

DSAR-9.1

Auxiliary Systems

General

Rev 0

Safety Classification:

Safety

Usage Level:

Information

Change No.:	EC 69283
Reason for Change:	This section is being updated to reflect the permanent cessation of operations of Fort Calhoun Station. The contents of this section have been changed to remove any information which is not applicable during decommissioning.
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9. **AUXILIARY SYSTEMS**

9.1 General

The auxiliary systems discussed in this section are those supporting systems which are required to ensure the safe operation, protection and servicing of the major plant systems and, principally, the Spent Fuel Pool Cooling system. In some cases the dependable operation of several systems is required to fulfill the above requirements and, additionally, certain systems are required to operate under emergency conditions. The extent of the information provided for each system is proportional to the relative contribution of, or reliance placed upon the system in relation to the overall plant safety. The systems considered are:

- a. Deleted
- b. Deleted
- c. Deleted
- d. Spent Fuel Handling System
- e. Spent Fuel Pool Cooling System
- f. Component Cooling Water System
- g. Raw Water System
- h. Turbine Plant Cooling Water System
- i. Heating, Ventilating, and Air Conditioning Systems
- j. Fire Protection System
- k. Compressed Air System
- l. Sampling Systems

The majority of the components within these systems are located in the auxiliary building.

The codes and standards, which were used in the design, fabrication, inspection, quality control and testing of vessels, valves, piping, pumps, and other components include the following:

- a. Air Filter Institute Standards
- b. Air Moving and Conditioning Association Standards
- c. American Institute of Steel Construction Standards
- d. American Society for Testing and Materials Standards
- e. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Guide and Data Book
- f. American Standard C50.2-1955, Alternating Current Motors, Induction Machines, and General and Universal Motors
- g. American Standard C50.20-1954, Test Code for Polyphase Induction Motors and Generators
- h. Anti-Friction Bearing Manufacturers Association Standards
- i. ASME Boiler and Pressure Vessel Code, Section II, Material Specifications
- j. ASME Boiler and Pressure Vessel Code, Section III, Nuclear Vessels and ASME Nuclear Code Case Interpretations
- k. ASME Boiler and Pressure Vessel Code, Section VIII, Unfired Pressure Vessels
- l. ASME Boiler and Pressure Vessel Code, Section IX, Welding Qualifications
- m. ASME Power Test Code
- n. Hydraulic Institute Standards
- o. Institute of Electrical and Electronic Engineers Standards

- p. National Electrical Manufacturers Association Standards
- q. National Fire Protection Association Standards
- r. Sheet Metal and Air-Conditioning Contractors National Association Standards
- s. Tubular Exchanger Manufacturers Association Standards
- t. USA Standard Code for Pressure Piping, USAS B31.1.0-1967, Section I, Power Piping
- u. USA Standard Code for Pressure Piping, USAS B31.7, Draft Edition, February, 1968, Nuclear Power Piping
- v. ASME/ANSI Code for Pressure Piping 1986
- w. American Petroleum Institute Standards

In order to facilitate the review of the system drawings, the standard symbols and abbreviations used are shown in P&ID 11405-MECH-1.