

CONTAINMENT SYSTEMS

DRYWELL AIR LOCKS

LIMITING CONDITION FOR OPERATION

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3.6.2.3 The drywell air lock shall be OPERABLE with:

- a. Both doors closed except that, when the air lock is being used for normal transit entry and exit through the drywell, at least one air lock door shall be closed, and
- b. An overall air lock leakage rate of less than or equal to 11.85 scf per hour at 3.0 psid, and
- c. The inflatable seal system air flask pressure  $\geq$  75 psig.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2\*, and 3.

ACTION:

Insert "A"

- a. With one drywell air lock door inoperable, ~~maintain at least the OPERABLE air lock door closed and either restore the inoperable air lock door to OPERABLE status within 24 hours or lock the OPERABLE air lock door closed. Operation may then continue provided that the OPERABLE air lock door is verified to be locked closed at least once per 31 days. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.~~
- b. With the drywell air lock inoperable, except as a result of an inoperable air lock door, maintain at least one air lock door closed; restore the inoperable air lock to OPERABLE status within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With one inoperable drywell air lock door inflatable seal system air flask pressure instrumentation channel, restore the inoperable channel to OPERABLE status within 7 days or verify air flask pressure to be  $\geq$  75 psig at least once per 12 hours.

\*See Special Test Exception 3.10.1.

\*\*The provisions of Specification 3.0.4 are not applicable.

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SDC

RIVER BEND - UNIT 1

3/4 E-20

Amendment No. 47

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## CONTAINMENT SYSTEMS

### BASES

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#### 3/4.6.2.3 DRYWELL AIR LOCKS

The limitations on closure for the drywell air locks are required to meet the restrictions on DRYWELL INTEGRITY and the drywell leakage rate given in Specifications 3.6.2.1 and 3.6.2.2. The specification makes allowances for the fact that there may be long periods of time when the air locks will be in a closed and secured position during reactor operation. Only one closed door in the air lock is required to maintain the integrity of the drywell. ← INSERT 'B'

#### 3/4.6.2.4 DRYWELL STRUCTURAL INTEGRITY

This limitation ensures that the structural integrity of the drywell will be maintained comparable to the original design specification for the life of the unit. A visual inspection in conjunction with Type A leakage tests is sufficient to demonstrate this capability.

#### 3/4.6.2.5 DRYWELL INTERNAL PRESSURE

The limitations on drywell-to-containment differential pressure ensure that, during LOCA conditions, the drywell peak pressure of 19.2 psid does not exceed the design pressure of 25.0 psid and the containment peak pressure of 7.6 psig does not exceed the design pressure of 15.0 psig. The maximum external drywell pressure differential is limited to 0.3 psid, well below the 0.58 psid at which suppression pool water will be forced over the wier wall and into the drywell. The limit of 1.2 psid for initial positive drywell-to-containment differential pressure will limit the drywell pressure to 19.2 psid which is less than the design pressure and is consistent with the safety analysis.

#### 3/4.6.2.6 DRYWELL AVERAGE AIR TEMPERATURE

The limitation on drywell average air temperature ensures that peak drywell temperature does not exceed the design temperature of 330 °F during LOCA conditions and is consistent with the safety analysis.

#### 3/4.6.2.7 DRYWELL VENT AND PURGE

The 24-in. drywell purge supply and exhaust isolation valves are required to be sealed closed during plant operation, since these valves have not been demonstrated capable of closing during a LOCA or steam line break accident. To provide assurance that the 24-inch valves cannot be opened inadvertently, they are sealed closed in accordance with Standard Review Plan Section 6.2.4 by methods that include mechanical devices to seal or lock the valve closed or prevent power from being supplied to the valve operator.