3843070090

ST-1-052-701-1, Rev. 0
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KSK/RSE:cjf

PHILADELPHIA ELECTRIC COMPANY LIMERICK GENERATING STATION SURVEILLANCE TEST

	J2-701-1 A CORE SPRE	AY LOOP CONT	AMINATED PIPI	PIPING INSPECTION				
Tech.	req.: 18 Months Spec.:6.8.4.a FSAR 6.2.8.1.b FSAR 6.2.8.3 ESULTS:		itiating Even	2. MRF No.				
A.	All Asterisked(*) Steps	s Completed	SATISFACTORIL	Y.				
	Performed By:		(Sign/Date)	Keith Kengar	9/8/84			
	Performed By:		(Sign/Date)	,				
	Informed Test Complete: Reviewed By: (SSVN or S	(ACO or CO)	(Sign/Date) (Time)	Ru. Jalikh	9-8-54			
	Reviewed By: (SSVN or S	TA)	(Sign/Date)	Ray V. Kennet	9/9/84			
в.	One or More Asterisked(*) Steps Test Results UNSATISFACTORY.							
	Performed By:		(Sign/Date)					
	Performed By: Informed of Test Resul	ts: (CO or)						
			ACO)(Sign/Date	2)	_			
	Informed of Test Resul		ACO)(Sign/Date (Time)	2)	=			
	Informed of Test Resulting Shift Supervision:		ACO)(Sign/Date) (Time) (Sign/Date)		=			
	Informed of Test Result Shift Supervision: Corrective Action:		ACO)(Sign/Date) (Sign/Date) MRF No.: (Sign/Date)		=			
	Informed of Test Result Shift Supervision: Corrective Action: Initiated By:		ACO)(Sign/Date) (Sign/Date) MRF No.: (Sign/Date)		=			
	Informed of Test Result Shift Supervision: Corrective Action: Initiated By: IMMEDIATELY NOTIFY SEN		ACO)(Sign/Date (Time) (Sign/Date) MRF No.: (Sign/Date)		=			

ADDITIONAL ACTION/TEST COMMENTS:

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

(Sign/Date)

9/8/84

1.0 PURPOSE

To inspect and measure any leakage from Core Spray System components that are directly associated with system piping that could carry contaminated water during a serious accident or transient. This procedure will be implemented while the system is at operating pressure with the pump(s) running.

2.0 REFERENCES

- 2.1 8031-M-52, Core Spray
- 2.2 NUREG 0737

3.0 TEST EQUIPMENT

- 3.1 Graduated Cylinder(s)
- 3.2 One-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 Leak Rates of greater than 5 drops per min. (.25 cc/min) shall be quantified. Put "≤ .25 cc/min" on the Data Sheet, Attachment A, in the space provided for components with leak rates less than or qual to 5 drops per min.

- Data Sheet steps marked (*) are specific Tech. Spec. 4.4 requirements which will fail the test if not completed satsifactorily.
- If any component is found to be exhibiting excessive 4.5 leakage notify SSVN immediately.

5.0 PREREQUISITES

- 5.1 Request RWP & HP assistance when required.
- 5.2 Inspector is familiar with the system layout and location.
- 5.3 Copy of the last test's Data Sheet is available for comparison.
- 5.4 Core Spray Loop must be running for Surveillance Test ST-6-052-231-1 or per operating procedure S52.9.A for the inspection.
- 5.5 Coordinate with operator running the system to allow pump run durations to be extended for the inspection.

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
- Verify all prerequisites are satisfied. SO 6.1.1
 - 6.1.2 Record appropriate information for each piece of measurement and test equipment used with a PECo number on the Data Sheet.
 - 6.2 Shift Permission to Test
- SO 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.

