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CONTROL NO: 7407

FILE: CONSULTANT

FROM:	DATE OF DOC	DATE REC'D	LTR	MEMO	RPT	OTHER
Coastal Engineering Research Ctr. Ft. Belvoir, Va. 22060 Col. J. L. Trayers	10-1-73	10-4-73	X			

TO:	ORIG	CC	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX
R.C. DeYoung	1 signed			

CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:
	XXX			1	50-302

DESCRIPTION:

Ltr in response to our 3-6-71 ltr.....
submitting recomendations concerning Florida
Power Corporations FSAR for Crystal River #3
..... sent to PDR 10-12-73
per Hulman.

PLANT NAME: Crystal River #3

ENCLOSURES:

ACKNOWLEDGED

DO NOT REMOVE

FOR ACTION/INFORMATION 10-5-73 JB

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DEPARTMENT OF THE ARMY
COASTAL ENGINEERING RESEARCH CENTER
KINGMAN BUILDING
FORT BELVOIR, VIRGINIA 22060

50-302

CEREN-DE

1 OCT 1973

Mr. Richard C. DeYoung
Assistant Director for Pressurized
Water Reactors
Directorate of Licensing
U. S. Atomic Energy Commission
Washington, D.C. 20545

Dear Mr. DeYoung:

Reference is made to your letter of 6 March 1971 regarding Docket 50-302, the Final Safety Analysis Report (FSAR) and subsequent Amendments 1 through 28 thereto, for Florida Power Corporation's Crystal River, Unit 3.

In accordance with our arrangement, an engineer from the CERC staff has reviewed pertinent information in the (FSAR) report leading to the establishment of the maximum and minimum design water levels at the plant site. It is his opinion with which I concur, that for design purposes the following water levels should be required:

a. Probable Maximum Still Water Level, exclusive of wave action, El. 121.4 ft. (El. 33.4 ft., MLW).

b. Probable Minimum Water Level El. 79.0 ft. (El.-9.0 ft., MLW).

c. Minimum Flood Protection Level El. 127.0 ft. (El. 39.0 ft., MLW).

Re-analyses of the Probable Maximum hurricane parameters and the mathematical hurricane surge model have confirmed our earlier determination of the Probable Maximum still water level at El. 121.4 ft. (El. 33.4 ft., MLW). The applicant, although proposing a Probable Maximum still water level of El. 117.4 ft. (El. 21.4 ft., MWL), has provided calculations for the wave runup and flood protection level resulting from wave action coincident with

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the higher water level of El. 121.4 ft. (El. 33.4 ft.,MLW). These calculations are contained in Section 9.0 of the appended report "Crystal River Unit 3 - Hurricane Study," Gilbert Associates, Inc., Report No. 1807, July 11, 1973. I concur with the applicant's analysis, presented in this latter supplement, that flood protection to either El. 127.0 ft. (El. 39.0 ft., MLW) provided the embankments on the south and west sides of the plant are increased to El. 127.0 ft. (El. 39.0 ft., MLW), or El. 129.0 ft. (El. 41.0 ft., MLW) provided the embankments on the south and west sides of the plant are maintained to El. 118.5 ft. (El. 30.5 ft., MLW) is consistent with a Probable Maximum still water level of El. 121.4 ft. (El. 33.4 ft., MLW).

Sincerely yours,

JAMES L. TRAYERS
Colonel, Corps of Engineers
Commander and Director

CF: Mr. L. G. Hulman, AEC