



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
230 PEACHTREE STREET, N. W. SUITE 818
ATLANTA, GEORGIA 30303

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IE file

H. D. Thornburg, Acting Director, Division of Field Operations, Office
of Inspection and Enforcement, Headquarters
THRU: N. C. Moseley, Director, Region II, Office of Inspection and
Enforcement

FLORIDA POWER CORPORATION, CRYSTAL RIVER 3, DOCKET NO. 50-302 - UPDATE
STATUS OF COMPLETION

This memorandum updates the status of completion of construction and preoperational testing of Crystal River 3 as determined by IE inspections conducted through February 6, 1976. Previous status was provided by memorandums dated December 22, 1975, and February 3, 1976. FPC is presently in the process of preparing a composite punch list of all outstanding items that must be resolved and/or completed at various milestones. The inspection modules that remain open (percent complete less than 100%) are identified in attachment 1 by module and completion status. Pending satisfactory resolution of the items listed in paragraph A below and others that may be identified as a result of completing the inspection program, Region II will make a finding that the facility has been substantially completed in conformity with the construction permit and application. Presently identified open items requiring resolution prior to initial criticality are listed in paragraph B.

A. Items To Be Completed Prior to Licensing

1. Development and approval of operational procedures recommended by R.G. 1.33 and FSAR, Section 12.4.
 - a. Ninety-four of 326 identified Procedures have not been approved. (Rpt. 76-3)
 - b. Resolution of temporary procedures developed by licensee for use during operation. Proposed Technical Specifications do not permit use of temporary procedures.
2. Completion of construction and turnover of system for testing. Three of 57 systems have not been turned over and all systems that have been turned over have exceptions to be resolved. (Rpt. 75-19)

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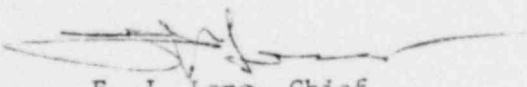
3. Completion of preoperational testing and turnover of systems to operations. Only five of 57 systems have been turned over to operations. (Rpt. 76-3)
4. Complete preparation and approval of the following test procedures: (Rpt. 76-3)
 - a. Eight preoperational test procedures.
 - b. Nine hot functional test procedures
 - c. Three zero power tests procedures
 - d. Eighteen power escalation procedures
 - e. Completion of procedure for conducting radiation surveys.
5. Satisfactory completion of preoperational testing and resolution of any test deficiencies. (Rpt. 76-3)
 - a. Two hundred and three of 335 preoperational tests have not been completed.
 - b. Test results review has not been completed on 266 of 335 preoperational tests.
6. Development and approval of zero power physics test and power escalation test procedures. (Rpt. 76-3)
7. Implementation of industrial security program including installation of equipment. Installed system contains variances from plan approved by RL.
8. Resolution of open items concerning emergency planning and performance of a practice evacuation. (Rpt. 76-1)
9. Resolution of the following unresolved items resulting from the operational QA audit. (Rpt. 76-3)
 - a. 75-15/3, Management
 - b. 75-17/7, Receipt, Storage, and Handling of Equipment and Materials
 - c. 75-15/9, Qualification of Personnel
 - d. 75-15/10, Training
 - e. 75-16/2, Training Completion and Documentation

10. Resolution of noncompliance item involving failure to follow administrative instructions during testing. (Noncompliance item 75-19)
11. Resolution of noncompliance item involving failure to report the collapse of the auxiliary building ventilation duct during testing. (Noncompliance 75-19)
12. Resolution of inconsistency between the test procedure and the FSAR commitments for performing the integrated leak rate test. (Unresolved item 75-16/3)
13. Resolution of improper performance of the sodium thiosulfate injection into the reactor building spray system. Licensee does not plan to retest following corrective action. (Rpts. 75-8, 75-11, 75-13, and 76-1)
14. Complete installation and testing of fire protection systems. (Unresolved item 76-3/2)
 - a. Fire water system installation not complete.
 - b. Plant procedures describe operation of halon fire protection system. FSAR specifies freon fire protection system.
15. Resolve problem relating to bent valve stems in safety related systems and submit supplemental report. (Unresolved item 76-1/2)
16. Resolution of noncompliance concerning improper storage and release of charcoal adsorbers ~~release of charcoal~~ without required performance verification. (Rpt. 76-3)
17. Resolve discrepancy in instrumentation piping separation. Instrumentation piping used for sensing for input to containment pressure switches does not meet separation criteria. (Unresolved item 76-2/1)
18. Completion of radiochemistry, health physics, counting, and decontamination facilities.
19. Resolve question concerning the instrument calibration program. The instrument calibration program for process instruments appears to lack formalization and continuity. (Unresolved item 76-2/2)

