ST-1-047-700-1, Rev. 0 Page 1 of 8 LAM/RSE:mjl

PHILADELPHIA ELECTRIC COMPANY LIMERICK GENERATING STATION SURVEILLANCE TEST

ST-1-04	17-700-1 SCRAM DISCHARGE VOLUME CO	SCRAM DISCHARGE VOLUME CONTAMINATION PIPING INSPECTION					
	req.: 18 Months -OR- Tech. Spec.: 6.8.4.a FSAR: 6.2.8.1 FSAR: 6.2.8.3	Initiating Ev	ents: 1. 2.	Reason INITIAL RUM			
Α.	All Asterisked(*) Steps Completed	SATISFACTORILY		. ,,			
	Performed By:	(Sign/Date)	All Maral	ello 9/25/84			
	Performed By:	(Sign/Date)	- 1 - 10				
	Informed Test Complete: (ACO or CO)	(Sign/Date) (Time)	John Koelle	4:00 P			
	Reviewed By: (SSVN or STA)	(Sign/Date)	o. Till	exic 9/5/84			
в.	One or More Asterisked(*) Steps Te	st Results UNS	ATISFACTOR	RY.			
	Performed By:	(Sign/Date)					
	Informed of Test Results: (CO or A	CO)(Sign/Date) (Time)					
	Shift Supervision:	(Sign/Date)					
	Corrective Action:	MRF No.:					
	Initiated By:	(Sign/Date)					
	IMMEDIATELY NOTIFY SENIOR PLANT ST	AFF MEMBER					
	Person Notified:	(Name)					
	Date/Time Notified:	(Date/Time)					
	Notified By:	(Sign)					

ADDITIONAL ACTION/TEST COMMENTS:

If any entry is made in Additional Action/Test Comments Section, person making initial entry sign here

8410160400 841012 PDR ADDCK 05000352 PDR

1.0 PURPOSE

To inspect, measure, and record any leakage from components associated with the CRD Scram Discharge Volume System while the system is pressurized. filled and vented.

#1 RBD 8059/24/84

2.0 REFERENCES

- 2.1 8031-M-47, Control Rod Drive Hydraulic Part B
- 2.2 NUREG-0737

3.0 TEST EQUIPMENT

- 3.1 Graduated cylinder(s)
- 3.2 Liter bottle(s)
- 3.3 Funnels
- 3.4 Stopwatch
- 3.5 Inspection mirror with handle

4.0 PRECAUTIONS & LIMITATIONS

- 4.1 If a procedural step cannot be completed, make a comment in the Additional Action/Test Comments section of the Data Sheet.
- 4.2 Signoff steps marked "SO" in the left-hand margin of the body of the procedure require a signoff on the Data Sheet or Procedure Cover Sheet.
- 4.3 Leakage rates of greater than 5 drops per min (.25 cc/min) shall be quantified. Put "<.25 cc/min" in the space provided on the Data Sheet Attachment A for components with leak rates of 5 drops per min.
- 4.4 Data Sheet steps marked (*) are specific Tech. Spec. requirements which will fail the test if not completed satisfactorily.

ST-1-047-700-1, Rev. 0 Page 3 of 8 T,AM/RSE:mjl

4.5 Any component exhibiting excessive amounts of leakage shall be documented in the Additional Actions/Test Comments section on the Cover Sheet and the SSVN shall be informed.

5.0 PREREQUISITES

- 5.1 Request RWP and HP assistance when needed.
- 5.2 Coordinate with the operator running GP-10 so that the test duration can be extended to allow proper inspection of SDV system components.
 - 5.3 Inspector is familiar with the SDV system layout and location.
 - 5.4 Obtain copy of the previous inspection Data Sheet
 - 5.5 The SDV System Piping is at pressure preferably during operational hydrostatic test GP-10.

6.0 PROCEDURE

IT IS THE RESPONSIBILITY OF THE PERSON OR PERSONS PERFORMING THIS TEST TO ENSURE ALL BLANKS AND DATA SHEETS ARE CORRECTLY AND COMPLETELY FILLED IN.

- 6.1 Preparation
- SO 6.1.1 Verify all prerequisites are satisfied.
 - 6.1.2 Record appropriate information for each piece of measurement and test equipment used with a PECo number and verify the equipment is within it's calibration period.
 - 6.2 Shift Permission to Test
- 50 6.2.1 Obtain Shift Supervision's (SSVN's) permission to start test.
- SO 6.2.2 Obtain Control Room Operator's permission to start test.

