e. Charcoal adsorbers shall be installed in the ventilation system exhaust from the spent fuel storage pit area and shall be operable.

3.11.2 Radiation levels in the spent fuel storage area shall be monitored continuously.

3.11.3 A load in excess of one fuel assembly and its handling tool shall never be stationed or permitted to pass over storage racks containing spent fuel.

3.11.4 The spent fuel pool temperature shall be limited to 150°F.

3.11.5 The restriction of 3.11.3 above shall not apply to the movement of cannisters containing consolidated fuel rods if the spent fuel rack beneath the transported cannister contain only spent fuel that has decayed at least 60 days since reactor shutdown.

Basis:

Charcoal adsorbers will reduce significantly the consequences of a refueling accident which considers the clad failure of a single irradiated fuel assembly. Therefore, charcoal adsorbers should be employed whenever irradiated fuel is being handled. This requires that the ventilation system should be operating and drawing air through the adsorbers.

The desired air flow path, when handling irradiated fuel, is from the outside of the building into the operating floor area, toward the spent fuel storage pit, into the area exhaust ducts, through the adsorbers, and out through the ventilation system exhaust to the facility vent. Operation of a

The spent fuel pool temperature is limited to 150°F because if the spent fuel pool cooling system is not at that temperature, sufficient time (approximately 7 hours) is available to provide backup cooling, assuming the maximum anticipated heat load (full core discharge & previously stored fuel), until a temperature of 180°F is reached, the temperature at which the structural integrity of the pool was analyzed and found acceptable.

The requirement of 3.11.5 insures that should a handling accident occur during the movement of a consolidated fuel cannister (as described in 5.4) the dose at the exclusion area boundary would satisfy the requirements of 10CFR100.

References

(1) FSAR - Section 9.3-1

(2) ANS-5.1 (N 18.6), October 1973