ART 400 for modification.

J. Swaim 06/14/83  
 DISCIPLINE ENGINFEER/DATE

G. C. Bhatt 06/14/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

M Baker 08/01/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 10/20/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

13

POSTULATED INTERACTION NO.: 07-16-03-02

FIRE ZONE 1C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 165, top of pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Environmental effects.

SOURCE CODE: NS-CD

TARGET:  
Acoustic monitor POT 117.

TARGET CODE: E-POT117

POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON  
Signal cable from rigid conduit POT117 is exposed. Environmental effects in containment could damage cable.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Encase cable to POT117 in flexible conduit.

M. Jones 05/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Refer to I.D.S. 07-16-01-02 for final resolution.

J. Swaim 06/14/83  
DISCIPLINE ENGINEER/DATE

S. Auer 06/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/28/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-16-05-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Approx. Elev. 168 top of pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Conduits

SOURCE CODE: E-R-1C

TARGET:  
 Acoustic monitor POT 118.

TARGET CODE: I-POT118

POSTULATED INTERACTION:  
 Pipe mounted pot is damaged by impact with rigid conduit. Impact motion results from seismic and/or thermal motion of pressurizer and associated piping.

PHENOMENA CODE: DFFLFCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Provide flexible conduit connection to POT 118.

S. Harms 02/18/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by modification. Remove flexible conduit so that the cable will be exposed. Cable is environmentally qualified. See ART 400 for modification.

BCTB

J. Swaim 06/14/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 06/14/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

M Baker 03/18/83  
FIFID VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/21/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-16-05-02

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 165, top of pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Environmental effects.

SOURCE CODE: NS-CD

TARGET:  
Acoustic monitor POT118

TARGET CODE: E-POT118

POSTULATED INTERACTION:  
Signal cable from rigid conduit to POT118 is exposed. Environmental effects in containment could damage cable.

PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Encase cable to POT 118 in flexible conduit.

M. Jones 05/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Refer to I.D.S. 07-16-01-02 for final resolution.

R. J. Swain 06/14/83  
DISCIPLINE ENGINEER/DATE

S. Auer 06/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/28/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 07-25-06-01

FIRE ZONE 7-A LOCATION Electrical Rooms FLOOR ELEVATION 128'

LOCATION WITHIN FIRE ZONE:  
Elev. 128', south of Rack #24

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Fire Protection Piping (1-1/2" red)

SOURCE CODE: P-US8-7A

TARGET:  
KT072, K5794 (Conduit)

TARGET CODE: E-KT072+

POSTULATED INTERACTION:  
Fire protection piping could fail due to threaded joints and excessive span.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of piping either by analysis or by providing support modification.

Paul Anderson 06/04/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
SEE IDS No. 17-25-06-01

C. R. Van Natta 09/21/83  
DISCIPLINE ENGINEER/DATE

J. Longworth 01/12/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 9/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/21/83  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 08-01-03-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 118', near PZR and crane wall, azimuth 20°±.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform 128F.

SOURCE CODE: C-PLAT-1B

TARGET:

Valve PCV-455A.

TARGET CODE: I-PCV455A

POSTULATED INTERACTION:

Platform fails and falls onto valve.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify integrity of platform by simplified analysis.

S. E. Traisman 09/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis. See Calc. No. 08-01-03-01.

S. Gaballah 10/22/87  
DISCIPLINE ENGINEER/DATE

B. Sarkar 10/27/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 12/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
3/15/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 08-01-07-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Elev. 112, near pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead air duct (welded to bracket imbedded in concrete). SOURCE CODE: H-DUCT-1B

TARGET: Line 14 - Pressurizer Spray Loop 2. TARGET CODE: P-0014-4

POSTULATED INTERACTION: Air duct cantilevered 12' from missile wall, held by 2 rod supports 7' from wall. Duct falls on line 14. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of duct. Simplified analysis should be adequate.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Calc. HV-48 and EDS Calc. No. 2 show duct will not fall. No field modifications are required.

DISCIPLINE ENGINEER/DATE D. H. Hagstrom 02/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 02/03/83  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

*AVS*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-02-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117'-0".

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Grating elev. 117'. SOURCE CODE: C-GRATING

TARGET: Conduit K1961 where it goes up through grating of shield wall. TARGET CODE: E-K1961-2

POSTULATED INTERACTION: Grating too close to conduit. PHENOMENA CODE: INTERFERE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut away grating to assure sufficient clearance.

B. Smith 02/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Required clearance to be provided per ART No. 127.

S. Hanusiak 03/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/02/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/11/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 09-02-02-02

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 140, inside steam generator 1-2 first platform up.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: PZR steam space sample line (insulated) 3" od with insulation. SOURCE CODE: NS-T

TARGET: K1768 1 1/4" conduit TARGET CODE: E-K1768-1.25

POSTULATED INTERACTION: Postulated heat damage to K1768 by the PZR steam space sample line 3/4" away. PHENOMENA CODE: ENVIRON

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of the conduit by analysis.

Edward Dennison 07/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis described in RLCA Report #40.

S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-03-04-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Azimuth 40°, elev. 117', against missile wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Grating at elev. 117'.

SOURCE CODE: C-GRATINGTARGET:

KX461 conduit.

TARGET CODE: E-KX461-1POSTULATED INTERACTION:

There exists jagged edge of grating where conduit passes through. There is no clearance. Conduit is well supported.

PHENOMENA CODE: INTERFERERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Cut and band grating to provide protection to conduit. Remove sharp edge of conduit.

P. H. Anderson 06/02/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Clearance will be provided per ART No. 179.

S. Hanusiak 07/17/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/23/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-04-02-03FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 117', azimuth 28°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating.SOURCE CODE: C-GRATINGTARGET:  
K1728 conduit.TARGET CODE: F-K1728-1.50POSTULATED INTERACTION:

Movement of grating could cause impact with conduit where conduit drops through.  
 There exists insufficient clearance.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Modify grating to ensure minimum 2" clearance between grating and conduit.

A. G. Barta 02/18/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Required clearance to be provided per ART No. 176.

S. Hanusiak  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/02/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

5-6  
 9/27/84



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-06-06-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 114', near containment wall, azimuth 118°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CDTARGET:

Conduit KX457.

TARGET CODE: E-KX457-1POSTULATED INTERACTION:

Conduit KX457 is missing its cover plate.

PHENOMENA CODE: HOUSEKFFPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install coverplate over conduit.

P. Anderson 06/02/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Coverplate installed over conduit per ART 154.

DISCIPLINE ENGINEER/DATE

A. G. Barta 09/25/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&amp;C PSE NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-07-02-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115 48°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: KX652 conduit. SOURCE CODE: E-KX652

TARGET: K1790 conduit. TARGET CODE: E-K1790-1.25

POSTULATED INTERACTION: Conduit KX652 is touching (lying across) conduit K1790 possible inter-  
action. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Check seismic qualification of KX652.

A. G. Barta 02/18/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Conduit KX652 is class 1 supported. Therefore no action is necessary.  
Resolved by analysis.

*KET*

A. G. Barta 02/18/81  
DISCIPLINE ENGINEER/DATE

S. Auer 07/10/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 12/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-07-02-03

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117', 46".

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Grating.

SOURCE CODE: C-GRATING

TARGET:  
K1790 conduit.

TARGET CODE: E-K1790-1.25

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE & DEFLECT  
Movement of grating could cause impact with conduit where conduit drops through.  
There exists insufficient clearance.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Modify grating to ensure minimum 2" clearance between grating and conduit.

A. G. Barta 02/18/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Required clearance to be provided per ART No. 129.

S. Hanusiak 03/19/81  
DISCIPLINE ENGINEER/DATE

F. P. Wollak 04/02/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIFLD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

*S.H.*  
*2/17/82*

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-07-02-04

FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:

Flev. 140', inside the steam generator 1-2, top platform.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CD

TARGET:

Conduit K1752-1.25.

TARGET CODE: F-K1752-1.25

POSTULATED INTERACTION:

Loose connection to MPF40.

PHENOMENA CODE: HOUSEKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Tighten the connection.

F. Denison 07/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Tighten loose connection per ART 210.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/22/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 06/06/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-07-02-05FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140, inside steam generator 1-2, second platform up.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Valve leak off HDR to PRT L89.

SOURCE CODE: NS-CNTARGET:

K1752-1.25.

TARGET CODE: E-K1752-1.25POSTULATED INTERACTION:

Postulated heat damage to K1752 by the HDR 1 1/2" away.

PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure the integrity of K1752 by analysis.

Edward Dennison 07/08/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved per analysis in RLCA Report #41.

S. Motiwalla 08/26/81  
 DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 11/11/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-09-04-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 100, near containment wall, 135°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Light fixture. SOURCE CODE: E-LF-1A

TARGET: Air supply tubing to valve 8034A. TARGET CODE: I-8034A

POSTULATED INTERACTION: Fixture falls, impacts tubing. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 11/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 & 2.

keo

R. J. Swaim 01/26/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/26/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-11-02-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, near containment wall, 139°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 11 GE.

SOURCE CODE: C-11GE

TARGET:  
Valve 8045.

TARGET CODE: I-8045

POSTULATED INTERACTION:  
Platform falls, impacts valve.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

Sy  
7/20/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-12-04-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 105, at containment wall, 139°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform/ladder 11 GE.

SOURCE CODE: C-11GE

TARGET:  
Air supply tubing to valve 8045.

TARGET CODE: I-8045

POSTULATED INTERACTION:  
Platform/ladder fall, impact tubing.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform/ladder by simplified analysis.

M. Jones 11/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01 and No. 25-14-01-02.

S. Hanusiak 03/30/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/31/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SC  
7/21/84



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-13-02-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, near containment wall, 139°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform 11 GE.

SOURCE CODE: C-11GETARGET:

Valve 8029.

TARGET CODE: I-8029POSTULATED INTERACTION:

Platform falls, impacts valve.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 07/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01.

S. Hanusiak 02/19/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/31/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

L. W. Horn 08/23/83

SIP PROJECT ENGINEER APPROVAL/DATE

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-14-04-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 105, at containment wall, 139°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform/ladder 11 GE.

SOURCE CODE: C-11GETARGET:

Air supply tubing to valve 8029.

TARGET CODE: I-8029POSTULATED INTERACTION:

Platform/ladder fall, impact tubing.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform/ladder by simplified analysis.

M. Jones 11/12/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01. Also see IDS file No. 09-12-04-01.

S. Hanusiak 03/06/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/09/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 7/28/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-14-05-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 105, at containment wall, 139°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform/ladder 11 GE.

SOURCE CODE: C-11GETARGET:

Mechanical panel 123.

TARGET CODE: I-PM123POSTULATED INTERACTION:

Platform/ladder fall, impact mechanical panel.

PHENOMENA CODE: CIVIL.FAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform/ladder by simplified analysis.

M. Jones 11/12/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sources have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01. Also see IDS file No. 09-12-04-01.

S. Hanusiak 03/06/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/09/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

SC  
7/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-01-01

FIRE\_ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, near containment wall, 170°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 105 GE.

SOURCE CODE: C-105GE

TARGET:  
Line 2999-4" - ECCS relief header.

TARGET CODE: P-2999-4

POSTULATED INTERACTION:  
Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and referenced  
Calc. No. 09-15-01-01.

S. Hanusiak 08/14/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/15/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SA*  
*7/28/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-01-05FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 107, at containment wall, 155°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform 103 GE.

SOURCE CODE: C-103GETARGET:

Snubber 15-35SL to line 2999-4"; ECCS relief header.

TARGET CODE: PA-2999-4POSTULATED INTERACTION:

Scubber is connected to Class II platform 103GE.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that platform has been seismically qualified.

M. Jones 11/18/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Platform qualified by analysis. See resolution sheet and referenced  
Calc. No. 09-01-04-01.S. Hanusiak 03/06/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/09/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.C.  
7/29/74

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 104', at containment wall, 146°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 1043-4"; steam generator 1-4 blowdown. SOURCE CODE: P-1043-2.50

TARGET: Vent connection to line 2998-4". TARGET CODE: PA-2998-4

POSTULATED INTERACTION: Lateral deflection of line 1043 results in impact with vent connection to line 2998. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add vertical members to existing pipe supports, each side of point of contact, to reduce lateral deflection of line 1043.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Vent connection rerouted to provide adequate clearance per ART 004.

R. W. Eschenburg 10/24/80  
DISCIPLINE ENGINEER/DATE

S. Chitnis 07/24/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Jones 07/23/87  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/87  
SIP PROJECT ENGINEER APPROVAL/DATE

*CW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-02-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 104, at containment wall, 146°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 1043-2 1/2; steam generator 1-4 blowdown. SOURCE CODE: P-1043-2.50TARGET: Test connection to line 2998-4". TARGET CODE: P2998-4POSTULATED INTERACTION: lateral deflection of line 1043 results in impact with handwheel of test connection manual valve. Cold clearance is 1 3/4", horizontal away from containment wall. PHENOMENA CODE: DEFLECT

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that hot condition seismic displacement is less than that required for contact.

M. Jones 02/23/82  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Analyzed and verified by H. Hohmann of O.S.E.G. that seismic displacement is less than that required for contact. Ref: ME101 Anal. 1-100 R.1 &amp; Calcs. by H.H. dated 06/14/82. Therefore no action necessary.

C. R. VanNatta 01/12/83  
DISCIPLINE ENGINEER/DATEJ. A. Longworth 01/12/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 06/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-04-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 108 at containment wall, 152<sup>o</sup>.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Railing and ladder to platform.

SOURCE CODE: C-LADDER

TARGET:  
 Relief valve 8853B.

TARGET CODE: I-8853B

POSTULATED INTERACTION:  
 Ladder and railing supports fail, resulting impact with valve 8853B.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of ladder and railing supports by analysis.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The platform and railing supports have been seismically qualified by analysis.  
 See resolution sheet and referenced Calc. No. 09-01-04-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-06-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 108, near containment wall, 161°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Handrails (3) to platform.

SOURCE CODE: C-HANDRAIL

TARGET:  
Line 2061-1" . .

TARGET CODE: P-2061-1

POSTULATED INTERACTION:  
Railings fall, impact line 2061.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of railings by simplified analysis.

J. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Handrails qualified by analysis. See Calc. No. 19-04-06-01.

S. Hanusiak 02/19/91  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
7/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-07-02

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, near containment wall, 170°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 105GE.

SOURCE CODE: C-105GE

TARGET:  
Line 2004-3".

TARGET CODE: P-2004-3

POSTULATED INTERACTION:  
Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 09-15-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
7/27/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-08-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, near containment wall, 170°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform 105GE.

SOURCE CODE: C-105GETARGET:

Line 1459-1".

TARGET CODE: P-1491-1POSTULATED INTERACTION:

Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 07/16/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 09-15-01-01.

S. Hanusiak 02/19/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 09-15-09-01

FIRE\_ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, near containment wall, 170°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 105GE.

SOURCE CODE: C-105GE

TARGET:  
Line 3852-1".

TARGET CODE: P-3852-1

POSTULATED INTERACTION:  
Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 07/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 19-15-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
7/29/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-01-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 107, near containment wall, 320°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 3900-1", aux. steam line.

SOURCE CODE: P-3900-1TARGET:

Line 1495 - 3/4"; RCP seal water bypass.

TARGET CODE: P-1495-0.75POSTULATED INTERACTION:

Lateral deflection of line 3900 results in impact with line 1495.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add bracket, clamp &amp; shoe to line 3900 to reduce lateral deflection.

M. Jones 08/06/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added & modified pipe supports per field verification report walkdown No. 39,  
 March 4, 1982, which is corrected by hanger DWG 049339 Sht. 61, Rev. 1 & 298, Rev.  
 1 on generic DCN DC1-EP-5061-RO.

C. R. VanNatta 05/13/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 05/13/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/21/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-02-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'

LOCATION WITHIN FIRE ZONE:  
Elev. 100, overhead, near pressurizer rel. tank.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
3" air supply line (service air header).

SOURCE CODE: P-SA-1A

TARGET:  
2" seal water line 1479.

TARGET CODE: P-1479-2

POSTULATED INTERACTION:  
Lateral movement of source line could impact SW line.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add additional restraint at or near 90° elbow of source line to limit lateral deflection.

M. G. Jones 04/02/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe supports were added per RLCA Resolution Report No. 6, Rev. A & ART #41 in approximate locations recommended.

P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATE

J. A. Ante  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. G. Jones 02/25/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-02-02-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"LOCATION WITHIN FIRE ZONE:  
RCPP1-1, Elev. 117

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixture.SOURCE CODE: F-1 F-1BTARGET:  
Airsupply lines (copper), rubber tube to CV 8141A and others.TARGET CODE: I-8141APOSTULATED INTERACTION:  
Fixture falls, impacts tubing.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount. A review of the design and simplified analysis should be sufficient.M. Jones 04/02/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Fixture qualified by analysis. See Civil Calc. 52.24.52, Rev. 1 & 2.

Aci

R. J. Swaim 01/26/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 01/26/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-03-01-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 100, GE area, near containment wall, 130°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platform.

SOURCE CODE: C-PLAT-388

TARGET:

Line 54-2" - Seal water to RCP.

TARGET CODE: P-0054-2

POSTULATED INTERACTION:

Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 05/14/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.  
7/2/84*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-06-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, GE area, near containment wall, 130°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platform.

SOURCE CODE: C-PLAT-3BBTARGET:

Sealwater to RCP, line 55-2".

TARGET CODE: P-0055-2POSTULATED INTERACTION:

Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 05/14/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01.

S. Hanusiak 08/08/80  
 DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

L. W. Horn 09/30/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-07-01-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Elev. 116, near RCP 1-3.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead air register.

SOURCE CODE: H-DUCT-18

TARGET:  
3/4" seal water bypass line to RCP 1-3 (line 1497).

TARGET CODE: P-1497-0.75

POSTULATED INTERACTION:  
Register falls on line 1497.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of register.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Register qualified by analysis. See IDS No. 03-29-01-04.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

D. H. Hagstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAN

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FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-12-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, GE area, near containment wall, 130°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead platform.

SOURCE CODE: C-PLAT-3BBTARGET:

Sealwater to RCP, line 57-2".

TARGET CODE: P-0057-2POSTULATED INTERACTION:

Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 05/14/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The platform has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-12-01-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 101, near containment wall, 146°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 1134 - 3/4" - RCP Primary water supply. SOURCE CODE: P-1134-0.75TARGET: Line 57 - 2" - RCP seal insection. TARGET CODE: P-0057-2POSTULATED INTERACTION: Lateral deflection of line 1134 results in impact with line 57. PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install bracket/U-bolt assembly to existing beam below line 1134 near contact point.M. Jones 07/29/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe support added per ART 10 & RLCA Resolution Report No. 6, Rev. A, in approximate location recommended.P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATEJ. A. Ante 01/14/81  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANM. Jones 02/23/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/03/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-01-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, GE area, near containment 133°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Tension rods to whip restraint for SG line 1041 (Class E). SOURCE CODE: P-1041-2.50

TARGET: Vent valve and pipe to line 746. TARGET CODE: P-0746-3

POSTULATED INTERACTION: Lateral movement of whip restraint causes contact with vent pipe and valve to line 746. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Plug elongated holes (2) in hanger steel 4" downstream from vent to preclude lateral movement of tension rods.

M. Jones 05/14/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The max. distance between the tension rods, in extreme position and vent valve & pipe is 0.25 inch. With the movement of tension rods, this gap would decrease in +Z direction and increase in -Z direction. The displacements in +Z direction are less than 0.25 inch as per memo by R. Klimczak and V. Jose, data 01-15-83. Therefore, there will not be any contact between the tension rods and vent pipe & valve as a result of its lateral movement & the damage is not foreseen.

S. Burney 04/04/83  
DISCIPLINE ENGINEER/DATE

E. Epstein 04/12/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-01-03FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 110', GE area, 10' from containment, 134°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class I supports 15-30 SI, 575-188R. Pipe rupture restraint to line 1042 (#1042-R1).

SOURCE CODE: P-1042-2.50TARGET:

Line 746-3", RCP Seal Insection.

TARGET CODE: P-0746-3POSTULATED INTERACTION:

Pipe is located 1/4" from these supports &amp; rupture restraint. Contact from seismic and operating dynamic loads will occur.

PHENOMENA CODE: DFFLCTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that clearances are adequate to accomodate seismic &amp; dynamic movements. Provide additional clearance if/as required.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Trim corner to provide 1-1/2" clearance between plate & conflicting 3" line 746.  
 See DCN DCO-EG-5486 SK #1-1042-R1 and item #1 of the telephone call form OPGC  
 (piping) to SFHO (Civil) Chron #030561 dated 08/31/83.

M. Michail  
DISCIPLINE ENGINEER/DATE

A. Appleford 09/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

G. Zaharoff 07/10/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
 3/22/87



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-03-03FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 91, near containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 3" service air header. SOURCE CODE: P-SA-1A

TARGET: 3/4" line 1500 seal water bypass return header. TARGET CODE: P-1500-0.75

POSTULATED INTERACTION: 3" service air header moves horizontally, impacts line 150 near snubber 22-142-S1. PHENOMENA CODE: DIFFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Add U-bolt clamps to supports 40-48R and 40-50R to preclude lateral movement of 3' service air header.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Pipe supports added per RICA Resolution Report No. 6 Rev. A & ART 10 except bilats added in lieu of anchors. One additional bilat added near contact point judged to be adequate. 02/25/82.

P. H. Anderson 01/14/81  
DISCIPLINE ENGINEER/DATE

J. A. Ante  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Jones 02/25/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-03-04FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
110°, elev. 91'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Hanger rod to drain line (containment fan cooler drain header).  
SOURCE CODE: P-3263-4TARGET: line 1500, 3/4" seal water header.  
TARGET CODE: P-1500-0.75POSTULATED INTERACTION: Hanger rod movement causes impact with line 1500.  
PHENOMENA CODE: DFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add horizontal restraint to drain line near hanger rod in question.M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe support modified per RICA Resolution Report No. 3, Rev. 1. See DCN DCI-EM-702. Support detailed without U-bolt per Report 3 judged acceptable. See IDS No. 15-02-03-01.DISCIPLINE ENGINEER/DATEJ. A. Ante 12/16/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-03-05

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
110°, elev. 91, near penetration.

IDENTIFICATION OF INTERACTING COMPONENTS .

SOURCE: 2" drain line, 1 rod support (fan cooler 1-4 drain line). SOURCE CODE: P-3126-2

TARGET: Line 1500. TARGET CODE: P-1500-0.75

POSTULATED INTERACTION: Rod support failure could cause pipe to whip into line 1500 or FCV-8142 (10-13-04) PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add support to 2" drain line to preclude horizontal whip. Add near FCV-8142.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Support qualified by analysis. See Resolution Report. No. 5.

DISCIPLINE ENGINEER/DATE J. A. Ante 10/24/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/30/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-03-06FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 97', near containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 3243-3" - service air header.

SOURCE CODE: P-3243-3TARGET:

Misc. Class I pipe (SIS pipe and line 1500).

TARGET CODE: P-1500-0.75POSTULATED INTERACTION:

Line 3243 runs alongside of Class I pipe in various areas around fire zone 1A.  
 Deflection of line 3243 could result in impact with these lines.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install additional lateral restraints to line 3243 to preclude impact with Class I lines.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution OK. See hanger DWG 049339 Sht 77 & 73 in DCN DC1-EP-3608.

C. R. VanNatta 01/21/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 03/24/83

FIELD VERIFICATION BY WALKDOWN TEAM

(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83

SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED AUG 09 1984  
 [0014A/0079Z-16] *ck*

*sw*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (JDS)

POSTULATED INTERACTION NO.: 10-13-03-07

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'

LOCATION WITHIN FIRE ZONE:  
Flév. 101, 320°, near containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 3209-12", CFC 103 drain to sump. SOURCE CODE: P-3209-12

TARGET: line 1499-3/4"; seal water bypass return header. TARGET CODE: P-1499-0.75

POSTULATED INTERACTION: lateral deflection of line 3209 results in impact with line 1499. Current clearance between pipes is approx. 1/8". PHENOMENA CODE: DFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Determine deflection of line 3209. Provide additional restraints if/as required.

M. G. Jones 02/25/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Line 1-S6-1499-3/4" has been rerouted.  
Per DCN\_DC1-E-P-9043. As shown on attached Iso mark-ups. See HGR. 339/281R, Dwg. No. 049339 per generic DCN-DC1-5060-PRO.

B. Abella 03/22/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 03/22/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-13-04-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91', near containment wall, 110°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" drain pipe; fan cooler 1-4 drain line.

SOURCE CODE: P-DRAIN-1A

TARGET:  
Valve FCV-8142.

TARGET CODE: M-8142

POSTULATED INTERACTION: Failure of fixed rod support of 2" drain line could result in pipe whipping into valve FCV-8142.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add support to 2" drain line to preclude horizontal pipe whip. Add near FCV-8142.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Supports qualified by analysis. For analysis & technical review see Resolution Report No. 5.

M. G. Jones 10/24/80  
DISCIPLINE ENGINEER/DATE

S. Chitnis 08/01/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*Sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-15-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'

LOCATION WITHIN FIRE ZONE:  
 Azimuth 210°, adjacent to missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Hanger support for line K-1043-2 1/2" (S. G. 1-4 blowdown). SOURCE CODE: P-1043-2.5

TARGET: S6-1490-3/4", RCP 4 seal 1 flow element in. TARGET CODE: P-1490-0.75

POSTULATED INTERACTION: Existing clearance between target line and support attachment to line K-1043-2 1/2" is 1 1/4". Thermal growth of line K-1043-2 1/2" radially outward (longitudinal), coupled with seismic excitation causes line S6-1490-3/4 to be impacted by source hanger. PHENOMENA CODE: DIFFICT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify by engineering evaluation that thermal growth coupled with seismic motion of line K-1043-2 1/2" does not exceed existing clearance. Alternatively, relocate source hanger to preclude interaction.

S. Chestnut 09/15/83  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Modified pipe support per DCN DC1-EP-5060, HGR DWG. 049763-57N/136V, Rev. 5.

C. R. VanNatta 10/13/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 10/13/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EF EMS ENG GC HVAC I&C [PSE] NPO NAN

S. F. Traisman 11/29/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-19-02-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 104'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 104, CVCS filter area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead electric hoist.SOURCE CODE: M-HOIST-3XTARGET:  
 Remote manual operator to valve 8384B.TARGET CODE: M-8384BPOSTULATED INTERACTION:  
 Hoist falls, impacts manual operator.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Hoist qualified by analysis. See resolution sheet and Calc's. No. 10-19-02-01.S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATEV. J. Ghio  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATESG  
7/21/82



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-19-06-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 104, CVCS filter area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.SOURCE CODE: M-HOISTTARGET:  
Remote manual operator to valve 8382B.TARGET CODE: M-8382BPOSTULATED INTERACTION:  
Hoist falls, impacts manual operator.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Hoist qualified by analysis. See resolution sheet and calc's. No.  
10-19-02-01.S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATEV. J. Ghio  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET, (IDS)

POSTULATED INTERACTION NO.: 10-20-02-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 104, CVCS filter area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.SOURCE CODE: M-HOIST-3XTARGET:  
Remote manual operator to valve 8384B.TARGET CODE: M-8384APOSTULATED INTERACTION:  
Hoist falls, impacts manual operator.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hoist qualified by analysis. See resolution sheet and calc's. No. 10-19-02-01.S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATEV. J. Ghio  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANM. Jones 01/08/81  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATES-G  
8/3/94

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-20-06-01

FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 104, CVCS filter area

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.

SOURCE CODE: M-HOIST-3X

TARGET:  
Remote manual operator to valve 8382A

TARGET CODE: M-8382A

POSTULATED INTERACTION:  
Hoist falls, impacts manual operator.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hoist qualified by analysis. See attached resolution sheet and calc's. No. 10-19-02-01.

S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATE

V. J. Ghio  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP, PROJECT ENGINEER APPROVAL/DATE

SC  
8/31/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-21-04-01

FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 104, CVCS filter area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.

SOURCE CODE: M-HOIST-3X

TARGET:  
Remote manual operator to valve 8387A.

TARGET CODE: M-8387A

POSTULATED INTERACTION:  
Hoist falls, impacts manual operator.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hoist qualified by analysis. See resolution sheet and referenced calc. No. 10-19-02-01.

S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATE

V. J. Ghio  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-22-03-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 104 CVCS filter area.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.SOURCE CODE: M-HOIST-3XTARGET:  
Remote manual operator to valve 8396B.TARGET CODE: M-8396APOSTULATED INTERACTION:  
Hoist falls, impacts manual operator.PHENOMENA CODE: MFCFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hoist qualified by analysis, see resolution sheet and referenced calc.  
No. 10-19-02-01.S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATEV. J. Ghio  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/87  
SIP PROJECT ENGINEER APPROVAL/DATES.S.  
8/24/87

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-22-05-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 104 CVCS filter area.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.SOURCE CODE: M-HOIST-3XTARGET:  
Remote manual operator to valve 8396B.TARGET CODE: M-8396BPOSTULATED INTERACTION:  
Hoist falls, impacts manual operator.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis or secure hoist to monorail at the end of the CVCS filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hoist qualified by analysis, see resolution sheet and referenced Calc. No. 10-19-02-01.

