

PACIFIC GAS AND ELECTRIC COMPANY

PG&E + 77 BEALE STREET, 31ST FLOOR • SAN FRANCISCO, CALIFORNIA 94106 • (415) 781-4211

MALCOLM H. FURBUSH
VICE PRESIDENT AND GENERAL COUNSEL

November 8, 1979

GILBERT L. HARRICK
GLENN WEST, JR.
JOSEPH I. KELLY
HOWARD V. GOLUB
JAMES C. LOBSON
ROBERT L. BORDON
PETER W. HANSEN
THEODORE L. LINDBERG, JR.
DOUGLAS A. GOLESBY
SENIOR COUNSEL

EDWARD J. MCDANNEY
DAN GRAYSON LUSOCKY
JACK F. FALLIN, JR.
BERNARD J. DELLABANTA
JOSHUA BAR-LEV
JOSEPH S. ENGLERT, JR.
ROBERT L. HARRIS
RICHARD F. LOCKE
DAVID L. LUDVIGSON
SENIOR COUNSEL

ROBERT OHLBACH
ASSOCIATE GENERAL COUNSEL

CHARLES T. VAN DEUSEN
PHILIP A. CRANE, JR.
HENRY J. LAPLANTE
JOHN B. GIBSON
ARTHUR L. HILLMAN, JR.
CHARLES W. THISELL
DANIEL E. GIBSON
ASSISTANT GENERAL COUNSEL

J. PETER BAUMGARTNER
STEVEN P. BURCK
PAMELA CHAPPELLE
AUDREY DAINES
MICHAEL G. DESMARAIS
DARY P. ENGINAS
JOHN N. FAYE
PATRICK G. GILDEN
KERMIT R. KURITZ
MEREK E. LIPSON
JOHN R. LOW
RICHARD L. MEISS
ROBERT J. PETERS
ROBERT R. RICKETT
SHIRLEY A. SANDERSON
JO ANN SHAFER
LOUIS E. VINCENT
SHIRLEY A. WOOD
KENNETH YANG

DIANA BERGHAUSEN
LEIGH B. CASSIDY
HEATHER S. CIBBNA
BRIAN S. DENTON
WILLIAM M. EDWARDS
DONALD D. ERICKSON
DAVID C. GILBERT
JUAN M. JAYO
F. RONALD LAUPHEIMER
HARRY W. LONG, JR.
ROBERT S. MOLENNAN
RICHARD M. MOSS
J. MICHAEL REIDENSACH
IVOR E. SAMSON
BUE ANN LEVIN SCHIFF
JACK W. SHUCK
DAVID J. WILLIAMSON
BRUCE R. WORTHINGTON
ATTORNEYS

Mr. R. H. Engelken, Director
Office of Inspection and Enforcement
Region V
U. S. Nuclear Regulatory Commission
1990 N. California Boulevard
Walnut Creek Plaza, Suite 202
Walnut Creek, California 94596



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

Dear Mr. Engelken:

The attached material responds to IE Bulletin No. 79-23, Potential Failure of Emergency Diesel Generator Fuel Exciter Transformer.

Very truly yours,

Philip A. Crane

Attachment
CC w/attachment: Director
Office of Inspection and Enforcement
Division of Reactor Operations Inspection
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dup



NRC IE BULLETIN NO. '79-23' RESPONSE

QUESTION

1. Determine whether or not connections have been made between low KVA rated transformers and high KVA rated EDGs without adequate limitations on the flow of circulating currents. If applicable, provide a description of the corrective action being taken to address this problem.

RESPONSE

1. Connections do not exist between low KVA rated transformers and high KVA rated EDG. The Diablo Canyon low KVA rated CPTs are wired in an open delta configuration while the high KVA rated EDGs are wired in an ungrounded "Y" configuration.

QUESTION

2. Provide a schedule for the completion of a sustained full-load operation test of the EDGs for a duration of not less than 24 hours, or provide the results of the similar long duration, full-load test which has already been completed on the EDGs installed at your facility. The test should demonstrate full-load carrying capability for an interval of not less than 24 hours, of which 22 hours should be at a load equivalent to the continuous rating of the diesel generator and 2 hours at a load equivalent to the 2 hour rating of the diesel generator. The test should also verify that voltage and frequency requirements are maintained and that the cooling system functions within design limits.

RESPONSE

2. Full-load tests of the 24 hour duration were performed on Diesel Generators 11 and 12 and 13 on 3/9/79, 2/28/79, and 10/2/79 respectively. This test consisted of a 2 hour overload condition at $\geq 2750\text{KW}$ followed by a 22 hour full load condition at $\geq 2484\text{KW}$. Voltage, frequency, and jacket cooling water temperature were recorded and logged for the duration of the tests and were all maintained within design limits.

