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MIDDLE SOUTH UTILITIES SYSTEM

June 29, 1984

W3P84-1805
Q-3-A29.22.14

Director of Nuclear Reactor Regulation
Attention: Mr. G.W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Waterford 3 SES
Docket No. 50-382
FSAR Chapter 14

Dear Sir:

Per your request and in an effort to complete LP&L's response for Allegation 28, use of high-point vents in hydrostatic testing, attached are proposed FSAR changes which will be implemented in a future amendment in accordance with 10 CFR 50.71(e) requirements. The changes clarify that venting of systems during hydrostatic testing was performed in accordance with the requirements of ASME Boiler and Pressure Vessel Code, Section III, Article NC-6211 (Summer, 1981 Addenda).

Also, attached are proposed changes which reflect that testing of the non-safety related Supplementary Chilled Water System may not be completed prior to fuel load (this does not violate any NRC requirements).

If you have any questions please do not hesitate to call.

Yours very truly,

K.W. Cook
Nuclear Support & Licensing Manager

KWC/PC/pco

Attachment

cc: E.L. Blake, W.M. Stevenson, J.T. Collins, D.M. Crutchfield,
J. Wilson, G.L. Constable

B001
1/1

14.2.12.2.90 SECONDARY SYSTEM HYDROSTATIC TEST | 15

14.2.12.2.90.1 Objective

To hydrostatically test the secondary side of the steam generators and non-isolable piping. | 8

14.2.12.2.90.2 Prerequisites

A. The steam generators and main steam piping to the main steam isolation valves are filled, vented, and at the required temperature. | 15 | 8

B. Reactor Coolant System (RCS) is filled, vented, and at the required temperature. | 15 | 9

C. The reactor coolant pumps are operable.

D. Test pump is available. | 8

E. Main steam safety valves are gagged or removed.

F. Test instrumentation is available and calibrated. | 29

G. Permanently installed instrumentation necessary for testing is operable and calibrated. | 34

14.2.12.2.90.3 Test Method

A. Increase RCS pressure to a value that will ensure that the secondary to primary differential pressure does not exceed design value. | 8

B. Perform the test in accordance with the ASME code.

14.2.12.2.90.4 Acceptance Criteria

The Secondary System hydrostatic test meets the requirements of ASME Boiler and Pressure Vessel Code, Section III; (Venting in performing the hydrostatic test was done according to NC-6211 - Summer, 1981 Addenda) | 18

14.2.12.2.91 REACTOR COOLANT SYSTEM HYDROSTATIC TEST

14.2.12.2.91.1 Objective

8

To verify the integrity of the Reactor Coolant System (RCS) pressure boundary and associated Safety Class I piping.

14.2.12.2.91.2 Prerequisites

A. The RCS is filled, vented, and at the required temperature. 15

B. The reactor coolant pumps are operable.

C. Test pump is available. 8

D. Primary safety valves are gagged or removed.

E. Permanently installed instrumentation necessary for testing is operable and calibrated. 34

F. Test instrumentation is available and calibrated. 29

14.2.12.2.91.3 Test Method

A. Operate reactor coolant pumps to sweep gases from the steam generator tubes.

B. Vent the RCS and all control element drive mechanism housings. 8

C. Operate the reactor coolant pumps to increase the RCS temperature to that required for pressurization of RCS to test pressure.

D. Perform the test in accordance with the ASME code.

14.2.12.2.91.4 Acceptance Criteria

The RCS hydrostatic test meets the requirements of ASME Boiler and Pressure Vessel Code, Section III; (Venting in performing the hydrostatic test was done according to NC-6211-Summer, 1981 Addenda) 18

14.2.12.2.30 CHILLED WATER ~~AND SUPPLEMENTARY CHILLED WATER~~ SYSTEMS | 15

14.2.12.2.30.1 Objective | 8

To verify the proper operation of the Chilled Water ~~and Supplementary Chilled Water~~ Systems. | 15

14.2.12.2.30.2 Prerequisites | 8

A. Construction activities on the systems to be tested are complete. | 18

B. Test instrumentation is available and calibrated. | 29

C. Plant systems required to support testing are operable, or temporary systems are installed and operable. | 15

D. Permanently installed instrumentation is operable and calibrated. | 29

14.2.12.2.30.3 Test Method

A. Verify all control logic.

B. Demonstrate that each chilled water train can be operated from its local and remote manual station. | 8

C. Verify that each chilled water unit performs as designed and supplies chilled water at rated flow and temperature. | 15

D. Verify chilled water flow to all supplied components. | 8

E. Verify that the chilled water systems respond automatically to the appropriate engineered safety features actuation signal (ESFAS). | 18 | 15

F. Verify the proper operation of all protective devices, controls, interlocks, instrumentation, and alarms, using actual or simulated inputs. | 8 | 15

14.2.12.2.30.4 Acceptance Criteria | 8

The Chilled Water System ~~and Supplementary Water System~~ performs as described in Subsection 9.2.9. | 15

TABLE 14.2-1 (Cont'd)

Subsection	Title	
14.2.12.2.21	Annulus Negative Pressure And Vacuum Relief Systems	8
14.2.12.2.22	Containment Combustible Gas Control System	15
14.2.12.2.23	Airborne Radioactivity Removal System	
14.2.12.2.24	CEDM Cooling System	8
14.2.12.2.25	Turbine Building Ventilating System	
14.2.12.2.26	Cable Vault and Switchgear Area HVAC System	
12.2.12.2.27	Control Room Envelope HVAC System	
14.2.12.2.28	RAB Normal Ventilation and Containment Purge Systems	15
12.2.12.2.29	Controlled Ventilation Area System	
14.2.12.2.30	Chilled Water ~~and Supplementary Chilled Water~~ Systems	8
14.2.12.2.31	RAB Miscellaneous HVAC System	
14.2.12.2.32	Fuel Handling Building Ventilating System	15
14.2.12.2.33	Primary Water Storage System	8
14.2.12.2.34	Reactor Coolant System Quench Tank Subsystem	
12.2.12.2.35	Pressurizer Pressure And Level Control System	15
14.2.12.2.36	Pressurizer Safety Valve	8
14.2.12.2.37	Chemical And Volume Control System Charging Subsystem	15 8
14.2.12.2.38	Chemical And Volume Control System Letdown Subsystem	15
14.2.12.2.39	Volume Control Tank Subsystem	8
14.2.12.2.40	Boronometer	15