



TTC

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION V
1990 N. CALIFORNIA BOULEVARD
SUITE 202, WALNUT CREEK PLAZA
WALNUT CREEK, CALIFORNIA 94596

August 7, 1980

Docket Nos. 50-133, 50-275, 50-323

Pacific Gas and Electric Company
77 Beale Street
San Francisco, California 94106

Attention: Mr. Philip A. Crane, Jr.
Assistant General Counsel

Gentlemen:

This Information Notice is provided as an early notification of a possibly significant matter. It is expected that recipients will review the information for possible applicability to their facilities. No specific action or response is requested at this time. If further NRC evaluations so indicate, an IE Circular or Bulletin will be issued to recommend or request specific licensee actions. If you have questions regarding this matter, please contact the Director of the appropriate NRC Regional Office.

Sincerely,

A handwritten signature in cursive script, appearing to read "R. H. Engelken".

R. H. Engelken
Director

Enclosures:

1. IE Information Notice
No. 80-29
2. List of Recently Issued
IE Information Notices

cc w/enclosures:

J. D. Shiffer, PG&E
W. Raymond, PG&E
R. Ramsay, PG&E, Diablo Canyon
E. Weeks, PG&E, Humboldt Bay
E. B. Langley, Jr., PG&E

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DUPLICATE

SSINS No.: 6835
Accession No.:
8006190028

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
WASHINGTON, D.C. 20555

August 7, 1980

IE Information Notice No. 80-29

BROKEN STUDS ON TERRY TURBINE STEAM INLET FLANGE

When removing the governor and stop valve on the Unit 1 steam driven emergency feedwater pump at Arkansas Nuclear One for repair of a steam leak at the steam inlet flange Arkansas Power and Light discovered that five of the eight studs securing the flange were broken.

The cause of the stud failure is unknown at this time. Metallurgical evaluation of the failed bolting will be performed to identify the mode of failure.

The failed studs are 3/4 in. diameter by 3-1/2 in. long and are thought to be of ASTM-193 grade B7 steel. The turbine flange bolting is generally covered with insulation and not visible for inspection. From the information available, the bolting has not been removed or inspected since installation seven to eight years ago.

The steam driven emergency feedwater pump turbine at ANO-1 is a type G turbine manufactured by the Terry Steam Turbine Company of Hartford, Connecticut. The turbine is rated at 680 BHP and 3560 RPM. The turbine operates at a reduced steam pressure of 270 psig and temperature of 400F and has previously experienced overspeed trips and vibrations which may have been caused by slugs of water from the piping.

Licensees are encouraged to carefully examine insulation in the flange to turbine casing region for evidence of leakage and consider inspection of the turbine steam inlet flange bolting. Further, during surveillance testing, care should be taken to observe if abnormal vibration or other transients occur which could promote loss of bolting integrity.

This Information Notice is provided as an early notification of a possibly significant matter that is still under review by the NRC staff. It is expected that recipients will review the information for possible applicability to their facility. No specific action or response is requested at this time. If you have any questions regarding this matter, please contact the Director of the appropriate NRC Regional Office.

IE Information Notice No. 80-29
August 7, 1980

Enclosure

RECENTLY ISSUED
IE INFORMATION NOTICES

| Information Notice No. | Subject | Date Issued | Issued To |
|------------------------|---|-------------|--|
| Supplement to 80-06 | Notification of Significant Events at Operating Power Reactor Facilities | 7/29/80 | All holder of Reactor OLs and to near operating license applicants |
| 80-28 | Prompt Reporting Of Required Information To NRC | 6/13/80 | All applicants for and holders of nuclear power reactor construction |
| 80-27 | Degradation of Reactor Coolant Pump Studs | 6/11/80 | All Pressurized Water Reactor Facilities holding power reactor OLs or CPs |
| 80-26 | Evaluation of Contractor QA Programs | 6/10/80 | All Part 50 Licensees |
| 80-25 | Transportation of Pyrophoric Uranium | 5/30/80 | Material Licensee in Priority/Categories II-A, II-D, III-I and IV-DI; Agreement State Licensees in equivalent categories |
| 80-24 | Low Level Radioactive Waste Burial Criteria | 5/30/80 | All NRC and Agreement State Licensees |
| 80-23 | Loss of Suction to to Emergency Feedwater Pumps | 5/29/80 | All power reactor facilities with an OL or CP |
| 80-22 | Breakdown In Contamination Control Programs | 5/28/80 | All power reactor OLs and near term CPs |
| 80-21 | Anchorage and Support of Safety-Related Electrical Equipment | 5/16/80 | All power reactor facilities with an OL or CP |
| 80-20 | Loss of Decay Heat Removal Capability at Davis-Besse Unit 1 While in a Refueling Mode | 5/8/80 | All light water reactor facilities holding power reactor OLs or CPs |