

FNP-O-ETP-4389

March 8, 1994

Revision 1

FARLEY NUCLEAR PLANT
ENGINEERING TECHNICAL PROCEDURE
FNP-O-ETP-4389

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SERVICE WATER STORAGE POND DAM BIENNIAL INSPECTION

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Approved:

Ryan
Systems Performance Manager

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Date: 3/23/94

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SYSTEMS PERFORMANCE TEST RESULTS SUMMARY REPORT

Section I Test Description

Title: SERVICE WATER STORAGE POND DAM BIENNIAL INSPECTION

Procedure Number: FNP-0-ETP-4389 Revision Number: 1

Start Date: _____ Completion Date: _____

Section II Test Results, Evaluation and Recommendations

- ☐ Test satisfactory (test results recommended for approval)
- ☐ Test unsatisfactory (explain below, as needed)
- ☐ All data sheets and other test data are attached.
- ☐ All test data steps and data sheets have been completed and signed off.
- ☐ Other disposition as recommended below.

Remarks:

Performed By: _____ Date: _____

Section III Systems Performance Supervisor's Review

Comments: _____

Approved: _____ Date: _____

PROVISIONS OF FNP-0-AP-24 ARE NOT APPLICABLE

LIST OF EFFECTIVE PAGES

PAGE NO.	REVISION NO.										
	0	1	2	3	4	5	6	7	8	9	10
1	X	X									
2	X	X									
3	X	X									
4		X									
DATA SHEET 1											
1	X										

FARLEY NUCLEAR PLANT
UNITS 1 AND 2
ENGINEERING TECHNICAL PROCEDURE

SERVICE WATER STORAGE POND DAM BIENNIAL INSPECTION
FNP-0-ETP-4389

1.0 Purpose

- 1.1 The purpose of this procedure is to describe the regular biennial inspection of the service water pond dam at Farley Nuclear Plant. In addition, results are evaluated by Southern Company Services. Their evaluation is normally submitted within 30 days of the completion of the testing. The evaluation letter includes recommendations for corrective action when appropriate. This inspection is designed to prevent operational problems related to the dam by helping to insure that its integrity is maintained.

The provisions of FNP-0-AP-24 are not applicable.

2.0 Acceptance Criteria

- 2.1 Evaluation of the dam is based on an inspection performed by the Alabama Power dam inspection team, consisting of engineers selected based on experience and knowledge in the design, construction and operation of dams. Otherwise, no quantitative acceptance criteria exists.

3.0 Corrective Action

- 3.1 Proper corrective action varies and depends on a thorough assessment of conditions by qualified engineers.
- 3.1.1 For any condition which does not present an immediate threat to the integrity of the structure or plant, the inspection team will include recommendations for the appropriate corrective action(s) in the inspection report.
- 3.1.2 For any condition which presents an imminent danger to the integrity of the structure or the plant, the condition will be immediately evaluated and discussed with the appropriate plant personnel.

4.0 Reference

- 4.1 U. S. Nuclear Regulatory Commission
"Regulatory Guide" 1.127, "Inspection of Water-
Control Structures Associated with Nuclear Power
Plants".
- 4.2 "Post-Construction Report, Storage Pond Dam
and Dike Embankments, Joseph M. Farley Nuclear
Plant", Bechtel Power Corporation, September, 1977.
- 4.3 D-176980, Storage Pond Dam and Dike General
Arrangement and Stripping Plan.
- 4.4 FNP-0-ETP-4381, Service Water Storage Pond
Piezometer Well Readings.

5.0 Test Equipment

- 5.1 The inspection is strictly visual. No test
equipment is utilized in the inspection.

PGS 6.0 Precautions and Limitations

- 6.1 Steps of the procedure with a designator (described
below) in the left margin denote the requirement
for the individual performing the step to provide
his initial and date on the data sheet.
 - 6.1.1 Designator PGS, APC Power Generation Service
 - 6.1.2 Designator SP, Systems Performance

PGS/ 7.0 Prerequisites and Initial Conditions
SP

- 7.1 PGS has coordinated work through the General
Manager of Nuclear Support at Southern Nuclear.
- 7.2 Performance of this procedure has been scheduled by
FNP-SP.
- 7.3 Permission has been obtained from the shift
supervisor to perform this procedure.
 - 7.3.3 Notify appropriate site personnel of any
conditions found in 7.2.2.1 (b) which are
considered to require immediate repair
before leaving the plant site.

PGS 8.0 Instructions

NOTE: DESCRIBE ANY ABNORMALITIES IN THE REMARKS SECTION OF THE DATA SHEET.

8.1 Scope of Inspection

- 8.1.1 Inspection of the entire length of the embankment structure, along the downstream toe and along the top of the dam is made on foot. The appurtenant intake and discharge structures are also examined during this inspection. Inspection of the spillway channel is made at various points by vehicle.

PGS

8.2 Inspection

- 8.2.1 In the inspection of the embankment, particular attention is given to detecting signs of seepage, erosion, differential settlement, displacement, cracking, or animal burrows, fire, ant hills, bushes and small trees on the embankment slopes, ungrassed areas, and water ponding areas or other undesirable conditions along the roadway surface. The rip rap on the upstream slope is inspected for signs of movement, excessive bush and tree growth. Presence of one or more of these conditions to an excessive extent could indicate slope instability.
- 8.2.2 Permanently installed instrumentation used to measure the performance of the structure is inspected for any obvious changes or indications of improper functioning. Instrumentation protective devices including above ground piping frames, covers and caps are inspected for damage, deterioration, missing parts, and other abnormal conditions.
- 8.2.3 Appurtenant concrete structures are examined for structural cracking, deterioration, obstruction, settlement or other conditions that could eventually impose operational constraints.
- 8.2.4 The unlined spillway channel is examined to verify that there are no significant obstructions of flow.

8.2.5 Gravity relief well manholes and the chimney drain central manhole are entered and inspected for obstructions, deterioration, improper functioning or other conditions affecting proper operation.

8.2.6 Areas noted in previous biennial reports as being in need of corrective action or maintenance are re-inspected to be sure the conditions noted have been corrected and have not recurred.

8.3 Documentation

PGS

8.3.1 Following the inspection, a meeting will be held with FNP-SP to report observations made during the inspection.

8.3.2 A final report of observations made during the inspection will be transmitted to the General Manager of Nuclear Support at Southern Nuclear.

9.0 Restoration

SP

9.1 Shift supervisor notified of completion of inspection.

DATA SHEET
Service Water Storage Pond Dam Biennial Inspection

TPNS NO: _____ MWR/WA NO: _____ DATE: _____

<u>STEP</u>	<u>DESCRIPTION</u>	<u>SIGNATURE</u> / <u>DATE</u>
6.0	Precautions and limitations have been read and understood.	(PGS) _____ / _____
7.0	Prerequisites & Initial Conditions Completed/Satisfied.	(PGS) _____ / _____ (SP) _____ / _____
8.0	Full length of the dam and the structure inspected for abnormalities. Comments noted in remarks section.	(PGS) _____ / _____
8.3.1	Met with FNP-SP to discuss observation made during the inspection.	(PGS) _____ / _____
9.1	Shift Supervisor notified of inspection completion.	(SP) _____ / _____

REMARKS: _____

