



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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MAR 01 1984

MEMORANDUM FOR: ~~George Knighton, Chief~~
~~Licensing Branch No. 3~~

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FROM: Ashok Thadani, Chief
Reliability and Risk Assessment Branch

SUBJECT: ITEMS FOR INCLUSION IN LETTER REQUESTING ASSISTANCE FROM
REGION V IN ASSESSING ACCEPTABILITY OF DCNPP SISIP

Per your request of February 22, attached is a draft letter of guidance for use by Region V in planning and conducting their verification of acceptability of items modified under P.G.&E.'s Seismically Induced Systems Interaction Program at Diablo Canyon, Unit 1 as required by Section 8.2 of Supplement 11 to the Diablo Canyon SER (NUREG-0675).

Ashok C. Thadani, Chief
Reliability and Risk Assessment Branch

Attachment:
As stated

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MAR 01 1984

MEMORANDUM FOR: R. Martin, Administrator
Region V

FROM: Darrell Eisenhut, Director
Division of Licensing

SUBJECT: GUIDANCE FOR VERIFYING ACCEPTABILITY OF MODIFICATIONS MADE
UNDER SEISMICALLY INDUCED SYSTEMS INTERACTION PROGRAM

Per your request to G. Knighton of my staff, this letter provides guidance to Region V for verifying the acceptability of modifications made to plant structures, systems, and components to resolve systems interactions (SI) identified in P.G.&E.'s Seismically Induced Systems Interaction Program (SISIP) for Diablo Canyon Nuclear Power Plant, Unit 1.

Section 8.2 of Supplement 11 to the Diablo Canyon SER (NUREG-0675) states that Region V will verify the acceptability of any modifications made as a result of the SISIP and the completion by P.G.&E. of those modifications.

To facilitate your inspection we have selected four interactions that were resolved by plant modification from each of these classifications:

(a) Structural, (b) Mechanical, (c) Piping, (d) Electrical Systems, (e) I&C Systems, and (f) HVAC Systems. These interactions are numbered:

(a) 07-008-001-002	09-004-002-003
32-001-033-005	03-022-001-001
(b) 06-001-001-006	20-004-001-003
32-001-027-002	15-001-029-001
(c) 22-017-001-001	01-006-001-001
25-200-002-001	18-001-023-002
24-001-118-001	
(d) 04-004-001--001	23-012-004-001
24-012-003-001	22-001-001-002
(e) 03-028-023-001	30-001-099-002
06-001-004-007	
(f) 23-067-002-001	03-005-002-003
11-007-005-005	25-179-002-001

For each of these interactions review the modification to assure (a) that its design is adequate to resolve the interaction, (b) that it has been

implemented as designed, (c) that it fulfills QA requirements, and (d) that its design and implementation do not introduce any new interactions.

The considerations are:

(a) If the source was modified, it should not subsequently be able to fail in a way as to interact with any target in the vicinity.

(b) Similarly, if the source was relocated, its new location should not allow its failure to interact with any target system or equipment.

(c) If the target was strengthened to resist impacts caused by the postulated interaction, this strengthening should be reviewed to assure that an adequate design basis exists that accounts for effects from all possible modes of source failure.

(d) If the target was relocated, it should not be subject, in its new location, to interaction with either the original source in any failure mode or with any new source.

(e) If the target was shielded from the source by placing barriers between source and target, the placement and adequacy of such structures should be carefully evaluated.

If sufficient manpower resources are available from Region V we would like to have assistance in sampling the interactions resolved by inspection by the walkdown team and those resolved by engineering analyses. This would probably involve review of IDS sheets for those resolved by inspection and review of IDS sheets and the P.G.&E. data files for those resolved by analysis.

If more guidance is desired, do not hesitate to call upon my staff. It is possible for NRR personnel to accompany the inspector during part of his inspection.

Please provide a brief report on the results of your verification.

Darrell Eisenhut, Director
Division of Licensing