



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 31, 2011

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, 2009, 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). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with Mr. Michael Heath, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3733 or by e-mail at robert.kuntz@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Kuntz", written over a large, stylized, abstract shape that resembles a signature or a mark.

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

Docket No. 50-302

Enclosure:
As stated

cc w/encl: Listserv

REQUEST FOR ADDITIONAL INFORMATION
LICENSE RENEWAL APPLICATION FOR
CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT
DOCKET NO. 50-302

RAI B.2.22-4

Background:

In its August 9, 2010, response to RAI B.2.22-2, the applicant stated that it has conducted Remote Field Transformer Coupling (RFTC) of the pre-stressed cylindrical discharge conduits used in the nuclear services and decay heat seawater system and found them to be in good condition. The applicant also stated that RFTC testing will be conducted again prior to the period of extended operation, in accordance with the Open-Cycle Cooling Water System Program.

Issue:

The staff believes that given that prestressed cylindrical concrete can degrade during the period of extended operation if cracks in the concrete allow raw water to enter the structure and corrode reinforcing wires, RFTC testing should be repeated in each of the 10-year periods of extended operation. This frequency of testing would allow for the timely identification of cracking in the concrete.

Request:

Update the buried piping and tank inspection program to include conducting RFTC testing of the nuclear services and decay heat seawater system discharge conduits in each of the two 10-year periods of extended operation or state why this testing is not needed to ensure that the CLB function(s) of the systems are maintained.

RAI B.2.22-5

Background:

In its August 9, 2010, response to RAI B.2.22-2 and its December 8, 2010, response to RAI B.2.22-3, the applicant committed to additional buried in-scope piping inspections based on industry operating experience. The response also described what systems are protected by cathodic protection and that the cathodic protection system is maintained to NACE standards.

Issue:

10 CFR 54.21(d) states that "[t]he FSAR supplement for the facility must contain a summary description of the programs and activities for managing the effects of aging." The proposed FSAR supplement does not reflect the planned number and frequency of buried in-scope piping inspections planned for the 30 year period starting 10 years prior to the period of extended operation. It also does not state that for those systems protected by the cathodic protection system, that it is provided and maintained in accordance with NACE standards.

ENCLOSURE

Request:

Revise the UFSAR supplement to reflect the number and frequency of inspections planned for all in-scope buried pipe, which systems are provided cathodic protection, and that the cathodic protection system will be maintained to NACE standards.

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| NAME | RKuntz | YEdmonds | DWrona | RKuntz |
| DATE | 03/28/11 | 03/28/11 | 03/30/11 | 03/31/11 |

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Letter to Jon Franke from Robert F. Kuntz dated March 31, 2011

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RENEWAL APPLICATION (TAC NO. ME0274)

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