S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATEV. J. Ghio  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-22-08-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 104, CVCS filter area.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead electric hoist.SOURCE CODE: M-HOIST-3XTARGET:  
Remote manual operator to valve 8380.TARGET CODE: M-8380POSTULATED INTERACTION:  
Hoist falls, impacts manual operator.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of hoist by analysis or secure hoist at monorail at the end of the CVCSs filter area away from the manual operator.

M. Jones 01/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hoist qualified by analysis, see resolution sheet and referenced calc. No. 10-19-02-01.S. Hanusiak 03/16/81  
DISCIPLINE ENGINEER/DATEV. J. Ghio  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATES.G.  
8/13/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-24-06-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 113. 17' between K and L.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Hanging light fixture (hangin by rusted chain). SOURCE CODE: F-LF-3RRTARGET: Cable tray. TARGET CODE: E-JNKPOSTULATED INTERACTION: Light falls, impacts tray. PHENOMENA CODE: FJXTURFRECOMMENDED RESOLUTION BY WALKDOWN TEAM.

Ensure fixture is adequate to support light or replace light support.

T. Werinski 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
 Install backup support chain per DCN DCO-EF-555? Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

R. J. Swaim 02/23/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 07/23/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-24-06-02

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100', near col. 15 and between K and L.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" Sprinkler line.

SOURCE CODE: P-SPR-3BB

TARGET:  
Cable tray JNK.

TARGET CODE: E-JNK

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL  
Sprinkler line falls due to being supported by fixed-end rod hangers.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Show by analysis that integrity of tray will not be damaged.

G. Whorinsky 05/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modified pipe supports. See hanger SWG 049339 Sht. 287 thru 292 in DCN-DC1-EP-5061.

C. R. VanNatta 03/03/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 03/01/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*Sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 10-24-06-03FIRE ZONE 3-8B LOCATION Penetration Areas FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100', near col. 15 & 1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Fire protection piping (2" red).SOURCE CODE: P-SPR-38BTARGET:  
Cable tray JNK, INFF.TARGET CODE: F-JNKPOSTULATED INTERACTION:  
Fire protection piping could fall due to failure of fixed-end rod hangers.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace fixed-end rod hangers with clevis-ends.P. Anderson 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Refer to TDS 10-24-06-02.C. R. VanNatta 03/03/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 03/01/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG GC HVAC I&C [PSE] NPO NANS. F. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-01-01-01

FIRE ZONE 3-R-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73', RHR HX 1-1 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead platform.

SOURCE CODE: C-PLAT-3R1

TARGET:  
 Line 42-6", charging pump 1-1 suction.

TARGET CODE: P-0042-6

POSTULATED INTERACTION:  
 Platform falls, impacts line 42.

PHENOMENA CODE: CTVTI.FATI.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platform. Simplified analysis should be adequate.

M. Jones 05/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Platform is qualified by analysis. See resolution sheet and Calc.  
 No. 11-01-01-01.

S. Hanusiak 02/18/81  
 DISCIPLINE MGMTNFR/DATE

V. J. Ghio 08/08/80  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

56  
9/12/84

I. W. Horn 07/07/81  
 SIP PROJECT MGMTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-01-06-01FIRE ZONE 3H1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73, over charging pump 1-1

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead Light fixtures

SOURCE CODE: E-LF-3H1

TARGET:  
 Charging pump 1-1 and associated piping tubing and instruments.

TARGET CODE: M-CHGPP1-1

POSTULATED INTERACTION:  
 Fixtures falls, impacts pump, etc.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of existing fixture mounts, possibly by simplified analysis.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 6. This fixture has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis

AR  
 7/25/84

R. J. Swain 03/28/83  
DISCIPLINE ENGINEER/DATE

G. Bhatt 03/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-01-07-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, GE area, NE chamber by containment.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Ladder 24GE.

SOURCE CODE: C-LADDER

TARGET:  
Line 1474-3".

TARGET CODE: P-1474-3

POSTULATED INTERACTION:  
Ladder falls, impacts line 1474.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of ladder by simplified analysis.

M. Jones 05/21/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The ladder qualified by analysis. See Calc. No. 11-01-07-01.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.*  
*7/29/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SYSTEMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-01-07-02

FIRE ZONE 3-R-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Flav. 73, RHR HX1-1 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform.

SOURCE CODE: C-PLAT-3R1

TARGET:  
Line 1474-3" - charging pump J-1 bypass.

TARGET CODE: P-1474-3

POSTULATED INTERACTION:  
Platform falls, impacts line 1474.

PHENOMENA CODE: CTVTLFATI

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been qualified by analysis. See resolution sheet and referenced Calc. No. 11-01-01-01.

S. Hanusiak 07/19/81  
DISCIPLINE ENGINEER/DATE

F. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS ENG GC HVAC I&C PSE NPO NAN

FFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
11/11/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-02-03-01FIRE ZONE 3H1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 73, over charging pump 1-2

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Light fixtures

SOURCE CODE: E-LF-3H1TARGET:

Charging pump 1-2 and associated piping tubing and instruments.

TARGET CODE: M-CHGPP1-2POSTULATED INTERACTION:

Fixtures falls, impacts pump, etc.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of existing fixture mounts, possibly by simplified analysis.

M. Jones 5/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 6. This fixture has been qualified by analysis per Calculation 52.24.52.

No further action necessary. Resolved by analysis.

R. J. Swaim 03/28/84  
 DISCIPLINE ENGINEER/DATE

G. Bhatt 3/28/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

Lee Horn  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 5/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-02-07-01

FIRE ZONE 3-B-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 73, RHR HX 1-1 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform

SOURCE CODE: C-PLAT-3B1

TARGET:  
Line 1475-3", Charging Pump 1-2 Bypass

TARGET CODE: P-1475-3

POSTULATED INTERACTION:  
Platform Falls, impacts line 1475.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and Calc.  
No. 11-01-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*Sig*  
*3/15/84*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-03-01-01FIRE ZONE 3-H-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 73' Charging Pump 1-3 Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Crane Trolley

SOURCE CODE: C-CRANE-3H2TARGET:

Line 44-6", Charging Pump 1-3 Suction

TARGET CODE: P-0044-6POSTULATED INTERACTION:

Trolley falls, impacts line 44.

PHENOMENA CODE: MECHFALLRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of trolley. Simplified analysis should be adequate.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source component has been seismically qualified by analysis subject to modifications to monorail as shown on DWG. #59652 and 59654. See Resolution sheet and Calc. 11-03-01-01.

S. Hanusiak 04/06/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 06/2/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAM

S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5.6  
 3/5/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-03-03-01

FIRE ZONE 3-H-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"  
 LOCATION WITHIN FIRE ZONE:  
 Elev. 73' Charging Pump room 1-3

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead Crane Trolley

SOURCE CODE: C-CRANE-3H2

TARGET:  
 Charging Pump 1-3 and associated instruments

TARGET CODE: M-CHGPP1-3

POSTULATED INTERACTION:  
 Trolley falls, impacts pump

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of trolley. Simplified analysis should be adequate.

M. Jones 05/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Source component has been seismically qualified by analysis. See resolution sheet and referenced Calc. # 11-03-01-01, rev. 1.

S. Hanusiak 04/06/81  
 DISCIPLINE ENGINEER/DATE

E. W. Wollak 06/02/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-03-03-02FIRE ZONE 3R2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 73, over charging pump 1-3

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Light fixtures (3)

SOURCE CODE: E-LF-3H2TARGET:

Charging pump 1-3 and associated piping tubing and instruments.

TARGET CODE: M-CHGPP1-3POSTULATED INTERACTION:

Fixtures, falls, impact pump, etc.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of existing fixture mounts. These mounts are fairly rigid and could be qualified by analysis.

M. Jones 5/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 6. This fixture has been qualified by analysis per Calculation 52.24.52.

No further action necessary.

KEYS

R. J. Swaim 03/28/83  
 DISCIPLINE FNGTNER/DATE

G. C. Bhatt 03/28/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 05/25/83  
 SIP PROJECT FNGTNER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-03-03-03

FIRE ZONE 3-H-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 73, Outside Charging Pump 1-3 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Chag. Pump 1-3 Room Security Barrier

SOURCE CODE: C-SB

TARGET:

Charging Pump 1-3

TARGET CODE: M-CHGPP1-3

POSTULATED INTERACTION:

Security Barrier falls, impacts Pump

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of security Barrier by simplified analysis.

M. Jones 10/27/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Barrier qualified by analysis. See resolution sheet and Calc.  
 No. 11-03-03-03.

S. Hanusiak 03/12/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/12/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-03-04-01FIRE ZONE 3-H-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 73' Charging Pump 1-3 Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead Crane TrolleySOURCE CODE: C-CRANE-3H2TARGET:  
Line 47-3"TARGET CODE: P-0047-3POSTULATED INTERACTION:  
Trolley falls, impacts line 47.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of trolley. Simplified analysis should be adequate.M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Source component has been seismically qualified by analysis. See resolution sheet for Calc. 11-03-01-01.S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATEE. P. Wollak 03/09/81  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATES.E.  
8/15/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-04-01-01

FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100', RHR HX 1-2 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platforms(2) and ladder.

SOURCE CODE: C-PLAT-3B2

TARGET:  
Line 41-4".

TARGET CODE: P-0041-4

POSTULATED INTERACTION:  
Platforms and ladder fall on line 41.

PHENOMENA CODE: CIVILFATL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms and ladder. Simplified analysis should be adequate.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and referenced Calc. #No. 11-01-01-01.

S. Hanusiak 01/29/81  
DISCIPLINE EMGTNFR/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.S.  
9/10/82*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-04-03-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, VCT and Blender Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead Light fixture, chain supported

SOURCE CODE: E-LF-3X

TARGET:  
 Actuator to valve LCV-112B

TARGET CODE: M-LCV112B

POSTULATED INTERACTION:  
 Fixture falls, impacts actuator and associated power and control cable.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture. Modifications will be required

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*KL*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-FE-5552 Rev. 1, Sheet 9 of 9, detail 75. Resolved by modification. See ART 353.

R. J. Swaim 03/21/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

Lee Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-04-04-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 100, VCT and Blender Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead light fixture, chain supported

SOURCE CODE: E-LF-3X

TARGET:  
 Actuator to valve LCV-112C.

TARGET CODE: M-LCV112C

POSTULATED INTERACTION:  
 Fixture falls, impacts actuator and associated power and control cable

PHENOMENA CODE: FIXTURF

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture. Modifications will be required

M. Jones 5/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*ASB*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EF-5552 Rev. 1, sheet 9 of 9, detail 75. Resolved by modification. See ART 353.

R. J. Swaim 03/21/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/21/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EF] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/18/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 09/09/83  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-04-07-02

FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100', RHR HX 1-2 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform and ladder.

SOURCE CODE: C-PLAT-382

TARGET:  
Line 1452-1".

TARGET CODE: P-1452-1

POSTULATED INTERACTION:  
Platform and ladder fall on line 1452.

PHENOMENA CODE: CVTLFATI.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform and ladder. Simplified analysis should be adequate.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform/ladder qualified by analysis. See resolution sheet and referenced Calc. No. 11-01-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
9/10/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-05-07-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, GE area, NE chamber by containment.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Ladder.

SOURCE CODE: C-LADDERTARGET:

Line 48-3", charging pump discharge.

TARGET CODE: P-0048-3POSTULATED INTERACTION:

Ladder falls, impacts line 48.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of ladder by simplified analysis.

M. Jones 05/21/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Ladder has been qualified by analysis. See resolution sheet and referenced Calc.  
No. 11-01-07-01.S. Hanusiak 02/19/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAVL. W. Horn 09/30/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/14/82

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-05-07-02FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 73, RHR HX1-2 room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platforms (2).SOURCE CODE: C-PLAT-3R2TARGET:  
Line 48-3" - charging pump discharge.TARGET CODE: P-0048-3POSTULATED INTERACTION:  
Platforms fall, impact pipe.PHENOMENA CODE: CTVTI.FATI.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

- Ensure integrity of platforms by simplified analysis. See resolution sheet and Calc. No. 11-01-01-01.

M. Jones 05/21/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platforms qualified by analysis. See resolution sheet and Calc. No:  
 11-01-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE MGMTNFR/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT MGMTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-05-08-01FIRE ZONE 3B2 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100, VCT and Blender Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixtures.SOURCE CODE: E-LF-3R2TARGET:  
FT-128 and associated tubing to FE 128.TARGET CODE: T-FT128POSTULATED INTERACTION:  
Fixtures fall, impact FT-128 tubing and root valves to FE-128.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Construct protective shielding box around FT-128, tubing and FE 128.  
 This box will also serve as protection from personnel moving through the  
 area.

M. Jones 05/21/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*REB* The above source light fixture has been field inspected and verified to  
 be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-  
 up support chain per DCN-DCO-EE-5552 Rev. 1 SH. 9 of 9, detail 75. See ART  
 377.

R. J. Swaim 05/17/83  
DISCIPLINE ENGTFER/DATE

G. C. Bhatt 05/18/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGTFER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-05-10-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 85'

## LOCATION WITHIN FIRE ZONE:

Elev. 85, GE area, NE corner by containment.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead small conduit.

SOURCE CODE: E-R-388TARGET:

Tubing to HCV-142.

TARGET CODE: I-HCV142POSTULATED INTERACTION:Conduit falls due to lack of support.  
(9.5' between clips)PHENOMENA CODE: SPTFATIRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add support clips to conduit as follows:

1. Over HCV-142 midway between existing support clips.
2. Over tubing as close to south wall of chamber as possible.

M. G. JonesWALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Add conduit supports. See DCN no. DC1-EE-699.

R. Parodi 07/07/80  
DISCIPLINE ENGINEER/DATE

R. Young 07/11/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

Mark Barker  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/19/08  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-06-05-01FIRE ZONE 3-J-2 LOCATION Safety Related Pump FLOOR ELEVATION 75'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 75, Near CCW PP1-2

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
CCW Supply header A L95 K-95-30SOURCE CODE: P-0095-30TARGET:  
K7057, K7058, K7061, K7047, and K7048TARGET CODE: E-K7507+POSTULATED INTERACTION:PHENOMENA CODE: DEFLECT

Conduits pass over source line with 1/2" clearance. Vertical mvt. of 30" line could crush conduits. 30" line is snubber supported so thermal movement is expected.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of conduits by installing vertical stops to the ceiling, limiting the source pipe to no upward movement. Also check the impact of such a support on the thermal analysis of the source pipe. Alternately provide local reroute for conduits.

P. Anderson 06/04/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Review of seismic and thermal expansion movement analysis done by PG&E and Bechtel show that the postulated interaction will not occur. Therefore no action necessary. Refer to Cloud Resolution Report 54.

C. R. VanNatta 06/22/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 06/22/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

Lee Horn 07/08/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 07/08/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-06-05-02FIRE ZONE 3-H-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Flev. 73, 4' from chg. pp. 1-1, on wall below panel Aux 10 PP.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 2" stainless (schedule 80) coming off a 3" bypass to tag 128-line 1474. SOURCE CODE: NS-TTARGET: K7054 conduit. TARGET CODE: F-K7054-0.75POSTULATED INTERACTION: Postulated heat damage between K7054 and the uninsulated pipe 1/2" away. PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of the conduit by analysis or reroute K7054.Edward Dennison 06/04/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved per analysis described in RICA Report #42.S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATER. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-07-05-01FIRE ZONE 5-A-3 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

DC switchgear room 1-3; elev. 115'-0.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Fire Station 250

SOURCE CODE: M-FETARGET:

GNJA (cable tray)

TARGET CODE: E-GNJAPOSTULATED INTERACTION:

Entire fire station could fall and impact tray.

PHENOMENA CODE: LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure stability of mobile fire station or provide more distance to GNJA.

Edward Dennison 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fire station 250 with fire extinguisher is for construction and will be removed per ART 373. See IDS 01-19-02-07 file for ART 373.

J. Haake 05/02/83  
DISCIPLINE ENGINEER/DATE

J. Longworth 05/03/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*L.J.E. 8/21/84*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-07-05-02FIRE ZONE 5-A-3 LOCATION Electrical Rooms FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, DC switchgear room 1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Extinguisher on fire station 250.

SOURCE CODE: M-FFTARGET:

GNJA (cable tray)

TARGET CODE: E-GNJAPOSTULATED INTERACTION:

Extinguisher falls and impacts tray.

PHENOMENA CODE: LOOSFRECOMMENDED RESOLUTION BY WALKDOWN TEAM:Ensure stability of fire extinguisher by providing mechanism to keep  
cannister on the fire station mount.F. Dennison 01/05/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Fire station 250 with fire extinguisher is for construction and will be  
removed per ART 373. See INS 01-19-02-07 file for ART 373.J. Haake 05/02/83

DISCIPLINE, EMGTNFR/DATE

J. Longworth 05/03/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NANS. F. Traisman 02/24/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 06/12/84

SIP PROJECT EMGTNFR APPROVAL/DATE

A.J.G. 8/31/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-07-05-03

FIRE ZONE 4-A LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, Chem lab area, NW cable spreading room through door #146.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Class II wall.

SOURCE CODE: C-WALL

TARGET:  
K6946, K6953, K6955, K6939 and trays ETA, ETD, DTA, DTB and ATA.

TARGET CODE: E-K7057+

POSTULATED INTERACTION:  
Class II wall could fall and impact targets.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of class II wall.

Paul Anderson 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Wall qualified by analysis. See resolution sheet and IDS file No.  
01-19-02-01.

S. Hanusiak 09/21/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 09/24/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-07-05-05

FIRE ZONE 12-B LOCATION Electrical Rooms FLOOR ELEVATION 100'

LOCATION WITHIN FIRE ZONE:  
El. 112' east end of G bus 4 kv cable spr. room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Distribution bus duct from standby startup transformer to vital 4.16 KV swgr. SOURCE CODE: E-BUS DUCT

TARGET: Cable tray GDA TARGET CODE: E-GDA

POSTULATED INTERACTION: Failure of bus duct fixed end rod hangers causes bus duct to fall onto target. NOTE: bus duct running through 4KV swgr above has seismic supports. PHENOMENA CODE: Spt fail

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add supports to bus duct as required to eliminate interaction.

S. E. Traisman 7/20/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Install additional support to bus duct per DCN #DCI-5-E-11493 Rev.0.

*ABIS  
7/19/84*

N. Barangan  
DISCIPLINE ENGINEER/DATE

'C. Kahl 7/15/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO MAN

S. E. Traisman  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 1/26/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-09-01-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 100, VCT and Blender Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead Light fixture, chain supported

SOURCE CODE: E-LF-3X

TARGET:  
 Actuator to valve I CV-112B

TARGET CODE: M-I.CV112B

POSTULATED INTERACTION:  
 Fixtures falls, impacts actuator and associated power and control cable

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture. Modifications will be required

M. Jones 05/20/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Act* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EF-5552 Rev. 1, sheet 9 of 9, detail 75. Resolved by modification. See ART 353.

R. J. Swaim 03/21/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/21/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/18/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 09/09/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-10-01-01FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, VCT and Blender Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Light fixture, chain supported

SOURCE CODE: E-LF-3XTARGET:

Actuator to valve LCV-112C

TARGET CODE: M-LCV112CPOSTULATED INTERACTION:

Fixture falls, impacts actuator and associated power and control cable

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture. Modifications will be required

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*not* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EE-5552 Rev. 1 Sheet 9 of 9, detail 75 Resolved by modification. See ART 353.

R. J. Swaim 08/18/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 08/18/83  
ENGR. GROUP SUPERVISOR/DATE.

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

Lee Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-12-02-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 110, GW area, SW corner.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Motion due to postulated HOSGRI event.

SOURCE CODE: NS-CD

TARGET:  
Signal tubing to HCV-142 is unsupported from junction box to south wall penetration at ceiling (8' of tubing).

TARGET CODE: I-HCV142

POSTULATED INTERACTION:  
Tubing fails due to lack of support.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify adequacy of existing tubing support. Add supports as required.

M. Jones 06/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification per ART #277. Also memo attached from G. H. Moore to R. D. Etzler July 10, 1980.

E. M. Valeriano 07/10/80  
DISCIPLINE ENGINEER/DATE

G. H. Moore 07/10/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04-22-83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-17-07-02FIRE ZONE 5-A-4 LOCATION Electrical Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 110', 480V vital bus 1F room, north wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Construction deficiency (target has missing support clips). SOURCE CODE: NS-CDTARGET: Signal tubing to HCV-142. TARGET CODE: I-HCV142POSTULATED INTERACTION: Tubing fails due to lack of support. PHENOMENA CODE: HOUSEKEEPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing support clips.M. Jones 06/03/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Support clips installed per ART 272.E. M. Valeriano 07/10/80  
DISCIPLINE ENGINEER/DATEG. H. Moore 07/10/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE FMS ENG [QC] HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-12-02-03FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
 Elev. 100, at GW area, near SW wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead light fixtures, chain supported.SOURCE CODE: F-LF-3BRTARGET:  
 Signal tubing from HCV142TARGET CODE: I-HCV142POSTULATED INTERACTION:  
 Fixture falls, impacts tubing.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount: Modifications will be required.M. Jones 06/25/80  
 WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
 Install backup support chain per DCN DCO-EF-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

R. J. Swaim 07/23/83  
 DISCIPLINE ENGTNFR/DATEG. C. Bhatt 02/23/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/30/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
 SIP PROJECT ENGTNFR APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

53

POSTULATED INTERACTION NO.: 11-14-02-01

FIRE ZONE 3-RR LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85, area GF @ J1 and T.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Motion due to postulated HOSGRI event.

SOURCE CODE: NS-CN

TARGET:  
Conduit K6101.

TARGET CODE: E-K6101-1.25

POSTULATED INTERACTION:  
K6101 does not have class I supports.

PHENOMENA CODE: SPTFAI

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Upgrade supports to class I or determine that K6101 does not require class I supports.

P. Worisky 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Class I supports installed per ART 200

A. G. Barta 07/20/81  
DISCIPLINE ENGINEER/DATE

S. Auer 06/25/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10-29-82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 11-21-02-01

FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 100', RHR HX1-2 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead platforms (2) and ladder. SOURCE CODE: C-PLAT-3B2

TARGET: line 53-3" - charging pump bypass. TARGET CODE: P-0053-3

POSTULATED INTERACTION: Platforms and ladder fall on line 53. PHENOMENA CODE: CIVIL FAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platforms and ladder. Simplified analysis should be adequate.

M. Jones 05/20/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Platform/ladder qualified by analysis. See resolution sheet and referenced Calc. No. 11-01-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-01-01-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 91', near missile barrier.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
 Hanger rod to line 48-3", RCS letdown line, inlet.

TARGET CODE: PS-0048-3

POSTULATED INTERACTION:  
 Hanger rod is bent, could compromise pipe integrity.

PHENOMENA CODE: SPTFAI

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Replace bent hanger rod.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency was corrected during normal course of construction activities. Bent hanger rod replaced.

E. M. Valeriano 08/19/80  
DISCIPLINE ENGINEER/DATE

V. I. Killpack 08/19/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&amp;C PSE NPO·NAN

M. Jones 02/23/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-01-03-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 129'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 130, near missile wall, by pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Air register against missile wall.

SOURCE CODE: H-DUCT-18TARGET:

Line 51-2" stainless charging line.

TARGET CODE: P-0051-2POSTULATED INTERACTION:

Register falls, impacts line 51.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of register.

M. Jones 04/09/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Register qualified by analysis. See IDS No. 03-29-01-04.

DISCIPLINE ENGINEER/DATED. H. Haqstrom 09/08/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AWS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-01-04-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 91', azimuth 110°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Seismic motion induced by postulated Hosgri event. SOURCE CODE: SQTARGET: FCV 8148 on excess letdown HX bypass. TARGET CODE: I-8148POSTULATED INTERACTION: The valve upper structure is somewhat flexible. An identical valve 8145, in a similar piping layout is snubber supported. PHENOMENA CODE: MECHFATLRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Check the seismic qualification of valve FCV 1848 to see if a snubber is required.P. Anderson 06/18/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Valve qualified by seismic analysis 9-11, Rev. 9, dated 12/02/81.DISCIPLINE ENGINEER/DATEJ. Ante 12/03/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-02-05-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, near missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Spring hanger can deflects excessively, could result in malfunction of hanger. SOURCE CODE: PS-0025-3

TARGET: Spring hanger can to a line (No. 25 possibly) which is attached to hanger 63-4V. TARGET CODE: PS-ULR-3

POSTULATED INTERACTION: Spring hanger can deflects excessively, could result in malfunction of hanger. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral support to hanger can to reduce lateral deflection.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved per analysis described in RCl.A Resolution Report #13.

Paul H. Anderson 02/25/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 02/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

M. Jones 02/23/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-03-01-02FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7"

## LOCATION WITHIN FIRE ZONE:

Loop 4 at missile wall at elev. 110'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" scupper drain line.

SOURCE CODE: P-4397-2TARGET:

Letdown line attached to support 56N/36R, vent (line 63).

TARGET CODE: PA-0063-1POSTULATED INTERACTION:

Lateral deflection of drain line causes impact with vent piping.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install lateral support to drain line, 2 places, near missile wall, between vent location to limit lateral deflection.

M. Jones 04/09/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bilat installed near postulated contact point per ART No. 006.

R. W. Eschenburg 11/12/80  
DISCIPLINE ENGINEER/DATE

S. Chitnis 07/24/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FF FMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Jones 02/24/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/03/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-03-06-01

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 112'-1-1/2"

LOCATION WITHIN FIRE ZONE:  
Elev. 114, inside of missile wall, 110°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: BU air accumulator for 9351A & 9351B RCS sample valves - wall mounted via bolted brackets. SOURCE CODE: M-9351A

TARGET: FCV-8143. TARGET CODE: I-8143

POSTULATED INTERACTION: Mounting fails (accumulator), source impacts FCV-8143. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Check qualification of accumulator mount. Qualify as required. Also, check qualification of similar accumulators mounted elsewhere in the plant.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The accumulator in question, and all similar accumulators, are seismically qualified by analysis. See RLCA Report No. 5.

DISCIPLINE ENGINEER/DATE J. A. Ante 10/31/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 09/30/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED AUG 09 1984  
[0014A/0079Z-17] *CF*

*Jan!*



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-07-06-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', azimuth 108° against containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Service air header, 3-1/2" green line.

SOURCE CODE: P-SA-1ATARGET:

Conduit KX551.

TARGET CODE: E-KX5510-1.50POSTULATED INTERACTION:

Service air header is poorly supported and lateral movement could impact the conduit.

PHENOMENA CODE: SPTFATI & PIPFFATIRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install a bilateral support to the service air header to ensure no contact with the conduit.

P. Anderson 02/04/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved per NPPR DCO-83-NO-P0017.J. Vranicar 09/23/83  
DISCIPLINE ENGINEER/DATEP. Beckham 09/23/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF FF EMS ENG [GC] HVAC I&amp;C PSE NPO NAN

S. Harris 07/19/87  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-07-06-02FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 117', between col. 1 &amp; 2, against containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Grating supported to interior concrete.

SOURCE CODE: C-GRATINGTARGET:

Conduit KX551 attached to containment wall.

TARGET CODE: E-KX551-1.50POSTULATED INTERACTION:

Differential seismic motion between grating and conduit could cause impact. There exists 1/4" clearance.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of conduit by analysis or modify grating to provide sufficient clearance.

P. Anderson 02/04/81WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Provide 2" minimum clearance around the conduit per ART No. 180.

S. HanusiakDISCIPLINE ENGINEER/DATEE. P. Wollak 05/07/81ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANM. Jones 04/28/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/30/82SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-10-04-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 105, near missile barrier 110°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Light fixture at elev. 116.

SOURCE CODE: E-I.F-1A

TARGET:  
Air supply tubing to valve 8145.

TARGET CODE: I-8145

POSTULATED INTERACTION:  
Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 03/11/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Fixture qualified by analysis. See Civil Calc. No. 52.24.52.

*Acfs*

R. J. Swaim 01/26/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/17/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-11-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 105, near missile barrier 110°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture at elev. 116.

SOURCE CODE: E-LF-1ATARGET:

Air supply tubing to valve 8146.

TARGET CODE: I-8146POSTULATED INTERACTION:

Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 03/11/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

See Civil Calc. No. 52.24.52. Fixture qualified by analysis.

kts

R. J. Swaim 01/26/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-12-04-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 105, near missile barrier 110°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture at elev. 116.

SOURCE CODE: E-LF-1ATARGET:

Air supply tubing to valve 8147.

