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400 Chestnut Street Tower II

October 13, 1982

U.S. Nuclear Regulatory Commission
Region IV
ATTN: Mr. Uldis Potapovs, Chief
Vendor Programs Branch
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Dear Mr. Potapovs:

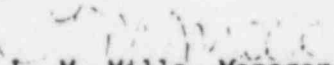
This responds to the letter from R. C. Lewis, NRC-Region II, to M. R. Wisenburg of my staff requesting us to provide you a copy of our current equipment qualification test schedules for TVA nuclear plants.

We have enclosed a copy of our current test status and schedule for the Browns Ferry and Sequoyah Nuclear Plants. The safety evaluation reports for the Watts Bar and Bellefonte Nuclear Plant have not been completed; therefore, no equipment has been scheduled for testing for those plants.

If you have any questions, please call Jim Domer at FTS 858-2725 for the Browns Ferry Nuclear Plant or Ralph Shell at FTS 858-2676 for the Sequoyah Nuclear Plant.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
ATTN: Mr. R. C. Lewis, Director
Division of Project and Resident Programs
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

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WYLE LABORATORIES TEST STATUS AND SCHEDULE
FOR QUALIFICATION OF CLASS 1E EQUIPMENT FOR BROWNS FERRY
AND SEQUOYAH NUCLEAR PLANTS
AS OF AUGUST 12, 1982

1. Sequoyah Insulated Control Cable

A Test Procedure, TP 17460-21, was developed and testing was performed on TVA Type PJJ Cable, mark letters, WHB, 2/C, No. 14 AWC Control Cable, manufactured by Plastic Wire and Cable Corporation, to qualify the cable for use in the Sequoyah Nuclear Plant outside of containment.

The final test report issued by Wyle Laboratories on March 12, 1982 was confirmed that the specimens passed the test successfully.

2. Browns Ferry High Energy Line Break (HELB)

A Test Procedure, TP 17460-1, Rev. B, has been approved by TVA. Testing was begun in August 1982 of various generic cable types, splices, terminal blocks, and control devices to various steam temperature-pressure profiles resulting from HELB as defined for Browns Ferry units 1, 2, and 3. The test will require approximately three months and be completed in November 1982. *where?*

3. Browns Ferry Containment Accident

A Test Procedure, TP 17460-2, Rev. A, has been submitted to TVA for review. Upon approval a test of various generic cable types and splices will be conducted to the steam temperature-pressure profiles resulting from High Energy Line Breaks (HELB) and a Loss of Coolant Accident (LOCA), as defined for Browns Ferry units 1, 2, and 3. The test program will require approximately 14 months to complete.

4. Fenwal Temperature Switches

A Qualification Plan, QP 17460-6, Rev. C, was approved and testing was initiated January 1982 on five Fenwal Temperature Switches, Model Nos. 17323-0, 17002-40, 17023-6, 18002-27, and 18023-7 to qualify their use outside of containment in the Browns Ferry and Sequoyah Nuclear Plants. Testing is planned for completion in November 1982. *where?*

5. Sequoyah Control Equipment and Cables (HELB)

A Qualification Plan, QP 17460-3, Rev. B, was approved and testing was initiated July 1982 on various control equipment and cables to qualify their use in the Sequoyah Nuclear Plant. Testing is forecasted to be completed approximately November 1, 1983.

6. Fisher Controls E/P Transducer

A Qualification Plan, QP 17460-13, Rev. C, was approved and testing was initiated November 1981 on a Fisher Controls Type 546 Electro-Pneumatic Transducer to qualify it for use outside containment in the Browns Ferry Nuclear Plant. Testing was completed and the final Test Report, TR 17504-1, Rev. A, issued by Wyle Laboratories July 15, 1982 confirmed that the transducer and associated regulator are qualified to the requirements set forth in NUREG-0588 and IEEE 323-1974.

