

6. ENGINEERED SAFETY FEATURES

6.1 INTRODUCTION

Engineered Safety Feature (ESF) Systems are no longer required to support permanent plant shutdown or defueled operations. The operational information has been removed from the UFSAR (DSAR) to indicate that the systems perform no licensing basis or design basis function. Although the systems do not support operation, some systems may still contain fluids, gases or other hazards such as energized circuits, compressed air, radioactive material, etc. Equipment may not have been physically removed from the plant. See P&IDs, One Line Diagrams and General Arrangement Drawings for current plant configuration.

<u>STRUCTURES/SYSTEMS/COMPONENTS</u>	<u>STATUS</u>
Containment Building	Partially Removed from Service
Habitability	Partially Removed from Service
Containment Spray	Removed from Service
Emergency Operation Containment Ventilation	Removed from Service
Containment Isolation	Removed from Service
Safety Injection	Removed from Service
ESF Filter	Removed from Service
Auxiliary Feedwater	Removed from Service
Containment Dome Circulation	Removed from Service
Hydrogen Monitoring System	Removed from Service
Hydrogen Gas System	Removed from Service
Toxic Gas Isolation	Removed from Service

6.2 CONTAINMENT BUILDING SYSTEMS

In the permanently defueled condition, the Containment Building no longer provides an Engineered Safety Feature function. The containment building's remaining functions are passive.

- 1) The Updated Fire Hazards Analysis (UFHA) credits the existing structure to retain the residual radioactive material within the reactor-coolant-associated piping systems during a fire event.
- 2) The containment structure remains a Seismic Category 1 structure and will not interact with other Seismic Category 1 structures, equipment, or systems, e.g. Fuel Handling Building. A description of the containment and the design criteria relating to static loads, and seismic loads are provided or referenced in Chapter 3.

6.3 HABITABILITY SYSTEMS

In the permanently defueled condition, the Habitability Systems no longer provide an Engineered Safety Feature function. Many of the Habitability System functions are still available and the operational information is included in the UFSAR (DSAR). Specifically, the lighting systems are discussed in Chapter 9, the ventilation and air conditioning equipment is discussed in Chapter 9, and elevation and plan drawings showing building dimensions and locations are listed in Chapter 1.

The Control Room/Command Center isolation automatic response to emergency conditions is not required to support permanent plant shutdown or defueled operations. The Chapter 15 Safety Analyses do not take credit for protection of the operators. However, it can be operated manually.

6.3.1 MANUAL OPERATION

The Habitability Systems for the Control Room/Command Center are located in the Control Building. The Control Building Chillers are installed on the Control Building Roof at 85 ft elevation and Unit-2 Intake Structure Roof 40 ft elevation.