

**Florida
Power**
CORPORATION

July 7, 1980

File: 3-0-3-a-4

Mr. J. P. O'Reilly
Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Suite 3100
101 Marietta Street
Atlanta, GA 30303

SUBJECT: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
IE Bulletin 80-11 -- MASONRY WALL DESIGN

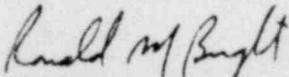
Dear Mr. O'Reilly:

Enclosed is our response to IE Bulletin 80-11, Items 1, 2a, and 3.

Should you have any questions concerning our response, please contact this office.

Very truly yours,

FLORIDA POWER CORPORATION


Ronald M. Bright
Acting Manager
Nuclear Support Services

Lobo(M05)DN-98-3

Attachment

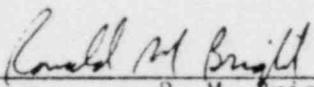
cc: Director
Office of Inspection and Enforcement
Division of Reactor Operations Inspection
U.S. Nuclear Regulatory Commission
Washington, DC 20555

A001
S
///

Q

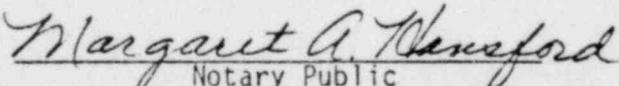
STATE OF FLORIDA
COUNTY OF PINELLAS

R. M. Bright states that he is the Acting Manager, Nuclear Support Services Department of Florida Power Corporation; that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission the information attached hereto; and that all such statements made and matters set forth therein are true and correct to the best of his knowledge, information and belief.



R. M. Bright

Subscribed and sworn to before me, a Notary Public in and for the State and County above named, this 7th day of July, 1980.



Notary Public

Notary Public, State of Florida at Large,
My Commission Expires: June 8, 1984

Lobo(M05Notary)DN-98-3

FPC RESPONSE TO IE BULLETIN 80-11
MASONRY WALL DESIGN
ITEMS 1, 2a, AND 3

ITEM 1

Identify all masonry walls in your facility which are in proximity to or have attachments from safety-related piping or equipment such that wall failure could affect a safety-related system. Describe the systems and equipment, both safety and non-safety-related, associated with these masonry walls. Include in your review, masonry walls that are intended to resist impact or pressurization loads, such as missiles, pipe whip, pipe break, jet impingement, or tornado, and fire or water barriers, or shield walls. Equipment to be considered as attachments or in proximity to the walls shall include, but is not limited to, pumps, valves, motors, heat exchangers, cable trays, cable/conduit, HVAC ductwork, and electrical cabinets, instrumentation, and controls. Plant surveys, if necessary, for areas inaccessible during normal plant operation shall be performed at the earliest opportunity.

RESPONSE

We have reviewed CR-3 architectural drawings and, identified below by building and elevation, the masonry walls and systems/equipment in the proximity of these masonry walls.

- 1.0 AIR SHAFT - Turbine Building, El. 95'-0" to El. 182'-2", Column Line G at 304-305.
- 1.1 El. 95'-0"
 - a. Secondary Service Closed Cycle Cooling Pump: Non-Safety
 - b. Cable Trays: Non-Safety
- 1.2 El. 119'-0"
 - a. Terminal MCC 3A: Non-Safety
 - b. Cable Trays: Non-Safety
- 1.3 EL. 145'-0"
 - a. Feedwater Pump 3A - Associated piping, valves, cables, and controls: Non-Safety
- 1.4 Possible blockage of Intermediate Building and Penetration Cooling intakes with internal collapse of wall.

