UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report Nos.: 50-327/79-03 and 50-328/79-01

Licensee: Tennessee Valley Authority
500A Chestnut Street Tower II
Chattanooga, Tennessee 37401

Facility Name: Sequoyah Nuclear Plant, Units 1 and 2

Docket Nos.: 50-327 and 50-328

License Nos.: CPPR-72 and CPPR-73

Inspection at Sequoyah site near Daisy, Tennessee

Inspector: B. R. Crowley — B. R. Crowley — 2/2/79 Date

Approving by: T. E. Conlon — T. E. Conlon, Section Chief, RCES Branch — 2/5/79 Date

Inspection on January 15-17, 1979

Areas Inspected

This routine, unannounced inspection involved 24 inspectorhours onsite in the areas of reactor coolant pressure boundary piping activities and records (Unit 2), Safety related piping activities and records (Unit 2), housekeeping and general construction activities (Units 1 and 2), and previously identified inspection items (Units 1 and 2) .

Results

Of the four (4) areas inspected, no apparent items of noncompliance or deviations were identified.

7903140499

DETAILS

1. Persons Contacted

Licensee Employees

G. G. Stack, Project Manager, Construction
J. W. Wilkins, Construction Engineer
L. W. Jones, Welding Inspection Unit Supervisor
W. C. Hatmaker, Welding Engineer
M. F. Steakley, Welding Engineer
D. G. Collins, Lead Inspector
J. A. Thompson, Mechanical Engineering Group Leader
J. D. Thornton, Mechanical Engineering Group Leader
D. M. Watson, Mechanical Engineer
Jan Bajreszewski, Mechanical Engineer
E. C. Pendergrass, QC Records Unit

Other licensee employees contacted included construction craftsmen, inspectors, and engineering personnel.

2. Exit Interview

The inspector had no items of noncompliance or deviation. These findings and a list of areas inspected were turned over to E. J. Vallish (RII) for presentation at the exit meeting to be conducted on January 19, 1979.

3. Licensee Action on Previous Inspection Findings

(Closed) Item of Noncompliance (327/78-33-02 and 328/78-24-01): Failure to log weld rod oven temperatures. The inspector reviewed the licensee's corrective action and "Temperature Log of Rod Ovens" dated 11/12/78 through 1/10/79 for the number 4 (Turbine Building) rod room and 1/15/79 through 1/17/79 for the number 1 (Elevation 690, Auxiliary Building) rod room. There are no further questions at this time.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection Effort

The following areas of interest were reviewed by the inspector:

a. Walk-Through Inspection

A general walk-through inspection of Units 1 and 2 (reactor building and auxiliary building) was made. Housekeeping and general construction activities were observed.

b. Safety Related Piping (Welding) - Observation of Work and Work Activities (Unit 2)

The inspector observed field welding of safety-related piping outside the reactor coolant pressure boundary at various stages of weld completion. The applicable code for safety-related pipe welding is ANSI standard B31.7, 1969 Edition and the 1970 Addenda.

Observation of field welding activities included, where applicable, the following areas; weld identification and location, joint preparation and alignment, specified weld procedure, welder qualification, specified weld material, specified purge, specified preheat temperature, welding variables within limits and evidence of QC verification.

(1) Joint Fitup

Joint Number	Isometric	System
2CX02633	206	CVC

(2) Root Pass

Joint Number	Isometric	System
2CX02633	206	CVC

(3) Intermediate Pass Welding

Joint	Isometric	System
OER04939B	32	--
2SI01666	--	SI
2SI01667	--	SI
2SI01672	--	SI
2SI01655	--	SI
2MS00039	--	MS
2SE09258	276	SE
2CX02658	206	CVC
2MS00009	400	MS
2HY00579A	569	--

(4) Observation of weld material control included; identification, segregation, oven temperature, issue slips and control of unused material at issue stations 1 and 4.

Within the areas examined, no items of noncompliance or deviations were identified.

