ATTACHMENT 1

Consumers Power Company Palisades Plant Docket 50-255

TECHNICAL SPECIFICATIONS CHANGE REQUEST LOCAL LEAK RATE TESTING PERSONNEL AND EMERGENCY ESCAPE AIRLOCKS

PROPOSED CHANGED PAGES

March 25, 1991

3 PAGES

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4.5.2 Local Leak Detection Tests

a. <u>Test</u>

- (1) Local leak rate tests shall be performed at a pressure of not less than 55 psig.
- (2) Local leak rate tests for checking air lock door seals within 72 hours of each door opening shall be performed at a pressure of not less than 10 psig.
 - (a) Testing is not required following opening of the outer door of either the Personnel Airlock or the Emergency Airlock to remove the inner door strongbacks.
 - (b) Testing is not required following verification of an acceptable seal contact check.
- (3) Acceptable methods of testing are halogen gas detection, soap bubble, pressure decay, or equivalent.
- (4) The local leak rate shall be measured for each of the following components:
 - (a) Containment penetrations that employ resilient seal gaskets, sealant compounds, or bellows.
 - (b) Air lock and equipment door seals.
 - (c) Fuel transfer tube.
 - (d) Isolation valves on the testable fluid systems' lines penetrating the containment.
 - (e) Other containment components which require leak repair in order to meet the acceptance criterion for any integrated leak rate test.
- b. <u>Acceptance Criteria</u>
 - (1) The total leakage from all penetrations and isolation valves shall not exceed 0.60 L.
 - (2) The leakage for an air lock door seal test shall not exceed 0.023 L_a.
 - (3) An acceptable seal contact check consists of grease bead pattern with a minimum width of one-eighth inch run continuously around the length of the seals.
- c. <u>Corrective Action</u>
 - (1) If at any time it is determined that 0.60 L is exceeded, repairs shall be initiated immediately.

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Amendment 12, 126, 135,

TSPR9101

4.5 <u>Containment Test</u> (Cont'd)

4.5.2 Local Leak Detection Test (Cont'd)

- b. <u>Acceptance Criteria</u>
 - (1) The total leakage from all penetrations and isolation valves shall not exceed 0.60 L.
 - (2) The leakage for an air lock door seal test shall not exceed 0.023 L_a.
 - (3) An acceptable seal contact check consists of a grease bead pattern running continuously around the length of the seals.
- c. <u>Corrective Action</u>
 - (1) If at any time it is determined that 0.60 L is exceeded, repairs shall be initiated immediately.

If repairs are not completed and conformance to the acceptance criterion of 4.5.2.b(1) is not demonstrated with 48 hours, the Plant shall be placed in at least hot shutdown within the next 6 hours and in at least cold shutdown within the following 30 hours.

- (2) If at any time it is determined that total containment leakage exceeds L, within one hour action shall be initiated to bring the Plant to hot shutdown within the next six (6) hours and cold shutdown within the following thirty (30) hours.
- (3) If air lock door seal leakage is greater than 0.023 L_a, repairs shall be initiated immediately to restore the door to less than specification 4.5.2.b(2). In the event repairs cannot be completed within 7 days, the Plant shall be brought to a hot shutdown condition within the next six (6) hours and cold shutdown within the following thirty (30) hours.

If air lock door seal leakage results in one (1) door causing total containment leakage to exceed $0.60L^{\circ}$, the door shall be declared inoperable and the remaining operable door shall be immediately locked closed and tested within four (4) hours. As long as the remaining door is found to be operable, the provisions of 4.5.2.c(2) do not apply. Repairs shall be initiated immediately to establish conformance with specification 4.5.2.b(1). In the event conformance to this specification cannot be established within 48 hours the Plant shall be brought to a hot shutdown within the next 6 hours and cold shutdown within the following 30 hours.

