1.2.2.12.17 Hydrogen Water Chemistry System

The Hydrogen Water Chemistry System is summarized in Subsection 9.3.9.2.

1.2.2.12.18 Zinc Injection System

The Zinc Injection System is summarized in Subsection 9.3.11.1.

1.2.2.12.19 Breathing Air System

The Breathing Air System includes air compressors, dryers, purifiers and a distribution network. This network makes breathing air available in all plant areas where operations or maintenance must be performed and high radioactivity could occur in the ambient air. Special connections are provided to assure that this air is used only for breathing apparatus.

1.2.2.12.20 Sampling System (Includes PASS)

The Process Sampling System is furnished to provide process information that is required to monitor plant and equipment performance and changes to operating parameters. Representative liquid and gas samples are taken automatically and/or manually during plant operation for laboratory or online analyses.

1.2.2.12.21 Freeze Protection System

The Freeze Protection System provides insulation, steam and electrical heating for all external tanks and piping that may freeze during winter weather.

1.2.2.12.22 Iron Injection System

The Iron Injection System consists of an electrolytic iron ion solution generator and means to inject the iron solution into the feedwater system in controlled amounts.

1.2.2.12.23 Alternate Feedwater Injection System

The Alternate Feedwater Injection (AFI) System is summarized in Subsection 9.5.14.

1.2.2.13 Station Electrical Systems

1.2.2.13.1 Electrical Power Distribution System

The unit Class 1E AC power system supplies power to the unit Class 1E loads. The offsite power sources converge at the system. The system includes diesel generators that serve as standby power sources, independent of any onsite or offsite source. Therefore, the system has multiple sources. Furthermore, the system is divided into three divisions, each with its own independent distribution network, diesel generator, and redundant load group. A fourth division battery for the safety logic and control system bus receives charger power from the Division II source.

1.2.2.16.10 Reactor Building

The Reactor Building includes the containment, drywell, and major portions of the nuclear steam supply system, steam tunnel, refueling area, diesel generators, essential power, non-essential power, emergency core cooling systems, HVAC and supporting systems. The secondary containment is a reinforced concrete building that forms the secondary containment boundary which surrounds the primary containment above the basemat. It permits monitoring and treating all potential radioactive leakage from the primary containment. Treatment consists of HEPA and activated charcoal filtration.

1.2.2.16.11 Turbine Building

The Turbine Building houses all equipment associated with the main turbine generator. Other auxiliary equipment is also located in this building.

1.2.2.16.12 Control Building

The Control Building includes the control room, the computer facility, the cable tunnels, some of the plant essential switchgear, some of the essential power, reactor building water system and the essential HVAC system.

1.2.2.16.13 Radwaste Building

The Radwaste Building houses all equipment associated with the collection and processing of solid and liquid radioactive waste generated by the plant.

1.2.2.16.14 Service Building

The Service Building houses the personnel facilities and portions of the non-essential HVAC System.

1.2.2.16.15 Not Used

1.2.2.16.16 Alternate Feedwater Injection (AFI) Pump House

The Alternate Feedwater Injection Pump House, which is located remotely from the Reactor Building, contains the additional equipment, such as the AFI pump, piping and valves which support the AFI function.

1.2.2.17 Yard Structures and Equipment

1.2.2.17.1 Stack

The plant stack is located on the Reactor Building and rises to an elevation of 76 meters above grade level. The stack is a steel shell construction supported by an external steel tubular frame work. The stack vents the Reactor Building, Turbine Building, Radwaste Building, and a small portion of the Control and Service buildings.

1.2.2.17.2 Oil Storage and Transfer System

The major components of this system are the fuel-oil storage tanks, pumps, and day tanks. Each diesel generator has its own individual supply components. Each storage tank is designed to supply the diesel needs during the post-LOCA period, and each day tank has capacity for 8 hours of diesel generator operation at maximum LOCA load demand. Each fuel oil pump is controlled automatically by day-tank level and feeds its

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