

CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. By verifying at least two suppression chamber water level indicators and at least sixteen surface water temperature indicators, at least one pair in each suppression pool sector, OPERABLE by performance of a:
1. CHANNEL CHECK at least once per 24 hours,
 2. CHANNEL FUNCTIONAL TEST at least once per 31 days, and
 3. CHANNEL CALIBRATION at least once per 18 months,
- with the water level and temperature alarm setpoint for:
1. High water level $\leq 23'9"$,
 2. Low water level $\geq 22'3"$, and
 3. High water temperature:
 - a) First setpoint, $\leq 90^{\circ}\text{F}$,
 - b) Second setpoint, $\leq 105^{\circ}\text{F}$,
 - c) Third setpoint, $\leq 110^{\circ}\text{F}$, and
 - d) Fourth setpoint, $\leq 120^{\circ}\text{F}$.

refueling outage

- d. By conducting a drywell-to-suppression chamber bypass leak test at an initial differential pressure of at least 4.3 psi and verifying that the $A\sqrt{k}$ calculated from the measured leakage is within the specified limit. The bypass leak test shall be conducted at ~~40 ± 10 month intervals during shutdown, during each 10-year service period.~~ ^(A) If any drywell-to-suppression chamber bypass leak test fails to meet the specified limit, the test schedule for subsequent tests shall be reviewed and approved by the Commission. If two consecutive tests fail to meet the specified limit, a test shall be performed at least every until two consecutive tests meet the specified limit, at which time the above test schedule may be resumed.
- e. By conducting a leakage test on the drywell-to-suppression chamber vacuum breakers at a differential pressure of at least 4.3 psi and verifying that the total leakage area $A/(k)^{1/2}$ contributed by all vacuum breakers is less than or equal to 30% of the specified limit and the leakage area for an individual set of vacuum breakers is less than or equal to 12% of the specified limit. The vacuum breaker leakage test shall be conducted during each refueling outage for which the drywell-to-suppression chamber bypass leak test in Specification 4.6.2.1.d is not conducted.

(A) at the same frequency as the 10 CFR 50 Appendix J Type A test in accordance with Specification 6.8.5, Primary Containment Leakage Rate Testing Program.

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CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

c. By verifying at least two suppression chamber water level indicators and at least sixteen surface water temperature indicators, at least one pair in each suppression pool sector, OPERABLE by performance of a:

1. CHANNEL CHECK at least once per 24 hours,
2. CHANNEL FUNCTIONAL TEST at least once per 31 days, and
3. CHANNEL CALIBRATION at least once per 18 months,

with the water level and temperature alarm setpoint for:

1. High water level $\leq 23'9"$,
2. Low water level $\geq 22'3"$, and
3. High water temperature:
 - a) First setpoint, $\leq 90^{\circ}\text{F}$,
 - b) Second setpoint, $\leq 105^{\circ}\text{F}$,
 - c) Third setpoint, $\leq 110^{\circ}\text{F}$, and
 - d) Fourth setpoint, $\leq 120^{\circ}\text{F}$.

d. By conducting a drywell-to-suppression chamber bypass leak test at an initial differential pressure of at least 4.3 psi and verifying that the AV/k calculated from the measured leakage is within the specified limit. The bypass leak test shall be conducted at ^(A) ~~40 ± 10 month intervals during shutdown, during each 10-year service period.~~ If any drywell-to-suppression chamber bypass leak test fails to meet the specified limit, the test schedule for subsequent tests shall be reviewed and approved by the Commission. If two consecutive tests fail to meet the specified limit, a test shall be performed at least every _____ until two consecutive tests meet the specified limit, at which time the above test schedule may be resumed.

e. By conducting a leakage test on the drywell-to-suppression chamber vacuum breakers at a differential pressure of at least 4.3 psi and verifying that the total leakage area $A/(k)^{1/2}$ contributed by all vacuum breakers is less than or equal to 30% of the specified limit and the leakage area for an individual set of vacuum breakers is less than or equal to 12% of the specified limit. The vacuum breaker leakage test shall be conducted during each refueling outage for which the drywell-to-suppression chamber bypass leak test in Specification 4.6.2.1.d is not conducted.

