

PACIFIC GAS AND ELECTRIC COMPANY

PG&E

P. O. BOX 7442 • 77 BEALE STREET, 31ST FLOOR, SAN FRANCISCO, CALIFORNIA 94106
TELEPHONE (415) 781-4211 TELECOPIER (415) 543-7813ROBERT OHLBACH
VICE PRESIDENT AND GENERAL ATTORNEYCHARLES T. VAN DEUSEN
PHILIP A. CRANE, JR.
HENRY J. LAPLANTE
JOHN B. GIBSON
ARTHUR L. HILLMAN, JR.
CHARLES W. THISELL
DANIEL E. GIBSON
JACK F. FALLIN, JR.
JOSEPH I. KELLY
ASSISTANT GENERAL COUNSEL

July 21, 1981

GILBERT L. HANCOCK
GLENN WEST, JR.
HOWARD V. GILLES
JAMES D. LORSON
ROBERT L. BORDON
RYAN W. HARRISON
RICHARD F. J. IE
DAVID L. LUTHERSON
WILLIAM M. EDWARDS
F. RONALD LAURHEIMER
ROBERT R. WISNEY
DAVID J. WILLIAMSON
BRUCE N. WORTHINGTON

SENIOR COUNSEL

EDWARD J. MCINNIS
DAN GRAYSON LUBBOK
BERNARD J. DELLASANTA
JOSHUA BANLEY
JOSEPH S. ENGLENT, JR.
ROBERT L. HARRIS
DOUGLAS A. GILBERT
J. PETER BAUMGARTNER
JOHN T. FRYE
J. MICHAEL REIDENBACH
JOHN E. BAUMON
SHIRLEY A. WOODDAVID W. ANDERSON
DANA BERENSON
LEIGH S. CANNON
ALBERT DAVIES
DONALD D. ENGLISH
PATRICK B. GOLDEN
PAULA T. HAYES
RICHARD C. JONES
HARRY R. LONG, JR.
JOHN A. LEE
ROBERT B. MCLENNAN
RICHARD H. MOSS
SHIRLEY A. SANDERSON
JACK W. SHUEX
KENNETH YARD

ATTORNEYS

LATHAN T. ANNAND
STEVEN P. BURKE
PAMELA CHAPPELLE
DALE P. ENDINAK
DAVID C. GILBERT
STEVEN F. GREENWALD
JUAN M. JARO
MERCE E. LIPSON
JESSICA LIVING
A. KIRK MCKENZIE
RICHARD L. MEISS
ROGER J. PETERS
JO ANN SHAFER
LOUIS E. VINCENT

Mr. George Spencer, Director
Division of Technical Inspection
Region V
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
1990 N. California Boulevard
Walnut Creek Plaza, Suite 202
Walnut Creek, CA 94596

Re: Docket No. 50-275
Docket No. 50-323
Diablo Canyon Units 1 and 2



Dear Mr. Spencer:

This letter supplements our previous responses to IE Bulletin 79-02 by addressing the potential impact of reduced ultimate tensile values for one-inch diameter HILTI expansion anchors.

As indicated in our May 5, 1981 letter to you, we have reduced the allowable pullout loads on one-inch HILTI anchors to reflect the lower ultimate tensile loads provided by HILTI and to comply with the IE Bulletin 79-02 requirement for a safety factor of at least 4. The pullout allowables on page 8 of attachment II, in our letter to you dated December 3, 1980, were revised accordingly. This revision is shown in the attachment to this letter. The new values do not change our previous conclusions. Our review identified one pipe support with bolts which did not meet the required safety factor. This support has been modified to meet the required safety factor. Had this change not been made, the potential effect on safety would have been minimal since the support bolts would have had a safety factor of 3.9 or only 2.5% below the required value.

IEH
5/11

Mr. George Spencer

- 2 -

July 21, 1981

The lower allowable loads for one-inch HILTI anchors have been used by PGandE since March 5, 1981, and are being applied to all new piping support designs and to the Diablo Canyon Unit 2 review for IE Bulletin 79-02. This assures that the required safety factors will be met in all cases.

Very truly yours,

Philip A. Grane,



Attachment

CC: Service List

ATTACHMENT

Revised Allowable Loads

From: Teledyne Engineering Services

Technical Report
TR-4121-2, Page 8

Diam.	Embed.	4000		6000	
		Pu/4	Vu/4	Pu/4	Vu/4
1"	4-1/2"	4000	6720	5125	8028
	5	4725	6720	5860	8028
	6	5860	6720	5860	8028
	7	5860	6720	5860	8028
	8	5860	8623	5860	9098
	9	5860	8623	5860	9098
	10	5860	8623	5860	9098
1-1/4"	5-1/2"	5750	8920	7800	11,298
	6-1/2"	6775	8920	9125	11,298
	7-1/2"	7775	8920	10,500	11,298
	8-1/2"	8650	8920	11,100	11,774
	9-1/2"	9450	8920	11,100	11,774
	10-1/2"	10,225	8920	11,100	12,399

PHILLIPS WEDGE MIN. EMB.

Size	Catalog Values		Teledyne Values from Generic Program		Use These*	
	Pu/4	Vu/4	Pu/4	Vu/4	Pu/4	Vu/4
1/2"	1475	2100	1313	1750	1313	1750
5/8"	1956	3000	2563	3313	1956	3000
3/4"	2875	4250	2375	4438	2375	4250
7/8"	2950	6225	3354	4875	2950	4875
1"	4075	8850	5958	10,000	4075	8850
1-1/4"	10,150	12,150	7000	11,250	7000	11,250

*Lowest Value

(a) Revised Values