

REPORT OF TYPE B AND C LEAK RATES

D. C. COOK PLANT

UNIT 2 - 1984

REGULATORY DOCKET FILE COPY

8410290030 841019
PDR ADCK 05000316
PDR

(The following information was obtained from the above sources.)

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1.0 SUMMARY OF RESULTS

As indicated in the accompanying ILRT report, Type A leakage test results do not indicate a failure to meet the containment overall leakage acceptance criteria. Guideline Type B&C leakages were exceeded, however, as detailed in the following.

Types B & C Leak Rate Testing (**12 THP 4030 STP.203) was performed on Unit 2 between March 12, 1984 and June 29, 1984. Table #1 shows the valves that exceeded their respective guideline leakages. Table #2 gives a brief summary of the repairs made to leaking valves. Table #3 shows a brief history of these valves as tested during previous surveillances.

While testing Zone 4 piping penetrations, several penetrations were found to be leaking. These penetrations were CPN-4, CPN-23, CPN-40, & CPN-44. CPN-4 was repaired by welding a hole in the bellows. CPN-23, CPN-40, & CPN-44 also had holes in the bellows but were not repaired per AEPSC review of the plant FSAR determining that bellows on containment penetrations are not needed to maintain the leak-tight integrity of containment. Zone 4 was tested after isolating the above penetrations.



TABLE 1

Volume Description	Valve	Guideline (sccm)	As Found (sccm)	As Left (sccm)
Upper Vent. Supply	VCR-105 & VCR-205	3600	20019	80
Air Part. Rad. Mon.	SM-1	60	623	109
Nitrogen to PRT	N-159 & N-285	45	565	40
Charging to Regen. Hx	CS-321	180	23818	744
RCDT Vent Header	DCR-203 & DCR-207	120	297	20
RCT Vent Header	N-160 & DCR-201	120	1639	258
CLV&CUV Drain Header	DCR-620 & DCR-621	120	2407	0
RHR Recirc 'E'	ICM-305	1080	5910	0
Lower Cont. Monitor	ECR-33 & ECR-35	60	2495	1907
Air Particl Rad. Mon	ECR-31 & ECR-32	120	1300	1243
Boron Injection	ICM-251	240	703	40
Boron Injection	ICM-250	240	1854	51
CPN Coils 3&4 CCW	CCW-243-72	60	3229	120
Glycol Return Expan.	R-157	60	7947	0
Post Accident Sample Sup	ECR-416	15	250	0
Post Accident Sample Sup	ECR-417	15	299	0

Volume Description	Valve	Guideline (sccm)	As Found (sccm)	As Left (sccm)
Control Air To Cont.	XCR-102&XCR-103	120	532	532
CPN Coils 2&5 CCW	CCW-243-25	60	109	109
CPN Coils 3&4 CCW	CCW-244-72	60	271	271
CPN Coils 2&5 CCW	CCR-440	60	188	188
Plant Air to Cont. check Valves	PA-342	120	3974	3974
Personnel Airlock Cover Flange	N/A	55	121	121
Zone 4 Piping Pene.	N/A	1173	19853	802

TABLE 2

During the B&C leak rate testing the following penetrations were found to have excessive leak rates and required repairs:

<u>Volume Description</u>	<u>Valve #</u>	<u>Repairs</u>
Upper Vent. Supply	VCR-105&VCR-205	VCR-105: Inspected seal & seat, found no damage VCR-205: Manufacturer replaced seal, repaired seat, replaced dowel pin
Air Part. Rad. Mon.	SM-1	Replaced Valve
Nitrogen to PRT	N-159&N-285	N-159: Lapped seat, replaced plug, spring, & gasket N-285: Replaced wedge & gasket
Charging to Regn. Hx	CS-321	Replaced disc & gasket
RCDT Vent Header	DCR-203&DCR-207	DCR-203: No repair necessary DCR-207: Replaced diaphragm
RCDT Vent Header	N-160 & DCR-201	N-160: Cleaned valve disc & seat DCR-201: No repair necessary
CLV&CUV Drain Header	DCR-620&CR-621	DCR-620: Cleaned seat DCR-621: Cleaned seat, replaced packing
RHR Recirc. 'E'	ICM-305	Lapped disc.
Lower Cont. Monitor	ECR-33 & ECR-35	ECR-33: Cleaned & lapped seat ECR-35: Machined seats & repacked valve
Air Particle Rad. Mon	ECR-31 & ECR-32	ECR-31: Lapped plug & seat, replaced gaskets ECR-32: No repairs required
Boron Injection	ICM-251	Lapped seat
Boron Injection	ICM-250	Lapped Seat
CPN Coils 3&4 CCW	CCW-243-72	Replaced valve
Glycol Return Expan.	R-157	Cleaned seat
Post Accident Sample Sup.	ECR-416	Lapped & machined seat & plug, replaced gasket

TABLE TWO (con't.)

<u>Volume Description</u>	<u>Valve #</u>	<u>Repairs</u>
Post Accident Sample Sup.	ECR-417	Lapped seat & plug, replaced gasket
Zone 4 Piping Penetrations	N/A	Welded hole in bellows of CPN-4. CPN-23, CPN-40 and CPN-44 were isolated from the containment penetration and weld channel pressurization system

[illegible]

TABLE 3

Valve	Guide-line	Mar84-Jun84		Nov82-Jan83		Mar81-May81	
		found	left	found	left	found	left
	sccm	sccm	sccm	sccm	sccm	sccm	sccm
VCR-205& VCR-205	3600	20019	80	549	549	124	124
SM-1	60	623	109	120	120	2340	2340
N-159 & N-285	45	565	40	501	501	0	0
CS-321	180	23818	744	16977	306	61	62
DCR-203& DCR-207	120	297	20	50	50	25	25
N-160 & DCR-201	120	1639	258	1552	1910	1998	0
DCR-620& DCR-621	120	2407	0	0	0	1299	0
ICM-305	1080	5910	0	5502	5502	1390	1390
ECR-33& ECR-35	60	2495	1907	421	421	1401	1401
ECR-31& ECR-32	120	1300	1243	2290	1015	3303	3303
ICM-251	240	703	40	6977	897	0	0
ICM-250	240	1854	51	0	0	40000	100
CCW-243- 72	60	3229	120	17556	3289	0	0
R-157	60	7947	0	0	0	0	0
ECR-416	15	250	0	0	0	N/A	N/A
ECR-417	15	299	0	0	0	N/A	N/A
XCR-102& XCR-103	120	532	532	419	419	399	399
CCW-243- 25	60	109	109	0	0	1010	0
CCW-244- 72	60	271	271	17054	4965	1802	251
CCR-440	60	188	188	21325	0	0	0
PA-342	120	3974	3974	N/A	N/A	N/A	N/A
Airlock Cover Flan.	55	121	121	49.6	49.6	N/A	N/A
Zone 4 Pip. Penetration	1173	19853	802	0	0	172	172