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¢hangeNø/ 7 Amendment 71, 128,

4.5 <u>CONTAINMENT TESTS</u> (Cont'd)

TSPR9101

4.5 <u>CONTAINMENT TESTS</u> (Cont'd)

4.5.2 Local Leak Detection_Tests (Cont'd)

- d. <u>Test Frequency</u>
 - (1) Individual penetrations and containment isolation valves shall be leak rate tested at a frequency of at least every six months prior to the first postoperational integrated leak rate test and at a frequency of at least every refueling thereafter, not exceeding a two-year interval, except as specified in (a) and (b) below:
 - (a) The containment equipment hatch and the fuel transfer tube shall be tested at each refueling shutdown or after each time used, if that be sooner.
 - (b) A full air lock penetration test shall be performed at six-month intervals. During the period between the six-month tests when containment integrity is required, a reduced pressure test for the door seals or a full air lock penetration test shall be performed within 72 hours after either each air lock door opening or the first of a series of openings.
 - (2) Each three months the isolation valves must be stroked to the position required to fulfill their safety function unless it is established that such operation is not practical during plant operation. The latter valves shall be full-stroked during each cold shutdown.

4.5.3 Recirculation Heat Removal Systems

a. <u>Test</u>

- (1) The portion of the shutdown cooling system that is outside the containment shall be tested either by use in normal operation or hydrostatically tested at 255 psig at the interval specified in 6.15.
- (2) Piping from valves CV-3029 and CV-3030 to the discharge of the safety injection pumps and containment spray pumps shall be hydrostatically tested at no less than 100 psig at the interval specified in 6.15.

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Amendment No. 71, 120,

TSPR9101

ATTACHMENT 2

Consumers Power Company Palisades Plant Docket 50-255

TECHNICAL SPECIFICATIONS CHANGE REQUEST LOCAL LEAK RATE TESTING PERSONNEL AND EMERGENCY ESCAPE AIRLOCKS

EXISTING PAGES WITH PROPOSED CHANGES MARKED

March 25, 1991

<i>ي</i>	<u> </u>	A FUL EMER TO RI	L AIR GENC EMOVE	LOCK TEST OF EITHER THE PERSONNEL AIRLOCK OR THE SERVE AIRLOCK IS NOT REQUIRED FOLLOW DOOR OPENINGS STRONG DACKS OR TO PERFORM A SEAL CONTACT CHECK	
1 3	b.	A SEAL CONTACT CHECK SHALL BE PERFORMED ON THE EMERGENCY ESCAPE AIRLOCK DOORS IN LIEU OF A REDUCED PRESSURE BETWEEN THE SEALS TEST FOLLOWING DOOR OPENINGS FOR STRONG BACK REMOVAL. FURTHER TESTING OF THE EMERGENCY ESCAPE AIRLOCK IS NOT REQUIRED FOLLOWING NERIFICATION OF AN ACCEPTABLE SEAL CONTACT CHECK.			
	4.5.2	Local Leak Detection Tests			
		a.	<u>Test</u>		
			(1)	Local leak rate tests shall be performed at a pressure of not less than 55 psig.	
			(2)	Local leak rate tests for checking air lock door seals within 72 hours of each door opening shall be performed at a pressure of not less than 10 psig.	
·			(3)	Acceptable methods of testing are halogen gas detection, soap bubble, pressure decay, or equivalent.	
			(4)	The local leak rate shall be measured for each of the following components:	
				(a) Containment penetrations that employ resilient seal gaskets, sealant compounds, or bellows.	
				(b) Air lock and equipment door seals.	
				(c) Fuel transfer tube.	
				(d) Isolation values on the testable fluid systems' lines penetrating the containment.	
	- - -			(e) Other containment components which require leak repair in order to meet the acceptance criterion for any integrated leak rate test.	
		b.	Acce	ptance Criteria	
			(1)	The total leakage from all penetrations and isolation valves shall not exceed 0.60 L.	
-			<u>(</u> 2)	The leakage for an air lock door seal test shall not exceed $0.023 L_a$.	
		с.	Corr	ective_Action	
			. (1)	If at any time it is determined that 0.60 L is exceeded, repairs shall be initiated immediately.	
				4-27 Amendment 12, 126, 135 February 11, 1991	
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- (3) AN ACCEPTABLE SEAL CONTACT CHECK CONSISTS OF A GREASE BEAD PATTERN RUNNING CONTINUOUSLY AROUND THE LENGTH OF THE SEALS.