

REACTOR COOLANT SYSTEM

3/4.4.3 REACTOR COOLANT SYSTEM LEAKAGE

LEAKAGE DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.4.3.1 At least the following reactor coolant system leakage detection systems shall be OPERABLE:

- a. Two drywell floor drain sump level channels, and
- b. One primary containment atmosphere gaseous radioactivity monitoring system channel ~~and~~ one containment atmosphere particulate radioactivity monitoring system channel aligned to the drywell.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.

ACTION:

- a. With one or both channels of the drywell floor drain sump level monitoring system inoperable, operation may continue for up to 30 days provided the drywell floor drain sump flow rate is monitored and determined by alternate means at least once per 12 hours. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With both channels of the gaseous radioactivity monitoring system inoperable *and* ~~X~~ with both channels of the particulate radioactivity monitoring system inoperable, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per *12* ~~36~~ hours. If at least one channel of the affected monitoring system cannot be returned to OPERABLE status and aligned to the drywell within 30 days, or the grab samples are not obtained and analyzed as required, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

Insert A →

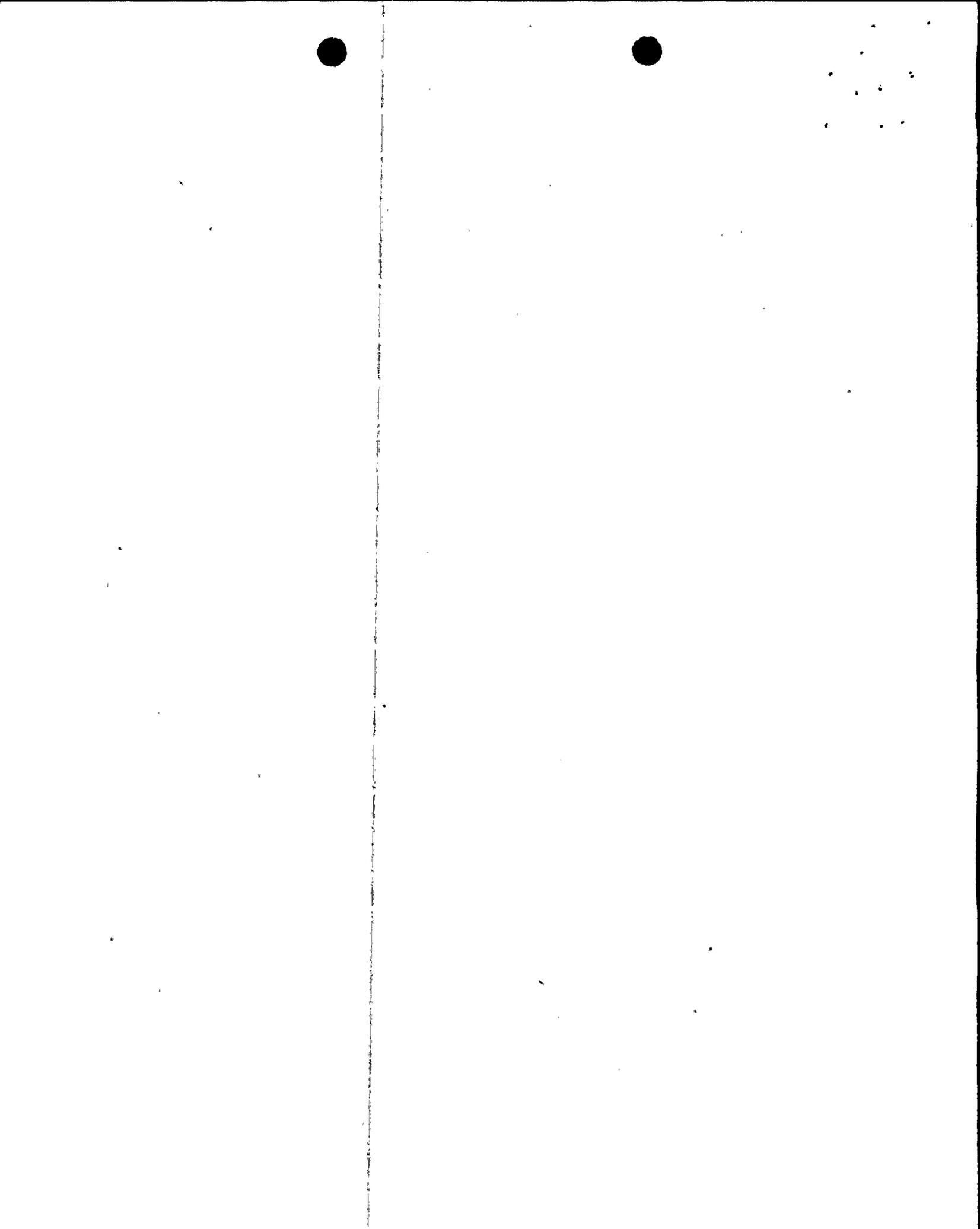
SURVEILLANCE REQUIREMENTS

4.4.3.1 The reactor coolant system leakage detection systems shall be demonstrated OPERABLE by:

- a. Primary containment atmosphere particulate and gaseous monitoring systems-performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.
- b. Drywell floor drain sump level monitoring system-performance of a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.