ST-1-047-700-1, Rev. 0 Page 4 of 8 3843070090 LAM/RSE:mjl 6.3 SDV System Contaminated Piping Inspection ACTUAL LEAK RATE MEASUREMENT METHODS WILL BE LEFT TO THE DISCRETION OF THE INSPECTOR(S) INVOLVED. THE ONLY GUIDELINE BEING THAT ALL DATA WILL BE A MEASURED QUANTITY OF FLUID OVER TIME USING A STOPWATCH. DROPS PER MINUTE CAN BE USED AS A MEASUREMENT 20 DROPS = 1CC. ALL RECORDED DATA SHALL BE IN CUBIC CENTIMETERS PER MIN. (CC/MIN) Record on Data Sheet Attachment A all components, within the boundaries of Attachment 6.3.1 B, exhibiting leakage, their leak rate and a description of the location of the leak. Pay particular attention to system components identified as having measurable leakage in the last test. From the leak rate data on Attachment A, calculate the total system leak rate and 6.3.2 document the results on the Data Sheet Section 6.3. 6.4 Test Results Evaluation Compare the leakage limit in 8.1 to the total system leakage rate. If the limit is exceeded 6.4.1 SO prepare a MRF to reduce the system leakage rate so that it is within the limit. If any component's leakage rate has increased significantly since the last inspection prepare 6.4.2 a MRF to repair the component. If any component's leakage is a major portion of the overall system leakage limit prepare a 6.4.3 MRF to its repair. 7.0 RETURN TO NORMAL 7.1 Inform SSVN and ACO the test is complete. SO

ST-1-047-700-1, Rev. 0 Page 5 of 8 LAM/RSE:mjl

8.0 ACCEPTANCE CRITERIA

8.1 The SDV system shall not exhibit a total leak rate of greater than (later).

AT TEST COMPLETION, ENSURE COVER SHEET IS CORRECTLY AND COMPLETELY FILLED IN.

SCRAM DISCHARGE VOLUME CONTAMINATED PIPING INSPECTION

DATA SHEET (1 of 2)

		INITIALS
ACTI	ON REQUIRED	
6.0	PROCEDURE	
	6.1 Preparation	DOW_
	6.1.1 All prerequisites satisfied	0.4
	6.1.2 Test Equipment	X4 V4
	INSTRUMENT MFR./MODEL SER. NO. CAL. DUE DATE STOPWATCH 53-0030 8-3-85 STOPWATCH 93-0200 8-7-85	
	6.2 Shift Permission to Test 6.2.1 SSVN permission obtained	80e 9/25/84 SAC
	6.2.2 ACO permission co	965/84/13:13 Date Time
	6.3 Scram Discharge Volume Contaminated Piping Inspection 6.3.4 SDV system total leak rate: 0.0 400 CC/MIN	Jum
	(1 cc/min = .000264 gal/min)	

SCRAM DISCHARGE VOLUME CONTAMINATED PIPING INSPECTION

					<u>E 2</u>)			
ACTION RE	QUIRED						INITIA	LS
6.4	Test Re	sults E	valuation					
	6.4.1	The tot rate is Limits	tal SDV s s within	Accepta	leakage able		N/A	(*)
7.0 RET	URN TO NO	ORMAL					1	
7.1	SSVN as	nd ACO i	nformed o	of test	complet	ion.	Nich	_
APPROPRI	ATE SPAC	ε.	THIS SEC			R SME	ET IN	
APPROPRI	AL ACTIO	E. N/TEST C	THIS SEC	TION, S	IGN COVE			**************************************
APPROPRI	AL ACTIO	N/TEST C	THIS SEC	TION, S	IGN COVE	T 15	8EING 1	
ADDITION Test Connece E0 9/2	AL ACTION OF THE PRIOR OF THE PRIOR	N/TEST C	THIS SECTOMMENTS	TION, S	THIS TEST	= 15 ED W	BEING 1	

RUN OF THIS TEST. FOR THIS REASON STEP 6.4.1 IS MAKED N/A. 33 ps:9 AT ELEU 245' Dessure 3.4-85

ACCEPTABLE LIMITS WILL BE SET BASED ON THE INITIAL "PRESSURIZED"

UPON EVALUATION OF THIS TEST THE ORIGINAL LEAKAGE NOTED IN 6.3.4 WAS FOUND TO BE FROM VALVES LOCATED OUTSIDE OF THE INSPECTION ZONE. THOSE VALVES WERE INSERT VALVES WHICH WOULD CONTAIN DEMINERALIZED WATER .

15

Saysten Made . Kham , leaved DEPHESS

LAM/RSE:mjl

3843070090

Remarks	
Corrective Action Date	
drop Per numents Leak Rate	
Omp. Mode (on/off) (onen/shut)	
Component	
Component	