7. Dwyer Differential Pressure Switch Model 1627

A Qualification Plan, QP 17460-4, Rev. B, was approved and testing was initiated in December 1981 on a Dwyer Differential Pressure Switch, Model 1627, to qualify it for use outside of containment in the Sequoyah Nuclear Plant. In April 1982 anomalies were experienced during seismic testing and the accident test, scheduled to follow, was cancelled. Wyle Laboratories participated with the manufacturer in a failure analysis of one test specimen. Although no conclusive evidence resulted, the Buna-N diaphragm material did have suspect indications.

Three new test specimens have been procured containing silicone rubber diaphragm material. The Qualification Plan has been revised, QP 17460-4-1, Rev. A, and approved and testing of the new configuration was initiated June 1982. Testing is scheduled to be completed approximately January 15, 1983.

8. Dwyer Differential Pressure Switch, Model 1638

A Qualification Plan, QP 17460-22, Rev. B, was approved and testing was initiated in December 1981 on a Model 1638-1 Dwyer Differential Pressure Switch to qualify it for use outside of containment in the Browns Ferry Nuclear Plant. In April 1982, during post-accident thermal aging near the conclusion of the test, the specimens failed to return to their normal state during a scheduled functional test. The test was put on hold pending results of the Dwyer Model 1627 test.

9. Masoneilan E/P Transducer

A Qualification Plan, QP 17460-19, Rev. B, was approved and testing was initiated in December 1981 on a Masoneilan Model 8005A Electro-Pneumatic Transducer to qualify it for use outside of containment in the Sequoyah Nuclear Plant. Testing was completed in July 1982. After reexamining the plant requirements, TVA is slightly modifying the acceptance criteria for the transducer. The transducer passed the test within the modified acceptance criteria and the final test report is scheduled for issuance approximately November 1982.

10. Comsip-Delphi H₂ Detection System

A Test Procedure, TP 17502, was approved and testing was initiated in November 1981 on a Comsip-Delphi H₂ Detection System Model K-IIIM to verify operability of the system during the TVA defined accident environment in the Sequoyah Nuclear Plant. The test was completed in June 1982. Several anomalies were experienced with the system during testing. Wyle Laboratories and TVA are evaluating the results of the test to formulate a course of action.

11. Browns Ferry Motor Control Centers (MCC)

A Qualification Plan, QP 17460-24, Rev. A, has been submitted for review defining a generic qualification test of nine different motor control centers located in various locations outside of containment in the Browns Ferry Nuclear Plant. The MCC's are manufactured by General Electric and International Switchboards. A generic group of components shall be mounted in a representative MCC cabinet and tested. TVA is negotiating with other utilities regarding their possible joint participation in the test. The test program will require eight months to complete. Test initiation is forecast for late September 1982 and testing would be completed in May 1983.