(A) at the same frequency as the 10 CFR 50 Appendix J Type A test in accordance with Specification 6.8.5. Primary Containment Leakage Rate Testing Program.

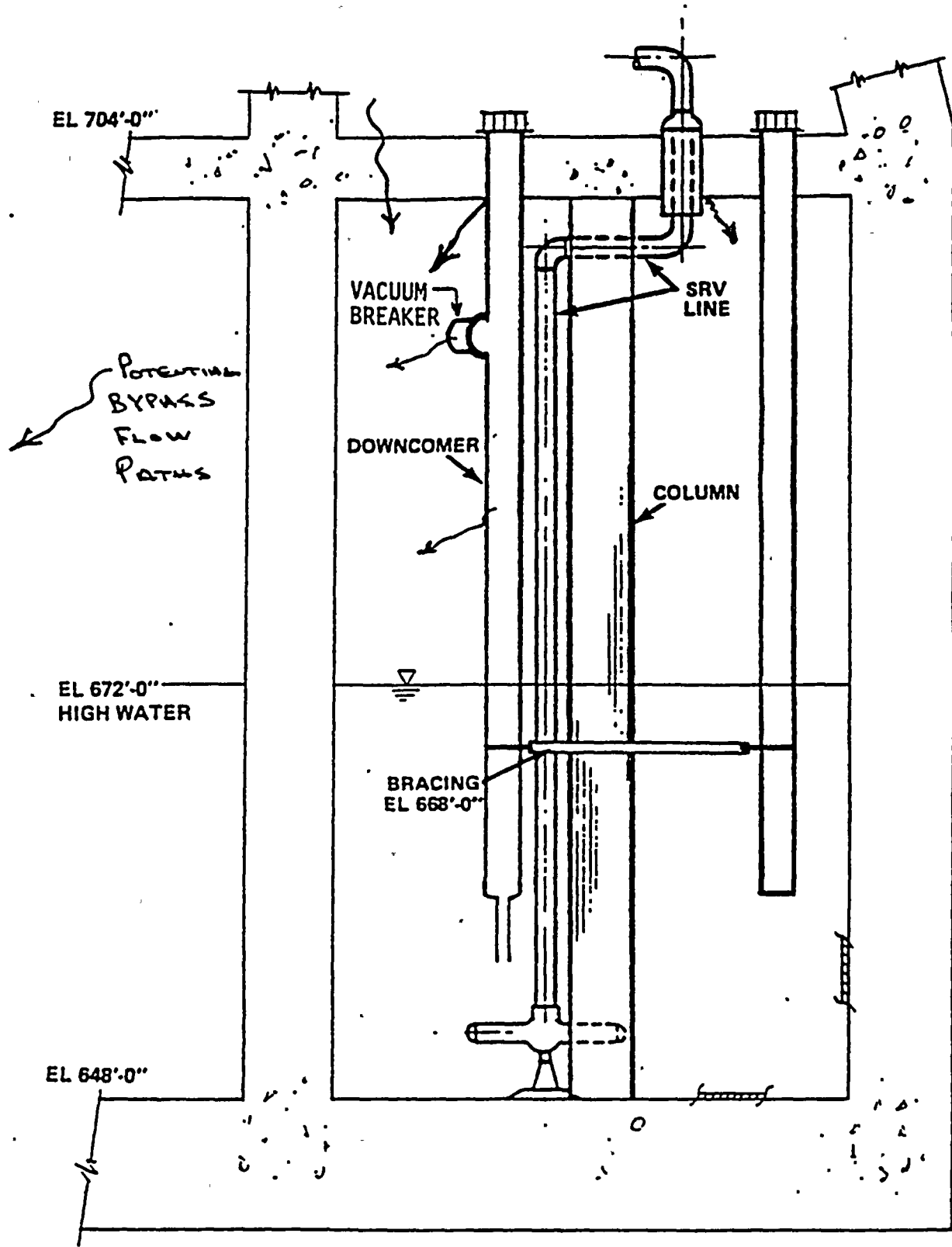


FIGURE 1: POTENTIAL BYPASS FLOW AREAS

TABLE 1

DRYWELL-TO-SUPPRESSION CHAMBER VACUUM BREAKER LEAKAGE RATE TEST RESULTS

Susquehanna SES Unit 1						
Date	A	B	C	D	E	Total
10/27/93	91 sccm	12,875 sccm	88 sccm	17,643 sccm	699 sccm	31,396 sccm
4/21/95	1,126 sccm	886 sccm	*85,726 sccm	81 sccm	9,963 sccm	97,782 sccm
Susquehanna SES Unit 2						
Date	A	B	C	D	E	Total
5/5/94	4,178 sccm	17 sccm	4,992 sccm	577 sccm	558 sccm	10,322 sccm
9/29/95	5,800 sccm	31 sccm	415 sccm	0 sccm	435 sccm	6,681 sccm

* LEAKAGE AROUND DOWNCOMER TEST PLATE GASKET
SCCM: STANDARD CUBIC CENTIMETERS PER MINUTE

SUSQUEHANNA SES UNIT 1

LOW PRESSURE BYPASS TEST DATA

COMPARISON OF MEASURED BYPASS FLOW AREA WITH TECHNICAL SPECIFICATION AND DESIGN BYPASS AREA

OUTAGE	DATE	MEASURED AREA (IN ²)	TECHNICAL SPECIFICATION LIMIT (IN ²)	DESIGN AREA (IN ²)	PERCENTAGE OF TECH SPEC AREA (NOTE 1)	PERCENTAGE OF DESIGN AREA (NOTE 2)
Pre-OP	05/24/82	0.012	0.77	7.7	1.56%	0.16%
Pre-Comm	05/06/83	0.001	0.77	7.7	0.13%	0.01%
