

CONTROL NO: 2514

FROM: Florida Power Corp St. Petersburg, Fla. J. T. Rodgers	DATE OF DOC: 4-28-72	DATE REC'D 5-8-72	LTR x	MEMO	RPT	OTHER
TO: DRL	ORIG 3 signed	CC	OTHER	SENT AEC PDR	x	
CLASS: <u>U</u> PROP INFO	INPUT	NO CYS REC'D 3	DOCKET NO: 50-302			

DESCRIPTION:
Ltr trans the following:

(3 Orig & 19 conf'd cys Amdt & 70 cys, 22 cys ea rpt rec'd)
**Denotes distribution w/Spec Rpts.

ENCLOSURES:
AMDT # 18 notarized 4-28-72 consisting of....
....(1) REPORT - Specifications for Subsurface Grouting, dtd 2-28-68.
(2) REPORT - GAI-SP-5785-Proof Testing of Chemically Consolidated Foundation Elements, dtd 1-7-70.
(3) Rev & Addl pages & Figs to FSAR and ans to questions re our 1-14-72 ltr.

FOR ACTION 5-9-72 fod

BUTLER(DRL) W/ Copies	DICKER(DREP) W/ Copies	SCHEMEL(DRL) W/ Copies	ZIEMANN(DRL) W/ Copies	
CHITWOOD(DML) W/ Copies	GOLLER(DRL) W/ Copies	X SCHWENCER(DRL) W/4 Copies**		W/ Copies
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EXTERNAL DISTRIBUTION

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| X1 - Local PDR <u>CRYSTAL RIVER, FLA</u> | X1 - NSIC(Buchanan) | 1 - SAN/LA/NY/ PDR |
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| 1 - C. Miles, C-459, GT | 1 - R. Catlin, A-170, GT | 2 - Warren Nyer |
| 9 - National Laboratories | 1 - Consultant(Newmark/Blum/...) | |

FLORIDA POWER CORPORATION

ST. PETERSBURG FLORIDA



Regulatory

File Cy.

April 28, 1972

Directorate of Licensing
United States Atomic Energy Commission
Washington, D. C. 20545



Dear Sir:

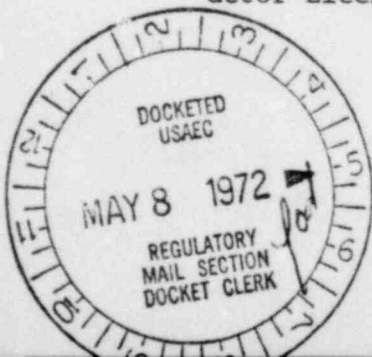
In re: Florida Power Corporation
Crystal River Nuclear Generating Plant
Docket No. 50-302

Enclosed are three (3) executed originals and nineteen (19) conformed copies of Amendment No. 18, to the Application for Licenses for Crystal River Unit 3 Nuclear Generating Plant. Also included for the staff's review are twenty-two (22) copies of the following documents.

Gilbert Associates (GAI), Inc. SP-5500, Specifications for Subsurface Grouting, Crystal River Unit No. 3, Florida Power Corporation, February 28, 1968.

GAI, SP-5785, Proof Testing of Chemically Consolidated Foundation Elements, Crystal River Unit No. 3, Florida Power Corporation, January 7, 1970.

These documents are the response to Item 2.10 of the Request for Additional Information made in the letter dated January 14, 1972. In addition, in response to Item 2.10 of the Request for Additional Information, an independent engineering evaluation of the entire chemical grouting program is being conducted by Dr. H. Q. Golder of Golder Associates, Ontario, Canada. This evaluation is being conducted to determine the effectiveness of the chemical grouting program as outlined in the Specification for Subsurface Grouting, Crystal River Unit No. 3, SP-5500. At this time, no final report has been issued. Working documents indicate the chemical grouting program has been successful as outlined in the specification requirements. At such time as a final report is made, the Division of Reactor Licensing will be furnished with the results.



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April 28, 1972

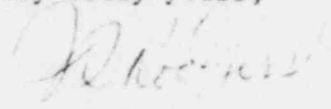
The specific parameters utilized for estimated hurricane surge analysis used in the design of Crystal River Unit No. 3 were based on theory discussed in Technical Memorandum No. 4, "Shore Protection, Planning and Design, 3rd Edition," June, 1966 by the U. S. Army Corps of Engineers, Coastal Engineering Research Center. Our Hurricane Parameters were from ESSA Report HUR 7-97, May 7, 1968 which is one of the reports referenced in Q2.1. Provisional Construction Permit CPPR-51 was issued on September 25, 1968. Both design and construction have proceeded on the basis of the analysis accepted at that time by the Division of Reactor Licensing.

The referenced reports - Technical Memorandum No. 35, "Storm Surge on the Open Coast: Fundamental and Simplified Prediction" by U. S. Army Corps of Engineers, Coastal Engineering Research Center and, "Estimation of Hurricane Surge Hydrograph" by G. Marinos and J. W. Woodward, ASCE Paper 5945, May, 1968, WW2 were not used in the plant design or construction.

All PMH parameters, computations, documentation of model studies and wave height effects evaluation were supplied at the construction permit stage of plant licensing.

Amendment No. 18 consists of revised pages to the Final Safety Analysis Report which are in response to the Request for Additional Information made by the Division of Reactor Licensing in the letter dated January 14, 1972. The revised pages to the Final Safety Analysis Report consist of general update information and contain the remainder of the responses to the Request for Additional Information made in the letter dated January 14, 1972 with the exception of Question 2.1.

Very truly yours,


J. T. Rodgers
Asst. Vice President
& Nuclear Project Manager

JTR/flw