TARGET CODE: I-8147POSTULATED INTERACTION:

Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 03/11/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*AES* The above source light fixture has been site inspected and verified to be installed in accordance with PG&F DWG. 050041, detail 5. This fixture has been qualified by analysis per Civil calculation 52.24.52, para. 7.2-(2).

R. J. Swaim 04/19/83  
DISCIPLINE ENGINEER/DATE

S. Auer 08/29/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-13-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 103, at containment wall, northeast corner of area GE.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Motion due to pastulated HOSGRI event.

SOURCE CODE: SQTARGET:Actuator to valve 8152; regen. HX discharge line ISO. valve,  
line no. 26-2."TARGET CODE: I-8152POSTULATED INTERACTION:

Upperstructure of valve 8152 is tall and unsupported. Low resonant frequency frequency of upperstructure could result in overstress of valve bonnet piping.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Check piping analysis for proper modelling of valve 8152, and verify that proper geometry was assumed in the valve seismic qualification.

M. Jones 05/03/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Stress calculation 10-301 provides two snubbers on valve top works. Modification to be made prior to fuel load. Snubbers required on this S.C.I. line will be completed during the normal course of construction as required by the calculations. The modification described above was provided as a result of the Seismic Reverification program, not the SIP.

DISCIPLINE ENGINEER/DATEJ. A. Longworth 12/16/82  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 03/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-13-02-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100' near penetration 35 (Azimuth 98°).

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Spring support near tubing.

SOURCE CODE: PS-388TARGET:

Actuating air tubing from SV-82 to valve 8152.

TARGET CODE: I-8152POSTULATED INTERACTION:

Spring support impacts tubing during seismic event damaging tubing and/or fitting. Differential movement of valve actuator relative to tubing support may also damage tubing or fitting.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute tubing to prevent damage from spring support. The new routing must allow for 2.7" twist of the valve or an amplitude of 1.6 inches (3.2" peak-to-peak) at the level of the tubing connection. Tubing should not be cross-spanned between the containment and aux. building.

G. B. Page 10/27/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Rerouted air tubing per ART 250.

G. B. Page 10/27/81  
DISCIPLINE ENGINEER/DATE

E. C. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*LJE. 8/28/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-13-03-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100', penetration 35, azimuth 98°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Air operated valve #8152.

SOURCE CODE: M-8152TARGET:

Conduit K6266.

TARGET CODE: E-K6266-1POSTULATED INTERACTION:

Softly supported low frequency, valve interacts with conduit.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Check qualification of valve &amp; operator.

R. L. Cloud 06/09/81WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Valve 8152 is qualified by analysis per DCM-M-58, Rev. 7, and plant design piping analysis 10-301. The valve actuator can move without damaging the conduit. This was determined by physically shaking the valve and noting the amplitude of the deflection. This was done to the extent necessary to discount the postulated interaction. In addition, piping analysis 10-301, dated 09/15/83, indicates movement of piping near valve and movement at bilateral snubber attachment to valve 8152 actuator will not exceed 1" for any analyzed case or combination of cases including the Hosgri earthquake. Per telecon between D Esken and S. Chesnut, dated 08/01/84, file 4.75, clearance between source valve and actuator and target conduit is 14". Conclusion: no modification necessary.

DISCIPLINE ENGINEER/DATEE. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 11/01/82  
SIP PROJECT ENGINEER APPROVAL/DATE

A.J.E. 8/28/84



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-14-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 105, near missile barrier 110°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

light fixture at elev. 116.

SOURCE CODE: F-LF-1ATARGET:

Air supply tubing to valve 8148.

TARGET CODE: I-8148POSTULATED INTERACTION:

Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 03/11/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. No. 52.24.52, Rev. 1 &amp; 2.

*kerb*

R. J. Swaim 01/26/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/26/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-15-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 105, near missile barrier 110°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture at elev. 116.

SOURCE CODE: E-LF-1ATARGET:

Air supply tubing to valve 8149A.

TARGET CODE: I-8149APOSTULATED INTERACTION:

Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 03/11/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*ACB* Fixture qualified by analysis. See Civil Calc. No. 52.24.52, Rev 1 & 2.

R. J. Swaim 01/26/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/26/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 12-16-02-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 105, near missile barrier 110°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture at elev. 116.

SOURCE CODE: E-I.F-1ATARGET:

Air supply tubing to valve 8149B.

TARGET CODE: I-8149BPOSTULATED INTERACTION:

Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 03/11/87

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Fixture qualified by analysis. See Civil Calc. No. 52.24.52, Rev. 1 &amp; 2:

AggB

R. J. Swain 01/26/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/28/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-01-13-01FIRE ZONE 3-AA LOCATION Aux/Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 127, near BA storage tank 1-1

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Primary water line 1569-2"

SOURCE CODE: P-1596-2TARGET:

Line 2086-2"; BA storage tank 1-1 recirc. line.

TARGET CODE: P-2086-2POSTULATED INTERACTION:

Lateral movement of primary water line results in impact with line 2086.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install lateral restraint to line 1569 by attaching restraint to col. 17.4.

M. Jones 06/03/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution - OK. See generic DCN-DCI-EP-5061 HGR. No. 049339 SHT. 333.

C. R. Van Natta 08/03/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 08/03/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NANS. E. Traisman 09/21/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/21/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-02-01-01

FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, near BA storage tank 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform (Elev. 122); overhead hoist.

SOURCE CODE: M-HOIST-3AA

TARGET:  
Line 1558-2"; BA storage tank recirc.

TARGET CODE: P-1558-2

POSTULATED INTERACTION:  
Platform falls, impacts pipe due to hoist falling on platform or platform failing due to its own weight.

PHENOMENA CODE: MECHFAL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Ensure integrity of platform by simplified analysis. Include pipe support loads imposed on the platform in the analysis..
2. Store hoist away from boric acid storage tank area.

M. Jones 12/18/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform has been qualified by analysis and hoist to be stored away as per ART#082. See resolution sheet and calc. #13-02-01-01.

S. Hanusiak 03/30/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/31/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 09/01/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
8/15/84

PACIFIC GAS & ELECTRIC CO.  
 TABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-03-09-01FIRE ZONE 3X LOCATION Aux/Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100', Boric Acid Transfer Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Heat Tracing Cable (Misc.)SOURCE CODE: M-RATPP1-1TARGET:  
Boric Acid Transfer Pump 1-1TARGET CODE: E-R-3X

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
 Tracing cable not supported away from pump lubricator (inboard), could topple  
 lube oil storage glass, causing loss of lubricant makeup and subsequent  
 bearing damage.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Tie cable in bundles away from pump.

M. Jones 06/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 See ART #040. Resolved by Modification.

J. E. Herbst 01/20/81  
DISCIPLINE ENGINEER/DATE

S. Auer 09/13/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAW

S. E. Traisman 09/01/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-03-09-02

FIRE ZONE 3-X LOCATION Auxiliary Building FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 105', col. 17.4 between T and U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Equipment hatch grating. SOURCE CODE: C-GRATING

TARGET: BA transfer pump 1-1 motor. TARGET CODE: M-BATPP

POSTULATED INTERACTION: Hatch cover falls through opening and impacts target. PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify Hosgri seismic event not capable of moving hatch cover out of its normal position.

S. E. Traisman 08/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hatch cover has been seismically qualified. See resolution sheet and Calc. No. 13-03-09-02.

S. Gaballah 12/22/82  
DISCIPLINE ENGINEER/DATE

S. Sarkar 12/22/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G  
3/11/79



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-03-09-03 INTERCOMP

FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
EL 100' Col 18 Between T and U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Acid, caustic day tanks; makeup mixed bed demins (EL 115 fire zone 3-AA) SOURCE CODE: M-TANK

TARGET: BA transfer pump 1-1 motor. TARGET CODE: M-BATPP1-1

POSTULATED INTERACTION: Tank supports fail, tank ruptures and/ or flanges at nozzles fail resulting in water/acid/caustic impingement on motor one elevation below. The two elevations communicate via equip hatch with grating. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify motor can withstand the postulated liquid impingement.

S. E. Traisman 08/04/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Source component has been protected and qualified by analysis. See resolution sheet and Calc. #13-03-09-03.

S. Gaballah 02/12/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 02/22/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 03/17/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*SG*  
*7/28/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-03-10-01 INTERCOMP

FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

EL 105' col. 17.4 between T and U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Equipment hatch grating.

SOURCE CODE: C-GRATING

TARGET:

Transfer pump 1-1 disc. to BA filter, line 71-2".

TARGET CODE: P-0071-2

POSTULATED INTERACTION:

Hatch cover falls through opening and impacts target.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify Hosgri seismic event not capable of moving hatch cover out of its normal position.

S. E. Traisman 08/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hatch covers have been seismically qualified. See resolution sheet and IDS file #13-03-09-02.

S. Gaballah 12/22/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 12/22/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/5/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-03-13-01 INTERCOMPFIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

EL 105' col. 17.4 between T and U.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Equipment hatch grating.

SOURCE CODE: C-GRATING

TARGET:  
 Conduit K9440-2".

TARGET CODE: E-K9440-2

POSTULATED INTERACTION:  
 Hatch cover falls through opening and impacts target.

PHENOMENA CODE: LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify Hosgri seismic event not capable of moving hatch cover out of its normal position.

S. E. Traisman 08/03/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hatch covers have been seismically qualified. See resolution sheet and IDS file #13-03-09-02.

S. Gaballah 12/22/82  
 DISCIPLINE ENGINEER/DATE

B. Sarkar 12/22/82  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-04-07-02 INTERCOMP

FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 El 100' col 18 between T and U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Handrails over drum hoist and pipe trench.

SOURCE CODE: C-HANDRAIL

TARGET:  
 BA transfer pump motor 1-2.

TARGET CODE: M-BATPP1-2

POSTULATED INTERACTION:  
 Handrails come lose, impact motor.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify integrity of handrail by simplified analysis.

S. E. Traisman 08/04/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Handrails have been seismically qualified by analysis. See resolution sheet and calc. #13-04-07-02.

S. Gaballah 02/10/83  
 DISCIPLINE ENGINEER/DATE

B. Sarkar 02/22/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 03/17/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

*S.S.*  
*3/15/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-04-11-01 INTERCOMP

FIRE ZONE 3-X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
EL 105' col. 17.4 between T and U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Equipment hatch grating.

SOURCE CODE: C-GRATING

TARGET:  
Conduit K9441-2".

TARGET CODE: E-K9441-2

POSTULATED INTERACTION:  
Hatch cover falls through opening and impacts target.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify Hosgri seismic event not capable of moving hatch cover out of its normal position.

S. E. Traisman 08/03/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Hatch covers have been seismically qualified. See resolution sheet and IDS file #13-03-09-02.

S. Gaballah 12/22/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 12/22/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SS  
7/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-09-01-02 INTERCOMP

FIRE ZONE 3-S LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

EL 130' between cols. 16.8/17.4 and T/U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Equipment hatch cover in hot shop, EL 140'.

SOURCE CODE: C-COVER

TARGET:

BA tank 1-1.

TARGET CODE: M-BAT1-1

POSTULATED INTERACTION:

Equipment hatch falls through opening and impacts BA tank nearby.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify Hosgri Seismic Event not capable of moving hatch cover out of its normal position.

S. E. Traisman 08/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Equipment hatch cover has been seismically qualified by analysis. See attached Calc. 13-09-01-02, Rev. 1.

S. Gaballah 01/24/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 01/27/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO HAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
7/23/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 STATISTICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-09-02-01FIRE ZONE 3X LOCATION Aux/Fuel Handling FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Flv. 100', Area K, (T, 16<sup>B</sup>), on ceiling inside interior cavity through narrow passageway.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Empty conduit coming through ceiling.

SOURCE CODE: E-K9736-1TARGET:

K9736 conduit.

TARGET CODE: F-R-3XPOSTULATED INTERACTION:

The free end of the empty conduit will impact K9736.

PHENOMENA CODE: DIFFICTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of K9736, remove the empty conduit, or support the free end.

Edward Denison 06/10/81WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*ACTS* Secure as required free end of empty conduit to prevent damage to K9736.  
 See ART #214. Resolved by Modification.

A. G. Barta 07/23/81DISCIPLINE FMGR/DATES. Auer 09/13/84FMGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&C PSE NPO MAN

FINAL VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

A. B. Barta 07/23/81  
SIP PROJECT FMGR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-09-02-02FIRE ZONE 3X LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, (S-T, 16° - 17°), on ceiling.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

5" od (w/insulation) pipe and 7" od (w/insulation) pipe, both going to the BA PP J-1.

SOURCE CODE: NS-TTARGET:

K9737 1" conduit

TARGET CODE: F-K9737-1POSTULATED INTERACTION

Postulated heat damage to the conduit K9737 is touching the 7" pipe and slightly cuts the insulation of the 5" pipe.

PHENOMENA CODE ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM

Ensure integrity of the conduit by analysis.

Edward Dennison 07/08/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by analysis described in RICA Report #50.

S. Motiwalli 09/30/81

DISCIPLINE ENGINEER/DATE

R. L. Cloud 10/27/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE FMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 11/02/82

SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-10-01-03FIRE ZONE 3AA LOCATION Auxiliary Bldg. FLOOR ELEVATION 125'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 125', Near BA Storage Tank 1-2

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
4" Boric Acid Batch tank solids fill pipeSOURCE CODE: P-ULB-3AATARGET:  
BA storage tank 1-2 and associated piping and instrumentationTARGET CODE: M-BAT1-2POSTULATED INTERACTION:  
Large lateral deflection of 4" pipe results in failure of existing supports and subsequent collapse of the pipe.PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral support at free end of pipe over the BA batch tank.M. Jones 06/03/83  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Existing Boric Acid batch tank solids fill pipe will be removed by ART 345.C. R. Van Natta 02/11/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 02/15/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NANS. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-10-01-04FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, near BA storage tank 1-2

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform (elev. 122), overhead hoist.

SOURCE CODE: M-HOIST-3AATARGET:

BA storage tank 1-2.

TARGET CODE: M-BAT1-2POSTULATED INTERACTION:

Platform falls, impacts tank due to hoist falling on platform or platform failing due to its own weight.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Ensure integrity of platform by simplified analysis. Include pipe support loads imposed on the platform in the analysis.
2. Store hoist away from boric acid storage tank area.

M. Jones 12/18/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platform has been qualified by analysis and hoist to be stored away as per ART. #083. See resolution sheet and referenced calc. #13-01-01-01.

S. Hanusiak 04/02/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-10-01-05

FIRE ZONE 3-AA LOCATION Aux/Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', near BA storage tank 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Boric acid batch tank. SOURCE CODE: M-TANK

TARGET: Boric acid batch tank. TARGET CODE: M-BAT1-2

POSTULATED INTERACTION: Batch tank overturns, impacts storage tank, etc. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure that batch tank will not overturn (by analysis).

M. Jones 12/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Support legs of tank and pedestal have to modified as shown in DCN DC1-SC-13454.  
See Calc. No. 13-10-01-05.

N. Makam 07/28/83  
DISCIPLINE ENGINEER/DATE

F. Morsy 07/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 01/19/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/26/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
3/15/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-10-01-06 INTERCOMP

FIRE ZONE 3-S LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

EL 130' between cols. 16.8/17.4 and T/U.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Equipment hatch cover in hot shop, EL 140'.

SOURCE CODE: C-COVER

TARGET:

BA tank 1-2.

TARGET CODE: M-BAT1-2

POSTULATED INTERACTION:

Equipment hatch falls through opening and impacts BA tank nearby.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify Hosgri Seismic Event not capable of moving hatch cover out of its normal position.

S. E. Traisman 08/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Equipment hatch cover has been seismically qualified by analysis. See resolution sheet, and IDS file #13-09-01-02.

S. Gaballah 01/24/83  
 DISCIPLINE ENGINEER/DATE

B. Sarkar 01/27/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-10-02-01

FIRE ZONE 3-AA LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115', (S-T, 17' - 18).

J

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Temporary air lift scaffolding.

SOURCE CODE: NS-CD

TARGET:  
Conduit K9738-1" (off the RA storage tank 1-2).

TARGET CODE: E-K9738-1

POSTULATED INTERACTION:  
Rolling scaffold impacts the conduit.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove the scaffold prior to start-up.

E. Danison 07/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Scaffold will be removed as directed by NPPR #DC1-83-NO-PO011.

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

J. Townsend  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EF EMS ENG [GC] HVAC I&C PSE NPO NAN

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-11-02-01FIRE ZONE 3AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 119, Near BA Storage Tank 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixtures (2)

SOURCE CODE: H-LF-3AATARGET:

Air supply tubing to HCV-104

TARGET CODE: I-HCV104POSTULATED INTERACTION:

Fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixtures.

M. Jones 11/18/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 5. This fixture has been qualified by analysis per Calc. No. 52.24.52, No further action necessary. Resolved by analysis.

Acc

J. Swaim 03/28/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/28/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 05/25/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-11-02-02FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

.Elev. 119', near BA storage tank 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Boric acid batching tank acid fill line, 3".

SOURCE CODE: P-ULB-3AATARGET:

Air supply tubing to HCV-104.

TARGET CODE: I-HCV104POSTULATED INTERACTION:

Fill line falls due to lack of support, impacting tubing.

PHENOMENA CODE: PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add restraint to fill line near top of BA batching tank.

M. Jones 11/18/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS's 13-10-01-03, 13-11-02-02, and 13-12-02-01 have a common source. Their common source is the 4" boric acid batch tank solids fill line. IDS's 13-11-02-02 and 13-12-02-01 incorrectly identified their source line as a 3" boric acid batching tank fill line. The source line associated with IDS's 13-10-01-03, 13-11-02-02, and 13-12-02-01, 4" boric acid batch tank solids fill pipe, has been removed per ART-345. Therefore IDS 13-12-02-01 has been resolved per ART 345.

S. Skochko 06/18/84

DISCIPLINE ENGINEER/DATE

S. Chitnis 07/24/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO MAN

S. E. Traisman 01/19/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/26/84

SIP PROJECT ENGINEER APPROVAL/DATE

Sw

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-11-06-01FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 119', near BA storage TK1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Components.

SOURCE CODE: NS-CDTARGET:

1/4" stainless steel tubing to LT 102.

TARGET CODE: I-I.T102POSTULATED INTERACTION:

Tubing is very exposed to a high traffic area. Practically any object hitting tubing could damage it.

PHENOMENA CODE: HOUSEKEEPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Since tubing is very fragile and exposed, it is recommended that the tubing be shielded from any possible impact.

P. Anderson 06/17/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved per ART 227.

DISCIPLINE ENGINEER/DATEE. M. Valeriano 01/29/82  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 06/10/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-12-01-01FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 115, near BA storage tank 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform (elev. 122), overhead hoist.

SOURCE CODE: M-HOIST-3AATARGET:

Actuator to HCV-105.

TARGET CODE: I-HCV105POSTULATED INTERACTION:

Platform falls, impacts actuator due to hoist falling on platform or platform failing due to its own weight.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Ensure integrity of platform by simplified analysis. Include pipe support loads imposed on the platform in the analysis.
2. Store hoist away from boric acid storage tank area.

M. Jones 12/18/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platform has been qualified by analysis and hoist to be stored away as per ART 081. See resolution sheet and referenced Calc. No. 13-02-01-01.

S. Hanusiak 03/30/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/31/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAMS. E. Traisman 08/31/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/28/82

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-12-02-01FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 119', near BA storage tank 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Boric acid batching tank acid fill line, 3".

SOURCE CODE: P-ULB-3AATARGET:

Air supply tubing to HCV-105.

TARGET CODE: I-HCV105POSTULATED INTERACTION:

Fill line falls due to lack of support, impacting tubing.

PHENOMENA CODE: PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add restraint to fill line near top of BA batching tank.

M. Jones 11/18/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

IDS's 13-10-01-03, 13-11-02-02, and 13-12-02-01 have a common source. Their common source is the 4" boric acid batch tank solids fill line. IDS's 13-11-02-02 and 13-12-02-01 incorrectly identified their source line as a 3" boric acid batching tank fill line. The source line associated with IDS's 13-10-01-03, 13-11-02-02, and 13-12-02-01, 4" boric acid batch tank solids fill pipe, has been removed per ART-345. Therefore IDS 13-12-02-01 has been resolved per ART 345.

S. Skochko 06/18/84DISCIPLINE ENGINEER/DATES. Chitnis 07/24/84ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 01/19/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/26/84SIP PROJECT ENGINEER APPROVAL/DATE

Swi

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-12-02-02FIRE ZONE 3AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 119, Near BA Storage Tank 1-2 Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Light fixtures (2)

SOURCE CODE: E-1F-3AATARGET:

Air supply tubing to HCV-105

TARGET CODE: I-HCV105POSTULATED INTERACTION:

Fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURFRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixtures.

M. Jones 11/18/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*AGB* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 5. This fixture has been qualified by analysis per Calc. No. 52.24.52, No further action necessary. Resolved by analysis.

J. Swaim 03/28/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 13-12-07-01FIRE ZONE 3AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 115, BA Storage Tank 1-1 Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead Light fixture, (ball & socket joint). SOURCE CODE: E-1F-3AA

TARGET: Tubing to Lt 104 TARGET CODE: I-I.T104

POSTULATED INTERACTION: Fixture falls, impacts tubing near instrument panel 117 PHENOMENA CODE: FJXTURF

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by Analysis

M. Jones 06/03/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Asp* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 5. This fixture has been qualified by analysis per Calc. No. 52.24.52. No further action necessary. Resolved by analysis.

J. Swaim 03/28/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

Lee Horn 05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-07-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, mid-room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
None.

SOURCE CODE: SQ

TARGET:  
Valves 8923A, FCV-356, 363.

TARGET CODE: M-8923A+

POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
Valve upperstructure is slender and unsupported, could fail under seismic loads.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Check qualification of valve 8923A, etc. to ensure structural integrity.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Upperstructure qualified by analysis. See Resolution Report No. 16 and Calc's.

DISCIPLINE ENGINEER/DATE

J. A. Ante 03/18/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*aw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-09-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, near containment penetration 50.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Spring hanger B268

SOURCE CODE: P-2570-0.75TARGET:

Line 2570-3/4", SIS pump 1-1 Disch. test line.

TARGET CODE: P-2570-0.75POSTULATED INTERACTION:

Lateral deflection of spring hanger results in impact with line 2570.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add lateral support to spring hanger can by attaching to nearby steel to preclude impact with line 2570.

M. Jones 04/29/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Adding lateral support to spring hanger is not possible. Therefore the target (line 2570-3/4") is shield by modify of existing support DWG. 161-03 Rev. 3 and DWG. 049339 SHT. 129., which will resolve the interaction.

C. R. VanNatta 02/10/83

DISCIPLINE ENGINEER/DATE

J. A. Longworth 02/10/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Baker 08/02/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-22-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Near wall 15.7, col. R, elev. 100

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead 3" pipe, rod supports 13 ft. OC, L1595 not insulated. 1/2" rods on U-Bolt, 1/2" hanger rod. SOURCE CODE: P-ULB-3BB

TARGET: Line 735, SI pump suction. TARGET CODE: P-0735-8

POSTULATED INTERACTION: Rod supports fail - do not meet 831.1 spacing requirements. PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Analyze span to verify integrity of supports and/or piping.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Rod supported qualified by analysis, see attached Resolution Report No. 5

P. Ante 10/24/80  
DISCIPLINE ENGINEER/DATE

A. Ante  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-23-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
.Elev. 100, between col. 15.7 & R.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
N<sub>2</sub> supply pipe.

SOURCE CODE: P-4082-1

TARGET:  
Valve 8804B.

TARGET CODE: I-8804B

POSTULATED INTERACTION:  
N<sub>2</sub> pipe falls on valve 8804B due to absence of U-bolt pipe supports which were removed.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing U-bolts to N<sub>2</sub> supply pipe.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Supports 339-282R & 339-295R were issued per DCN DC1-SP-17700 to resolve this interaction.

E. L. Green 02/23/84  
DISCIPLINE ENGINEER/DATE

K. M. Krause 03/20/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. G. Chesnut 04/17/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 05/15/84  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-29-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Flev. 100, mid-room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Actuator to valve FCV-363.SOURCE CODE: M-FCV363TARGET:  
Saf. Inj. line 3849-4".TARGET CODE: P-3849-4POSTULATED INTERACTION:  
Actuator is touching line 3849, could damage pipe during seismic event.PHENOMENA CODE: DFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Rotate valve or actuator away from line 3849.M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Valve FCV-363 rotated up 45°. Refer to sketch and Iso. Dwg. 14-13 mark-up, per DCN DCJ-EP-5547, Rev. 1. Also see RLCA #10.C. R. VanNatta 01/18/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 01/19/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. F. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-101-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Inside missile shield, elev. 91', loop 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" drain line-overhead, socket welded (scupper drain from RCP drip pans).

SOURCE CODE: P-4397-2TARGET:

Line 2000-3/4" SI test line.

TARGET CODE: P-2000-0.75POSTULATED INTERACTION:

2" line falls on line 2000 due to failure of hangers or mechanical couplings.

PHENOMENA CODE: SPTFAIL/PIPFFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add vertical support bracket to structural steel to protect line 2000 from overhead falling pipe.

M. Jones 04/08/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bilat support added over line 2000 to secure scupper drain pipe per ART 006.

R. W. Eschenburg 11/12/80

DISCIPLINE ENGINEER/DATE

S. Chitnis 07/24/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Jones 02/24/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/30/82

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-101-02FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7"

## LOCATION WITHIN FIRE ZONE:

Elev. 110', near pressurizer.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Hanger rod clevis and attaching lugs of Class I hanger 52-38. SOURCE CODE: P-2000-0.75

TARGET: Line 2000-3/4" - SIS accum. 2 test line. TARGET CODE: P-2000-0.75

POSTULATED INTERACTION: Clevis and lugs impact line 2000 due to close proximity. PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Relocate line 2000 to preclude contact with hanger clevis and lugs.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger rod has been modified where clevis &amp; lug are no longer in contact with pipe. See ART 002.

R. W. Eschenburg 10/22/80  
DISCIPLINE ENGINEER/DATE

S. Chitnis 07/24/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Jones 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-101-03

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 110'-9"

LOCATION WITHIN FIRE ZONE:  
Elev. 110', near pressurizer.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
None.

SOURCE CODE: NS-MISC

TARGET:  
Spring hanger No. 2180-7 to line 2000.

TARGET CODE: PS-2000-0.75

POSTULATED INTERACTION: PHENOMENA CODE: HOUSEKEEP  
Spring hanger is not set to take deadweight load, could compromise pipe integrity.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Set spring hanger to accomodate deadweight load.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Spring can hangar correctly set (see SIP walkdown No. 38 notes).

DISCIPLINE ENGINEER/DATE S. Harris 02/19/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO NAN

S. Harris 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SS

POSTULATED INTERACTION NO.: 15-01-112-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91', 315°, near containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: P-IAH-1A  
Overhead copper tube, loosely supported (abandoned containment test pressure apparatus).

TARGET: TARGET CODE: P-0249-0.75  
line 249.

POSTULATED INTERACTION: PHENOMENA CODE: DEFECT  
Tube lateral movement impacts pipe (line 249).

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Tube of insufficient mass to damage pipe, however remove tube for completeness.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Tube removed per work request No. C-443.

B. Gragg 05/12/80  
DISCIPLINE ENGINEER/DATE

F. Russel 05/13/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE FMS ENG [GC] HVAC I&C PSE NPO NAN

S. F. Traisman 02/19/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-116-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 110, 180°, near penetration 51.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1"-N<sub>2</sub> line, supported by 57N/127R hanger.SOURCE CODE: P-USB-1ATARGET:Line 524 - 3/4TARGET CODE: P-0524-0.75POSTULATED INTERACTION:lateral protection of 1" line impacts test connection to line 524, near containment penetration 51.PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:Add restraint to 57N/9R hanger to preclude lateral movement of 1" line.M. Jones 04/08/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Pipe support added per RICA Resolution Report No. 4 and ART No. 135. Test connection was shortened to preclude impact with 1" N<sub>2</sub> pipe.M. G. Jones 07/14/80DISCIPLINE ENGINEER/DATEJ. A. Ante 07/14/80ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANM. Jones 02/23/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 09/30/82SIP PROJECT ENGINEER APPROVAL/DATE

AW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-01-116-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
200', Elev. 91, near containment wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 1" horizontal stainless steel primary water line. SOURCE CODE: P-USB-1A

TARGET: Line 524 - 3/4" - safety injection test line. TARGET CODE: P-0524-0.75

POSTULATED INTERACTION: 1" line reflects laterally, impacts line 524. PHENOMENA CODE: OFFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install seismic stop on support 56N/104R to reduce lateral reflection of 1" primary water line.

M. Jones 04/08/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe support added per RLCA Resolution Report No. 4 and ART No. 135. Bilateral support added.

M. G. Jones 07/14/80  
DISCIPLINE ENGINEER/DATE

J. A. Ante 07/14/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO MAN

M. Jones 02/24/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

J. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET, (IDS)

POSTULATED INTERACTION NO.: 15-01-187-01FIRE ZONE 3-BR LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 106', azimuth 152°, 3' from containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Steel platform 103GF, elev. 106'-6".

