

50-302

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FILE NUMBER

TO: DR. D. A. BUTLER

FROM: FLORIDA POWER CORP  
ST PETERSBURG, FLA  
J. T. RODGERS

DATE OF DOCUMENT

3-16-76

DATE RECEIVED

3-17-76

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20

DESCRIPTION

LTR FURN INFO ON THE DRAWDOWN TEST CONDUCTED BY GILBERT ASSOCIATES... TRANS THE FOLLOWING.....

DISTRIBUTION: PER MR L. ENGLE

PLANT NAME: CRYSTAL RIVER #3

ENCLOSURE

BORATED WATER STORAGE TANK DRAWDOWN TRANSIENT ANALYSIS FOR CRYSTAL RIVER UNIT #3

\* 1 COPY FOR MR MAZETIS

See Rpt.

SAFETY

FOR ACTION/INFORMATION

ENVIRO

3-18-76 RKB

<input checked="" type="checkbox"/>	ASSIGNED AD :	DEYoung	ASSIGNED AD :
<input checked="" type="checkbox"/>	BRANCH CHIEF :	BUTLER	BRANCH CHIEF :
<input checked="" type="checkbox"/>	PROJECT MANAGER:	L. ENGLE	PROJECT MANAGER :
	LIC. ASST. :		LIC. ASST. :

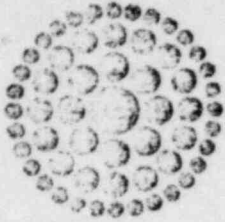
INTERNAL DISTRIBUTION

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	I & E	SCHROEDER	<input checked="" type="checkbox"/> BENAROYA	BALLARD
	OELD		LAINAS	SPANGLER
	GOSSICK & STAFF	ENGINEERING	<input checked="" type="checkbox"/> IPPOLITO/SZUKIEWICZ	
	MIPC	MACCARY		SITE TECH
	CASE	KNIGHT	OPERATING REACTORS	GAMMILL
	HANAUER	SIHWEIL	STELLO	STEPP
	HARLESS	PAWLICKI		HULMAN
			OPERATING TECH	
	PROJECT MANAGEMENT	REACTOR SAFETY	EISENHUT	SITE ANALYSIS
	BOYD	ROSS	SHAO	VOLMER
	P. COLLINS	<input checked="" type="checkbox"/> NOVAK (2) *	BAER	BUNCH
	HOUSTON	ROSZTOCZY	SCHWENCER	J. COLLINS
	PETERSON	CHECK	GRIMES	KREGER
	MELTZ			
	HELTEMES	AT & I	SITE SAFETY & ENVIRO	
	SKOVHOLT	SALTZMAN	ANALYSIS	
		RUTBERG	DENTON & MULLEN	ASEDAG

EXTERNAL DISTRIBUTION

CONTROL NUMBER

<input checked="" type="checkbox"/>	LPDR: CRYSTAL RIVER, FL.	NATL LAB	BROOKHAVEN NATL LAB	2694
	TIC	REG. V-IF	ULRIKSON(ORNL)	
	NSIC	LA PDR		
	ASLB	CONSULTANTS		
	ACRS HOLDING/SENT			



**Florida  
Power**  
CORPORATION

March 16, 1976



Dr. D. A. Butler, Chief  
Light Water Reactors Branch #4  
Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

In Re: Florida Power Corporation  
Crystal River Unit #3  
Docket No. 50-302

Dear Dr. Butler:

We enclose 20 copies of Gilbert Associates Analytical Model - Borated Water Storage Tank Drawdown Transient Analysis, Revision 1.

This analysis has been applied to Crystal River Unit #3 system design and verified during the recently run Borated Water Storage Tank Drawdown Test.

The BWST drawdown test is not a design basis test. It should be noted that the physical (actual) drawdown test was conducted with demineralized water and that actual LOCA conditions did not exist. Therefore, the function of the physical drawdown test was solely to verify an analytical model. This model was then used to evaluate the design basis operation of the tank drawdown. Replacement of stop check valves BSV-9, 10, 67 and 68 with swing check valves does not invalidate the analytical model because of the predictability of valve properties by industry standards.

A drawdown retest would again give indication of water hydraulics only and would not demonstrate the adequacy of the system relative to design conditions. Regardless of physical drawdown results utilizing water, the requirement to validate the FSAR can be accomplished only with the previously verified analytical model.

2696

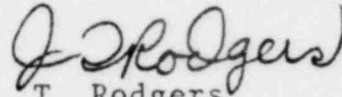
Dr. D. A. Butler

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March 16, 1976

We would appreciate your acceptance of this Analysis and the previously run drawdown test as adequate to demonstrate system performance.

Very truly yours,



J. T. Rodgers  
Asst. Vice President

JTR/iw  
Attachments.