- 1.5 Main Supply and Exhaust Ducts to all levels of Control Complex, other than Control Room: Safety-related
- 2.0 TURBINE BUILDING
- 2.1 Sample Room - El. 95'-0", Column Lines D&E at 310-311.
 - a. Sample Racks, etc.: Non-Safety
 - b. Atmospheric Drain Tank: Non-Safety
 - c. Condensate Ejection Pumps 3A & 3B: Non-Safety
 - d. Condensate Drain Injection Unit: Non-Safety
 - e. Air Cooling Unit: Non-Safety
 - f. Cable Trays: Non-Safety
- 2.2 Instrument Room - El. 95'-0", Column Line G at 308-309
 - a. Controls: Non-Safety
 - b. Emergency Feedwater Pump Suction Trench: Non-Safety
 - c. Air Conditioning Unit: Non-Safety
 - d. Feedwater Booster Pump 3A: Non-Safety
 - e. Cable Trays: Non-Safety
- 3.0 CONTROL COMPLEX
- 3.1 El. 95'-0"
 - a. Locker Rooms and Offices: Non-Safety
 - b. Secondary Plant Laboratory: Non-Safety
 - c. Radio-Chem Laboratory: Non-Safety
 - d. Laundry Rooms: Non-Safety
- 3.2.2 El. 145'-0" - Satellite Instrument Room
 - a. Cable Tray: Safety-related
- 4.0 FIRE SERVICE PUMP HOUSE
- 4.1 Exterior Walls: Non-Safety Equipment
- 5.0 GUARDHOUSE
- 5.1 Exterior and Interior Walls: Non-Safety Equipment
- 6.0 WATER TREATING PLANT
- 6.1 Office Walls: Non-Safety

Functions of these masonry walls will be described in the response to Item 2a.

ITEM 2

Provide a re-evaluation of the design adequacy of the walls identified in Item 1 above to determine whether the masonry walls will perform their intended function under all postulated loads and load combinations. In this regard, the NRC encourages the formation of an owners' group to establish both appropriate re-evaluation criteria and where necessary, a later confirmatory masonry test program to quantify the safety margins established by the re-evaluation criteria (this is discussed further in Item 3 below).

- a. Establish a prioritized program for the re-evaluation of the masonry walls. Provide a description of the program and a detailed schedule for completion of the re-evaluation for the categories in the program. The completion date of all re-evaluations should not be more than 180 days from the date of this Bulletin. A higher priority should be placed on the wall re-evaluations considering safety-related piping 2-1/2 inches or greater in diameter, piping with support loads due to thermal expansion greater than 100 pounds, safety-related equipment weighing 100 pounds or greater, the safety significance of the potentially affected systems, the overall loads on the wall, and the opportunity for performing plant surveys and, if necessary, modifications in areas otherwise inaccessible. The factors described above are meant to provide guidance in determining what loads may significantly affect the masonry wall analyses.

RESPONSE

FPC reevaluation program includes the following:

1. FPC, in conjunction with Gilbert Associates, Inc., will be performing a field survey of all Safety-related piping and equipments attached to or in the vicinity of the walls identified in Item 1.
2. Results of Item 2a.1 will be reviewed to set priorities for reevaluating walls depending upon impact on Safety-related systems and/or equipments. Masonry walls in the vicinity of these Safety-related piping or equipments will be reevaluated and analyzed on a priority basis to determine loads.

Results of these analyses will be included in the 180-day response to the NRC.

ITEM 3

Existing test data or conservative assumptions may be used to justify the re-evaluation acceptance criteria if the criteria are shown to be

conservative and applicable for the actual plant conditions. In the absence of appropriate acceptance criteria a confirmatory masonry wall test program is required by the NRC in order to quantify the safety margins inherent in the re-evaluation criteria. Describe in detail the actions planned and their schedule to justify the re-evaluation criteria used in Item 2. If a test program is necessary, provide your commitment for such a program and a schedule for submittal of a description of the test program and a schedule for completion of the program. This test program should address all appropriate loads (seismic, tornado, missile, etc.). It is expected that the test program will extend beyond the 180-day period allowed for the other Bulletin actions. Submit the results of the test program upon its completion.

RESPONSE

FPC will develop a reevaluation acceptance criteria for walls based on conservative design assumptions which is consistent with our schedule in Item 2a. Should a test program be necessary, we will notify you immediately and provide our schedules for submittal of a description and completion of the test program.