INSERT A

- c. With all channels (both channels of the drywell floor drain sump level monitoring system, both channels of the gaseous radioactivity monitoring system and both channels of the particulate radioactivity monitoring system) of the reactor coolant system leakage detection systems inoperable be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.



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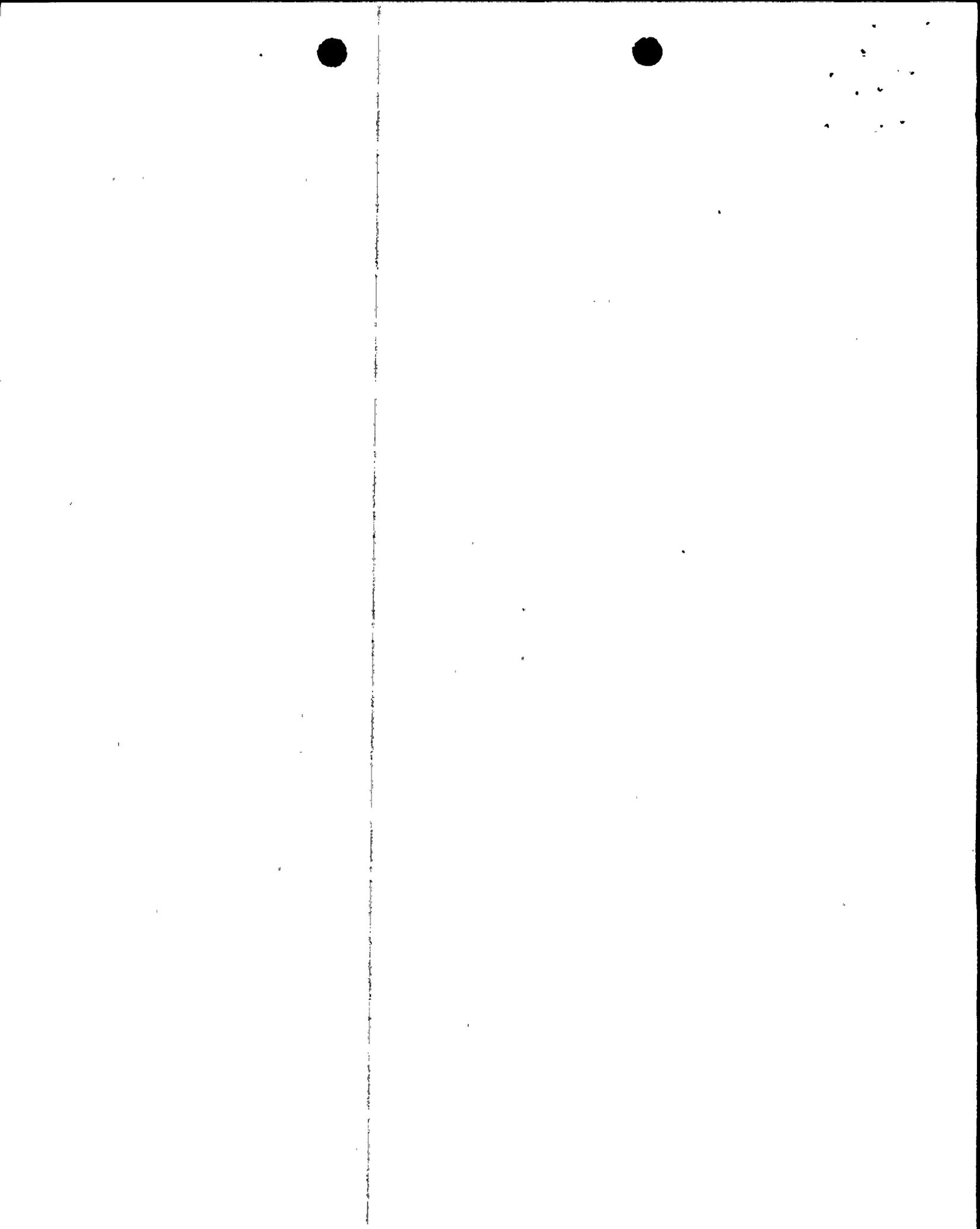
- a. With one or both channels of the drywell floor drain sump level monitoring system inoperable, operation may continue for up to 30 days provided the drywell floor drain sump flow rate is monitored and determined by alternate means at least once per 12 hours. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With both channels of the gaseous radioactivity monitoring system inoperable and ~~or~~ with both channels of the particulate radioactivity monitoring system inoperable, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 12 ~~24~~ hours. If at least one channel of the affected monitoring system cannot be returned to OPERABLE status and aligned to the drywell within 30 days, or the grab samples are not obtained and analyzed as required, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

Insert A →

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- b. Drywell floor drain sump level monitoring system-performance of a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.



INSERT A

- c. With all channels (both channels of the drywell floor drain sump level monitoring system, both channels of the gaseous radioactivity monitoring system and both channels of the particulate radioactivity monitoring system) of the reactor coolant system leakage detection systems inoperable be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