SOURCE CODE: C-103GFTARGET:

Test connection valve handwheel (3/4" T-58 valve) and test connection cap off of line 1181- 3/4".

TARGET CODE: P-1131-0.75POSTULATED INTERACTION:

Clearance between handwheel and platform approx. 1/8". Clearance between test connection cap and structure approximately 1/8". Relative motion between platform and piping causes impact/damage to piping.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Rework platform to provide 2" clearance.

S. F. Traisman 07/27/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platform 103GF has been checked as a Class I structure due to attachment of Class I equipment. The platform has been qualified with modification. See Calcs. No. 52.15.12.9. For modification see DCN No. DC1-EC-13109 RO. Also see TDS files No. 24-181-01-01 for Field Verification Report and DCN DC1-EC-13109.

S. Gaballah 11/28/83DISCIPLINE ENGINEER/DATEJ. K. McCall 11/28/83ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. F. Traisman 02/24/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 04/20/84SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-02-03-01FIRE ZONE 3-RR LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100', intersection of col. 15.7 &amp; A.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" galvanized line 3108.

SOURCE CODE: P-3108-2TARGET:

Electrical conduit K6497.

TARGET CODE: E-K6497-3POSTULATED INTERACTION:

lateral deflection of 2" pipe impacts conduit K6497.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Verify that conduit K6497 is needed for shutdown.
2. If K6497 is needed for shutdown, add lateral restraint, line 3108.

M. Jones 05/07/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:Added U-bolt assembly per DCN DCJ-F-M-702 and Resolution Report No. 3,  
Rev. 1.R. W. Eschenburg 07/07/80

DISCIPLINE ENGINEER/DATE

S. Chitnis 08/01/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. F. Traisman 02/14/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 02/16/83

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-02-06-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Adjacent to panel PM-87  $\approx$  4" from containment wall at azimuth 160°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Battery operated light fixture and its assoc. power conduit.  
SOURCE CODE: F-LF-BOL

TARGET: Inst. tubes to FT-922 (SI pump discharge).  
TARGET CODE: I-FT922

POSTULATED INTERACTION: Light fixture mounting fails fixture pulls its conduit off the wall and conduit damages adjacent target inst. tubes.  
PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute conduit to preclude interaction or replace existing light fixture with qualified (seismic Class I) fixture.

Note: This IDS is a result of STP review of DCN DC1-FE-17081.

S. Skochko 01/18/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Reroute conduit as shown to preclude postulated interaction (see ART 478). ART 478 has been superceded by ART 532. Resolved by modification.

C. Wong 05/23/84  
DISCIPLINE ENGINEER/DATE

S. Kim 05/27/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. Skochko 06/08/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 06/25/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-03-03-01FIRE ZONE 3-M LOCATION Safety Related Pump FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, area K, near safety injection pump 1-1

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
RHR HX11 to SI pump suctionSOURCE CODE: P-ULB-3MTARGET:  
K9396TARGET CODE: E-K9396-1.25

## POSTULATED INTERACTION:

The pipe restraints allow 1 1/2" of deflection while the conduits is 3/4" away (rigidly supported)

PHENOMENA CODE: DEFLECT

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of K9396 by shimming the support, limiting both seismic and thermal movements to acceptable levels.

E. Denison 6/16/01  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The "as-built" condition indicated in hanger Dwg. 049279 Sheet 133 and 143 Tes. Doc. 4121-0042 satisfactorily resolves this interaction.

C. R. Van Natta 02/28/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 03/01/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

M. Baker 03/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 9/19/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO: 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-03-03-02FIRE ZONE 3-M LOCATION Safety Related Pump FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, erect near Safety Injection Pump 1-1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

RHR HX 1-1 to SI PP Suct.

SOURCE CODE: NS-TTARGET:

Conduit K9396

TARGET CODE: E-K9396-1.25POSTULATED INTERACTION:

The uninsulated pipe is 3/4" away from K9396. Postulated heat damage to the conduit.

PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of wires inside K9396, insulate, or provide additional clearance.

Edward Dennison 06/16/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved per analysis described in RICA Report No. 59.

E. Dennison 12/10/81  
DISCIPLINE ENGINEER/DATE

R. L. Cloud 12/10/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NFO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 03/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-08-03-01

FIRE ZONE 3-M LOCATION Safety Related Pump FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85', area K, near safety injection pump 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Construction deficiency.

SOURCE CODE: NS-CD

TARGET:

Conduit K9240.

TARGET CODE: E-K9240-1.25

POSTULATED INTERACTION:

Poor connection from flex to valve (89748).

PHENOMENA CODE: HOUSEKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Repair connection.

E. Denison 06/10/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Flex conduit K9240 replaced per ART 167.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/16/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF FF FMS FNG [QC] HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82

FJFLD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-09-05-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 100', 8' east of S, 9' north of 15.7.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

2" fire protection line above.

SOURCE CODE: P-SPR-3BB

TARGET:

Conduit K-6341 (3") @ BJK 169.

TARGET CODE: E-K6341-3

POSTULATED INTERACTION:

Fire protection line has not been upgraded and has a long run with only threaded fixed end rod hangers.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add a rigid restraint near BJK 169.

R. I. Cloud 06/09/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Pipe supports added to resolve interaction. See Hanger DWG 049339 Sht. 293 & 329, Rev. 1, in generic DCN-DC1-EP-5061 and pipe support DWG NO. SPR-729, Rev. 1.

C. R. VanNatta 03/21/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 03/21/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

S. E. Traisman 09/21/83

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-14-02-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

7' east of L and 11' north of Col. 15.7, area GE-GW.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line K-1046-6" (STM blowdown TK overflow), (runs E - W).

SOURCE CODE: P-1046-6TARGET:

Air line to valve 8883 (Safety Inj. test line), (runs vertically from valve to ceiling).

TARGET CODE: I-8883POSTULATED INTERACTION:

Source undergoes lateral deflection and impacts target line. 2" ± gap between source and target.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute target line to preclude interaction. -

S. Skochko 02/22/84

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Reroute air line to valve 8883. Air line to be rerouted per the directions of Gen Construction and supported in compliance with PG&E DWG 049238. Local reroute of air line to valve 8883 will preclude interaction between line K-1046-6" and the air line associated with valve 8883.

Note: This interaction is a result of final SIP area walkdown.

S. Skochko 03/16/84

DISCIPLINE ENGINEER/DATE

D. R. Warren 03/20/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NANS. L. Harris 02/23/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 07/03/84

SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED AUG 09 1984

[0014A/0079Z-19] OK *R**SW*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-15-02-02FIRE ZONE 3-R-2 .LOCATION Safety Related Pump FLOOR ELEVATION 64'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 64, (N, 16s), near RHR PP 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Insulated sump pump 1-3 discharge.

SOURCE CODE: NS-TTARGET:

K8545 and K8587 conduit.

TARGET CODE: E-K8545+POSTULATED INTERACTION:

1/2" clearance and insulation missing in local area (postulated heat damage).

PHENOMENA CODE: ENVTRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of the conduits.

Edward Dennison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by analysis described in RLCA Resolution Report #41.

S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATE

R. I. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EF EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-15-02-03FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'

## LOCATION WITHIN FIRE ZONE:

9' east of col-L, 15' north of 15<sup>7</sup>, area GW.

## IDENTIFICATION OF INTERACTING COMPONENTS

## SOURCE:

line K-1750-8", Aux. Steam Supply HDR.SOURCE CODE: P-1750-8

## TARGET:

Conduit K6482-1 1/4 (orange) power to valve 8807A between SI PPS and RCS loops 1 and 2.TARGET CODE: E-K6482-1.25

## POSTULATED INTERACTION:

Source line is supported for dead weight loads with trapeze type hanger which provide little resistance to lateral loads. Lateral motion of line K-1750-8 results in impact with target conduit existing clearance is 3 1/4".PHENOMENA CODE: DEFLCT

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that the deflection of source line is less than existing clearance at interaction points. If necessary provide seismic stop to prevent source line from impacting target. Alternatively, locally reroute conduit and coord with IDS. No. 18-01-17-01.S. Chesnut 02/22/84

WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

DCJ-SP-19878 (support 339-401R) was issued to resolve this interaction. (TDS 18-01-17-03 was called out on both drawings, however by mistake)E. G. Green 04/14/84

DISCIPLINE ENGINEER/DATE

K. M. Krause 04/16/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Skochko 06/01/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 06/18/84

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-18-02-01FIRE ZONE 3-B-1 LOCATION Safety Related Pump FLOOR ELEVATION  
58'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 58, area H (16<sup>8</sup>), near RHR Pump 1-1 and RHR Sump Pump.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

RHR sump pump discharge line vent.

SOURCE CODE: NS-TTARGET:

Conduits K6661 and K6635

TARGET CODE: F-K6661+POSTULATED INTERACTION:3/4" clearance between K6661 and the source.2" clearance between K6635 and the source (postulated heat damage).PHENOMENA CODE: FNVTRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of K6661 and K6635 or reroute the conduits.

Edward Dennison 06/04/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolved by analysis described in RICA Report #40.

S. Motiwalla 08/26/81

DISCIPLINE ENGINEER/DATE

R. L. Cloud 08/28/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO  
NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 11/02/82SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-31-01-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 91', at missile barrier, 270°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Iodine removal unit E-15.

SOURCE CODE: H-E15TARGET:

Valve 8878D.

TARGET CODE: I-8878DPOSTULATED INTERACTION:

Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into valve 8878D.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install hold-down clamps to unit mounting skid to preclude movement of unit.

M. Jones 08/12/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bolts qualified by analysis. See IDS file No. 03-35-02-02.

DISCIPLINE ENGINEER/DATE

D. H. Hagstrom  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/10/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

A/S

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-32-05-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 117', col. 7 at BTX12E, DWG 57687.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Floor grating.

SOURCE CODE: C-GRATING

TARGET:

Conduit K1741-2".

TARGET CODE: E-K1741-2

POSTULATED INTERACTION:

Floor grating close to conduit and could impact if movement occurred.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide clearance between floor grating and conduit.

J. F. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

2" clearance provided between floor grating and conduit, per ART No. 033.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 15-48-02-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 115, area GW, H line.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 SG1-4 FW supply L5567-16".

SOURCE CODE: P-0556-16

TARGET:  
 K6494 and KT628 conduit.

TARGET CODE: E-K6494+

POSTULATED INTERACTION:  
 The pipe is allowed to move longitudinally. The lateral restraint, 3/8" from the conduits, pins targets against the wall.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of the conduits by analysis of both seismic and thermal effects on the steam line.

Edward Denison 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Pipe qualified by analysis. See Resolution Report No. 38.

C. R. VanNatta 06/21/84  
DISCIPLINE ENGINEER/DATE

G. B. Page 10/09/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

Sw

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-02-03-01FIRE ZONE 3-Q-1 LOCATION Safety Related Pump Room FLOOR ELEVATION 110'

LOCATION WITHIN FIRE ZONE:  
 E1, 110', above auxiliary FW pump 1-1

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Temporary line (copper) SOURCE CODE: P-USB-3Q1

TARGET: Conduits KT948 - 1 " TARGET CODE: E-KT948-1

POSTULATED INTERACTION: Temporary line is poorly supported and could fall, impacting conduit. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Provide adequate restraint or-remove line prior to operation.

P. Anderson 06/09/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Judgement made during field walkdown is that source, 1-1/2" copper line, cannot develop enough kinetic energy to damage target. (Ref. SIP manual, Appendix B, page B-17, L-14). Therefore no action necessary.

C. R. Van Natta 07/28/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 08/3/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAW

L. W. Horn 01/18/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-02-03-02FIRE ZONE 3-Q-1 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Above elev. 100; Aux. FW Pump 1-1

## IDENTIFICATION OF INTERACTING COMPONENTS

## SOURCE:

220-4" (See ISO. DWG. 16-63 Rev. 0)SOURCE CODE: P-0220-4

## TARGET:

TKT948

TARGET CODE: E-KT948-1

## POSTULATED INTERACTION:

PHENOMENA CODE: DEFLECT

There exists 1" vertical clearance between source pipe and conduit.  
 Source pipe is well supported but small clearance is midspan and could hit conduit.

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

By analysis show deflection of pipe insufficient to hit conduit.

Paul Anderson 06/09/81  
 WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

\*Supports added per DCN-DC1-EP-5061 DWG. 049229, Sheets: 17 & 66.  
 (299-14R & 62R) \*See Calc. #4.75 (IDS # 16-02-03-02). I have made a Field  
 Inspection and determined that the line which is marked 4378 is incorrectly  
 marked. It should be marked 220 as shown on ISO. DWG. 16-63 Rev. 0.  
 Deflection of line 220 is insufficient to hit conduit KT 948 for the  
 following reasons:

1. Analysis by E. L. Green shows that movement at the point near conduit  
 KT948 is less 1" and therefore will not contact KT948.
2. New supports 299/14R & 62R have been added to line 220 to satisfy stress  
 requirements.

C. R. Van Natta 09/22/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 09/22/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

G. Zaharoff 02/10/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 04/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-02-03-03FIRE ZONE 3-A LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 100, (U-V, 15<sup>7</sup> - 16<sup>8</sup>), on ceiling.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
7" L. hut relief line outlet.SOURCE CODE: NS-TTARGET:  
Conduit KT510-1.50.TARGET CODE: E-KT510-1.50POSTULATED INTERACTION: PHENOMENA CODE: ENVIRON

Postulated heat damage to KT510 by the outlet/exhaust. The clearance between the outlet and conduit is 4 ft.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure the integrity of KT510 by analysis.Edward Dennison 07/08/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis described in RICA Report #41.S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATER. L. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 11/02/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-04-03-02FIRE ZONE 3-R LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
EL 115' COLS 11 and V

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Misc. Rolling equipment in corridor.SOURCE CODE: N-MISC-3RTARGET:  
Conduit KT 980-1"TARGET CODE: E-KT980-1POSTULATED INTERACTION:  
Misc equipment in corridor rolls/slides into conduit. Conduit runs vertically through corridor at wall.PHENOMENA CODE: LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Relocate or anchor misc. equipment in corridor that will be present during planty operation. Or: Install guard structure around conduit.

S. E. Traisman 04/24/82  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Protective barrier provided per ART 492. See Resolution Sheet and Calc. 01-04-03-02.S. Gaballah 01/09/84  
DISCIPLINE ENGINEER/DATEJ. K. McCall 01/09/84  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. G. Chesnut 04/18/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 05/15/84  
SIP PROJECT ENGINEER APPROVAL/DATE56  
3/15/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-04-03-03FIRE ZONE 3-R LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elevation 115' Cols 11 and V.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 CO<sub>2</sub> fire ext. FE-F115-02-1.

SOURCE CODE: M-FE

TARGET:  
 Conduit KT-980-1".

TARGET CODE: E-KT980-1

POSTULATED INTERACTION: PHENOMENA CODE: LOOSE  
 Fire ext comes off hook, nozzle breaks off, and fire ext. becomes a missile which impacts conduit.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Clamp fire ext in place with a quick release mechanism.

S. E. Traisman 07/21/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Quick release mechanism provided per ART 373. See INS file 01-19-02-07 for modification package.

J. Haake 05/02/83  
 DISCIPLINE ENGINEER/DATE

J. Longworth 05/03/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAM

S. E. Traisman 02/24/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/12/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

D.J.E. 8/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-04-03-05

FIRE ZONE 3-R LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

EL 135' Cols 14 and 11 along cask decon area wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-CRANE-3R  
Misc Appurtenances mounted on fuel HDL Bldg crane.

TARGET: TARGET CODE: E-KT980-1  
Conduit KT 980-1".

POSTULATED INTERACTION: PHENOMENA CODE: MECHFAL  
Appurtenances fall off of crane and impact conduit.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of misc. appurtenances.

S. E. Traisman 07/21/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Provide protective barrier over conduit KT 980-1". See ART No. 405, ART No. 500 and Calc. 16-04-03-05.

S. Gaballah 11/21/83  
DISCIPLINE ENGINEER/DATE

J. K. McCall 11/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. G. Chesnut 05/22/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 06/04/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
7/26/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 16-05-05-01FIRE ZONE 31 LOCATION Aux./Fuel Handling FLOOR ELEVATION 110'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 110' Col Lines V and 12.9

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: RWST, Pipe Vault Structure, and Aux. Bldg. Structure  
SOURCE CODE: C-RSM-31

TARGET: Line 221-18" RWST to ECCS Pumps suction  
TARGET CODE: P-0221-18

POSTULATED INTERACTION: Piping is anchored to RWST, Supported off of pipe vault structure between RWST and Aux. Bldg., and supported off of Aux. Bldg. structure. The three structures have different seismic responses. Relative motion between structures damages piping.  
PHENOMENA CODE: RELSTRUCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify relative motion between the three structures does not damage piping

S. E. Traisman 08/15/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 As a rule for all seismic Class I piping, relative motions between pipes and Flex. equipment, pipe in different buildings is considered in the pipe stress analysis calculations.  
 For the above identified target, SAM (Seismic Anchor Motion) has been considered.

M. R. Tresler (D.C. Unit 1, Stress Group)  
DISCIPLINE ENGINEER/DATE

K. M. Krause 07/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/04/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIARLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-01-01-01FIRE ZONE 3-H-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Charging pump room, elev. 73'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Crane trolley overhead.

SOURCE CODE: C-CRANF-3H1

TARGET:  
Line 1973-6" Boron ins. line.

TARGET CODE: P-1973-6

POSTULATED INTERACTION:  
Longitudinal movement of crane trolley causes trolley hanger bracket to contact line 1973.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add restraint to trolley by installing shear plate to wall located about 2' feet from line 1973.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sway bracing has been added per DCN DCO-GC-2382, DCO-GC-2385, DC1-GC-2415 & DWG 59652, 512482, 29654. See resolution sheet and Calc. No. 17-01-01-01.

S. Hanusiak 04/06/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/06/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 09/01/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 11/08/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-01-05-01FIRE ZONE 3R3 LOCATION Auxiliary Building FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 73', Bit Room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead 1" Line #994SOURCE CODE: P-0994-1TARGET:  
Valve 8803A Power and Control CableTARGET CODE: I-8803APOSTULATED INTERACTION:  
Lateral movement of overhead 1" Line impacts valve cable.PHENOMENA CODE: DEFECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install lateral restraint to Line 994 by removing rod hanger near valve 8803B and installing bracket from ceiling plate to Line 994. U-bolt pipe to bracket.

M. J. Jones 04/30/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Added support by Generic DCN-DC1-EP-5061-PRO-HGR. DWG. 049339-339/270R.

C. R. Van Natta 07/21/83  
DISCIPLINE ENGTNFR/DATEK. M. Krause 07/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/25/83  
SIP PROJECT ENGTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-01-06-01FIRE ZONE 3-B-3 LOCATION Aux./Fuel Handling FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 73, BIT room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead 1" line 994SOURCE CODE: P-0994-1"TARGET:  
Valve 8803B power and control cableTARGET CODE: I-8803BPOSTULATED INTERACTION:  
Lateral movement of overhead 1" line impacts valve cable.PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install lateral restraint to line 994 by removing rod hanger near valve 8803B and installing bracket from ceiling plate to line 994. U-bolt pipe to bracket.

M. Jones 04/30/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS No. 17-01-05-01.C. R. VanNatta 07/21/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 11/16/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAVS. E. Traisman 09/23/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-01-08-02

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, near penetrations 25 & 50.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Structural platforms (2).

SOURCE CODE: C-PLAT-3BB

TARGET:  
Line 2033-4 and other Class I components.

TARGET CODE: P-2033-4

POSTULATED INTERACTION:  
Platforms fall, impact line 2033, etc.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of ladder by simplified analysis.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platforms have been seismically qualified by analysis. See attached resolution sheet and referenced Calc. No. 09-15-01-01, 17-01-08-02.

S. Hanusiak 01/30/81  
DISCIPLINE ENGINEER/DATE

E. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*56  
7/2/84*





PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-01-22-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Penetration 21, elev. 110.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
1" N<sub>2</sub> supply line.

SOURCE CODE: P-USB-1A

TARGET:  
1 - 1/2" line 1992 (loop 2 boron inj.).

TARGET CODE: P-1992-1.5

POSTULATED INTERACTION:  
1" N<sub>2</sub> line contacts line 1992.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add U-bolts to existing support near contact point to preclude movement of N<sub>2</sub> line.

M. Jones 04/16/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Pipe support modified per RLCA Resolution Report No. 4 and ART #135.

M. Jones 07/14/80  
DISCIPLINE ENGINEER/DATE

J. A. Ante 07/14/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Jones 02/23/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

5

POSTULATED INTERACTION NO.: 17-01-22-04

FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91, under loop 2 cold leg.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: NS-CD

TARGET: TARGET CODE: P-1992-1.50  
Boron in injection line 1992-1 1/2".

POSTULATED INTERACTION: PHENOMENA CODE: HOUSEKEEP FNVTRON  
A scaling of the pipe surface near a socket weld coupling was observed.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Penetrant test this portion of the pipe to ensure pipe integrity.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe qualified, see Examination Report 411-80.226.  
July 14, 1980.

DISCIPLINE ENGINEER/DATE L. Killpack  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FF FMS [ENG] GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM L. W. Horn 08/20/82  
(FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-01-58-01

FIRE ZONE 3-RR LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Along RWST, south face, elev. 115'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Condensate storage tank access ladder and personnel cage. SOURCE CODE: C-LANDER

TARGET: Line 2641-4". TARGET CODE: P-2641-4

POSTULATED INTERACTION: Ladder falls, impacts line 2641. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of ladder/cage assembly by simplified analysis.

M. Jones 06/04/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Ladder/cage qualified by analysis. See Calc. No. 17-01-58-01.

S. Hanusiak 08/08/81  
 DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-12-03-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100' at about azimuth 184°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Fire protection pipe (possible source)

SOURCE CODE: P-SPR-3BB

TARGET:  
Conduit K6252

TARGET CODE: E-K6252-2.50

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
Fire protection pipe is supported rigidly onto the containment and the GW area - differential displacement chases impact with conduit — also anchor motion could impose severe stress on pipe.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Examine stress due to seismic anchor motion.

R. L. Cloud 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Pipe qualified by analysis, see Resolution Report No. 23.

H. K. Loey 07/16/81  
DISCIPLINE ENGINEER/DATE

G. B. Page 09/17/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*Sw*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-24-04-01FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 113, at containment wall, 190°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 3/4" conduits (3), running horizontally (KH-736, KH-603). SOURCE CODE: E-R-1A

TARGET: Target conduit is supported to annulus and to containment wall. Relative displacement of containment & annulus steel results in KX-530 impacting source conduits & causing damage to KX-530. TARGET CODE: E-KX530-0.75

POSTULATED INTERACTION: Ensure that impact with source conduits will not damage KX-530. Reroute KX-530 away from containment wall if/as required. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

M. Jones 02/26/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*KJF*  
 Both target and source conduits are 3/4". Due to similarity in mass, impact between conduits as a result of relative displacement of containment & annulus steel would not damage either target or source conduits. No further action necessary. This resolution supercedes previous resolution dated 09/15/82. Resolved by analysis.

R. J. Swaim 05/17/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 05/17/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/04/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 17-25-06-01

FIRE ZONE 7-A LOCATION Electrical Rooms FLOOR ELEVATION 127'-4"

LOCATION WITHIN FIRE ZONE:  
Elev. 128', south of rack #24.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Fire Protection Piping (1-1/2" red). SOURCE CODE: P-USB-7A

TARGET: K1072, K5794. TARGET CODE: E-KT072+

POSTULATED INTERACTION: Fire protection piping could fail due to threaded joints and excessive span PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM.  
Ensure integrity of piping either by analysis r by providing support modification.

P. Anderson 06/04/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Reslved per Hanger DWG 049339 Sht. 131 in DCN DC1-EP-3606.

C. R. VanNatta 01/21/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
STATISTICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-09-01

FIRE ZONE 3-R-3 LOCATION Aux./Fuel Handling FLOOR ELEVATION 63'-0"

LOCATION WITHIN FIRE ZONE:

Column lines N/16, east wall of corridor between RHR pump rooms 1-1 & 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Incandescent wall light fixture, detail 24 of DWG 050041. SOURCE CODE: F-LF-3R3

TARGET: Press. indic. PT-632 (RHR pump disch. press) & associated instr. lines. TARGET CODE: I-PJ632

POSTULATED INTERACTION: One mounting bolt attaching the light fixture to the wall is missing. Light fixture can break off & fall on the target instr. lines and indicator. PHENOMENA CODE: FIXTURF

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install missing mounting bolt to light fixture.

N. Barangan 02/23/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Install missing mounting bolt to light fixture.  
Add missing mounting bolt to incandescent light fixture. Mounting bolt shall match existing size and type. Detail 24 has been previously determined by walkdown team inspection to not be a concern if properly installed. Resolved by modification. See ART 499 for details.

ART 499

C. C. Wong 03/01/84  
DISCIPLINE ENGINEER/DATE

C. Kah 03/05/84  
EMGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CF. [EF] EMS ENG GC HVAC I&C PSE NPO MAN

S. Chesnut 05/16/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/25/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-09-02FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 58'-0"

## LOCATION WITHIN FIRE ZONE:

West Wall of RHR Pump Room 1-2

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Spring can support #72-3V for line S1-1663-8, RHR exchs bypass cross tie

SOURCE CODE: P-1663-8TARGET:

PI-632 process tubing, RHR PP 1-2 suction

TARGET CODE: I-PI632POSTULATED INTERACTION:

Thermal and seismic motion of both line S1-1663-8 and spring can support 72-3V causes impact with target process tubing. Source spring can is in contact w/ target tubing (line S1-1663-8 is in hot condition.)

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute process tubing to preclude interaction.

S. Chesnut 02/21/84  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Reroute 3/8 S.S. inst. tube associated with PI-632. See ART 493.

S. Skochko 02/29/84  
 DISCIPLINE ENGINEER/DATE

D. R. Warren 02/29/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EHS ENG GC HVAC [I&C] PSE NPO NAN

S. G. Chesnut 05/16/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/13/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-13-01

FIRE ZONE 3-8-1 LOCATION Safety Related Pump FLOOR ELEVATION 58'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 58, under stairways leading to RHR Pump Rooms

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Stairways leading to RHR Pump Rooms

SOURCE CODE: C-STAIR-381

TARGET:  
Line 1663-8" RHR Pump discharge cross tie

TARGET CODE: P-1663-8

POSTULATED INTERACTION:  
Stairways fall, impact pipe

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of stairway by simplified analysis

M. Jones 12/10/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Stairways qualified by Analysis, see Resolution sheet and Calc's. No.  
18-01-13-01.

S. Hanusiak 03/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/20/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO HAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-17-03FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 108'-2"

## LOCATION WITHIN FIRE ZONE:

6' west of col. N, 15' north of col. 15<sup>7</sup>, area GW.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line K-1750-8", aux. steam supply HDR.

SOURCE CODE: P-1750-8TARGET:

Line S1-985-12", RHR to RCS H.L. 1 and 2.

TARGET CODE: P-0985-12POSTULATED INTERACTION:PHENOMENA CODE: INTERFERE & DEFLECT

Source line is supported for dead weight loads with trapeze type hangers which provide little resistance to lateral loads. Lateral motion of line K-1750-8 results in impact with target line. Existing clearance is 1 1/2".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that the deflection of source line is less than existing clearance at interaction points. If necessary provide seismic stop to prevent source line from impacting target. Alternatively, coord with IDS 15-15-02-03 and provide impact analysis on RHR line showing interaction is not damaging.

S. Chesnut 02/22/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Two pipe supports were added to source line. DCN DC1-SP-19827 (support 339-400R) was issued to resolve this interaction.

Note: This interaction is a result of Final SIP area walkdown.

E. L. Green 04/13/84  
DISCIPLINE ENGINEER/DATE

K. M. Krause 04/16/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. Skochko 06/01/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/21/84  
SIP PROJECT ENGINEER APPROVAL/DATE

3

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-21-01

FIRE ZONE 3-88 LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Near penetration wall, Elev. 100.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixture.

SOURCE CODE: E-LF-388

TARGET:  
HCV638.

TARGET CODE: I-HCV638

POSTULATED INTERACTION:  
Fixture falls, impacts HCV-638 actuator and attached tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add support to fixture or modify existing support (chain suspension).

M. Jones 04/30/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
Install backup support chain per DGM DCO-FE-5552 Sht. 12 of 13, detail 75.  
Resolved by modification. See ART 348.

AYB

R. J. Swaim 02/23/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-23-01FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Near penetration wall, Elev. 100.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture.

SOURCE CODE: E-1F-3RRTARGET:

Valve 8716A

TARGET CODE: I-8716APOSTULATED INTERACTION:

Fixture falls, impacts valve 8716A actuator and attached tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add support to fixture or modify existing support (chain suspension).

