

October 27, 2009

Mr. Jon Franke, Vice President  
Crystal River Nuclear Plant (NA1B)  
ATTN: Supervisor, Licensing & Regulatory Programs  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT, LICENSE  
RENEWAL APPLICATION (TAC NO. ME0274)

Dear Mr. Franke:

By letter dated December 16, 2008, Florida Power Corporation submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the operating license for Crystal River Unit 3 Nuclear Generating Plant (CR-3), for review by the U.S. Nuclear Regulatory Commission (NRC or the staff).

By letter dated October 13, 2009, Florida Power Corporation indicated that a root cause is currently in progress related to the discovery of a gap in the concrete of the outer radius of the containment structure, and that it would evaluate the need to revise any of the technical responses to the NRC request for additional information (RAI). Enclosed is an RAI related to this recent discovery and how it may affect the aging management of the structure. The response to this request may be dependent on results of the root cause analysis. Therefore, a response to this letter is requested by January 15, 2010. If you have any questions, please contact me at 301-415-3733 or by e-mail [robert.kuntz@nrc.gov](mailto:robert.kuntz@nrc.gov).

Sincerely,

*/RA/*

Robert F. Kuntz, Sr. Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-302

Enclosure:  
As stated

cc w/encl: See next page

October 27, 2009

Mr. Jon Franke, Vice President  
Crystal River Nuclear Plant (NA1B)  
ATTN: Supervisor, Licensing & Regulatory Programs  
15760 W. Power Line Street  
Crystal River, Florida 34428-6708

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT, LICENSE  
RENEWAL APPLICATION (TAC NO. ME0274)

Dear Mr. Franke:

By letter dated December 16, 2008, Florida Power Corporation submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the operating license for Crystal River Unit 3 Nuclear Generating Plant (CR-3), for review by the U.S. Nuclear Regulatory Commission (NRC or the staff).

By letter dated October 13, 2009, Florida Power Corporation indicated that a root cause is currently in progress related to the discovery of a gap in the concrete of the outer radius of the containment structure, and that it would evaluate the need to revise any of the technical responses to the NRC request for additional information (RAI). Enclosed is an RAI related to this recent discovery and how it may affect the aging management of the structure. The response to this request may be dependent on results of the root cause analysis. Therefore, a response to this letter is requested by January 15, 2010. If you have any questions, please contact me at 301-415-3733 or by e-mail [robert.kuntz@nrc.gov](mailto:robert.kuntz@nrc.gov).

Sincerely,

**/RA/**  
Robert F. Kuntz, Sr. Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-302

Enclosure:  
As stated

cc w/encl: See next page

DISTRIBUTION: See next page  
ADAMS Accession No. ML092960660

OFFICE	PM:RPB2:DLR	LA:DLR	BC:RPB2:DLR	PM:RPB2:DLR
NAME	RKuntz	SFiguroa	DWrona	RKuntz
DATE	10/27/09	10/26/09	10/27/09	10/27/09

OFFICIAL RECORD COPY

REQUEST FOR ADDITIONAL INFORMATION  
LICENSE RENEWAL APPLICATION FOR  
CRYSTAL RIVER UNIT 3  
DOCKET NO: 50-302  
(TAC NO. ME0274)

**RAI B.2.25-4**

Background:

In order to perform a scheduled steam generator replacement, 10 vertical and 17 horizontal containment pre-stressing tendons were de-tensioned in preparation for hydro-demolition of a containment section.

Issue:

During hydro-demolition of the containment concrete, a crack was identified in the concrete near the horizontal tendons, approximately nine inches from the outer surface of the containment, on all four sides of the temporary opening. In addition, during hydro-demolition water leaked out of the containment concrete at several places some distance away from the edge of the temporary opening.

Request:

1. Explain how the recent plant-specific operating experience will be incorporated into the ASME Section XI, Subsection IWL and Subsection IWE AMPs, and whether a plant-specific program is necessary to manage aging of the containment. Include the containment concrete, pre-stressing tendons, and the containment liner plate in the discussion.
2. Identify and explain any changes to the license renewal application based on the recent plant-specific operating experience.

ENCLOSURE

Letter to J. Franke from R. Kuntz, dated October 27, 2009

DISTRIBUTION:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT, LICENSE  
RENEWAL APPLICATION (TAC NO. ME0274)

HARD COPY:

DLR RF

E-MAIL:

PUBLIC

RidsNrrDlr Resource

RidsNrrDlrRpb1 Resource

RidsNrrDlrRpb2 Resource

RidsNrrDlrRer1 Resource

RidsNrrDlrRer2 Resource

RidsNrrDlrRerb Resource

RidsNrrDlrRpob Resource

RidsNrrDciCvib Resource

RidsNrrDciCpnb Resource

RidsNrrDciCsgb Resource

RidsNrrDraAfpb Resource

RidsNrrDraApla Resource

RidsNrrDeEmcb Resource

RidsNrrDeEeeb Resource

RidsNrrDssSrxb Resource

RidsNrrDssSbpb Resource

RidsNrrDssScvb Resource

RidsOgcMailCenter

-----

RKuntz

EKeegan

AJones, OGC

LLake, RII

MSykes, RII

TMorrissey, RII

RReyes, RI

Crystal River Nuclear Generating Plant,  
Unit 3

cc:

Mr. R. Alexander Glenn  
Associate General Counsel (MAC-BT15A)  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL 33733-4042

Mr. James W. Holt  
Plant General Manager  
Crystal River Nuclear Plant (NA2C)  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

Mr. William A. Passetti, Chief  
Department of Health  
Bureau of Radiation Control  
2020 Capital Circle, SE, Bin #C21  
Tallahassee, FL 32399-1741

Attorney General  
Department of Legal Affairs  
The Capitol  
Tallahassee, FL 32304

Mr. Ruben D. Almaluer, Director  
Division of Emergency Preparedness  
Department of Community Affairs  
2740 Centerview Drive  
Tallahassee, FL 32399-2100

Chairman  
Board of County Commissioners  
Citrus County  
110 North Apopka Avenue  
Inverness, FL 34450-4245

Mr. Stephen J. Cahill  
Engineering Manager  
Crystal River Nuclear Plant (NA2C)  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

Mr. Daniel R. Westcott  
Supervisor, Licensing & Regulatory  
Programs  
Crystal River Nuclear Plant  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

Senior Resident Inspector  
Crystal River Unit 3  
U.S. Nuclear Regulatory Commission  
6745 N. Tallahassee Road  
Crystal River, FL 34428

Ms. Phyllis Dixon  
Manager, Nuclear Assessment  
Crystal River Nuclear Plant (NA2C)  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

Mr. David T. Conley  
Associate General Counsel II - Legal Dept.  
Progress Energy Service Company, LLC  
Post Office Box 1551  
Raleigh, NC 27602-1551

Mr. Daniel L. Roderick  
Vice President, Nuclear Projects &  
Construction  
Crystal River Nuclear Plant (SA2C)  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

Mr. Mark Rigsby  
Manager, Support Services - Nuclear  
Crystal River Nuclear Plant (SA2C)  
15760 W. Power Line Street  
Crystal River, FL 34428-6708

Mr. Robert J. Duncan II  
Vice President, Nuclear Operations  
Progress Energy  
Post Office Box 1551  
Raleigh, NC 27602-1551

Mr. Brian C. McCabe  
Manager, Nuclear Regulatory Affairs  
Progress Energy  
Post Office Box 1551  
Raleigh, NC 27602-1551