1st Refuel	06/02/85	0.007	0.77	7.7	0.91%	0.09%
2nd Refuel	04/13/86	0.002	0.77	7.7	0.26%	0.03%
3rd Refuel	11/09/87	0.003	0.77	7.7	0.39%	0.04%
4th Refuel	05/31/89	0.037	0.77	7.7	4.81%	0.48%
5th Refuel	11/04/90	0.006	0.77	7.7	0.78%	0.08%
6th Refuel	05/06/92	0.008	0.77	7.7	1.04%	0.10%
AVERAGE		0.00950			1.23%	0.12%

NOTE1: (MEASURED FLOW AREA) / (TECHNICAL SPECIFICATION AREA) X 100

NOTE 2: (MEASURED FLOW AREA) / (DESIGN FLOW AREA) X 100

SUSQUEHANNA SES UNIT 2

LOW PRESSURE BYPASS TEST DATA

COMPARISON OF MEASURED BYPASS FLOW AREA WITH TECHNICAL SPECIFICATION AND DESIGN BYPASS AREA

OUTAGE	DATE	MEASURED AREA (IN ²)	TECHNICAL SPECIFICATION LIMIT (IN ²)	DESIGN AREA (IN ²)	PERCENTAGE OF TECH SPEC AREA (NOTE 1)	PERCENTAGE OF DESIGN AREA (NOTE 2)
Pre-OP	11/03/83	0.002	0.77	7.7	0.26%	0.03%
Pre-Comm	12/15/84	0.004	0.77	7.7	0.52%	0.05%
1st Refuel	06/11/86	0.008	0.77	7.7	1.04%	0.10%
2nd Refuel	06/12/88	0.003	0.77	7.7	0.39%	0.04%
3rd Refuel	11/05/89	0.007	0.77	7.7	0.91%	0.09%
4th Refuel	04/30/91	0.009	0.77	7.7	1.17%	0.12%
5th Refuel	11/02/92	0.004	0.77	7.7	0.52%	0.05%
AVERAGE		0.005			0.69%	0.07%

NOTE1: (MEASURED FLOW AREA) / (TECHNICAL SPECIFICATION AREA) X 100

NOTE 2: (MEASURED FLOW AREA) / (DESIGN FLOW AREA) X 100