B. Items Requiring Resolution Prior to Initial Criticality

1. Resolution of item concerning the location of instrumentation inside the shielded cubicles. Calibration and maintenance of this instrumentation could result in excessive personnel exposure. (Unresolved Item 75-8/6)
2. Resolution of item concerning the location of the primary sample coolers. If coolers become radioactive, personnel working in primary sample room could receive excessive exposure. (Unresolved Item 75-8/7)
3. Satisfactory completion of testing of the ventilation system in the hot machine shop. (Unresolved Item 75-8/4)
4. Determination of liquid and gaseous discharge tank volumes. (Unresolved Item 75-19/5)
5. Evaluation of air monitor sampling media collection efficiencies. (Unresolved item 75-19/6)
6. Resolution of item concerning performance of the turbine and generator trip tests from 100% power. (Unresolved item 75-13/2)
7. Resolution of IE comments on HEPA filters and charcoal adsorbers test procedures. Use of the procedure as presently written could result in unbelievable test results or affect system performance. (Unresolved item 76-3/1)
8. Completion of respiratory protection training.
9. Completion of procedures for checks of process monitors during power escalation.
10. Resolution of contamination controls in hot machine shop. (Unresolved item 75-8/4)

Our inspector estimates the "Yellow Book" fuel load date of April 1976 as being optimistic and estimates that it will slip at least one month.


F. J. Long, Chief
Reactor Operations and Nuclear
Support Branch

Attachment:
As stated

cc: B. Grier, IE:HQ

ATTACHMENT 1

CRYSTAL RIVER 3 INSPECTION STATUS

1. Manual Chapter 2512

<u>Module</u>	<u>Title</u>	<u>Percent Complete</u>
52055B	Instrumentation (Component and Systems I) Review of Quality Records (Line Item 2.C(1))	80

2. Manual Chapter 2513

<u>Module</u>	<u>Title</u>	<u>Percent Complete</u>
35700B	QA Program - Qualification of Personnel	90
35702B	QA Program - Training	80
35714B	QA Program - Design Changes and Modifications	80
35720B	QA Program - Receipt, Storage, and Handling of Equipment and Materials	80
35724B	QA Program - Management	90
41301B	Inspection of Operating Staff Training	70
42450B	Operating Procedures Inspection	70
42451B	Maintenance Procedures Inspection	30
42452B	Emergency Procedures Inspection	60
42702B	Fire Prevention/Protection	40
80320B	Environmental Program - Preop. Inspection	70
80330B	Environmental Program - Final Inspection	0
81100B	Physical Protection	0
82330B	Emergency Plan - Offsite Agencies	70
82331B	Emergency Plan - Facilities, Equipment Procedures	70
82332B	Emergency Plan - Tests and Drills	0
83320B	Radiation Protection - Preop. Inspection	90
83325B	Radiation Protection - Final Preop. Inspection	0
84330B	Waste Management - Preop. Liquid Waste System	60
84331B	Waste Management - Preop. Gaseous Waste System	60
85100B	Materials Accountability	0
94300B	Inspection Preparatory to Operating License Issuance	70
70307B	Preoperational Test Procedure Review	80
70344B	Preoperational Test Procedures Verification - Category I Tests	80
70345B	Preoperational Test Procedure Verification - Category II Tests	90
70346B	Preoperational Test Procedure Verification - Category III Tests	80
70313B	Witness Containment Leak Rate Test	0
70314B	Witness Integrated Hot Functional Test	0
70350B	Witness One Preoperational Test	0
70351B	Witness One Preoperational Test	0

70352B	Witness One Preoperational Test	0
70353B	Witness One Preoperational Test	0
70354B	Evaluation of Test Results - 25% of Category I Tests	10
70355B	Evaluation of Test Results - 25% of Category I Tests	10
79323B	Evaluation of Test Results - Containment Leak Rate Testing	0
70358B	Evaluation of Test Results - Integrated Hot Functional Testing	0
70325B	Evaluation of Test Results - Vibration Testing	0
70360B	Evaluation of Test Results - Category II Tests	0
70361B	Verification that 1/3 of Category I Tests are Evaluated by Licensee	0
70362B	Verification that 1/3 of Category I Tests are Evaluated by Licensee	0
70363B	Verification that 1/3 of Category I Tests are Evaluated by Licensee	0
70364B	Verification that All Category II Tests are Evaluated by Licensee	0
70365B	Verification that 50% of Category III Tests are Evaluated by Licensee	0
70366B	Verification that 50% of Category III Tests are Evaluated by Licensee	0

3. Manual Chapter 2514

<u>Module</u>	<u>Title</u>	<u>Percent Complete</u>
35501B	QA for the Startup Testing Program	10
39501B	Startup Test Program Records	10
72500B	Initial Fuel Loading Procedure Review	0
72564B	Precritical Test Procedure Review	0
72566B	Precritical Test Procedure Review	0
72568B	Precritical Test Procedure Verification for Category II and Unreviewed Category I Tests	0
72570B	Low Power Test Procedure Review	0
72572B	Low Power Test Procedure Review	0
72574B	Low Power Test Procedure Verification	0
72576B	Power Ascension Phase Procedure Review	0
72578B	Power Ascension Phase Procedure Review	0
72580B	Power Ascension Phase Procedure Review	0
72582B	Power Ascension Phase Procedure Review	0
72584B	Power Ascension Phase Procedure Review	0
72586B	Power Ascension Phase Procedure Verification	0