

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.6.1.3.10 Remove and test the explosive squib from each shear isolation valve of the TIP System.</p>	<p>24 months on a STAGGERED TEST BASIS</p>
<p>SR 3.6.1.3.11 -----NOTES----- Only required to be met in MODES 1, 2, and 3. ----- Verify the combined leakage rate for all secondary containment bypass leakage paths is <math>\leq 25.43</math> scfh when pressurized to <math>\geq P_a</math>.</p>	<p>In accordance with the Primary Containment Leakage Rate Testing Program.</p>
<p>SR 3.6.1.3.12 -----NOTES----- Only required to be met in MODES 1, 2, and 3. ----- Verify leakage rate through each MSIV is <math>\leq 100</math> scfh and <math>\leq 300</math> scfh for the combined maximum pathway leakage including the leakage from the MS Line Drains, when the MSIVs are tested at <math>\geq 22.5</math> psig or <math>P_a</math> and the MS Line Drains are tested at <math>P_a</math>.</p>	<p>In accordance with the Primary Containment Leakage Rate Testing Program.</p>

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*HPCI drain lines, and RCIC drain lines*

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SURVEILLANCE  
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SR 3.6.1.3.10 (continued)

design. The explosive squib is removed and tested to provide assurance that the valves will actuate when required. The replacement charge for the explosive squib shall be from the same manufactured batch as the one fired or from another batch that has been certified by having one of the batch successfully fired. The Frequency of 24 months on a STAGGERED TEST BASIS is considered adequate given the administrative controls on replacement charges and the frequent checks of circuit continuity (SR 3.6.1.3.4).

SR 3.6.1.3.11

This SR ensures that the leakage rate of secondary containment bypass leakage paths is less than the specified leakage rate. This provides assurance that the assumptions in the radiological evaluations of Reference 4 are met. The potential secondary containment leakage pathways and Frequency are defined by the Primary Containment Leakage Rate Testing Program. This SR simply imposes additional acceptance criteria. A note is added to this SR which states that these valves are only required to meet this leakage limit in MODES 1, 2, and 3. In the other MODES, the Reactor Coolant System is not pressurized and specific primary containment leakage limits are not required.

SR 3.6.1.3.12

The analyses in References 1 and 4 are based on leakage that is less than the specified leakage rate. Leakage through each MSIV must be  $\leq 100$  scfh for anyone MSIV or  $\leq 300$  scfh for total maximum pathway leakage through the MSIVs combined with the Main Steam Line Drains which shall be verified  $\leq 1.2$  scfh. The MSIVs can be tested at either  $\geq P_i$  (22.5 psig) or  $P_a$  (45 psig). Main Steam Line Drains are tested at  $P_a$  (45 psig). A note is added to this SR which states that these valves are only required to meet this leakage limit in MODES 1, 2, and 3. In the other conditions, the Reactor Coolant System is not pressurized and specific primary containment leakage limits are not required. The Frequency is required by the Primary Containment Leakage Rate Testing Program. If leakage from the MSIVs requires internal work on any MSIV, the leakage will be reduced for the affected MSIV to  $\leq 11.5$  scfh.

including

HPCI and RCIC

(continued)



100-10000

100-10000  
100-10000

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.6.1.3.11 -----NOTES----- Only required to be met in MODES 1, 2, and 3. -----</p> <p>Verify the combined leakage rate for all secondary containment bypass leakage paths is <math>\leq</math> 25.43 scfh when pressurized to <math>\geq P_a</math>.</p>	<p>In accordance with the Primary Containment Leakage Rate Testing Program.</p>
<p>SR 3.6.1.3.12 -----NOTES----- Only required to be met in MODES 1, 2, and 3. -----</p> <p>Verify leakage rate through each MSIV is <math>\leq</math> 100 scfh and <math>\leq</math> 300 scfh for the combined maximum pathway leakage including the leakage from the MS Line Drains when the MSIVs are tested at <math>\geq</math> 22.5 psig or <math>P_a</math> and the MS Line Drains are tested at <math>P_a</math>.</p>	<p>In accordance with the Primary Containment Leakage Rate Testing Program.</p>

(continued)

*HPCI drain lines, and RCEC drain lines*



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BASES

SURVEILLANCE  
REQUIREMENTS  
(continued)

SR 3.6.1.3.10

The TIP shear isolation valves are actuated by explosive charges. An in place functional test is not possible with this design. The explosive squib is removed and tested to provide assurance that the valves will actuate when required. The replacement charge for the explosive squib shall be from the same manufactured batch as the one fired or from another batch that has been certified by having one of the batch successfully fired. The Frequency of 24 months on a STAGGERED TEST BASIS is considered adequate given the administrative controls on replacement charges and the frequent checks of circuit continuity (SR 3.6.1.3.4).

SR 3.6.1.3.11

This SR ensures that the leakage rate of secondary containment bypass leakage paths is less than the specified leakage rate. This provides assurance that the assumptions in the radiological evaluations of Reference 4 are met. The potential secondary containment leakage pathways and Frequency are defined by the Primary Containment Leakage Rate Testing Program. This SR simply imposes additional acceptance criteria. A note is added to this SR which states that these valves are only required to meet this leakage limit in MODES 1, 2, and 3. In the other MODES, the Reactor Coolant System is not pressurized and specific primary containment leakage limits are not required.

SR 3.6.1.3.12

The analyses in References 1 and 4 are based on leakage that is less than the specified leakage rate. Leakage through each MSIV must be  $\leq 100$  scfh for anyone MSIV or  $\leq 300$  scfh for total maximum pathway leakage through the MSIVs ~~combined with the Main Steam Line Drains, which shall be verified  $\leq 1.2$  scfh.~~ The MSIVs can be tested at either  $\geq P_1$  (22.5 psig) or  $P_a$  (45 psig). Main Steam Line Drains are tested at  $P_a$  (45 psig). A note is added to this SR which states that these valves are only required to meet this leakage limit in MODES 1, 2, and 3. In the other conditions, the Reactor Coolant System is not pressurized and specific primary containment leakage limits are not required. The Frequency is required by the Primary

including

JHP, and BWC

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