6. Reactor Coolant Pressure Boundary Piping (Welding) - Observation of Work and Work Activities(Unit 2)

The inspector observed field welding as described below relative to reactor coolant pressure boundary piping. The applicable code for this welding is ANSI Standard B31.7, 1969 Edition and the 1970 Addenda.

Observation of field welding activities included, where applicable, the following areas; weld identification and location, use of applicable welding procedure, welder qualification, use of specified weld material, weld appearance, and evidence of welding variable checks.

a. Weld Observed

Joint	Isometric	System	Size	Status
2CX01078	501	CVC	2"	Final Layer

b. Weld Material Control

Observation of weld material control included; identiflcation, segregation, oven temperatures, issue slips and control of unused material at issue stations 1 and 4.

Within the areas examined, no items of noncompliance or deviations were identified.

7. Reactor Coolant Pressure Boundary Piping (Welding) - Review of Quality Records (Unit 2)

The inspector reviewed nonconformance reports 190, 233, 360, 361, 538, 539, 550, 863, 1016, and 1160 relative to reactor coolant pressure boundary pipe welding (see paragraph 6 above for the applicable code for reactor coolant pressure boundary pipe welding).

Within the areas inspected, no items of noncompliance or deviations were identified.

8. Reactor Coolant Pressure Boundary Piping - Observation of Work and Work Activities (Unit 2)

The inspector observed piping work activities as described below relative to reactor coolant pressure boundary piping. The applicable code is the same as that referenced for welding in paragraph 6 above.

a. The following partially completed piping runs were inspected for compliance with the applicable code and drawings:

(1) RHR line between weld 85 at loop 4 and weld 86 at valve 2FCV 74-1 per drawings:

NAVCO A7456 "TVA Contract 71C33 - 92615, Residual Heat Removal" and TVA 47W432 - 3 "Mechanical Residual Heat Removal System Piping"

(2) Safety Injection line between weld 169 at valve 2-63-561 and weld 168 at valve 2-63-623 per drawings:

NAVCO A7541 "TVA Contract 71C33 - 92615, Safety Injection System, LHSI to #2 and #3 Accum. Pen. X20B" and TVA 47W435 - 14 "Mechanical Safety Injection Piping System"

b. The following pipe spools were observed in storage:

2UPI - 34
2UPI - 32
2UPI - 40

Within the areas inspected, no items of noncompliance or deviations were identified.

9. Reactor Coolant Pressure Boundary Piping - Review of Quality Records (Unit 2)

The inspector reviewed quality records as described below relative to reactor coolant pressure boundary piping activities. The applicable code is the same as that referenced for welding in paragraph 6. above.

Installation records for loops 1-3 and 1-4 in the form of "Weld History Records" for weld joints RC-2-5, RC-2-6, and RC-2-4, were reviewed in the areas of alignment and cleanliness checks. Joint RC-2-4 had not passed final radiographic inspection at the time of the inspection.

Within the areas inspected, no items of noncompliance or deviations were identified.

10. Safety-Related Piping - Review of Quality Records (Unit 2)

The inspector reviewed the quality records described below relative to safety related piping outside the containment. The applicable code is the same as that referenced for welding in paragraph 5.b above.

The records review included material test reports/certification record and receiving inspection records for the following piping components:

Piping Component	Size	System
90 E11 Mk.47W450-317	18"	ERCW
Spool Pc. 2CC-25C	8"	CC
Spool Pc. 2RHR-13	12"	RHR
Spool Pc. 2CS-33	8"	CS
Spool Pc. 2RHR-52	3"	RHR
Spool Pc. 2SI-85	4"	SI
Spool Pc. 2RHR-19A	8"	RHR
Spool Pc. 2CS-29	12"	CS
Spool Pc. 2CVC-19	4"	CVC
Spool Pc. 2CVC-41	3"	CVC

Within the areas inspected, no items of noncompliance or deviations were identified.