

5.0 CONTAINMENT

5.1 SUMMARY DESCRIPTION

5.1.1 General

The containment systems provide a multibarrier, pressure suppression containment employing containment-in-depth principles in the design. The fuel, fuel cladding, and Reactor Coolant System form barriers to the release of fission products and are described in other sections of the report. Herein is described a containment system which is composed of a primary containment and a secondary containment.

5.1.2 Primary Containment

The primary containment (as described in Section 5.2.3) consists of a drywell, corresponding steel penetrations, a pressure suppression chamber and vent system, a hardened containment venting system (Units 1 and 2), a hardened wetwell vent (Unit 3), isolation valves, containment cooling systems, pressure differential equipment, instrumentation and other service equipment.

5.1.3 Secondary Containment

The secondary containment consists of the entire Reactor Building (as described in Section 5.3). Low-leakage dampers and valves are used to isolate the secondary containment, and the Standby Gas Treatment System is used to maintain the secondary containment at a negative pressure and provide for a controlled, filtered, elevated release of the secondary containment atmosphere under abnormal conditions.