M. Jones 04/30/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category II).  
 Install backup support chain per DCN DCO-FF-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

R. J. Swaim 02/23/84

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/18/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-23-02FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, near outer wall, Col 15.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead 1" and 1-1/2" lines (4604 &amp; 1450) and 4" caustic line.

SOURCE CODE: P-ULB-388TARGET:

Valve 8716A.

TARGET CODE: I-8716APOSTULATED INTERACTION:

Lateral movement of overhead pipe impacts power &amp; control cable to valve 8716A motor operator.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add lateral support to lines (caustic, 4604 &amp; 1450), to preclude deflection.

M. Jones 04/30/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger drawing 049339-339/344R issued under Generic DCN DC1-EP-5061 will prevent all three pipes from interacting with valve 8716A motor operator and, thereby, resolves this interaction. Field verification shows that line 4604 is incorrectly identified as line 3354 and 1-1/2" size of line 1450 is incorrectly shown as 2".

C. R. VanNatta 08/25/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 08/25/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAM

S. E. Traisman 10/14/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 05/01/84

SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED AUG 09 1984

[0014A/0079Z-20] OKF

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-24-01

FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73', RHR HX1-2 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Platforms (2) at elev. 85' & 103".

SOURCE CODE: C-PLAT-3R2

TARGET:  
 Line 1661-8"; RHR bypass.

TARGET CODE: P-1661-8

POSTULATED INTERACTION:  
 Platforms fall, impact line 1661.

PHENOMENA CODE: CIVIL FATI

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platforms by simplified analysis.

M. Jones 04/29/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The platform has been seismically qualified by analysis. (See resolution sheet and referenced Calc. No. 11-01-01-01).

A. M. Appleford 10/04/82  
 DISCIPLINE FMGR/DATE

B. Sarkar 10/04/82  
 FMGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

*S.S.*  
*7/12/84*

L. W. Horn 01/18/84  
 SIP PROJECT FMGR/DATE APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

55

POSTULATED INTERACTION NO.: 18-01-46-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95, mid room, near valve 8734 B.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Stress SOURCE CODE: P-1521-2

TARGET: Line 1662 at tie-in to line 1521. TARGET CODE: P-1662-2

POSTULATED INTERACTION: Existing pipe restraints do not allow for thermal movement of line 1662, resulting in a possible high stress situation. PHENOMENA CODE: SPTFAIL/PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Review thermal analysis of line 1662 to verify that stresses are within limits.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Stresses are within limits per Calc. 10-301, Rev. 4 (07/13/83).

M. Dimalanta 07/27/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 07/29/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-52-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112, mid-room near ceiling.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Pipe hanger 57-25V.

SOURCE CODE: P-0224-8

TARGET:  
Vent pipe to line 224-8".

TARGET CODE: P-0224-8

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
Pipe hanger located near vent to line 224, could contact under seismic loads.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Shorten vent pipe downstream of root valve to provide clearance with hanger 57-25V.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Vent pipe to be shortened as shown on sketch. See ART 347.

B. Abella 01/15/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 02/16/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/03/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DARLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-88-01

FIRE ZONE 3-B-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 73;', RHR HX1-1 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platforms (2) at elev. 85' & 103'.

SOURCE CODE: C-PLAT-3R1

TARGET:  
Drain pipe & manual valve; RHR HX1-1 drain.

TARGET CODE: M-RHRHX1-1

POSTULATED INTERACTION:  
Platforms fall, impact pipe and valve.

PHENOMENA CODE: CTVTI FAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms by simplified analysis.

M. Jones 05/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The platform has been seismically qualified by analysis. (See resolution sheet and referenced calc. No. 11-01-01-01).

S. Gaballah 09/22/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 09/23/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/27/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
9/11/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-01-102-01

FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73', RHR HX 1-2 room.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Platforms (2) at elev. 85' & 103'.

SOURCE CODE: C-PIAT-3R2

TARGET:  
 Line (drain) & manual valve to RHR HX 1-2.

TARGET CODE: M-RHRHX1-2

POSTULATED INTERACTION:  
 Platforms fall, impact pipe valve.

PHENOMENA CODE: CIVIL FAI

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platforms by simplified analysis.

M. Jones 04/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The platform has been seismically qualified by analysis. (See resolution sheet and referenced Calc. No. 11-01-01-01).

A. M. Appleford 10/04/82  
DISCIPLINE ENGINEER/DATE

B. Sarkar 10/04/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS ENG GC HVAC I&C PSE NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

SG  
 9/12/77

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-02-03-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117', col. 7 at RTX12F, DWG 57687.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating.

SOURCE CODE: C-GRATING

TARGET:  
K1741 conduit.

TARGET CODE: E-K1741-2

POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE & DEFLECT  
Floor grating close to conduit and could impact if movement occurred.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between floor grating and conduit.

J. G. Grant 09/17/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Minimum clearance around the conduit has been provided per ART No. 034.  
Note: This IDS is duplicate with IDS #15-32-05-02.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE FMS ENG GC HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 02/17/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*S: 5/21/81*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-03-08-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117' near missile barrier.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Floor grating below BTX24F.

SOURCE CODE: C-GRATING

TARGET:  
Conduit 1731.

TARGET CODE: E-K1731-2.50

POSTULATED INTERACTION:  
Grating impacts conduit.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Provide clearance between grating and conduit.

J. Grant 04/02/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Min. 2" clearance around the conduit has been provided per ART 035.

S. Hanusiak 01/16/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

S. Harris 02/17/87  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/87  
SIP PROJECT ENGINEER APPROVAL/DATE

56  
8/15/87

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-05-01-01FIRE ZONE 3B1 LOCATION Safety Related Pump FLOOR ELEVATION 56'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 56, RHR Pump 1-1 Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead Light fixtures (Ball/Socket mount)SOURCE CODE: E-LF-3B1TARGET:  
RHR Pump 1-1TARGET CODE: M-RHRPP1-1POSTULATED INTERACTION:  
Fixtures fall, impact pump.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by simplified analysis.M. Jones 4/29/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 5. This fixture has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

AGB  
7/25/84

R. J. Swaim 03/28/84  
DISCIPLINE ENGINEER/DATEG. Bhatt 03/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS EHG GC HVAC I&amp;C PSE NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-05-01-02FIRE ZONE 3-R-1 LOCATION Safety Related Pump FLOOR ELEVATION 56'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 56' RHR Pump1-1 and associated piping.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead crane monorail and hoist.

SOURCE CODE: C-CRANE-3B1TARGET:

RHR pump1-1 and associated piping.

TARGET CODE: M-RHRPP1-1POSTULATED INTERACTION:

Monorail falls, impacts pump.

PHENOMENA CODE: MECHFALLRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of monorail and verify that hoist is secured into position.

M. Jones 04/29/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source component was seismically qualified subject to modification per DWG No. 512482 (detail "F") and ART No. 439 which is superseded by ART 527.

Resolved per ART 527. See interaction resolution sheet and

Calc. No. 18-05-01-02.

S. Hanusiak 04/06/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/06/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. Skochko 06/08/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 07/03/84

SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED 3/1/84 9/1/84  
AUG 9 1984

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-05-01-03

FIRE ZONE 3-B-1 LOCATION Safety Related Pump FLOOR ELEVATION 56'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 56' RHR Pump 1-1 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

SOURCE CODE: C-RSM-3B1

TARGET:

TARGET CODE: M-RHRPP1-1

Seal Water vent and other similar vents to RHR Pump 1-1

POSTULATED INTERACTION:

PHENOMENA CODE: RELSTRUCT

Vents are fixed to support structure, will fail due to movement of pump.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove vent pipe support to provide requisite pipe flexibility.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution OK. See Pipe Support DWG. No. 72-48 Rev. 8

C. R. Van Natta 08/30/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/30/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-09-01-01FIRE ZONE 3-B-1 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 112' in RHR HX vault 1-1, 15.7 and 1.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Concrete hatch cover for RHR HX vault.

SOURCE CODE: C-COVERTARGET:

RHR HX 1-1.

TARGET CODE: M-RHRHX1-1POSTULATED INTERACTION:

Hatch cover falls through opening and impacts RHR HX.

PHENOMENA CODE: LOOSERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Hatch cover falls through opening and impacts RHR HX.

S. E. Traisman 09/18/87  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Concrete hatch cover has been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 18-20-01-01.

S. Gaballah 01/22/83  
 DISCIPLINE EMGTNFR/DATE

B. Sarkar 01/27/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/31/82  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
 SIP PROJECT EMGTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-10-03-02

FIRE ZONE 3-BR LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125, area GF, (S).

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Rod hanger to 3" pipe.

SOURCE CODE: PS-ULR-3BB

TARGET:  
K6474 (from BJJ 114).

TARGET CODE: E-K6474-3

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAT  
Rod hanger to pipe is attached to 3" conduit instead of steel or concrete support.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove rod hanger from conduit and attach to the ceiling.

P. Anderson 06/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
OPFG-piping field inspected the interaction and found that the rod hanger is not attached to the conduit but to the ceiling. Therefore no modification is necessary.

C. R. VanNatta 08/04/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] PO MAN QC

FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-11-01-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 104, 15 ft. west of north line, 8 ft. N of 15.7.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Unistrut personnel barrier for TE-639.

SOURCE CODE: C-SHIELDTARGET:

TE-639.

TARGET CODE: I-TE639POSTULATED INTERACTION:

Barrier rests on conduit connecting TE-639 to pipe thermowell. Barrier vertical motion could damage TE-639.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install vertical bracing to barrier or remove barrier.

M. Jones 05/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Install vertical bracing to personnel barrier per ART 349.

E. M. Valeriano 09/13/82

DISCIPLINE ENGINEER/DATE

F. Mori 06/29/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NANS. E. Traisman 02/24/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-11-01-02FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 104, 15 ft. W of N line 8 ft. n of 15.7.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture.

SOURCE CODE: F-LF-388TARGET:

TF-639.

TARGET CODE: J-TF639POSTULATED INTERACTION:

light fixture falls, impacts TF-639.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 05/05/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, detail 8 (category II). Install backup support chain per DCN DCO-FE-5552 Sht. 12 of 13, detail 75. Resolved by modification. See ART 348.

R. J. Swaim 02/23/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/18/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/09/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-13-01-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 90, at N line, 3' south of line 15.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: light fixture. SOURCE CODE: E-LF-3RR

TARGET: Tubing to FT-640. TARGET CODE: I-FT640

POSTULATED INTERACTION: Light fixture falls, impacts tubing. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 05/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category II). Install backup support chain per DCN DCO-EF-5552 Sht. 12 of 13, detail 75. Resolved by modification. See ART 348.

ACTS

R. J. Swaim 02/23/83  
DISCIPLINE ENGINEER/DATE

C. C. Bhatt 02/23/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-14-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 103, 345° near PRT.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Light fixture.

SOURCE CODE: E-LF-1A

TARGET:  
Power control cable to valve 8703.

TARGET CODE: I-8703

POSTULATED INTERACTION:  
Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixture.

M. Jones 03/11/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Fixture qualified by analysis. See Civil Calc. 52.74.52, Rev. 1 & 2.

AGB

R. J. Swaim 01/26/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 01/26/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/12/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-16-01-01FIRE ZONE 382 LOCATION Safety Related Pump FLOOR ELEVATION 56'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 56, RHR Pump 1-2 Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead Light fixtures (Ball/Socket mount)SOURCE CODE: E-LF-382TARGET:  
RHR Pump 1-2TARGET CODE: M-RHRPP1-2POSTULATED INTERACTION:  
Fixtures fall, impact pump.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by simplified analysis.M. Jones 4/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*act* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 5. This fixture has been qualified by analysis per Calculation 52.24.52.  
 No further action necessary.

R. J. Swaim 03/28/83  
DISCIPLINE ENGINEER/DATES. Auer 03/28/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

Lee Horn  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)05/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-16-01-02

FIRE ZONE 3-B-1 LOCATION Safety Related Pump FLOOR ELEVATION 56'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 56' RHR Pump 1-2 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-RSM-382

TARGET: TARGET CODE: M-RHRPP1-2  
Seal Water vent and other similar vents to RHR Pump 1-1

POSTULATED INTERACTION: PHENOMENA CODE: RELSTRUCT  
Vents are fixed to support structure, will fail due to movement of pump

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove vent pipe support to provide requisite pipe flexibility.

M. Jones 04/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Recommended resolution OK. Pipe Support DWG. No. 72-50 Rev. 11 and  
72-132 Rev. 2

C. R. Van Natta 08/30/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/30/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 11/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-16-01-03FIRE ZONE 3-B-2 LOCATION Safety Related Pump FLOOR ELEVATION 56'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 56', RHR Pump1-2 room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead falls, impacts pump.SOURCE CODE: C-CRANE-3B1TARGET:  
RHR pump1-1 and associated piping.TARGET CODE: M-RHR1-2POSTULATED INTERACTION:  
Monorail falls, impacts pump.PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of monorail and verify that hoist is secured into position.

M. Jones 04/29/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Source component was seismically qualified subject to modification per DWG 412482 (detail "F") and ART 439. See interaction sheet and Calc. No. 18-05-01-02.

S. Hanusiak 04/06/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/06/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. Skochko 06/08/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 07/03/84

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-20-01-01  
Safety Related  
FIRE ZONE 3-8-2 LOCATION Pump Rooms FLOOR ELEVATION 115'

LOCATION WITHIN FIRE ZONE:  
El 112' in RHR HX Vault 1-2, 15.7 and R

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Concrete Hatch Cover for RHR HX Vault SOURCE CODE: C-COVER

TARGET: RHR HX 1-2 TARGET CODE: M-RHRHX1-2

POSTULATED INTERACTION: Hatch Cover Falls Through Opening and Impacts RHR HX PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify HOSGRI Seismic Event not Capable of Moving Hatch Cover Out of its Normal Position

S.E. Traisman 7/28/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Concrete Hatch Cover has been Seismically Qualified by Analysis. See Calc. No., 18-20-01-01.

S. Gaballah 2/22/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 2/27/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 3/7/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-27-01-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 104, 9 ft. E of N line, 15 ft. N of 15.7.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light fixture.

SOURCE CODE: E-LF-388TARGET:

TE-649.

TARGET CODE: I-TF649POSTULATED INTERACTION:

Light fixture falls, impacts TF-649.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 05/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I7).  
 Install backup support chain per DCN DCO-FE-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

kef

R. J. Swaim 02/23/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAM

S. F. Traisman 08/18/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 18-23-02-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

3' east of 'N', 17' north of 15', azimuth 175°

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Trapeze snubber support 15-765L for line S2-224-8" SOURCE CODE: P-0224-8TARGET: Conduit support S6 for conduit K6385-1-1/4" - H. TARGET CODE: E-K6385-1.25POSTULATED INTERACTION: Lateral movement of line S2-224 will cause the snubber support to impact class I support S6 for conduit. Existing gap is 3/8". PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify by analysis that movement of snubber support will not compromise the integrity of the class I support of conduit.

Note: This postulated interaction is a result of modifications associated with DCN DC1-EP-3621 (addition of pipe support 15-765L assoc. with line 224-8").

N. Barangan 06/22/83  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

For the snubber (15-76SL) to contact conduit support it would have to move in the negative "Z" direction. The movements in the negative "Z" direction are in the seismic, dead load and hydro load cases which are less than the existing 3/8" clearance between the snubber and the conduit support. Thermal load cases are in the positive "Z" directions. Ref. Calc. 8-103, Rev. 3, Node Pt. 582. (15-76 SL). No action necessary.

Marc Dimalanta 08/02/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 07/29/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 19-01-04-01FIRE-ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 110'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 100, at penetration 56, 148°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead platform.

SOURCE CODE: C-PLAT-388

TARGET:  
 Valve 93548, pressurizer steam space sample vlv.

TARGET CODE: I-93548

POSTULATED INTERACTION:  
 Platform falls on valve 93548 and attached tubing.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platform by analysis.

M. Jones 05/07/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Platform has been qualified by analysis. See resolution sheet and  
 Calc. No. 19-01-04-01.

S. Hanusiak 08/08/80  
 DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
 7/28/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 19-04-03-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 117, 220<sup>0</sup>, on missile wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 1870-1" N<sub>2</sub> supply line.

SOURCE CODE: P-1870-1

TARGET:  
Mechanical panel 127 tubing.

TARGET CODE: I-PM127

POSTULATED INTERACTION:  
Line 1870 hangers do not meet the 831.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 127 tubing.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG. 049339 SHT. 117 is a portion of DCN DC1-EP-3606. Design calculations by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

S. E. Traisman 12/19/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/15/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 19-04-06-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, 166° near containment.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Structural platform at 162°.

SOURCE CODE: C-PLAT-388

TARGET:  
Mechanical panel 184.

TARGET CODE: I-PM184

POSTULATED INTERACTION:  
Lateral deflection or failure of platform causes impact with mechanical panel.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity and rigidity of platform by analysis.

M. Jones 05/14/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform has been qualified by analysis. See resolution sheet & Calc. No. 19-04-06-01.

S. Hanusiak 08/08/80  
DISCIPLINE ENGINEER/DATE

V. J. Ghio 08/08/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
7/28/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 19-14-05-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 117, 220<sup>o</sup>, on missile wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Line 1870-1" N<sub>2</sub> supply line.

SOURCE CCDE: P-1870-1

TARGET:

Mechanical panel 127.

TARGET CCDE: I-PM127

POSTULATED INTERACTION:

Line 1870 hangers do not meet the B31.1 hanger spacing requirements. Pipe could fall, damage mechanical panel 127.

PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Perform additional piping analysis on line 1870 to verify adequacy of the supports. Add restraints as required.

M. Jones 04/15/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hanger DWG 049339 Sht. 117 is a portion of DCN DC1-EP-3606. Design calculation by H. Hohmann dated 08/02/82 is a response to field verification report by M. Jones dated 02/24/82 which resolves all interaction concerns identified in the report.

C. R. VanNatta 01/24/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 01/24/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO BAW

M. Baker 08/02/83

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84

SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED AUG 09 1984

[0014A/0079Z-21] OKF

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 19-15-09-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100, 150<sup>0</sup>, near containment.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture, chain supported.

SOURCE CODE: E-LF-3BBTARGET:

Backup air accumulator tubing for valve 9356B.

TARGET CODE: J-9356BPOSTULATED INTERACTION:

Light fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture. Additional support will be required.

M. Jones 05/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, detail 8 (category IT).  
 Install backup support chain per DCN DCO-FF-5552 Sht. 12 of 13, detail 75.  
 Resolved by modification. See ART 348.

R. J. Swaim 02/23/83

DISCIPLINE FMGT/DATE

G. C. Bhatt 02/23/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/18/83FIFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 19-17-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 91', at missile barrier, 270°.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Iodine removal unit E-15.

SOURCE CODE: H-E15

TARGET:  
Valve 9352A.

TARGET CODE: I-9352A

POSTULATED INTERACTION:  
Iodine removal unit mounting bolts fail in shear, resulting in unit sliding into valve 9352A.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install hold-down clamps to unit mounting skid to preclude movement of unit.

M. Jones 08/12/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Bolts qualified by analysis. See IDS file No. 03-35-02-02

\_\_\_\_\_  
DISCIPLINE ENGINEER/DATE

D. H. Hagstrom  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC [HVAC] I&C PSE NPO NAM

\_\_\_\_\_  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/10/82  
SIP PROJECT ENGINEER APPROVAL/DATE

AVS

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-02-01-01FIRE ZONE 3-J-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
CCW Pump 1-2 Room, Elev. 73

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixtures (3), chain supported SOURCE CODE: E-LF-3J2TARGET: CCW Pump 1-2 TARGET CODE: M-CCWPP1-2POSTULATED INTERACTION: Fixtures fall, impact tubing and conduit to pump lube oil system PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures. Supports will need to be modified for these fixtures.M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*led* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EF-5552 Rev. 1 Sheet 9 of 9, detail #75. ART 353 Resolved by modification.

R. J. Swaim 08/24/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 08/24/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 20-03-01-01

FIRE ZONE 3-J-3 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
CCW pump 1-3 room, elev. 73.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: P-SPR-3J3  
1" branch from 2" fire water line, drawing # 693299, support #SPR-47.

TARGET: TARGET CODE: M-CCWPP1-3  
CCW pump 1-3.

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
Lateral support needed at end of branch to preclude overstress of threaded joint and subsequent failure of pipe which could fall on CCW pump 1-3. Note: The firewater line is design Class I.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add bracket to steel which holds support 83-6. This support should have been added when the firewater system was upgraded.

M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modified support. See Generic DCN DC1-EP-5061. HGR DWG No. 049339-339/352R.

C. R. VanNatta 09/06/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 10-24-83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-03-03-03

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85'-0".

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Checker plate.

SOURCE CODE: NS-CD

TARGET:  
K6977-4".

TARGET CODE: E-K6977-4

POSTULATED INTERACTION:  
Unbolted checker impacts the conduit.

PHENOMENA CODE: LOOSE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Secure the checker prior to operation.

E. Denison 07/08/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Checker plate to be bolted per ART 236.

S. Hanusiak 08/06/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 09/03/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAM

E. Denison 07/08/81  
FIELD VERIFICATION BY WALKDOWN TEAM

I. W. Horn 07/03/84  
SIP PROJECT ENGINEER APPROVAL/DATE

(FOR MODIFICATIONS ONLY)  
CHECKED AUG 8 9 1984

SG  
SIMPBY

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-03-05-01FIRE ZONE 3-J-3 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 75', near CCW PP1-3.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.SOURCE CODE: NS-CDTARGET:  
Conduit K7025-1.TARGET CODE: E-K7025-1POSTULATED INTERACTION:  
Flexible line is cracked at both ends of couplings.PHENOMENA CODE: HOUSEKEEPRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace flex line.P. Anderson 06/05/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Flex conduit replaced per ART 167.DISCIPLINE ENGINEER/DATEA. G. Barta 07/16/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [QC] HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL./DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-04-01-01FIRE ZONE 3-J-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
CCW Pump 1-1 Room, Elev. 73

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixtures, (3) chain supported SOURCE CODE: E-I.F-3J1TARGET: CCW Pump 1-1 TARGET CODE: M-CCWPP1-1POSTULATED INTERACTION: Fixtures fall, impact tubing and conduit to pump lube oil system. PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures. Supports will need to be modified for these fixtures.M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*KCB* The above source light fixture has been field inspected and verified to be installed in accordance with PG&F DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-FE-5552 Rev. 1 SH. 9 of 9. detail 75, ART 353 Resolved by modification.

R. J. Swaim 03/21/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-04-01-07

FIRE ZONE 2-J-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 CCW pump 1-1 room, elev. 73'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead crane trolley.

SOURCE CODE: C-CRANE-3J1

TARGET:  
 CCW pump 1-1 & attached conduit.

TARGET CODE: M-CCWPP1-1

POSTULATED INTERACTION: lateral movement of trolley impacts conduit or fails supports causing trolley to fall on CCW pump.  
PHENOMENA CODE: CIVTLFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Add sway brace to end of trolley to preclude lateral deflection
2. Verify seismic capability of existing trolley supports.

M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Sway bracing added per DWGs No. 59652, 59654, 512482 and DCNs No. DCO-GC-2382, DCO-GC-2385, DC1-GC-2415. See resolution sheet and Calc. No. 20-04-01-07.

S. Hanusiak 04/06/81  
DISCIPLINE ENGINEER/DATE

F. P. Wollak 04/06/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-04-01-03FIRE ZONE 3-J-1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73, CCW Pumps 1-3 Rooms

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead Service Hoist

SOURCE CODE: M-HOIST-3J1

TARGET:  
 CCW Pumps 1, 2, 3

TARGET CODE: M-CCWPP1-1

POSTULATED INTERACTION:  
 Hoist is not secured to trolley and is free to roll on trolley over CCW Pumps. Dangling chains or the falling of the hoist onto the CCW pumps is possible.

PHENOMENA CODE: MECHFALRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure that hoist is secured and fixed to the trolley during plant operation.

M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Hoist stop has been added to secure service hoist as per DWG's 59652, 59654 and 512482. See resolution sheet and file for IDS # 20-04-01-02.

S. Hanusiak 04/06/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 04/06/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 20-07-01-03

FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

North end of CCW heat XCGR room above CCW heat XCGR 1-1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform P12T-1, NW of CCWHX 1-1

SOURCE CODE: C-P12T-1

TARGET:

Inst. line to PI-111 & PI-113.

TARGET CODE: I-PI 113

POSTULATED INTERACTION:

Inst. lines are supported off of Class II platform. Platform undergoes lateral deflection causes inst. tubes to be damaged.

PHENOMENA CODE: \_\_\_\_\_

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Reroute inst. lines (do not support inst lines off of platform P12T-1)

S. Skochko 02/24/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The subject platform has been qualified for the Hosgri event against collapse. Qualification methodology is similar to that used for the non-Class I turbine building, which itself has numerous Class I attachments. Refer to Civil Calculation No. 20-14-01-04 for qualification of the platform. This is based on a conversation between Mr. Bill Walker, Civil SIP Walkdown member, and Mr. Safwat Gaballah, Unit 1 Civil SIP Group leader. Bill Walker also discussed turbine building qualification with Mr. Herman Minkowski, Unit 1 Civil turbine building Group leader. See technical review No. 8216-TR-0671 & Telecon (Chron. No.. 048011, dated 04/02/84). Notice: This IDS is a result of final SIP WD.

S. Skochko/W. L. Walker 02/29/84  
DISCIPLINE ENGINEER/DATE

D. R. Warren 03/01/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/04/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-10-01-01FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Chamber containing CCW headers.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead steel platform.

SOURCE CODE: C-PLAT-14ATARGET:

30" CCW header, line 95.

TARGET CODE: P-0095-30POSTULATED INTERACTION:

Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform. Simple analysis should be adequate.

M. Jones 05/06/80WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platform has been qualified by analysis. See resolution sheet and Calc. No. 20-10-01-01.

S. Hanusiak 08/08/80DISCIPLINE ENGINEER/DATEV. J. Ghio 08/08/80ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANI. W. Horn 09/30/82FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-10-01-02FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

CCW HX room, elev. 95', north end.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

1" firewater line.

SOURCE CODE: P-SPR-14ETARGET:

Vent 1-46-V to line 95 CCW inlet to CCW HX1.

TARGET CODE: PA-0095-30POSTULATED INTERACTION:

Lateral deflection of 1" line impacts vent.

PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add lateral restraint to 1" firewater line to preclude contact with vent. Add support near vent.

M. Jones 05/07/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Addition of new supports resolved by hanger DWG 049339 sheet 190 thru 235 in DCN-DC1-EP-3865 and sheet 296 in generic DCN-DC1-5061.

C. R. VanNatta 01/81/83  
DISCIPLINE ENGINEER/DATEK. M. Krause 01/31/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANS. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/19/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-12-04-01FIRE ZONE 3-J-3 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Room Adjacent to CCW Pump 1-3 Room, Elev. 73

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixtures (chain suspension)

SOURCE CODE: E-LF-3J3TARGET:

RE 17A Radiation monitor tubing, conduit

TARGET CODE: I-RE17APOSTULATED INTERACTION:

Fixture falls, impacts tubing and conduit.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount. Modifications needed for this fixture.

M. Jones 05/06/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*KCT*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EE-5552 Rev. 1 Sheet 9 of 9, detail #75, ART 353. Resolved by modification.

R. J. Swaim 03/21/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 3/21/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/24/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/09/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-13-04-01FIRE ZONE 3-J-3 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Room Adjacent to CCW Pump 1-3 Room, Elev. 73

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixtures (chain suspension)

SOURCE CODE: E-LF-3J3TARGET:

RE 17B Radiation monitor tubing and conduit.

TARGET CODE: I-RF17BPOSTULATED INTERACTION:

Fixtures fall, impact tubing and conduit.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount. Modifications needed for this fixture.

M. Jones 05/06/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE: ...

The above source light fixture has been field inspected and verified to  
 be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-  
 up support chain per DCN-DCO-EE-5552 Rev. 1 Sheet 9 of 9, detail 75, ART 353.  
 Resolved by modification.

R. J. Swaim 03/21/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/21/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/24/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/09/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-14-01-03

FIRE ZONE 14-E LOCATION Turbine Bldg FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
CCW HX room, elev. 95.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: P-SPR-14E  
Firewater system has not been upgraded to Class I in this room.

TARGET: TARGET CODE: M-CCWHX  
CCW heat exchanger.

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL  
Firewater piping falls on CCW heat exchangers and associated pipe & instruments.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Upgrade firewater piping in this room to seismic Class I, if required.

M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The firewater system has been analysed by ME-101. The list of HGRS were either added or modified per DWG 049339. Reference analysis FP-339.

R. Hare 12/02/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 12/02/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

CHECKED AUG 9, 1984  
[0014A/0079Z-23] OK *if*

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-14-01-04FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
 CCW HX room, elevation 85'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead platforms, and railings.

