

SNUPPS

Standardized Nuclear Unit
Power Plant System

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April 25, 1984

Nicholas A. Petrick
Executive Director

SLNRC
SUBJ:

84- 0075 FILE: 0541
Wolf Creek Preoperational
Test Program

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Docket Nos: STN 50-482 and STN 50-483

Dear Mr. Denton:

Preoperational testing at Callaway has identified that tests currently scheduled to be conducted at Wolf Creek during Hot Functional Testing and which are dependent upon fuel-loaded reactor vessel Δ P for verification of design specifications need not be run at Wolf Creek Generating Station Unit No. 1. The specific tests and the sections which describe them in the SNUPPS FSAR are:

<u>Tests</u>	<u>Section</u>
RTD Bypass Flow Measurement (S-03BB03)	14.2.12.1.11
Reactor Coolant System Flow Measurement (S-03BB09)	14.2.12.1.17
Reactor Coolant System Flow Coastdown Test (S-03BB10)	14.2.12.1.18
Pressurizer Continuous Spray Flow Verification (S-03BB12)	14.2.12.1.20

Additionally a portion of the following preoperational test falls into this same category:

<u>Test</u>	<u>Section</u>
Pressurizer Heater and Spray Capability Test (S-03BB08)	14.2.12.1.16

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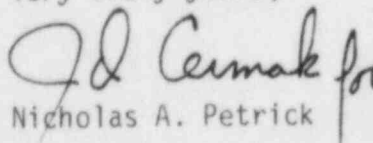
Reactor Vessel ΔP during Hot Functional Testing will be considerably lower (estimated 20-30%) than the normal fuel-loaded reactor vessel ΔP of 46.1 psid. Consequently, the results from performance of the above tests during Hot Functional Testing will not satisfy the test acceptance criteria requirements for verification of design specifications.

Additional tests are planned for performance after fuel loading, but before criticality, to satisfy the requirements for verification of design specifications. These tests are identified in the SNUPPS FSAR as follows:

<u>Test</u>	<u>Section</u>
RTD Bypass Flow Measurement (S-07BB01)	14.2.12.3.15
Reactor Coolant System Flow Measurement (S-07BB03)	14.2.12.3.17
Reactor Coolant System Flow Coastdown Test (S-07BB04)	14.2.12.3.18
Pressurizer Continuous Spray Flow Verification (S-07BB05)	14.2.12.3.19
Pressurizer Heater and Spray Capability Test (S-07BB02)	14.2.12.3.16

The requirement for tests S-03BB03, S-03BB09, S-03BB10, S-03BB12 and the spray flow portion of S-03BB08 will be deleted for Wolf Creek only from the SNUPPS FSAR in the next revision via reference to the Site Addendum. The attached FSAR page shows the specific revision to Test S-03BB08 which will be documented in the Wolf Creek Site Addendum. As indicated above, the Wolf Creek Preoperational Test Program is being modified, since these tests are duplicated following fuel loading and their performance during Hot Functional Testing will not accomplish the required verification of design specifications. These changes maintain the SNUPPS commitment to Regulatory Guide 1.68 Revision 2 which in Appendix A Section 2.f recommends reactor coolant system flow testing during the Initial Fuel Loading and Precritical Tests phase without specifying more specifically when it must be performed.

Very truly yours,


Nicholas A. Petrick

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Enclosure: Test Abstract
cc: See page 3

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14.2.12.1.16 Pressurizer Heater and Spray Capability Test (S-03BB08)

14.2.12.1.16.1 Objectives

To determine the electrical capacity of the pressurizer heaters, ~~the rate of pressure reduction caused by fully opening the pressurizer spray valves,~~ and the rate of pressure increase from the operation of all pressurizer heaters.

14.2.12.1.16.2 Prerequisites

- a. Required component testing and instrument calibration are complete.
- b. Required electrical power supplies and control circuits are operational.
- c. The plant is at normal operating temperature and pressure with all reactor coolant pumps running, and hot functional testing is in progress.
- ~~d. Continuous spray flow verification has been completed.~~

14.2.12.1.16.3 Test Method

- a. Pressurizer heaters are energized, and heater capacity is calculated.
- b. With the pressurizer spray valves closed, all pressurizer heaters are energized, and the time to reach a 2,300 psig system pressure is measured and recorded.
- ~~c. With the pressurizer heaters deenergized, both spray valves are fully opened, and the time to reach a 2,000 psig system pressure is measured and recorded.~~

14.2.12.1.16.4 Acceptance Criteria

- a. The capacity of the pressurizer heaters is within design limits.
- b. The pressurizer pressure response ~~to the opening of the pressurizer spray valves and~~ to the actuation of all pressurizer heaters is within design limits.