

## LIMITING CONDITION FOR OPERATION

### 3.4.4 EMERGENCY VENTILATION SYSTEM

#### Applicability:

Applies to the operating status of the emergency ventilation system.

#### Objective:

To assure the capability of the emergency ventilation system to minimize the release of radioactivity to the environment in the event of an incident within the primary containment or reactor building.

#### Specification:

- a. Except as specified in Specification 3.4.4e below, both circuits of the emergency ventilation system shall be operable at all times when secondary containment integrity is required.
- b. The results of the in-place cold DOP and halogenated hydrocarbon tests at design flows on HEPA filters and charcoal adsorber banks shall show  $\geq 99\%$  DOP removal and  $\geq 99\%$  halogenated hydrocarbon removal when tested in accordance with ANSI N.510-1980.

## SURVEILLANCE REQUIREMENT

### 4.4.4 EMERGENCY VENTILATION SYSTEM

#### Applicability:

Applies to the testing of the emergency ventilation system.

#### Objective:

To assure the operability of the emergency ventilation system.

#### Specification:

Emergency ventilation system surveillance shall be performed as indicated below:

- a. At least once per operating cycle, not to exceed 24 months, the following conditions shall be demonstrated:
  - (1) Pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 6 inches of water at the system rated flow rate ( $\pm 10\%$ ).
  - (2) Operability of inlet heater at rated power when tested in accordance with ANSI N.510-1980.

## LIMITING CONDITION FOR OPERATION

### 3.4.5 CONTROL ROOM AIR TREATMENT SYSTEM

#### Applicability:

Applies to the operating status of the control room air treatment system.

#### Objective:

To assure the capability of the control room air treatment system to minimize the amount of radioactivity or other gases entering the control room in the event of an incident.

#### Specification:

- a. Except as specified in Specification 3.4.5e below, the control room air treatment system shall be operable during refueling and power operating conditions and also whenever irradiated fuel or the irradiated fuel cask is being handled in the reactor building.
- b. The results of the in-place cold DOP and halogenated hydrocarbon test design flows on HEPA filters and charcoal adsorber banks shall show  $\geq 99\%$  DOP removal and  $\geq 99\%$  halogenated hydrocarbon removal when tested in accordance with ANSI N.510-1980.

## SURVEILLANCE REQUIREMENT

### 4.4.5 CONTROL ROOM AIR TREATMENT SYSTEM

#### Applicability:

Applies to the testing of the control room air treatment system.

#### Objective:

To assure the operability of the control room air treatment system.

#### Specification:

- a. At least once per operating cycle, or once every 24 months, whichever occurs first, the pressure drop across the combined HEPA filters and charcoal adsorber banks shall be demonstrated to be less than 1.5 inches of water at system design flow rate ( $\pm 10\%$ ).
- b. The tests and sample analysis of Specification 3.4.5b, c and d shall be performed at least once per operating cycle or once every 24 months, or after 720 hours of system operation, whichever occurs first or following significant painting, fire or chemical release in any ventilation zone communicating with the system.

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- c. One diesel-generator power system may be inoperable provided two 115 kv external lines are energized. If a diesel-generator power system becomes inoperable, it shall be returned to an operable condition within 14 days. In addition, if a diesel-generator power system becomes inoperable coincident with a 115 kv line de-energized, that diesel-generator power system shall be returned to an operable condition within 24 hours.
- d. If a reserve power transformer becomes inoperable, it shall be returned to service within seven days.
- e. For all reactor operating conditions except startup and cold shutdown, the following limiting conditions shall be in effect
  - (1) One operable diesel-generator power system and one energized 115 kv external line shall be available. If this condition is not met, normal orderly shutdown will be initiated within one hour and the reactor will be in the cold shutdown condition within ten hours.

**SURVEILLANCE REQUIREMENT**

- c. Weekly – determine the cell voltage and specific gravity of the pilot cells of each battery.
- d. Surveillance for startup with an inoperable diesel-generator – prior to startup the operable diesel-generator shall be tested for automatic startup and pickup of the load required for a loss-of-coolant accident.
- e. Surveillance for operation with an inoperable diesel-generator – If a diesel-generator becomes inoperable from any cause other than an inoperable support system or preplanned maintenance or testing, within 8 hours, either determine that the cause of the diesel-generator being inoperable does not impact the operability of the operable diesel-generator or demonstrate operability by testing the operable diesel-generator. Operability by testing will be demonstrated by achieving steady state voltage and frequency.