

# CONTROLLED BY USER


## REACTOR COOLANT SYSTEM

### 3/4.4.5 REACTOR COOLANT SYSTEM LEAKAGE

#### LEAKAGE DETECTION SYSTEMS

#### LIMITING CONDITION FOR OPERATION

3.4.5.1 The following Reactor Coolant System leakage detection systems shall be OPERABLE:

- 
- a. ~~A containment atmosphere particulate radioactivity monitoring system,~~
  - b. ~~The containment sump level and flow monitoring system, and~~
  - c. ~~The containment atmosphere gaseous radioactivity monitoring system.~~

APPLICABILITY: MODES 1, 2, 3, and 4.

#### ACTION:

~~With only two of the above required leakage detection systems OPERABLE, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours when the required gaseous and/or particulate radioactivity monitoring system is inoperable; otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~

#### SURVEILLANCE REQUIREMENTS

4.4.5.1 The leakage detection systems shall be demonstrated OPERABLE by:

- a. Containment atmosphere gaseous and particulate monitoring system-performance of CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST at the frequencies specified in Table 4.3-3,
- b. Containment sump level and flow monitoring system-performance of CHANNEL CALIBRATION at least once per 18 months.

8811210159 881109  
PDR ADOCK 05000528  
P PDC

PALO VERDE - UNIT 1

3/4 4-18

# CONTROLLED BY USER



# CONTROLLED BY USER

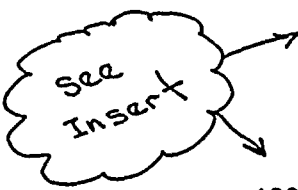
## REACTOR COOLANT SYSTEM

### 3/4.4.5 REACTOR COOLANT SYSTEM LEAKAGE

#### LEAKAGE DETECTION SYSTEMS

#### LIMITING CONDITION FOR OPERATION

3.4.5.1 The following Reactor Coolant System leakage detection systems shall be OPERABLE:

- 
- a. ~~A containment atmosphere particulate radioactivity monitoring system,~~
  - b. ~~The containment sump level and flow monitoring system, and~~
  - c. ~~The containment atmosphere gaseous radioactivity monitoring system.~~

APPLICABILITY: MODES 1, 2, 3, and 4.

#### ACTION:

~~With only two of the above required leakage detection systems OPERABLE, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours when the required gaseous and/or particulate radioactivity monitoring system is inoperable; otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~

#### SURVEILLANCE REQUIREMENTS

4.4.5.1 The leakage detection systems shall be demonstrated OPERABLE by:

- a. Containment atmosphere gaseous and particulate monitoring system-performance of CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST at the frequencies specified in Table 4.3-3,
- b. Containment sump level and flow monitoring system-performance of CHANNEL CALIBRATION at least once per 18 months.

REACTOR COOLANT SYSTEM

3/4.4.5 REACTOR COOLANT SYSTEM LEAKAGE

LEAKAGE DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.4.5.1 The following Reactor Coolant System leakage detection systems shall be OPERABLE:

SEE  
INSERT

- a. ~~A containment atmosphere particulate radioactivity monitoring system,~~
- b. ~~The containment sump level and flow monitoring system, and~~
- c. ~~The containment atmosphere gaseous radioactivity monitoring system.~~

APPLICABILITY: MODES 1, 2, 3, and 4:

ACTION:

~~With only two of the above required leakage detection systems OPERABLE, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours when the required gaseous and/or particulate radioactivity monitoring system is inoperable; otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~

SURVEILLANCE REQUIREMENTS

4.4.5.1 The leakage detection systems shall be demonstrated OPERABLE by:

- a. Containment atmosphere gaseous and particulate monitoring system-performance of CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST at the frequencies specified in Table 4.3-3,
- b. Containment sump level and flow monitoring system-performance of CHANNEL CALIBRATION at least once per 18 months.



INSERT

3.4.5.1 The following Reactor Coolant System leakage detection system shall be OPERABLE:

- a. Either the containment atmosphere gaseous radioactivity or containment atmosphere particulate radioactivity monitoring system, and
- b. The containment sump level and flow monitoring system.

APPLICABILITY: Modes 1, 2, 3 and 4.

ACTION:

- a. With either/or both the containment atmosphere gaseous radioactivity and containment atmosphere particulate radioactivity monitors INOPERABLE, operation may continue for up to 30 days provided the containment sump level and flow monitoring system is OPERABLE and gaseous and/or particulate grab samples of the containment atmosphere are obtained at least once per 12 hours and analyzed within the subsequent 3 hours; otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With the containment sump level and flow monitoring system INOPERABLE, operation may continue for up to 30 days provided the containment atmosphere gaseous radioactivity monitoring and the containment atmosphere particulate radioactivity monitoring systems are OPERABLE; otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