SOURCE CODE: C-PLAT-14E

TARGET:  
 CCW HX 1-1

TARGET CODE: M-CCWHX1-1

POSTULATED INTERACTION:  
 Class II platforms and railings fail, fall on JX 1-1 and attached piping, nozzles,  
 etc.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of platforms and railings by analysis.

R. L. Cloud 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Platforms/railings qualified by analysis. See Calc. No. 20-14-01-04 and  
 resolution sheet.

S. Hanusiak 02/18/81  
DISCIPLINE ENGINEER/DATE

V. J. Ghio  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO HAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-15-01-01FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"LOCATION WITHIN FIRE ZONE:  
CCW AX room, elev. 85'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platforms and railings.SOURCE CODE: C-PLAT-14ETARGET:  
CCW HX 1-2.TARGET CODE: M-CCWHX1-2POSTULATED INTERACTION: Class II platforms & railings fail, fall on HX 1-2 and attached piping, nozzles, etc.  
 PHENOMENA CODE: CIVILFAT1RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platforms and railings by analysis.M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Sources have been seismically qualified by analysis. See IDS file No. 20-14-01-04 and resolution sheet.S. Gaballah 11/04/82  
DISCIPLINE ENGINEER/DATEB. Sarkar 11/04/82  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAMI. W. Horn 01/05/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 01/05/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-16-01-03FIRE ZONE 14-A LOCATION Turbine Area FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Area GW at col. H between cols. 15 and 16 below CCW headers near PM-101 panel.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:SOURCE CODE: P-3103-2

Line 3103-2" (Fuel HDL. Bldg. heating coils drain line - gray line, runs north-south and 2'-0" east of col. G.

TARGET:TARGET CODE: I-FT68

Process tubing for FT-68, CCW sup. header "A".

POSTULATED INTERACTION:PHENOMENA CODE: SPTFAIL & PIPEFAIL

Source line deflects into process tubing. Existing clearance  $\pm 3$ " failure of fixed end rod hangers on source line aggravates problem.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add bilats as required to restrain source line.  
 Note: This IDS is a result of final sip area walkdown.

C. R. VanNatta 02/21/84  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Resolved by ART 503.

S. Skochko 03/11/84  
 DISCIPLINE ENGINEER/DATE

D. R. Warren 03/15/84  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. Skochko 06/08/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-17-04-01FIRE ZONE 4-A LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 85, inside room 150, inside wall panels.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Wall, Germanium detector and HP Instrument panel.

SOURCE CODE: C-WALLTARGET:

TSAA, K7248, and K7249.

TARGET CODE: E-K7248+POSTULATED INTERACTION:

Wall, Germanium detector and HP Instrument panel tip over and strike cable tray. Wall is class II.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of wall, Germanium detector and HP Instrument panel.

Edward Denson 06/05/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Wall qualified by analysis. See resolution sheet and IDS file #01-19-02-01.

S. Hanusiak 09/21/81

DISCIPLINE ENGINEER/DATE

E. P. Wollak 09/24/81

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO  
NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-18-01-01FIRE ZONE 14-E LOCATION Turbine Bldg. FLOOR ELEVATION 85'-0"LOCATION WITHIN FIRE ZONE:  
 CCW 4X Room, Elev. 95 mid room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 2" stainless Pipe, No lateral support for 36' rod supports only (Line 4000)  
 SOURCE CODE: P-4000-2TARGET: 3/4" Vent to CCW pipe (CCW 1-43V) Vent 51 header A to C cross tie (line 98)  
 TARGET CODE: PA-098-12POSTULATED INTERACTION: Lateral displacement of 2" pipe impacts vent.  
 PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral support to 2" line to preclude contact with vent.M. Jones 05/07/80  
 WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Added pipe support per Hanger DWG. SK-339-238R Sht. 238 by DCN DC1-EP-5335  
 72-132 Rev. 2C. R. Van Natta 01/10/83  
 DISCIPLINE ENGINEER/DATEK. M. Krause 01/10/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO HAN

S. E. Traisman 11/02/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-19-01-01

FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Chamber containing CCW headers, elev. 85'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead steel platform.

SOURCE CODE: C-PLAT-14A

TARGET:  
24" CCW header, line 103.

TARGET CODE: P-0103-20

POSTULATED INTERACTION:  
Platform falls, impacts pipe.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform. Simple analysis should be adequate.

M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform has been qualified by analysis. See resolution sheet and IDS file No. 20-10-01-01.

S. Hanusiak 02/14/81  
DISCIPLINE ENGINEER/DATE

V. J. Ghio  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

59  
8/6/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-19-01-02

FIRE ZONE 14-A LOCATION Turbine Bldg. FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Chamber containing CCW headers, elev. 85.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead 4" cast iron pipe, clamp coupled, rod supported. SOURCE CODE: P-ULB-14A

TARGET: 24" CCW supply header, line 103. TARGET CODE: P-0103-20

POSTULATED INTERACTION: Cast iron pipe fails, falls on instrument taps to CCW header, shearing taps. PHENOMENA CODE: SPTFAIL & PIPEFAIL

- RECOMMENDED RESOLUTION BY WALKDOWN TEAM:
- 1. Verify that guillotine break of (2) 3/4" taps (stainless tubing) does not compromise system operation.
  - OR
  - 2. Add additional supports to cast iron line to preclude failure.

M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS 20-20-01-01.

C. R. VanNatta 01/13/83  
DISCIPLINE ENGINEER/DATE

J. A. Longworth 01/14/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-20-01-01FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Chamber containing CCW headers, Elev. 85.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead 4" cast iron pipe, clamp coupled, rod supported. SOURCE CODE: P-ULB-14A

TARGET: 24" CCW supply header, 104. TARGET CODE: P-0104-20

POSTULATED INTERACTION: Cast iron pipe fails, falls on instrument taps to CCW header, shearing taps. PHENOMENA CODE: SPTFAIL & PIPEFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Verify that guillotine break of (2) 3/4" taps (stainless tubing) does not compromise system operation.
- or-
2. Add additional supports to cast iron line to preclude failure.

M. Jones 05/06/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Add & modify supports per hanger Dwg. SK-339-239R by DCN DC1-EP-5336.

C. R. VanNatta 01/13/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/14/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO MAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-21-01-01FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Chamber containing CCW headers. Elev. 85'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead 4" cast iron pipe, clamp coupled, rod supported. SOURCE CODE: P-ULB-14A

TARGET: 24" CCW supply header, line 2277 TARGET CODE: P-2277-20

POSTULATED INTERACTION: Cast iron pipe falls on instrument taps to CCW header, shearing taps. PHENOMENA CODE: SPTFAIL. & PIPEFAIL.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Verify that guillotine break of (2) 3/4" taps (stainless tubing) does not compromise system operation.
- or-
2. Add additional supports to cast iron line to preclude failure.

M. Jones 05/06/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 See IDS. No. 20-20-01-01.

C. R. VanNatta 01/13/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 01/14/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 08/18/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-23-01-01

FIRE ZONE 3J3 LOCATION Safety Related Pump FLOOR ELEVATION 72'-0"

LOCATION WITHIN FIRE ZONE:

CCW Pump 1-3 Room, Elev. 73, Rear of room, by wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

3" Service Air Header

SOURCE CODE: P-SA-3J3

TARGET:

Line 2131, header A CCW supply (2")

TARGET CODE: P-2131-2

POSTULATED INTERACTION:

lateral deflection of service air header causes impact with line 2131.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Add lateral restraint to service air header about 4' below point of contact. Add bracket to wall.

M. Jones 5/6/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Recommended resolution O.K. See Hgr. Dwg. No. 049339 - Sht. 43 & 44.

C. R. Van Natta 08/12/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 08/12/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 01/19/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/26/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*Sh*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-25-04-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:  
Azimuth 340° above annulus duct.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 1246-10" CFC 1-2, 1-3, tray leakage to containment sump. SOURCE CODE: P-1246-10

TARGET: Support for line 3163-2" and 3164-2", CCW supply/return to CFC 1-1 motor cooler. TARGET CODE: P-3163-2

POSTULATED INTERACTION: Source line supported with dead weight supports only (no lateral restraints). Seismic excitation causes lateral motion of source. Source impacts 3" x 3" angle supports for target lines at two locations (clearance is 3/16" and 2", ±). Impact fails CCW supports and jeopardizes pressure boundary integrity of CCW system. PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Determine deflection at point of contact. If damaging, add bilats to source line. Note various lines off of 10" source line appear to be anchored at elev. 140'. Note: Unistrut supports for Class I conduits 1995 and 1996 are within 1/2" of source line. Raceway supports may also be subject to damage by source. Note: This interaction is a result of final SIP area walkdown.

S. E. Traisman 09/28/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See DCN DC1-EP-5061 HGR. DWG 049339-339/377R and Calc. No. SIP-437, Rev. 2.

C. R. VanNatta 10/11/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 10/11/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

S. E. Traisman 09/28/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-27-07-01FIRE ZONE 1-C LOCATION Containment FLOOR ELEVATION 140'-150.5'

## LOCATION WITHIN FIRE ZONE:

2-3' from containment liner (inside) @ azimuth 222°.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

KR-994 (antenna)  
 (2 1/2" sch. 40) conduit 10.5' ft. tall mounted from 140' deck.

SOURCE CODE: E-ANTENNATARGET:

Manual valve on line K2-3168-2".  
 (Mtr. clr. return line on CFC-1-5).

TARGET CODE: P-3168-2POSTULATED INTERACTION:

Source is 10.5' long. Distance between source and target is 7'. Source fails and impacts target.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify adequacy of support configuration of source component.  
 Note: This interaction a result of final SIP area walkdown.

S. Skochko 09/09/83  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Antenna KR-994 has been qualified to Class I seismic criteria per calc. no. 148C  
 file 52.17. See DCN #DCI-E-C-5478 (original installation details).  
 No action necessary.

N. Barangan 09/27/83  
 DISCIPLINE ENGINEER/DATE

C. Kahl 09/27/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 09/09/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-34-06-01

FIRE ZONE 3-RR LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 85', area GW, (N, 15<sup>7</sup>), near vertical RHR PP1-1 suction.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CD

TARGET:  
Conduit K6989-1.

TARGET CODE: E-K6989-1

POSTULATED INTERACTION:  
Target K6989 falls due to missing restraints.

PHENOMENA CODE: HOUSEKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace missing restraints.

F. Denison 06/10/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Replaced missing restraints per ART 159.

DISCIPLINE ENGINEER/DATE

A. G. Barta 07/15/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE EMS ENG [QC] HVAC I&C PSE NPO NAN

S. E. Traisman 08/31/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/29/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-38-06-02FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

At steam generator blowdown tank.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform 26GE.

SOURCE CODE: C-26GETARGET:

K-4172-3/4" (CCW supply to SG blowdown tank vent RE-27)

TARGET CODE: P-4172-0.75POSTULATED INTERACTION:PHENOMENA CODE: INTERFERE & DEFLECT

Target line passes platform leg 43" above elev. 140' slab. Gap is 1/32". N - S deflection of platform results in contact with target line and consequently in loss of pressure boundary. Target line is rigidly restrained 2" from contact point by a bilateral support.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify that  $\Delta \geq$  (greater than or equal to) 1/32" will not occur at this point. Otherwise, re-route target line.

Note: This IDS is a result of final sip area walkdown.

S. E. Traisman 02/24/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

DC1-SP-19068 generated to reroute line K-4172-3/4".

B. Abella  
DISCIPLINE ENGINEER/DATE

K. M. Krause 03/21/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. G. Chesnut 05/16/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/04/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-39-44-01

FIRE ZONE 3-BR LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 108', near azimuth 185', col. N & 15.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 927-14" RCS HL 4 to RHR PPS suction. SOURCE CODE: P-0927-14

TARGET: Line 2679-2" CCW to Gross Failed Fuel Detector. TARGET CODE: P-2679-2

POSTULATED INTERACTION: line 2679-2" is in contact with insulated source line. Excessive seismic or thermal movements of source line could damage target. PHENOMENA CODE: DFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
By analysis, verify integrity of line 2679-2". Otherwise provide seismic stop to source pipe or locally reroute target line.

P. Anderson 06/17/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Source pipe qualified by analysis of seismic/thermal displacements. See RICA Resolution Report No. 38.

DISCIPLINE ENGINEER/DATE

G. B. Page 10/09/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-40-01-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 104'-7"LOCATION WITHIN FIRE ZONE:  
Under RCP1, elev. 105'.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
1" drain line.SOURCE CODE: P-DRAIN-1BTARGET:  
4" CCW line 2314.TARGET CODE: P-2314-4POSTULATED INTERACTION:  
1" drain line has no lateral support - impacts line 2314.PHENOMENA CODE: DIFFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Install U-bolts to restraint on each side of contact point to preclude contact with line 2314.

M. Jones 04/16/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bilateral restraints added each side of contact point. See drawing No. SK-20-40-01-01. Resolved per ART 005.

R. W. Eschenburg 10/28/80  
DISCIPLINE ENGINEER/DATEV. I. Killpack 12/03/80  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FE FMS ENG GC HVAC I&amp;C [PSF] NPO MAN

M. Jones 02/23/82  
FIFD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-40-66-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Azimuth 193°, 4' from containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:SOURCE CODE: I-FIT1

FIT-1 (Gross Failed Fuel Detector assembly) and associated support structure.

TARGET:TARGET CODE: M-GFFD HX

Gross failed fuel detector heat exchanger (required for CCW pressure boundary integrity).

POSTULATED INTERACTION:PHENOMENA CODE: SPTFAIL

- (1) Bolts holding FIT-1 to support panel fail, FIT-1 falls onto target HX.
- (2) Support panel for FIT-1 (constructed of 1" tube sections, unknown wall thickness) fails, panel and associated FIT fall onto target HX. Potential exists for breach of CCW pressure boundary.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify adequacy of connections for FIT-1 and FIT-1 support structure by engineering evaluation.

S. E. Traisman 06/29/83

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Adequacy of connections for FIT-1 support structure has been verified per Diablo Canyon Unit 1 Calculation No. M-466, Rev. 0, dated 09/29/83, FIT-1, (gross failed fuel detector assembly) and FIT-1 support structure are acceptable as is. No further action is required.

D. Esken

DISCIPLINE ENGINEER/DATE

E. Connell III

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/19/84

SIP PROJECT ENGINEER APPROVAL/DATE

L.J.E. 8/21/84



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-44-01-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, Col. 15.7 & A intersection.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
3" line 1595.

SOURCE CODE: P-1595-3

TARGET:  
6" CCW surge tank line 123.

TARGET CODE: P-0123-6

POSTULATED INTERACTION:  
Lateral deflection of 3" line causes impact with line 123.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral restraint to line 1595 to preclude contact with CCW line. Add between CCW lines 121 & 123 and attach to col. 15.7 wall.

M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS No. 06-60-10-04.

C. R. VanNatta 06/07/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 06/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Baker 08/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-44-18-01  
· Over Zones  
FIRE ZONE 8C & 8B1 LOCATION HVAC Rooms FLOOR ELEVATION 163'-0"

LOCATION WITHIN FIRE ZONE:  
Roof of auxiliary building, elev. 171'.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Microwave antenna & support tower. SOURCE CODE: E-ANTENNA

TARGET: Microwave antenna & support tower. TARGET CODE: M-CCWTANK

POSTULATED INTERACTION: Antenna & tower topple, impact CCW surge tank. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of antenna and support structure by analysis.

M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Stiffener plates added to antenna. See Calc. No. 20-44-18-01 and ART No. 263.

S. Hanusiak 07/15/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/16/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAM

S. E. Traisman 09/29/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
8/7/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-45-08-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"

## LOCATION WITHIN FIRE ZONE:

Reactor coolant pump 1-4, lube oil cooler.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Grating kick for Class I platform No. 71G.

SOURCE CODE: C-71GTARGET:

CCW line K-137-4 (RCP1-4 lube oil cooler supply).

TARGET CODE: P-0137-4POSTULATED INTERACTION:

Gap between line and sharp corner of kick is 1/4". (Existing cut out appears insufficient). Thermal/seismic displacement of RCP causes contact between source and target. Damage could cause breach of pressure boundary.

PHENOMENA CODE: INTERFERE & DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Cut kickplate to provide adequate clearance, or show existing clearance is adequate.

This interaction is a result of final SIP area walkdown.

W. I. Walker 09/28/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Modification provided per ART No. 452. Also see Calc. No. 20-45-08-01.

W. I. Walker 10/10/83  
DISCIPLINE ENGINEER/DATE

F. Morsy 10/10/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 01/19/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 01/26/84  
SIP PROJECT ENGINEER APPROVAL/DATE

5/3/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-45-13-01FIRE ZONE 1-B LOCATION Containment FLOOR ELEVATION 125'-0"LOCATION WITHIN FIRE ZONE:  
RCP 1-3 upper BGR oil CLR.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platform 69G grating kick plate. SOURCE CODE: C-69GTARGET: CCW line 2305-4", RCP 1-3 motor upper bearing cooling CCW return. TARGET CODE: P-2305-4POSTULATED INTERACTION: PHENOMENA CODE: INTERFERE & DEFLECT  
Gap between grating kick plate & line CCW-2306-4" is 3/16" which shows no room for movement of the pipe due to RCP 1-3 seismic motion and thermal growth.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Cut kickplate to provide adequate clearance or show existing clearance is adequate.C. R. VanNatta 09/28/83  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification provided per ART No. ART No. 452. For Calc. see IDS file No. 20-45-08-01.W. L. Walker 10/10/83  
DISCIPLINE ENGINEER/DATEF. Morsy 10/10/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAWS. E. Traisman 11/29/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-45-14-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 93, GE area, mid-room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 light fixture.

SOURCE CODE: E-LF-3RB

TARGET:  
 Air supply tubing to FCV-360.

TARGET CODE: I-FCV360

POSTULATED INTERACTION:  
 Fixture falls, impacts tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of light fixture.

M. Jones 11/18/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Act's*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I). Install backup support chain per DCN DCO-FF-5552 Sht. 12 of 13, detail 75. Resolved by modification. See ART 348.

R. J. Swaim 02/23/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/18/83  
 FIFID VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 09/09/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

SHEET 1 OF 1  
PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-45-37-01

FIRE ZONE 3-88 LOCATION Penetration Areas FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 85, area GW-above CCW supply and return headers.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead flourescent light - 3 total.

SOURCE CODE: E-LF-388

TARGET:

K6114

TARGET CODE: E-K6114-1.25

POSTULATED INTERACTION:

lights impacts conduit due to unchained and insufficiently supported.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixtures.

P. Werinski 01/09/81

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category II). Install backup support chain per DCN DCO-FE-5552 Sht. 12 of 13, detail 75. Resolved by modification. See ART 348.

ACB

R. J. Swaim 07/23/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 07/23/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/18/83

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/09/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-46-01-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
. Elev. 100, Col 15.7, & A intersection.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
3" line 1595.

SOURCE CODE: P-1595-3

TARGET:  
6" CCW surge tank line 121.

TARGET CODE: P-0121-6

POSTULATED INTERACTION:  
Lateral deflection of 3" line causes impact with line 121.

PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral restraint to line 1595 to preclude contact with CCW line. Add between CCW lines 121 & 123 and attach to col. 15.7 wall.

M. Jones 05/07/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS No. 06-60-10-04.

C. R. VanNatta 06/07/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 06/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

M. Baker 08/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/20/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*Swi*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-48-13-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 118, Mid-room, GE Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (Ball/Socket mount) SOURCE CODE: E-LF-388

TARGET: Drain connection (Pipe & Root Valve) to Line 318-17" TARGET CODE: PA-0318-12

POSTULATED INTERACTION: Fixture falls, impacts drain connection. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 7/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category XI).  
 Acts This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-48-14-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 118, Mid-room, GE Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (Ball/Socket mount) SOURCE CODE: E-I.F-388

TARGET: Drain connection (Pipe & Root Valve) to Line 323-12" TARGET CODE: PA-0323-12

POSTULATED INTERACTION: Fixture falls, impact drain connection. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixture mount, possibly by analysis.

M. Jones 7/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*ASP* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category X). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-50-17-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'0"LOCATION WITHIN FIRE ZONE:  
Elev. 118, Mid-room, GE Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (Ball/Socket mount) SOURCE CODE: E-I.F-388TARGET: Drain connection (Pipe & Root Valve) to Line 321-12" TARGET CODE: PA-0321-12POSTULATED INTERACTION: Fixture falls, impacts drain connection. PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.M. Jones 7/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*act* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category XI). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE  EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-51-17-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 118, Mid-room, GE Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixture (Ball/Socket mount)SOURCE CODE: E-LF-3BBTARGET:  
Drain connection (Pipe & Root Valve) to Line 320-12"TARGET CODE: PA-0320-12POSTULATED INTERACTION:  
Fixture falls, impacts drain connection.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.M. Jones 7/29/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Kgb*  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category XI). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-51-18-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 118, Mid-room, GE Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture (Ball/Socket mount)

SOURCE CODE: E-LF-388TARGET:

Drain connection (Pipe &amp; Root Valve) to Line 315-12"

TARGET CODE: PA-0315-12POSTULATED INTERACTION:

Fixture falls, impacts drain connection.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixture mount, possibly by analysis.

M. Jones 7/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

~~KCB~~ The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, Detail 9 (Category XI). This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-52-14-01FIRE ZONE 3-8B LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 118, Mid-room, GE Area

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture (Ball/Socket mount) SOURCE CODE: F-I.F-388TARGET: Drain connection (Pipe & Root Valve) to line 319-12" TARGET CODE: PA-0319-17POSTULATED INTERACTION: Fixture falls, impacts drain connection. PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount, possibly by analysis.M. Jones 7/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, Detail 9 (Category XI).  
 This fixture type has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-53-17-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 91'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 95, mid-room, GE area.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 3X3 angle bracket brace to pipe support for lines 312 & 313. SOURCE CODE: PA-0310-2TARGET: Handwheel to Manual Valve, item 39, to CCW line 310-2". TARGET CODE: P-0312-2POSTULATED INTERACTION: Handwheel  $\frac{3}{8}$ " from brace. Seismic movements could result in handwheel contacting brace. PHENOMENA CODE: DEFLECTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Reroute pipe support brace away from valve to provide 2" minimum clearance.M. Jones 07/29/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Recommended resolution - OK. See pipe support DWG No 55-12 Rev. 3 which is reflect "as-built" condition that clear  $2\frac{1}{2}$ " from valve handle.C. P. Van Natta 05/19/83  
DISCIPLINE ENGINEER/DATEJ. Longworth 05/19/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO HANM. Baker 08/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-55-03-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 108, northeast corner of room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead light fixture (chain supported).

SOURCE CODE: F-LF-3BBTARGET:

Line 144-4" vent connection.

TARGET CODE: PA-0144-4POSTULATED INTERACTION:

Fixture falls, impacts vent connection.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixtures.

M. Jones 07/29/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I).  
 Install backup support chain per DCN DCO-EF-5552 Sht. 17 of 13, detail 75.  
 Resolved by modification. See ART 348.

R. J. Swaim 02/23/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 02/23/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/18/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83

SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SYSTEMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-56-01-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"LOCATION WITHIN FIRE ZONE:  
Flav. 108, northeast corner of room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead light fixture (chain supported).SOURCE CODE: E-IF-3BBTARGET:  
Operator to valve FCV-361.TARGET CODE: I-FCV361POSTULATED INTERACTION:  
Fixture falls, impacts operator.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture mount.M. Jones 07/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*kw* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 8 (category I). Install backup support chain per DCN DCO-EF-5552 Sht. 12 of 13, detail 75. Resolved by modification. See ART 348.

R. J. Swaim 02/23/83  
DISCIPLINE FMGTNFER/DATEG. C. Bhatt 02/23/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. F. Traisman 08/18/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT FMGTNFER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-57-02-01

FIRE ZONE 3J1 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 73, Over CCW Pump 1-1

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
light fixtures, chain supported (2)

SOURCE CODE: E-1F-3J1

TARGET:  
Air supply tubing to FCV-606

TARGET CODE: I-FCV606

POSTULATED INTERACTION:  
Fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures.

M. Jones 12/2/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Res* The above source light fixture has been field inspected and verified to be installed in accordance with PG&F DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-FE-5552 Rev. 1 SH. 9 of 9, See ART 353. Resolved by modification.

R. J. Swaim 03/21/83  
DISCIPLINE ENGTNFER/DATE

G. C. Bhatt 03/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS ENG GC HVAC I&C PSE NPO NAM

S. E. Traisman 08/24/83  
FIFID VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

Lee Horn 09/9/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-58-02-01FIRE ZONE 3-J-2 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 73, over CCW pump 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
light fixtures (2)SOURCE CODE: E-LF-3J2TARGET:  
Air supply tubing to FCV-607TARGET CODE: I-FCV607POSTULATED INTERACTION:  
Fixtures fall, impact tubing.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures.M. Jones 12/02/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EE-5552 Rev. 1 Sheet 9 of 9, detail #75, ART No. 353 Resolved by modification.

R. J. Swaim 03/21/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE MPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-59-02-01FIRE ZONE 3-J-3 LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 73, over CCW Pump 1-3

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
light fixtures (2)SOURCE CODE: E-LF-3J3TARGET:  
Air Supply tubing to FCV-608TARGET CODE: I-FCV608POSTULATED INTERACTION:  
Fixtures fall, impact tubing.PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures.M. Jones 12/02/80  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*azb* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-EE-5557 Rev. 1 Sheet 9 of 9, detail #75, ART 353. Resolved by modification.

R. J. Swaim 03/21/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/21/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIASLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-63-03-01FIRE ZONE 3-L LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 91, at Central Sample Panel

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Light Fixture (chain supported fluorescent)

SOURCE CODE: E-LF-3LTARGET:

CCW Tubing in central sample panel

TARGET CODE: I-CSPPOSTULATED INTERACTION:

Light fixture falls, impacts tubing

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 5/05/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Safety chain added to light fixture. See DCN DCO-EE-5552, Rev. 1,  
 Sheet 9 of 9, Det. 75. Also, see ART #377.

R. J. Swaim 05/17/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 05/18/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 10/14/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 10/24/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-63-03-02

FIRE ZONE 3-L LOCATION Aux./Fuel Handling FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
 Behind central sample panel  
 Auxiliary Bldg. columns N and 15.7/16.8

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Condensate collection tank.

SOURCE CODE: M-Tank

TARGET:  
 CCW lines within central sample panel.

TARGET CODE: I-CSP

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL  
 Condensate collection tank anchorage fails, tank overturns and impacts central sample panel. Damage to central sample panel support structure may result in gross deformation of an possible breach of CCW pressure boundary.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify adequacy of condensate collection tank anchorage by engineering evaluation.

S. E. Traisman 06/29/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The tank anchorage has been seismically qualified with modification.  
 See Calc. No. 20-63-03-02, for modification, see DCN No. DC1-EC-11853.

S. Gaballah 09/08/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 09/09/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

S.E.  
9/3/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-64-07-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 125', near platform above RCP1-1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Temporary scaffolding.

SOURCE CODE: NS-CN

TARGET:  
Line 2307-1".

TARGET CODE: P-2307-1

POSTULATED INTERACTION:  
Scaffolding is not secured and could impact line.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove scaffolding prior to operation.

P. Anderson 06/16/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Scaffolding removed per ART No. 207 and RLCA Report No. 36.

S. Hanusiak 07/15/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE FF FMS ENG [GC] HVAC I&C PSE NPO NAN

S. Harris 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-65-12-01FIRE ZONE 1-R LOCATION Containment FLOOR ELEVATION 110'-9"LOCATION WITHIN FIRE ZONE:  
Elev. 170', near RCP 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Line 135-4" thermal units.SOURCE CODE: P-0135-4TARGET:  
Line 139-4" supply.TARGET CODE: PA-0139-1

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
 Line 135-4" is snubber supported. Branch line 139-1" is rigidly supported. Excessive thermal movement of line 135-4" could overstress 139-1".

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM.

Ensure integrity of line 139-1" by analysis of thermal nuts. If needed, modify support to provide sufficient branch flexibilities.

Paul Anderson 06/18/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Line qualified by analysis, see RLCA Resolution Report No. 61.

P. Anderson 12/17/81  
 DISCIPLINE ENGINEER/DATE

R. I. Cloud 12/18/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS [ENG] GC HVAC I&amp;C PSE NPO NAN

R. I. Cloud 12/18/81  
 FIFD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-71-01-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 99', near primary shield wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Temporary scaffolding.

SOURCE CODE: NS-CD

TARGET:  
line 2320-1-1/2".

TARGET CODE: P-2320-1.50

POSTULATED INTERACTION:  
Scaffolding is not secured and could impact line.

PHENOMENA CODE: HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove scaffolding prior to operation.

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Scaffolding removed per ART No. 206 and RICA Report No. 36.