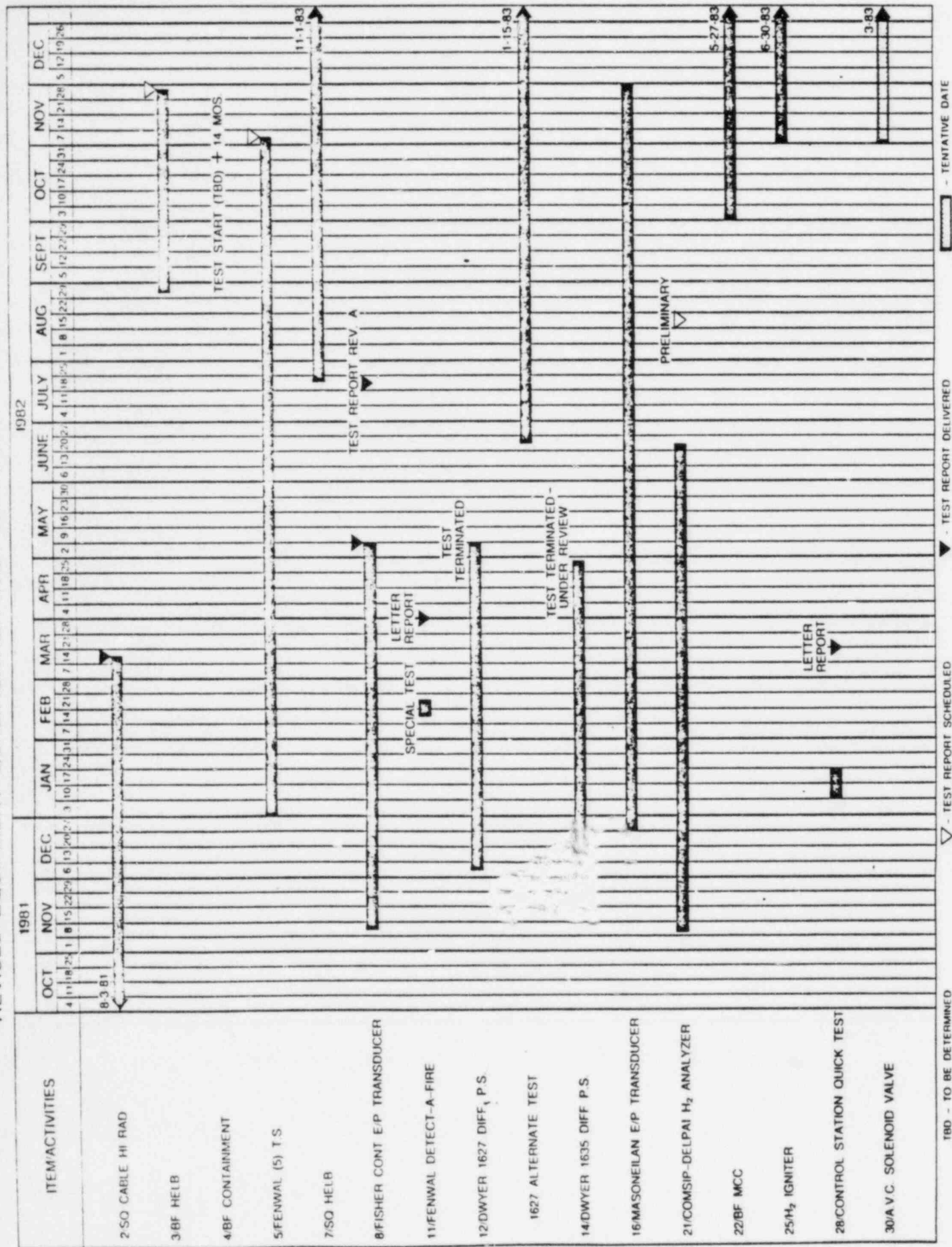
12. H₂ Igniter

A Qualification Plan, QA 17460-25, Rev. A, has been submitted for review defining a qualification test of hydrogen igniters, manufactured by TAYCO Engineering Inc., for use in Sequoyah and Watts Bar Nuclear Plants. The test program will require 39 weeks to complete. Test initiation is forecast for November 1982 and testing would be completed in June 1983.

13. Solenoid Operated Air Valve

Based on information contained in Wyle Assessment Report No. BF 17460-AR-02, TVA directed preparation of a Qualification Plan, QP 17460-26, defining a qualification test of a solenoid operated air valve, C-5497, manufactured by Automatic Valve Corporation (A.V.C.). The air valves are installed on main steam isolation valves in the Browns Ferry Nuclear Plant. TVA is negotiating with other utilities regarding their possible joint participation in the test. Additional test requirements may emanate from this participation. A specific test schedule will be developed when all requirements are identified. A budgetary estimate at initiation of the plan predicted a 22-week test program.

REVISED EQUIPMENT QUALIFICATION TEST SCHEDULE - AUGUST 1982



Discuss with
George Hubbo.
Monday
Hubbo
give
Copy

o Action Item
a day