UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

DEC 28 1979

Report Nos. 50-566/79-18 and 50-567/79-18

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

Facility Name: Yellow Creek Nuclear Plant

Docket Nos. 50-566 and 50-567

License Nos. CPPR-172 and CPPR-173

Inspection at Yellow Creek Site near Iuka, Mississippi

Inspector: _____ 12/27/79
M. J. Gouge Date Signed

Approved by: _____ 12/27/79
F. S. Cantrell, Section Chief, RCES Branch Date Signed

SUMMARY

Inspection on December 11-14, 1979

Areas Inspected

This routine, unannounced inspection involved 24 inspector-hours onsite in the areas of QA records, warehouse storage and preventive maintenance, concrete placement (Unit 1) and followup on a licensee identified item.

Results

Of the four areas inspected, no items of noncompliance or deviations were identified in three areas; one item of noncompliance was found in one area (Infraction - Failure to provide power to space heaters of safety-related pumps in storage, paragraph 5.c).

DETAILS

1. Persons Contacted

Licensee Employees

*M. M. Price, Project Manager
*L. S. Cox, Construction Engineer
*C. G. Wages, Assistant Construction Engineer (QC)
S. G. Carr, Assistant Construction Engineer (PE)
J. C. Adams, Assistant Construction Superintendent
*R. D. Briggs, Supervisor, Mechanical QC Unit
*J. N. Holladay, Supervisor, Project QA Unit
*R. G. Delay, Supervisor, Civil QC Unit
*J. D. Shanlever, Supervisor, Material Services Unit
E. W. McGuire, General Labor Foreman
*S. E. Alge, Supervisor, DCU
C. M. Freeman, Civil QC Unit
D. P. Reynolds, Civil QC Unit
G. B. Alexander, Civil QC Unit
*S. P. Watson, DCU
J. L. Johnson, Material Services, Unit
*F. T. Carroll, Material Services Unit
A. L. Newby, Project Engineering, Mechanical

Other licensee employees contacted included various construction craftsmen and office personnel.

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on December 14, 1979 with those persons indicated in Paragraph 1 above. The licensee acknowledged the item of noncompliance discussed in paragraph 5.c.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection Effort

a. Concrete Placement and Related Activities (Unit 1)

The inspector observed partial placement of Category I concrete wall pour A1-M1 and A1-N12 at elevation 477 feet in the Unit 1 reactor building area.

Acceptance criteria examined by the inspector are specified in the following documents:

(1) Section 3.8 of the PSAR and TVA Topical Report 75-1A
(2) TVA Specification G-2, "Plain and Reinforced Concrete"
(3) Quality Control Instructions C-201 through C-214
(4) Drawing Series 4RE0417-5R, Walls and Slabs
(5) Drawing Series 4RE0418-5R, Reinforcement
(6) Specification N8C-887, "Plain and Reinforced Concrete"

Forms were tight and clean and preplacement inspection was indicated by the signed pour cards. Areas inspected included delivery, conveying, placement, consolidation, testing and curing of concrete.

The following records were reviewed by the inspector for pours A1-M1 and A1-N12:

(1) Concrete Pour Card
(2) Concrete Sample Data Sheet
(3) Mixing Plant Record
(4) Slump Control Record

Concrete operations were continously monitored by Civil QC personnel. Concrete delivery, conveying, placement, consolidation, testing and curing were conducted in accordance with applicable procedures.

No items of noncompliance or deviations were identified.

b. Quality Assurance Records (Units 1 and 2)

The inspector reviewed closed Quality Control Investigation Reports (QCIR) through QCIR 12480 and Nonconformance Reports (NCR) through NCR 41 for acceptable disposition, evaluation of significance, adherence to appropriate Construction Engineering Procedures (CEP) and to determine the scope of quality related problems identified since the previous NRC inspection. The QCIR and NCR systems were found to be implemented and functioning in accordance with CEP 15.01 and CEP 15.03, respectively.

No items of noncompliance or deviations were identified.

c. Warehouse Storage and Preventive Maintenance (Units 1 and 2)

The project inspector conducted an inspection of site warehouses A and B. Areas inspected include assignment of proper storage level, control of received items, control of nonconforming items, identification or marking of stored items and access control to the warehouse areas. Items received are placed in a cage pending completion of QC receipt inspection and proper marking. All nonconforming items were stored in the QC hold cage with the exception of several large pumps in level B storage that were properly identified as nonconforming. The licensee's level B and C storage areas in warehouses A and B are acceptable.

The inspector reviewed the licensee's program for the accomplishment of preventive maintenance on safety-related pumps inside level B storage in Warehouse A. The licensee has implemented a computer program to schedule preventive maintenance on safety-related items in storage. Input data cards exist for required preventive maintenance performed after September 1979. The licensee has the following safety-related, ASME Class 2, Chemical and Volume Control System (CVCS) charging pumps in level B storage:

Serial Numbers:

N770459A601
N770459A602
N770459A603
N770459A604
N770459A605
N770459A606

The inspector noted that the space heaters on the motors of these six pumps were not energized nor were arrangements made for providing power to the space heaters. These pumps were received on site in July 1979. Receiving Inspection, Storage and Preventive Maintenance (RIS&PM) procedure M-121, Rev. 0 and the vendors motor storage procedure STR-2104 require that space heaters, if provided, be energized at all times. The purpose of the space heaters is to prevent condensation from damaging the motor internals during long-term storage. Failure to maintain continuous space heating to these six CVCS charging pump motors is not in accordance with RIS&PM M-121. Failure to follow quality procedures is contrary to Criterion V of Appendix B to 10 CFR 50.

This item is identified as Infraction 566-567/79-18-02, CVCS Charging Pump Motor Space Heaters Deenergized.

6. Licensee Identified Item (Units 1 and 2)

TVA has reported the following item in compliance with 10 CFR 50.55(e) and 10 CFR 21. The inspector reviewed the item listed below and the supporting documentation and discussed the item with responsible licensee staff during the inspection.

(Open) Item 566-567/79-18-01: Defective Metal Conduit. On October 25, 1979, TVA informed Region II of this reportable item identified as NCR YC-034. The item involved defects in intermediate metal conduit, some of which has been embedded in concrete. The defects in the conduit, manufactured by Triangle PWC of New Brunswick, New Jersey, involve damaged threads, burrs, incorrect dimensional tolerances, and flaking of the surface coating of the conduit. TVA submitted an interim report dated November 26, 1979 and will submit a supplemental report by February 22, 1980.