S. Hanusjak 07/15/81  
DISCIPLINE ENGINEER/DATE

F. P. Wollak 07/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG [GC] HVAC I&C PSE NPO NAN

M. Jones 02/17/82  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/30/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-81-01-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140', near SG blowdown tank, col 12<sup>9</sup> and T.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SG blowdown tank, steel platforms (Class II). SOURCE CODE: M-TANKTARGET: Line 2402-1" blue. TARGET CODE: P-2402-1POSTULATED INTERACTION: Class II tank tips over, Class II platforms fall, hitting line 2402. PHENOMENA CODE: SPTFATI.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
By analysis, ensure stability of tank and platforms.P. Anderson 06/18/81  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

1. Platforms: No. 25GE to be removed, see DCN DC1-EC-5292.  
No. 26GE is seismically qualified. See  
Calc. No. 20-81-01-01.
2. Tank is seismically qualified, subject to modification per DC1-EC-5260.

S. Gaballah 12/18/82  
DISCIPLINE ENGINEER/DATEB. Sarkar 12/22/82  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANS. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-81-09-01FIRE ZONE 28 LOCATION Outside Area FLOOR ELEVATION 140'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 140', near SG blowdown tank 1-1, col. 12<sup>9</sup> and 7.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

SG blowdown tank, steel platforms (Class II).

SOURCE CODE: M-TANKTARGET:

Line 2403-1" blue.

TARGET CODE: P-2043-1POSTULATED INTERACTION:

Class II tank tips over, Class II platforms fall, hitting the target line 2403.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

By analysis, ensure stability of tank and platforms.

P. Anderson 06/18/81WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

1. Tank supports are seismically qualified, subject to modification per DCN No. DC1-EC-5260.
2. Platforms: No. 26GE has been seismically qualified per Calc. No. 20-81-01-01. 25 GE to be removed. See DCN No. DC1-EC-5292.

S. Gaballah 02/07/83DISCIPLINE ENGINEER/DATEB. Sarkar 02/07/83ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NADS. E. Traisman 08/18/83FIELD VERIFICATION BY WALKDOWN TEAML. W. Horn 04/20/84SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-81-19-01FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 115'-0"

## LOCATION WITHIN FIRE ZONE:

Azimuth 130', 10' from containment wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SHield cask for RE19, SG blowdown liquied monitor (cylinder 16" diameter) 12" height). SOURCE CODE: I-RE19

TARGET: 3/4" SS line - CCW supply to SC-55 (SG blowdown sample cooler) TARGET CODE: M-SC55

POSTULATED INTERACTION: Bolts (4) attaching shield cask to support structure fail, cask falls forward and takes associated lines with it. One associated 3/4" SS line to shield cask impacts 3/4" target line and could pull target line away from sample cooler. Potential exists for breach of CCW pressure boundary. PHENOMENA CODE SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM.

Verify adequacy of RE-19 shield cask support configuration. Alternatively, provide local reroute of 3/4" line to shield cask so that interaction is eliminated.

S. E. Traisman 06/29/83  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Adequacy of RE19 shield cask support configuration has been verified per Diablo Canyon Unit 1 calculation No. M-467 Rev. 0 dated 09/29/83. RE-19 shield cask is acceptable as is.

DISCIPLINE ENGINEER/DATE

E. Connell III  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

*L. W. Horn 8/21/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-82-01-01 Intercomp

FIRE ZONE 34 (outside) LOCATION Penetration Area FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 140' near cols. T and 15.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Compressed air breathing bottles outside fan room. SOURCE CODE: M-BOTTLE

TARGET: CCW lines to RF-27, line 4172-3/4". TARGET CODE: P-4172-0.75

POSTULATED INTERACTION: Breathing air bottle(s) supports fail, air bottle nozzle breaks off, bottle becomes a missile, and impacts CCW line. PHENOMENA CODE: SPTFAT1

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of air bottle supports.

S. E. Traisman 08/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolution of INS No. 20-82-05-01 is applicable to this. See ART 359 and resolution sheet.

S. Burney 04/08/83  
DISCIPLINE FMGTNER/DATE

F. Epstein 04/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FF EMS FMG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT FMGTNER APPROVAL/DATE

*S. E. Traisman*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 20-82-05-01 Intercomp

FIRE ZONE 34 (outside) LOCATION Penetration Area FLOOR ELEVATION 140'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 140' near cols. T and 15.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Compressed air breathing bottles outside fan room. SOURCE CODE: M-BOTTLE

TARGET: CCW lines to RE-27, line 4173-3/4". TARGET CODE: P-4173-0.75

POSTULATED INTERACTION: Breathing air bottle(s) supports fail, air bottle nozzle breaks off, bottle becomes a missile, and impacts CCW line. PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of air bottle supports.

S. E. Traisman 08/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Provide new support for compressed air bottles per ART 359. See resolution sheet and Calc. No. 20-82-05-01.

S. Burney 04/08/83  
DISCIPLINE ENGINEER/DATE

E. Epstein 04/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
7/26/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-01-01-01

FIRE ZONE 3-P-3 (outsd) LOCATION HVAC Fan Rooms FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 115, outside north end of fuel handling building.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Primary water storage tank (PWT).

SOURCE CODE: M-TANK

TARGET:

Condensate storage tank (CST).

TARGET CODE: M-CST

POSTULATED INTERACTION:

PWT overturns, impacts CST.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure by analysis that PWT will not overturn.

M. Jones 10/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Referenced calculations show the tank will not overturn. See Cal. No. 21-01-01-01 (file No. 52.24) and Calcs. No. OT-3, and OT-4 (file No. 57.1 & 71.0).

S. Hanusiak 03/20/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/20/81  
EXGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/28/82  
SIP PROJECT ENGINEER APPROVAL/DATE

54  
8/15/84





PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-02-03-01FIRE ZONE 31 LOCATION Aux./Fuel Handling FLOOR ELEVATION 110'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 110' Col Lines V and 10.7

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

CST, Pipe Vault Structure, and Aux. Bldg. Structure

SOURCE CODE: C-RSM-31TARGET:

Line 4551-2"

TARGET CODE: P-4551-2POSTULATED INTERACTION:

Piping is anchored to CST, supported off of pipe vault structure between CST and Aux. Bldg., and supported off of Aux. Bldg. structure. The three structures have different seismic responses. Relative motion between structures damages pipe.

PHENOMENA CODE: RELSTRUCTRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify relative motion between the three structures does not damage piping

S. E. Traisman 08/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The relative movements between the structures are sufficiently small that no significant stress in the piping system should result. See attached Memo's.

R. R. Grey 04/16/83  
 (D.C. unit #1, PEG/S/B pipe stress)  
 DISCIPLINE ENGINEER/DATE

K. M. Krause 07/08/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/04/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-02-05-01

FIRE ZONE 31 LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, CST tie-in area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform.

SOURCE CODE: C-PLAT-31

TARGET:  
Line 567-2"; auxiliary feed pump recirc. line.

TARGET CODE: P-0567-2

POSTULATED INTERACTION:  
Platform falls, impacts line 567.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and IDS file No. 21-03-01-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S-G  
8/31/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-02-07-01

FIRE ZONE 3-RR LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
South face of CST, Elev. 115.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-ladder  
Overhead ladder, railing, ladder/cage assembly mounted on CST, & fuel handling building siding.

TARGET: TARGET CODE: I-tubing  
1" instrument tap on bottom of CST.

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL  
Ladders, etc. fall, impact instrument tap.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of structurals listed above by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Ladder etc. qualified by analysis. See resolution sheet and IDS file No. 17-01-58-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO  
NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

S-G  
8/3/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-02-10-01FIRE ZONE 31 LOCATION Aux./Fuel Handling FLOOR ELEVATION 110'-0"LOCATION WITHIN FIRE ZONE:  
Elev. 110' Col Lines V and 10.7

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: CST, Pipe Vault Structure, and Aux. Bldg. Structure SOURCE CODE: C-RSM-31TARGET: Line 1917-4", CST 1-1 from transfer pumps TARGET CODE: P-1917-4POSTULATED INTERACTION: PHENOMENA CODE: RELSTRUCT  
Piping is anchored to CST, supported off of pipe vault structure between CST and Aux. Bldg., and supported off of Aux. Bldg. structure. The three structures have different seismic responses. Relative motion between structures damages piping.RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify relative motion between the three structures does not damage pipingS. E. Traisman 08/05/82  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
As a rule for all seismic class I piping, relative motions between pipes and Flex. equipment, pipe in different buildings is considered in the pipe stress analysis calculations.  
For the above identified target, SAM (Seismic Anchor Motions) has been considered.M. R. Tresler (D. C. Unit 1, Stress Group)  
DISCIPLINE ENGINEER/DATEK. M. Krause 07/08/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 08/04/83  
SIP PROJECT ENGINEER APPROVAL/DATE

Gm

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-03-01-01

FIRE ZONE 31 LOCATION Aux./Fuel Handling FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 115, CST tie-in area.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead platform.

SOURCE CODE: C-PLAT-31

TARGET:  
Tubing & root valve to LT-40

TARGET CODE: I-LT40

POSTULATED INTERACTION:  
Platform falls, impacts tubing & root valve.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 06/04/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and 21-03-01-01.

S. Hanusiak 01/23/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
3/3/84

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-03-03-01FIRE ZONE 3-AA LOCATION Aux./Fuel Handling FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:

Below 140, area K, (U, 16').

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Auxiliary STM to MU deaerator L4546.

SOURCE CODE: NS-T

TARGET: FNGF (cable tray).

TARGET CODE: F-FNGF

POSTULATED INTERACTION: Steam line touching the top of FNGF causes heat damage.

PHENOMENA CODE: ENVIRONRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure by analysis that the temperature at the exterior of the insulation will not damage the wires in FNGF.

Edward Dennison 06/10/81  
WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Resolved by analysis described in RICA Report #41.S. Motiwalla 08/26/81  
DISCIPLINE ENGINEER/DATER. I. Cloud 08/28/81  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EF EMS [FNG] GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 11/07/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-03-03-02

FIRE ZONE 3-X LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 100, Area K, (U, 16<sup>2</sup>), on ceiling above.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 1" Yellow hydrogen line restrained vertically by a wire tie SOURCE CODE: P-USB-3X

TARGET: K9894 TARGET CODE: E-K9894-3

POSTULATED INTERACTION: Hydrogen line falls and impacts T-K9894 where it empties into the cable tray PHENOMENA CODE: SPTFAIL & HOUSEKEEP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Remove the hydrogen line

E. Denison 06/10/81  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Recommended Resolution - O.K. See ART 437.

C. R. Van Natta 09/01/83  
 DISCIPLINE ENGINEER/DATE

K. M. Krause  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 02/24/84  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 4/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-04-03-04FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 108, 2' &amp; 10' west of col. L., 10' north of 15.7.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Trapeze pipe support assemblies (3) to line 3354- 1 1/2" &amp; 1" stainless line.

SOURCE CODE: P-3354-1.50TARGET:

Line 3006-4"; demin. water make-up.

TARGET CODE: P-3006-4POSTULATED INTERACTION:

lateral motion of pipe support assemblies results in impact with line 3006.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Remove trapeze pipe support assemblies and support pipe from above.

M. Jones 06/10/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Pipe supports 049339-356R and - 357R will prevent the (3) trapeze pipe supports from interacting with the target line 3006 - 4".

The maximum movement of line 3006-4" at data point 50 is .020 ". this is less than the existing .50 in clearance.

C. R. VanNatta 09/29/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 09/29/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 11/02/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-04-03-06

FIRE ZONE 3Q1 LOCATION Safety Related Pump FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 112, Over MU Transfer Pumps

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: P-0382-4  
Line 382-4" Seawater Evap. distillate to condensate storage tank  
(spec. K, Sch. 40)

TARGET: TARGET CODE: P-3006-4  
Line 3006-4"; Demin. water make-up (Spec. S2, Sch. 10S)

POSTULATED INTERACTION: PHENOMENA CODE: DEFLECT  
Lateral deflection of line 382 results in impact with line 3006. Existing  
clearance is approximately 1".

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure pressure boundary integrity of line 3006 by simplified impact  
analysis.

M. Jones 6/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Additional support per hanger DWG. 049339 Sht. 271 in Generic DCN-DC1-  
5061-PRO.

C. R. Van Natta 01/24/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 10/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 . DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 21-04-10-03FIRE ZONE 3-R LOCATION Aux./Fuel Handling FLOOR ELEVATION \_\_\_\_\_

## LOCATION WITHIN FIRE ZONE:

EL 135' cols, 12.9 and U along casic decon area wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: SOURCE CODE: C-CRANF-3R  
 Misc. appurtenances mounted on fuel HDL Bldg. crane.

TARGET: TARGET CODE: P-2242-3  
 Line 2242-3", from MU water transfer pump to SFP 1-1.

POSTULATED INTERACTION: PHENOMENA CODE: CIVILFAIL  
 Appurtenances fall off of crane and impact pipe.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify integrity of misc. appurtenances.

S. E. Traisman 07/21/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Protective barrier has been installed to protect the target line. See ART  
 No. 517 and calc. No. 21-04-10-03.

N. K. Makam 04/05/84  
DISCIPLINE ENGINEER/DATE

Fathy A Morsy 04/06/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO  
 MAN

S. E. Skochko 06/01/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/18/84  
SIP PROJECT ENGINEER APPROVAL/DATE

5-6  
 3/11/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-01-01-01

FIRE ZONE 30-A-1 LOCATION Intake Structure FLOOR ELEVATION -2'

LOCATION WITHIN FIRE ZONE:  
Elev. -2, Aux. Saltwater Pump 1-1 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead Platform & Ladder

SOURCE CODE: C-Plat-30A1

TARGET:  
Aux. Saltwater Pump 1-1 & Associated Piping and Valves

TARGET CODE: M-ASWPP1-1

POSTULATED INTERACTION:  
Platform and Ladder fall, impact Pump

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of Platform and Ladder by simplified Analysis.

M. Jones 06/24/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform/Ladder qualified by Analysis. See Calc.'s No. 22-01-01-01

S. Hanusiak 1/23/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO MAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

Lee Horn 8/23/82  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-01-01-02FIRE ZONE 30-A-1 LOCATION Intake Structure FLOOR ELEVATION -2-1.25

## LOCATION WITHIN FIRE ZONE:

Elev. -2, Aux. Saltwater pump 1-1 Room

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Light fixtures (2), Ball/Socket mounted

SOURCE CODE: E-LF-30A1TARGET:

Aux. Saltwater Pump 1-1 and associated piping and valves

TARGET CODE: M-ASWPP1-1POSTULATED INTERACTION:

Fixtures fall, impact pump

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixtures, possibly by analysis.

M. Jones 6/24/80

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 9. This fixture type has been qualified by Analysis per calculation 52.24.52. No further action necessary.

ACB  
7/25/84

R. J. Swaim 05/25/83

DISCIPLINE ENGINEER/DATE

G. Bhatt 05/25/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 4/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-03-02-02

FIRE ZONE 30-A-5 LOCATION Intake Structure FLOOR ELEVATION -2'-1.25"

LOCATION WITHIN FIRE ZONE:  
Elevation -2, mid-room near east wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 677-16"; screen wash supply to SCW HX, cast iron pipe SOURCE CODE: P-0677-16

TARGET: Line 687-24"; auxiliary saltwater pump 1-1 discharge TARGET CODE: P-0687-24

POSTULATED INTERACTION: Line 677 falls, impacts line 687 PHENOMENA CODE: Pipefail

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of line 677

M. Jones 10/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added pipe support per DCN-DC1-EP-5061-HGR. DWG. 049339-339/301R

C. R. Van Natta 10/10/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 10/10/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO MAN

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/15/84  
SIP PROJECT ENGINEER APPROVAL/DATE

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PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-03-02-03FIRE ZONE 30-A-5 LOCATION Intake Structure FLOOR ELEVATION 2-1<sup>1</sup>/<sub>4</sub>"

LOCATION WITHIN FIRE ZONE:  
 Elev. 2, mid-room near east wall.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 CO<sub>2</sub> cylinders - CWP fire protection system.

SOURCE CODE: M-BOTTLE:

TARGET:  
 Line 687-24"; auxiliary saltwater pump 1-1 discharge.

TARGET CODE: P-0687-24POSTULATED INTERACTION:

CO<sub>2</sub> cylinders fall from rack or rack fails, resulting in toppling of the cylinders and subsequent damage to cylinder valves, causing cylinders to become missiles - impacting line 687.

PHENOMENA CODE: SPTFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of CO<sub>2</sub> cylinders and cylinder rack. Add restraints if/as required.

M. Jones 10/29/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Tighten 1/2" nuts of CO<sub>2</sub> cylinder storage rack clamps on high pressure CO<sub>2</sub> system in intake structure. This will prevent CO<sub>2</sub> cylinders falling from rack and generating missiles which impact line 687. Rack is adequately anchored to wall and will not fall or fail. Torque bolts to minimum of 30 lb.-ft. (See referenced ART). Resolved by modification per ART 101 and calculation M-575.

DISCIPLINE ENGINEER/DATE

E. Connell III  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&amp;C PSE NPO NAN

S. E. Traisman 02/14/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 02/16/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E. 8/28/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-05-02-02

FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

In CCW HXCGR room north of col 15 between F&G.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform P11T-1, NE of CCWHX 1-2.

SOURCE CODE: C-P11T-1

TARGET:

Inst. lines associated with PT-5, PT-6 & various Class I inst. lines going to PM-149 (8 total).

TARGET CODE: I-GENERIC

POSTULATED INTERACTION:

The Class I inst. lines are supported off of Class II platform. Platform fails and/or undergoes excessive lateral displacement resulting in damage to inst. tubes.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Qualify platform or reroute inst. line that are supported off of platform.

S. Skochko 02/24/84  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The subject platform has been qualified for the Hosgri event against collapse. Qualification methodology is similar to that used for the non-Class I turbine building, which itself has numerous Class I attachments. Refer to Civil Calculation No. 20-14-01-04 for qualification of the platform. This is based on a conversation between Mr. Bill Walker, Civil SIP Walkdown member, and Mr. Safwat Gaballah, Unit 1 Civil SIP Group leader. Bill Walker also discussed turbine building qualification with Mr. Herman Minkowski, Unit 1 Civil turbine building Group leader. See technical review No. 8216-TR-0671 & Telecon (Chron. No. 048011, dated 04/02/84). Notice: This IDS is a result of final SIP WD.

S. Skochko/W. L. Walker 02/29/84  
DISCIPLINE ENGINEER/DATE

D. R. Warren 03/01/84  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 06/05/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-05-02-03FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

South end of component cooling water HX room.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform P9T-1.

SOURCE CODE: C-P9T-1TARGET:

Instrument lines associated with PT-5 and PT-6. (ASW diff. PT ACROSS CCWHX).

TARGET CODE: I-PT5POSTULATED INTERACTION:

Class I instrument lines are supported from Class II platform.

PHENOMENA CODE: CIVIL FAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Re-route lines away from platform.

W. S. Walker 02/24/84

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The subject platform has been qualified for the Hosgri event against collapse. Qualification methodology is similar to that used for the non-Class I turbine building, which itself has numerous Class I attachments. Refer to Civil Calculation No. 20-14-01-04 for qualification of the platform. This is based on a conversation between Mr. Bill Walker, Civil SIP Walkdown member, and Mr. Safwal Gaballah, Unit 1 Civil SIP Group leader. Bill Walker also discussed turbine building qualification with Mr. Herman Minkowski, Unit 1 Civil turbine building Group leader. See technical review No. 8216-TR-0671 & Telecon (Chron. No.. 048011, dated 04/02/84). Notice: This IDS is a result of final SIP WD.

S. Skochko/W. Walker 02/29/84

DISCIPLINE ENGINEER/DATE

D. R. Warren 03/01/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC [I&C] PSE NPO  
 NAN
FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/05/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-06-07-02FIRE ZONE 14-E LOCATION Containment FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 95', over CCW HX's 1-1 & 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead fluorescent light fixtures.

SOURCE CODE: E-LF-14E

TARGET:  
 Tubing to PT-5.

TARGET CODE: I-PT5

POSTULATED INTERACTION:  
 light fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of light fixtures.

M. Jones 05/13/82  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*ks* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG 050041, detail 9. This fixture type has been qualified by analysis per calculation 52-24-52. No further action necessary. Resolved by analysis.

R. J. Swaim 05/25/83  
 DISCIPLINE ENGINEER/DATE

G. C. Bhatt 05/25/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&amp;C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-06-07-03FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 95', over CCW HX's 1-1 &amp; 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class II platforms.

SOURCE CODE: C-PLAT-14ETARGET:

Tubing to PT-5.

TARGET CODE: I-PT5POSTULATED INTERACTION:

Platforms fall, impact tubing. In some areas, tubing is supported from the Class II platforms.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms by simplified analysis. Verify acceptability of supporting tubing from these platforms in light of platform movements &amp; qualification status.

M. Jones 05/13/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platforms have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 20-14-01-04 and resolution sheet.

S. Gaballah 09/23/82  
DISCIPLINE ENGINEER/DATEB. Sarkar 09/23/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&amp;C PSE NPO NAN

L. W. Horn 01/03/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-06-08-02 IntercompFIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 119'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 119', col. G between 16 and 17.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Concrete block wall. (east wall of lube oil &amp; reservoir room).

SOURCE CODE: C-WALLTARGET:

Conduit KD351.

TARGET CODE: E-KD351-1.50POSTULATED INTERACTION:

Concrete block wall fails and impacts target.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify integrity of wall by simplified analysis.

S. E. Traisman 09/01/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Block wall has been seismically qualified under Concrete Block Wall Evaluation Program in accordance with IE Bulletin 80-11". See Calc. No. 52-26 and DCN No. DC1-EC-11577-RO.

S. Gaballah

DISCIPLINE ENGINEER/DATE

B. Sarkar

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 09/28/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-07-01-01

FIRE ZONE 30-A-2 LOCATION Intake Structure FLOOR ELEVATION -2-1.25

LOCATION WITHIN FIRE ZONE:  
Elev. -2, Aux. Saltwater pump 1-2 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead Light fixtures (2), Ball/Socket mounted SOURCE CODE: E-LF-30A2

TARGET: Aux. Saltwater Pump 1-1 and associated piping and valves TARGET CODE: M-ASWPP1-2

POSTULATED INTERACTION: Fixtures fall, impact pump PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixtures, possibly by analysis.

M. Jones 6/24/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 9. This fixture type has been qualified by Analysis per calculation 52.24.52. No further action necessary.

*Acis  
7/25/87*

R. J. Swaim 05/25/83  
DISCIPLINE ENGINEER/DATE

G. Bhatt 05/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-09-02-02

FIRE ZONE 30-A-5 LOCATION Intake Structure FLOOR ELEVATION 2'-1 3/4"

LOCATION WITHIN FIRE ZONE:  
Elev. 2", mid-room near east wall.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
CO<sub>2</sub> cylinders - CWP fire protection system.

SOURCE CODE: M-BOTTLE

TARGET:  
Line 680-24"; auxiliary saltwater pump 1-2 discharge.

TARGET CODE: P-0680-24

POSTULATED INTERACTION:  
CO<sub>2</sub> cylinders fall from rack or rack fails, resulting in toppling of the cylinders and subsequent damage to cylinder valves, causing cylinders to become missiles - impacting line 680.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of CO<sub>2</sub> cylinders and cylinder rack. Add restraints if/as required.

M. Jones 10/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Modification per ART 102 and Calc. M-575. Tighten 1/2" nut of CO<sub>2</sub> cylinder storage rack clamps on high pressure CO<sub>2</sub> system in intake structure. This will prevent CO<sub>2</sub> cylinders falling from rack and generating missiles which impact line 680. Rack is adequately anchored to wall and will not fail or fall. Torque bolts to minimum of 30lb-ft. (See referenced ART).

DISCIPLINE ENGTFER/DATE

E. Connell, IJT  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

S. E. Traisman 02/14/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 02/16/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*A.J.E. 8/30/81*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-09-02-03

FIRE ZONE 30-A-5 LOCATION Intake Structure FLOOR ELEVATION 2'-1.25"

LOCATION WITHIN FIRE ZONE:  
Elevation -2, mid-room near east wall

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Line 677-16"; screen wash supply to SCW HX, cast iron pipe SOURCE CODE: P-0677-16

TARGET: Line 680-24"; auxiliary saltwater pump 1-2 discharge TARGET CODE: P-0687-24

POSTULATED INTERACTION: Line 677 falls, impacts line 680 PHENOMENA CODE: Pipefail

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of line 677, possibly by analysis

M. G. Jones 10/29/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
See IDS No. 22-03-02-02

C. R. Van Natta 10/10/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 10/10/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAW

S. E. Traisman 02/24/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

5



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-09-04-01FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

South end of component cooling water heat exch. room, between exchangers.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Platform P9T-1.

SOURCE CODE: C-P9T-1TARGET:

Conduit K4867- 3/4" (grey).

Conduit K4866- 3/4" (orange).

(Electrical circuits associated with SV-385 and SV-386 to ASW valves FCV-602 and 603).

TARGET CODE: E-K4866-0.75POSTULATED INTERACTION:

Class I conduits are supported from Class II platform.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Re-route conduits, providing supports from Class I material. Provide adequate clearance (&gt;1") between conduits and platform.

Note: This IDS is a result of final SIP area walkdown.

W. L. Walker 02/24/84

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*Act*  
 The subject platform has been qualified for the Hosgri event against collapse. Qualification methodology is similar to that used for the non-Class I turbine building, which itself has numerous Class I attachments. Refer to civil calculation No. 20-14-04-04 for qualification of the platform. This is based on a conversation between Mr. Bill Walker, civil SIP walkdown member, and Mr Safwat Gaballah, unit I civil SIP group leader. Bill Walker also discussed turbine building qualification with Mr. Herman Minkowski, Unit I civil turbine Building group leader. See technical review No. 8216-TR-0648, dated 03/28/84.

C. Wong 02/29/84

DISCIPLINE ENGINEER/DATE

C Kahl 03/01/84

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 06/05/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-17-07-01FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elevation 95', over CCW HX's 1-1 &amp; 1-2.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class II platforms.

SOURCE CODE: C-PLAT-14ETARGET:

Tubing to PT-6.

TARGET CODE: I-PT6POSTULATED INTERACTION:

Platforms fall, impact tubing. In some areas, tubing is supported from the Class II platforms.

PHENOMENA CODE: CIVILFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platforms by simplified analysis. Verify acceptability of supporting tubing from these platforms in light of platform movements &amp; qualification status.

M. Jones 05/13/82WALKDOWN TEAM ORIGINATOR/DATEFINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Platforms have been seismically qualified by analysis. See resolution sheet and referenced Calc. No. 20-14-01-04 and resolution sheet.

S. Gaballah 09/23/82DISCIPLINE ENGINEER/DATEB. Sarkar 09/23/82ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/03/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-12-07-03

FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 95', over CCW HX's 1-1 & 1-2.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Overhead fluorescent light fixtures.

SOURCE CODE: E-LF-14E

TARGET:  
Tubing to PT-6.

TARGET CODE: I-PT6

POSTULATED INTERACTION:  
Light fixtures fall, impact tubing.

PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of light fixtures.

M. Jones 05/13/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

*kb* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG 050041, detail 9. This fixture type has been qualified by analysis per calculation 52.24.52. No further action necessary. Resolved by analysis.

R. J. Swaim 05/25/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 05/25/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 04/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-12-08-01

FIRE ZONE 14-F LOCATION Turbine Bldg FLOOR ELEVATION 85'-0"

LOCATION WITHIN FIRE ZONE:

Flev. 100', cols. G between 15 & 16 east of CCW HX's.

15  
16

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction deficiency.

SOURCE CODE: NS-CN

TARGET:  
Conduit KD353-1".

TARGET CODE: F-KD353-1

POSTULATED INTERACTION:  
Condulet cover missing.

PHENOMENA CODE: HOUSEKFFP

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Replace cover.

S. E. Traisman 07/21/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
IDS is a result of a construction deficiency. IDS transferred to onsite quality control. Construction deficiency to be corrected during normal course of construction activities.

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C PSE NPO NAN [CC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 07/31/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-12-08-03FIRE ZONE 14-E LOCATION Turbine Bldg FLOOR ELEVATION 85'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100' col. G between 15 and 16 east of CCWHX's.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:1-1/2" sprinkler line for CCW HX area.SOURCE CODE: P-SPR-14ETARGET:Conduit KD353-1".TARGET CODE: E-KD353-1POSTULATED INTERACTION:PHENOMENA CODE: SPTFAIL

Sprinkler pipe has supports poorly clamped to structural steel. Supports fail, pipe impacts conduit. Conduit and pipe run perpendicular to each other.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Provide rod hanger supports for sprinkler line with clevis hooks welded to structural steel. Add bilats as necessary to restrain sprinkler pipe motion. Note: sprinkler pipe sway brace in vicinity of interaction is attached onto Class I unistrut electrical conduit support.

S. E. Traisman 07/21/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Addition of new support which resolved by hanger DWG 049339 Sht. 190 thru 235 in DCN DC1-EP-3865 and Sht 296, Rev. 1 in Generic DCN DC1-5061. Also sprinkler pipe sway brace that attached onto Class I unistrut electrical conduit support has been removed by new support.  
 See also IDS No. 20-14-01-03.