6.3 Core Spray Loop "A" Contaminated Piping Inspection.

THE ACTUAL LEAKAGE RATE MEASUREMENT METHODS WILL BE LEFT TO THE DISCRETION OF THE INSPECTOR(s). THE ONLY GUIDELINES BEING THAT ALL DATA WILL BE A MEASURED QUANITY OF FLUID OVER TIME USING A STOPWATCH. DROPS PER MINUTE CAN BE USED AS A MEASUREMENT WHERE 20 DROPS = 1CC. ALL RECORDED DATA SHALL BE IN CUBIC CENTIMETERS PER MINUTE.

- 6.3.1 For all In Line components, within the boundries of Attachment B, that exhibit leakage, record on the Data Sheet their leakage rate and a description of the location of the leak. Pay particular attention to system components identified as having exhibited measurable leakage during the previous inspection.
- 6.3.2 From the leakage rate data on Attachment A, calculate the total system leakage rate and document the results on the Data Sheet section 6.3
- 6.4 Test Result Evaluation
- SO 6.4.1 Compare the leakage limit in 8.1 to the total system leakage rate. If the limit is exceeded prepare a MRF to reduce the system leakage rate so that it is within the limit.
 - 6.4.2 If any component's leakage rate has increased significan' y since the last inspection prepare a MRF to repair the component.
 - 6.4.3 If any components leakage is a major portion of the overall system leakage limit prepare a MRF for its repair.

NA

- 7.0 RETURN TO NORMAL
- SO 7.1 Inform SSVN and ACO test is complete
- 8.0 ACCEPTANCE CRITERIA
 - 8.1 Loop "A" of the Core Spray System shall not exhibit a total leakage rate of greater than (Later)

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

NA

"A" CORE SPRAY LOOP CONTAMINATED PIPING INSPECTION DATA SHEET (1 of 3)

ACTI	ON RE	QUIRED				INITIALS		
6.0	PROC							
	6.1 Preparation							
		KSK						
		6.1.2	.2 Test Equipment					
	INST	RUMENT	MFR./MODEL	SER. NO.	CAL. DUE D	ATE		
	Stop	watch.	victor wyler	53-0030	8/3/85			
	6.2 Shift Permission to Test							
		Ksk_						
		6.2.2	ACO permis	GRC ACO				
						9-8-84 1° pm		

- 6.3 Core Spray System Contaiminated Piping Inspection
 - 6.3.2 "A" Core Spray Loop Total Leakage Rate: 35.75 cc/min

.009438 gal/min

(1 cc/min = .000264 gal/min)

"A" CORE SPRAY LOOP CONTAMINATED PIPING INSPECTION

			DATA SHEET	(2 of 3)	
ACTI	ON RE	QUIRED			
6.4	Test	Results	Evaluation		INITIALS
		6.4.1	The total Loop "A Leakage is within Limits.	" Core Spray Acceptable	System NA (*) Initial Test
7.0	RETUR	EN TO NOT	RMAL		
	7.1	SSVN and	ACO informed of	test completi	on KSK
IF AN	NY ENT	RY IS MA	DE IN THIS SECTION	N, SIGN COVER	SHEET IN
ADDIT	CIONAL	ACTION/	TEST COMMENTS	Lookan	1.1 41
for	this	initia	1 test perla	ind 8.1 ar	re not applicable at a obtained or future tests.
	, 1				

"A" CORE SPRAY LOOP CONTAIMINATED PIPING INSPECTION

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DATA SHEET (3 of 3)

ATTACHMENT A

Inspector: Keith Kemper

System Mode Full Flow Test Date: 9/8/84

Component No.	Component Description	Comp. Mode (on/Off (open/shut)	Leak Rate	Corrective Action Date	Remarks
HU-52-1F015A PSU-52-1F012 WHAM 52-1F020C WHAM 52-1F020 A WHAM 52-1F003A WHAM 52-F003C	Full Flow Test Value CS Press Sefety Value manual Disch Value manual Disch Value cs Disch Check cs Disch Check cyclone Sep Supply	open open open open open	2.50 cu/min 2.50 cu/min 2.25 cu/min 2 cu/min 2 cu/min 4 .25 cu/min		Lifted when it should not have a didn't proper reseat.