C. R. VanNatta 01/31/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 01/31/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

G. Zaharoff 02/08/84  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 02/20/84  
SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-12-08-04FIRE ZONE 14-E LOCATION Turbine Building FLOOR ELEVATION 100'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 100' col. G between 15 and 16 east of CCW HX's.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:SOURCE CODE: P-USB-14E

Vent line off of water supply to phosphate system, line 93-2" labeled "not used".

TARGET:TARGET CODE: E-KD353-1

Conduit KD353-1".

POSTULATED INTERACTION:PHENOMENA CODE: SPTFAIL & HOUSEKEEP

Fixed end rod hangers fail, hand wheel for vent line valve impacts conduit.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

1. Remove source line if it is not envisioned to be required in the future.  
- OR -
2. Replace fixed end rod hangers with clevis hooks.

S. E. Traisman 07/21/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Removal of offending line per ART-350.

J. Huth 03/01/83

DISCIPLINE ENGINEER/DATE

J. A. Lonworth 03/01/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NANS. E. Traisman 02/24/84FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 04/20/84

SIP PROJECT ENGINEER APPROVAL/DATE

JJE 8/9/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-12-08-05 Intercomp

FIRE ZONE 14-A LOCATION Turbine Building FLOOR ELEVATION 104'-0"

LOCATION WITHIN FIRE ZONE:  
Elevation 119', col. G, between 16 and 17.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Concrete block wall (east wall of lube oil reservoir room). SOURCE CODE: C-WALL

TARGET: Conduit KD 350. TARGET CODE: E-KD350-150

POSTULATED INTERACTION: Concrete block wall fails and impacts target. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Verify integrity of wall be simplified analysis.

S. E. Traisman 09/01/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Block wall has been seismically qualified under "concrete block wall evaluation program in accordance with IE bulletin 80-11". See Calc. No. 52.26 and DCN No. DC1-EC-11577-RO.

S. Gaballah  
DISCIPLINE ENGINEER/DATE

B. Sarkar  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NRR

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 09/28/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-16-01-01

FIRE ZONE 30-A-5 LOCATION Intake Structure FLOOR ELEVATION 4'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 4, outside Aux. Saltwater Pump Rooms

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 Overhead cast iron Pipe to screen wash pumps

SOURCE CODE: P-ULB-30A5

TARGET:  
 Aux. saltwater pump gate operator 1-8

TARGET CODE: M-ASWG01-8

POSTULATED INTERACTION: PHENOMENA CODE: SPTFAIL & PIPEFAIL  
 Cast iron pipe or screwed fittings fail, pipe falls on gate operator, gate operator is damaged sufficiently to cause the gate to lower to the closed position.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Pin or otherwise secure the gate itself in the upright position. Ensure that unwanted energization of the gate operator (due to damaged conduits) or falling pipe will not compromise the pinning mechanism.

M. Jones 03/25/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolution by Analysis - justification that the ASW pump gate operator will maintain the bay gate in the open condition, and damage to conduits will not cause gate closure in the event that pipe (failure) interacts with components. This resolves the Postulated Interaction.

*J.L.S. 8/24/84*



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-16-01-01

ADDENDUM A

(Interaction No. 22-17-01-01 and 22-16-01-01)

In response to your technical review, the following comments are addressed:

Comment No. 1

"Should the casing be destroyed, the stem nut will not be able to hold the stem in the up position."

Response)

The above hypothetical comment suggests that the valve casing would completely disintegrate and cause the stem and gate to fall. In order for this to occur, the internally threaded stem nut would have to completely disengage itself from the 4-1/4" inch diameter Acme threaded stem and surrounding supporting parts of the valve. This infers that the adjacent drive sleeve and geared parts would not provide any frictional surface contact between the stem nut which is splined to a worm gear driven sleeve. Hence, the valve body would have to completely break apart for this to occur.

Alternate, more probable scenarios could be postulated as follows:

- (A)
1. A piece of the 24 inch diameter pipe (horizontally displaced and falling approximately 6 feet) would ricochet off the stem pipe enclosure which rises above the screen wash pipe.
  2. The impact could conceivably deform the protective pipe enclosure and bend or distort the valve stem inside.
  3. Any further impact on the valve body would tend to crack the casing and only disrupt functional engagement of internal gears and threaded parts.
  4. There would be sufficient internal valve body restraint to prevent the "Acme threaded stem" from completely slipping through the stem nut.
- (B)
1. The screen wash pipe could be seismically displaced in a vertical mode and cause a piece to fall straight down and completely miss the valve operator body.

Comment No. 2

"Unwanted energization has not been addressed. This could occur when the limit switch compartment is impacted, or when the torque switch is impacted. Collapsed conduits may also cause unwanted energization."

Response)

*A.J.E. 8/24/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-16-01-01

The torque switches are wired in series with the geared limit switches to protect against mechanical overload anywhere between full open and closed positions of the valve. In case either one switch or conduit is impacted and affects the integrity of the circuitry, an electrical shunt/short circuit (if it occurs) would blow the 5 AMP fuse on the secondary side of the 480/120V control transformer and prevent energization of the starter relay in either "open" or "close" position.

Resolution

The recommended resolution to place a removable pin in the gate or stem would be difficult to accomplish and would hinder operational functions with the weight bearing down on the fixed pin.

The above response to comments 1 and 2 constitutes an "engineering judgment" resolution to the postulated interaction and, therefore, no further action is required.

E. Barna  
 DISCIPLINE ENGINEER/DATE

E. C. Connell  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 03/17/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E. 8/24/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 22-17-01-01FIRE ZONE 30-A-5 LOCATION Intake Structure FLOOR ELEVATION 4'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 4, outside Aux. Saltwater Pump Rooms

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead cast iron Pipe to screen wash pumps

SOURCE CODE: P-ULB-30A5TARGET:

Aux. saltwater pump gate operator 1-9

TARGET CODE: M-ASWGO1-9POSTULATED INTERACTION:

Cast iron pipe or screwed fittings fail, pipe falls on gate operator, gate operator is damaged sufficiently to cause the gate to lower to the closed position.

PHENOMENA CODE: SPTFAIL & PIPEFAILRECOMMENDED RESOLUTION BY WALKDOWN TEAM:

- Pin or otherwise secure the gate itself in the upright position. Ensure that unwanted energization of the gate operator (due to damaged conduits) or falling pipe will not compromise the pinning mechanism.

M. Jones 3/25/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Resolution by Analysis - justification that the ASW pump gate operator will maintain the bay gate in the open condition, and damage to conduits will not cause gate closure in the event that pipe (failure) interacts with components. This resolves the Postulated Interaction. See final resolution for IDS # 22-16-01-01.

E. Barna

DISCIPLINE ENGINEER/DATE

E. C. Connell

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE [EMS] ENG GC HVAC I&C PSE NPO  
NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 03/17/83  
 SIP PROJECT ENGINEER APPROVAL/DATE

*D.J.E.* *8/24/84*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-01-01-01

FIRE ZONE 31 LOCATION Aux./Fuel Handling FLOOR ELEVATION 110'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 110' Col Lines V and 12.9

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: RWST, Pipe Vault Structure, and Aux. Bldg. Structure  
SOURCE CODE: C-RMS-31

TARGET: Line 261-12" RWST to Con. Spray Pumps.  
TARGET CODE: P-0261-12

POSTULATED INTERACTION: Piping is anchored to RWST, supported off of pipe vault structure between RWST and Aux. Bldg., and supported off of Aux. Bldg. structure. The three structures have different seismic responses. Relative motion between structures damages pipe.  
PHENOMENA CODE: RELSTRUCT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Verify relative motion between the three structures does not damage piping

S. E. Traisman 08/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 As a rule for all seismic class I piping, relative motions between pipes and Flex. equipment, pipe in different buildings is considered in the pipe stress analysis calculations.  
 For the above identified target, SAM (Seismic Anchor Motion) has been considered.

M. R. Tresler (D. C. Unit 1, Stress Group)  
DISCIPLINE ENGINEER/DATE

K. M. Krause 07/08/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO HAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/04/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-01-09-01FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 85'

## LOCATION WITHIN FIRE ZONE:

Col. N and 3' north of col. 15<sup>7</sup>, azimuth 180°. Area GE-GN.

## IDENTIFICATION OF INTERACTING COMPONENTS

## SOURCE:

SOURCE CODE: P-0749-8

Line S3-749-2-B (RX cav./cont. spray PPS discharge to FDRS).

## TARGET:

TARGET CODE: PS-0279-8

Sway strut HGR No. 555-164R of line S1-279-8-B (RHR supply to spray HDR 1&amp;3).

## POSTULATED INTERACTION:

PHENOMENA CODE: SPTFAIL

Clearance between line S3-749-2 and the sway strut support of line S1-279-8 is 2". Failure of the fixed end rod supports results in lateral movement of line S3-749-2 causing impact to the lower pin of the sway strut of line S1-279-8 resulting in failure of the support.

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Replace the lower pin secured by cotter pin at each end with a pin secured with nuts or with a bolt and nut.

Note: This postulated interaction is a result of modifications associated with DCN DC1-EP-3565. (Addition of support 55S-164 to line 279-9").

S. Cudiamat 06/23/83

WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

On support No. 55S-164R. Modified lower pin per DCN #DC1-E-P-3565,  
 Rev. 1.

E. L. Green 08/15/83

DISCIPLINE ENGINEER/DATE

K. M. Krause 08/16/83

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&amp;C [PSE] NPO NAN

S. E. Traisman 11/07/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 01/18/84

SIP PROJECT ENGINEER APPROVAL/DATE

SW

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-02-04-01

FIRE ZONE 3F LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73, CS Pump 1-1 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead fluorescent light fixtures (3) chain supported  
 SOURCE CODE: F-LF-3F

TARGET: CS Pump 1-1  
 TARGET CODE: M-CSPP1-1

POSTULATED INTERACTION: Fixtures fall on pump and attached tubing.  
 PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of fixtures. Additional support will be required.

M. Jones 05/19/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 The above source light fixture has been field inspected and verified to be installed in accordance with PG&E DWG. 050041, Detail 8. Install back-up support chain per DCN-DCO-FE-5552 Rev. 1 SH. 9 of 9, See ART 377. Resolved by modification.

R. J. Swaim 05/17/83  
 DISCIPLINE ENGTNFR/DATE

G. C. Bhatt 05/18/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAM

S. F. Traisman 05/17/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

Lee Horn 10/24/83  
 SIP PROJECT ENGTNFR APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-12-04-02

FIRE ZONE 3-F LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73, Outside CS Pump 1-2 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
 CS Pump 1-2 Room Security Barrier

SOURCE CODE: C-SB

TARGET:  
 CS Pump 1-2

TARGET CODE: M-CSPP1-2

POSTULATED INTERACTION:  
 Security Barrier falls, impacts CS Pump 1-2.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Ensure integrity of security Barrier by simplified analysis.

M. Jones 10/27/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Barrier qualified by analysis. See resolution sheet and Calc. No.  
 23-12-04-02.

S. Hanusiak 03/12/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/12/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAM

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-12-04-03FIRE ZONE 3-F LOCATION Penetration Areas FLOOR ELEVATION 73'-0"

## LOCATION WITHIN FIRE ZONE:

Elev. 73', CS pump 1-2 room.

## IDENTIFICATION OF INTERACTING COMPONENTS

## SOURCE:

Overhead light fixtures, chain supported (2).

SOURCE CODE: F-1F-3F

## TARGET:

CS pump 1-2.

TARGET CODE: M-CSPP1-2

## POSTULATED INTERACTION:

Fixtures fall on pump and attached tubing.

PHENOMENA CODE: FIXTURE

## RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of fixtures. Additional support will be required.

M. Jones 05/14/80

WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Ref The above source light fixture has been field inspected and verified to be installed in accordance with PGandF DWG 050041, detail 8. Install back-up support chain per DCN DCO-FE-5552 Rev. 1, Sh. 9 of 9. See ART 377.  
Resolved by Modification.

R. J. Swain 05/17/83

DISCIPLINE, FINGER/DATE

G. C. Bhatt 05/18/83

EXGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] EMS FMG GC HVAC I&amp;C PSE NPO MAN

S. F. Traisman 10/14/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)I. W. Horn 10/24/83

SIP PROJECT FINGER APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-15-02-01

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 91'-0"

LOCATION WITHIN FIRE ZONE:

Along containment wall @ azimuth 148° and elev. 110'-0".

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Class I line K17-1357-6" (RC PPS barrier CCW RET HDR).

SOURCE CODE: P-1357-6

TARGET:

PT-934 (containment press prot. 4).

TARGET CODE: I-PT934

POSTULATED INTERACTION:

3/16" clearance between source and target. Radial outward motion from crane wall (lateral motion of source) @ azimuth 148° causes impact between source and target.

PHENOMENA CODE: INTERFERE & DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Verify motion of source line at potential contact point does not exceed 3/16". Thermal movement exceeds the 3/16" considerably. Recommend rotating PT-934 45° on the civil steel or relocating the support all together.

S. Skochko 09/15/83  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

Bellows rotated per ART 443 and see also Calcs. Done by R. Hankins on 09/16/83.

S. Skochko 09/21/83  
 DISCIPLINE ENGINEER/DATE

J. P. Meierdierks 09/22/83  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS EDG GC HVAC I&C PSE NPO SAN

S. E. Traisman 11/29/83  
 FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 01/18/84  
 SIP PROJECT ENGINEER APPROVAL/DATE

*SW*

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-20-02-02FIRE ZONE 3-8B LOCATION Penetration Area FLOOR ELEVATION 115'-0"LOCATION WITHIN FIRE ZONE: Elev. 115, GE area, near south wall

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixtures (2), ball/socket mounted SOURCE CODE: F-I.F-38BTARGET: Valve 9003B TARGET CODE: I-9003BPOSTULATED INTERACTION: Fixtures fall, impact valve and associated power cable. PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixtures, possibly by analysis.M. Jones 7/27/80  
WALKDOWN TEAM ORIGINATOR/DATE

## FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE.

*kes* The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 9 (Category X1)  
 This fixture has been qualified by analysis per calculation 52.24.52.  
 No further action necessary. Resolved by analysis.

R. J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATEG. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATEDISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NANFIELD VERIFICATION BY WALKDOWN TEAM  
( FOR MODIFICATIONS ONLY )L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO. PREPARED  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-24-06-01

FIRE ZONE 3F LOCATION Safety Related Pump FLOOR ELEVATION 73'

LOCATION WITHIN FIRE ZONE:

Elev. 73', along east wall near spray additive tank 1-1

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
2" and 1" N<sub>2</sub> Supply Line

SOURCE CODE: P-USB-3F

TARGET:  
Spray Additive Tank 1-1 and associated piping

TARGET CODE: M-SAT

POSTULATED INTERACTION:  
Piping falls or deflect excessively due to lack of vertical support and impacts spray additive tank.

PHENOMENA CODE: SPTFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add vertical pipe support at 12" horizontal run of 2" N<sub>2</sub> supply pipe elevation 95'.

M. G. Jones 7/22/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Added pipe support at vertical and horizontal. See generic DCN-DC1-EP-5061, Hgr. No. 049339 Sht. 267 and 268, and "as-built" condition on Hgr. Dwg. No. 049339 Sht. 118.

C. R. Van Natta 8/12/83  
DISCIPLINE ENGINEER/DATE

K. M. Krause 8/12/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EE EMS ENG GC HVAC I&C [PSE] NPO NAN

S. E. Traisman 09/21/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 1/19/84  
SIP PROJECT ENGINEER APPROVAL/DATE

Sw

PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PLANT, UNIT NO. 1  
 SYSTEMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
 INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-24-09-01FIRE ZONE 3F LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:

Elev. 78', along north wall near spary additive tank.

## IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:

Overhead Fluorescent light fixture

SOURCE CODE: E-FF-3FTARGET:

FT-930

TARGET CODE: I-FT930POSTULATED INTERACTION:

Light fixture falls, impact FT-930.

PHENOMENA CODE: FIXTURERECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of light fixture.

M. Jones 05/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The above source light fixture has been field inspected and verified to be installed in accordance with PG&F Dwg. 050041, detail 8. Install back-up support chain per DCN DCO-FF-5552 Rev. 1, Sh. 9 of 9, Detail 75.  
 See ART 377. Resolved by Modification.

R. J. Swaim 05/17/83

DISCIPLINE ENGINEER/DATE

G. C. Bhatt 05/18/83

EMGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [FE] FMS ENG GC HVAC I&C PSE NPO MANS. F. Traisman 10/14/83FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)L. W. Horn 10/24/83

SIP PROJECT ENGINEER APPROVAL/DATE

... OF ... SHEET ... OF ...  
PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-44-03-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100', containment wall azimuth 184°

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Construction Deficiency.

SOURCE CODE: NS-CD

TARGET:  
Conduit KT-284.

TARGET CODE: F-KT284-0.75

POSTULATED INTERACTION:

Construction deficiency. Conduit KT-284 requires an additional support on containment wall.

PHENOMENA CODE: HOUSKFEF

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Install support.

R. L. Cloud 06/09/81  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

ART 200 was written to resolve interaction. However, field verification of 9/1/82 revealed that ART 200 had not adequately resolved the interaction. INS accepted on an as-is basis. Electrical to verify interaction has been resolved (see SIP transmittal, 8/9/84 from L. W. Horn to S. Auer).

DISCIPLINE ENGINEER/DATE

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE EPS ENG GC HVAC I&C PSE SPO NAW [SC]

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/09/84  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)  
(20) 12345678901234567890

POSTULATED INTERACTION NO.: 23-46-01-01

FIRE ZONE: 3-BB LOCATION Penetration Area FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, at containment wall, 135°

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platform 11-GE.

SOURCE CODE: C-11GE

TARGET: Tubing to PT-937.

TARGET CODE: I-PT937

POSTULATED INTERACTION:  
Platform falls, impacts tubing.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and referenced  
Calc. No. 05-27-03-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

SG  
7/23/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY-INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 23-47-02-01

FIRE ZONE 3-8B LOCATION Penetration Area FLOOR-ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 100, at containment wall, 139'

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
Platform 11GE.

SOURCE CODE: C-11GE

TARGET:  
PT-932 and associated tubing.

TARGET CODE: I-PT932

POSTULATED INTERACTION:  
Platform falls, impacts PT-932.

PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of platform by simplified analysis.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and referenced  
Calc. No. 05-27-03-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/83  
SIP PROJECT ENGINEER APPROVAL/DATE

S.G.  
7/28/84

PACIFIC GAS & ELECTRIC CO.  
 PACIFIC GAS & ELECTRIC CO.  
 DIABLO CANYON PEAK UNIT NO. 1  
 (SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM)  
 INTERACTION DOCUMENTATION SHEET (IDS)  
 10-80-01-88

POSTULATED INTERACTION NO.: 23-48-03-02

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE: Elev. 110, near containment wall, 164'

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 2" firewater pipe, 2" instrument air pipe, 2 1/2" aux. feedwater pipe. SOURCE CODE: P-SPR-388

TARGET: Conduit KK 383-1" TARGET CODE: F-KK383-1.75

POSTULATED INTERACTION: Conduit contacts each of above lines seismic and/or thermal movements result in impact with conduit. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM: Reroute KK 383 to provide minimum 2" clearance to source lines and missing conduit support near instrument air line.

M. Jones 06/29/82 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE: Add missing conduit and reroute conduit KK383 to provide a minimum of 2 inches clearance to the source lines. Refer to ART 329. Resolved by modification.

Acts

Peter P. Chu 11/18/82 DISCIPLINE FMGTNFR/DATE

G. C. Bhatt 11/18/82 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS FNG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/24/83 FIELD VERIFICATION BY WALKDOWN TEAM (FOR MODIFICATIONS ONLY)

I. W. Horn 09/09/83 SIP PROJECT FMGTNFR APPROVAL/DATE



PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY-INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-49-03-01

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Flev. 110, 13 ft. west of N line, 7 ft. north of #35.7 (near Valve #18716A)

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Class 1 conduit support S401 for conduit K6318. SOURCE CODE: E-RS-3RR

TARGET: KK 379-3/4" conduit TARGET CODE: E-KK379-0.75

POSTULATED INTERACTION: lateral motion of S401 support results in impact with KK379 PHENOMENA CODE: DEFLECT

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Add lateral brace to conduit support S401 to preclude contact

M. Jones 06/10/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

ACB

1. Secure angle support brace (S6) to unistrut, As-built detail drawing indicated support is loose.
2. For Conduit K6318 Replace broken FMT connector & tighten FMT coupling as indicated in "as built" detail from the Civil Department. Modifications done by ART 329.

Peter P. Chu 11/15/82  
DISCIPLINE ENGTNFR/DATE

G. C. Bhatt 11/15/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

S. F. Traisman 08/30/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

SHEET 1 OF 1

POSTULATED INTERACTION NO.: 23-50-01-02

FIRE ZONE 1-A LOCATION Containment FLOOR ELEVATION 117'-0"

LOCATION WITHIN FIRE ZONE:  
Flav. 130, near containment wall, 146°

**IDENTIFICATION OF INTERACTING COMPONENTS**

SOURCE: Platform and ladder. SOURCE CODE: C-PLAT-1A

TARGET: Line 325-8"; containment spray header A, drain connection. TARGET CODE: P-0325-8

POSTULATED INTERACTION: Lateral deflection of platform results in impact with drain connection. PHENOMENA CODE: DEFLECT

**RECOMMENDED RESOLUTION BY WALKDOWN TEAM:**

- Add lateral brace to platform to reduce platform movement.
- OR:
- Verify that platform deflection is insufficient to cause contact.

M. Jones 07/22/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
lateral brace will be added and existing A307 bolts replaced with high strength bolts. See ART 292 and Calc. No. 23-50-01-02.

S. Hanusiak 01/28/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS ENG GC HVAC I&C PSE NPO NAM

M. Baker 08/02/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 08/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

*S.G.  
8/25/84*

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO. 23-56-02-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 115'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 130, near containment wall, 16002

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Overhead light fixture SOURCE CODE: E-LF-388

TARGET: Valve 9007A TARGET CODE: I-9007A

POSTULATED INTERACTION: Fixture falls, impacts valve. PHENOMENA CODE: FIXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Ensure integrity of fixture, possibly by analysis.

M. Jones 7/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
The above source light fixture has been field inspected and verified to be installed in accordance with PG&E Dwg. 050041, detail 9 (Category X).  
This fixture type has been qualified by analysis per calculation 52.24.52.  
No further action necessary. Resolved by analysis.

R.J. Swaim 3/4/83  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 03/04/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS ENG GC HVAC I&C PSE NPO NAN

L. W. Horn 8/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

L. W. Horn 8/24/83  
SIP PROJECT ENGINEER APPROVAL/DATE

POSTULATED INTERACTION NO. 23-66-01-01

FIRE ZONE 3F LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
 Elev. 73, Outside CS Pump 1-2 Room

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: CS Pump 1-2 Room Security Barrier SOURCE CODE: C-SB

TARGET: Spray additive tank TARGET CODE: M-SAT

POSTULATED INTERACTION: Security barrier falls, impacts tank. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
 Insure integrity of security barrier by simplified analysis.

M. Jones 10/27/80  
 WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
 Barrier qualified by analysis. See resolution sheet and Calc. No.  
 23-12-04-02.

S. Hanusiak 03/12/81  
 DISCIPLINE ENGINEER/DATE

E. P. Wollak 03/12/81  
 ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
 (FOR MODIFICATIONS ONLY)

L. W. Horn 08/23/82  
 SIP PROJECT ENGINEER APPROVAL/DATE

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-67-02-01

FIRE ZONE 3-F LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 73, over CS pump 1-1.

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
CS pump 1-1 ventilation duct (Class I).

SOURCE CODE: OTH-DUCT-3F

TARGET:  
CS pump 1-1 motor & associated equipment.

TARGET CODE: M-CSPPI-1

POSTULATED INTERACTION:

PHENOMENA CODE: SPTFAH

Duct is cantilevered over CS pump, last seismic duct support is 14 ft. from end of cantilever. Duct could fail, fall on CS pump motor & equipment.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of duct by simplified analysis. Add additional duct supports if/as required.

M. Jones 05/05/82

WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The subject duct has been qualified under the DCP Ductwork Reverification Program. DCN DC1-FC-3603 has been issued for modification. No further action required by SIP Group.

F. Morsy 10/18/82

DISCIPLINE ENGINEER/DATE

J. K. McCall 11/03/82

ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] FE EMS FNG GC HVAC I&C PSF NPO NAN

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5.6  
8/5/84

DIAGNO. CANYON PLANT J. 1982: 1  
(DC) SEISMICALLY-INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-68-02-01

FIRE ZONE 3-F LOCATION Safety Related Pump FLOOR ELEVATION 73'-0"

LOCATION WITHIN FIRE ZONE:  
Elev. 73. Over CS Pump 1-2

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE:  
CS Pump 1-2 Ventilation Duct. (Class 1)

SOURCE CODE: H-DUCT-3F

TARGET:  
CS Pump 1-2 Motor and Associated Equipment

TARGET CODE: M-CSPP1-2

POSTULATED INTERACTION:

PHENOMENA CODE: SPTFAIL

Duct. is cantilevered over CS pump, last seismic duct support is 14 ft. from end of cantilever. Duct could fail, fall on CS pump motor and equipment.

RECOMMENDED RESOLUTION BY WALKDOWN TEAM

Ensure integrity of duct by simplified analysis. Add additional duct supports if/as required.

M. Jones 05/05/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:

The subject duct has been qualified under the DCP Ductwork Reverification Program. DCN DC1-EC-3603 has been issued for modification. No further action required by SIP Group.

S. Gaballah 08/02/83  
DISCIPLINE ENGINEER/DATE

B. Sarkar 08/02/83  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAW

FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

W. Horn 10/25/83  
SIP PROJECT ENGINEER APPROVAL/DATE

5/6  
3/1/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT NO. 1  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO.: 23-47-02-01

FIRE ZONE 3-BB LOCATION Penetration Area FLOOR ELEVATION 100

LOCATION WITHIN FIRE ZONE:  
Elev. 100, at containment wall, 139°

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: Platform 11GE SOURCE CODE: C-11GE

TARGET: PT-932 and associated tubing TARGET CODE: I-PT932

POSTULATED INTERACTION: Platform falls, impacts PT-932. PHENOMENA CODE: CIVILFAIL

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:

Ensure integrity of platform by simplified analysis.

M. Jones 07/15/80  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Platform qualified by analysis. See resolution sheet and referenced Calc. No. 05-27-03-01.

S. Hanusiak 02/19/81  
DISCIPLINE ENGINEER/DATE

E. P. Wollak  
ENGR: GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: [CE] EE EMS ENG GC HVAC I&C PSE NPO NAN

L. W. Horn 08/23/83  
FIELD VERIFICATION BY WALKDOWN TEAM (FOR MODIFICATIONS ONLY) SIP PROJECT ENGINEER APPROVAL/DATE

S.S.  
7/21/84

PACIFIC GAS & ELECTRIC CO.  
DIABLO CANYON PLANT, UNIT 3  
SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM  
INTERACTION DOCUMENTATION SHEET (IDS)

POSTULATED INTERACTION NO. 23-48-03-02

FIRE ZONE 3-BB LOCATION Penetration Areas FLOOR ELEVATION 100'-0"

LOCATION WITHIN FIRE ZONE:  
Elev: 110, near containment wall, 164°

IDENTIFICATION OF INTERACTING COMPONENTS

SOURCE: 2" firewater pipe, 2" instrument air pipe, 2 1/2" aux. feedwater pipe.  
SOURCE CODE: P-SPR-388

TARGET: Conduit KK 383-1"  
TARGET CODE: F-KK383-1.75

POSTULATED INTERACTION: Conduit contacts each of above lines seismic and/or thermal movements result in impact with conduit.  
PHENOMENA CODE: FJXTURE

RECOMMENDED RESOLUTION BY WALKDOWN TEAM:  
Reroute KK 383 to provide minimum 2" clearance to source lines and missing conduit support near instrument air line.

M. Jones 06/29/82  
WALKDOWN TEAM ORIGINATOR/DATE

FINAL RESOLUTION BY RESPONSIBLE DISCIPLINE:  
Add missing conduit and reroute conduit KK383 to provide a minimum of 2 inches clearance to the source lines. Refer to ART 329. Resolved by modification.

Peter P. Chu 11/18/82  
DISCIPLINE ENGINEER/DATE

G. C. Bhatt 11/18/82  
ENGR. GROUP SUPERVISOR/DATE

DISCIPLINE RESPONSIBLE FOR RESOLUTION: CE [EE] EMS FNG GC HVAC I&C PSE NPO NAN

S. E. Traisman 08/24/83  
FIELD VERIFICATION BY WALKDOWN TEAM  
(FOR MODIFICATIONS ONLY)

I. W. Horn 09/09/83  
SIP PROJECT ENGINEER APPROVAL/DATE