ST-1-052-705-1, Rev. 0

3843070090

PHILADELPHIA ELECTRIC COMPANY LIMERICK GENERATING STATION SURVEILLANCE TEST

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9/9/84

ST-1-052-705-1

SAFEGUARD PIPING FILL SYSTEM CONTAMINATED PIPING INSPECTION

ech.	Spec.: 6.8.4.a FSAR 6.2.8.1 FSAR 6.2.8.3		2. MRF NO
EST R	ESULTS:		
Α.	All Asterisked(*) Steps Completed	SATISFACTORIL	Υ.
	Performed By:	(Sign/Date)	xxe /9/9/84
	Performed By:	(Sign/Date)	SCW 9/9/84
	Informed Test Complete: (ACO or CO)	(Sign/Date) (Time)	9KJe 9/9/89 2:30 PM
	Reviewed By: (SSVN or STA)	(Sign/Date)	Ilem a Paton 9/9/84
В.	One or More Asterisked(*) Steps Tes	st Results UN	SATISFACTORY.
	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)	

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

(Sign/Date) Il Cuma

8410160394 841012 PDR ADDCK 05000352 PDR

1.0 PURPOSE

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To inspect and measure any leakage of Safeguard Piping Fill System Components that are directly associated with system piping that could carry contaminated water during a serious accident or transient. This inspection shall be implemented while the system is operating at pressure in the test mode.

2.0 REFERENCES

- 2.1 8031-M-52, Core Spray
- 2.2 NUREG 0737
- 2.3 8031-M-51 Shts 1 & 2, RHR System
- 2.4 8031-M-55, High Pressure Coolant Injection
- 2.5 8031-M-49, Reactor Core Isolation Cooling
- 2.6 8031-M-41, Nuclear Boiler

3.0 TEST EQUIPMENT

- 3.1 Graduated Cylinder(s)
- 3.2 One-Liter Bottle(s)
- 3.3 Assorted 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. Use "<.25 cc/min" on the Data Sheet Attachment A for components with leakage rates of 5 drops per min or less.

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

5.0 PREREQUISITES

- 5.1 Request RWP & HP Assistance When required.
- 5.2 Inspector is familiar with the Safeguard Piping Fill System location and layout.
- 5.3 Safeguard piping fill pumps must be running for Surveillance Test ST-6-052-233-1 or per operating Procedure S52.1.C for the inspection.
- 5.4 Obtain a copy of the previous inspection's Data Sheet Attachment A.
- 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

- 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 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 Safeguard Piping Fill System Contaminated Piping Inspection.

ACTUAL LEAKAGE RATE MEASUREMENT METHODS WILL BE LEFT TO THE DISCRETION OF THE INSPECTOR. 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 MIN. (cc/min).

- 6.3.1 For all in line components within the boundaries of Attachment B, which exhibit leakage record on the Data Sheet Attachment A the leakage rate and a description of the location of the leak. Pay particular attention to system components identified as having exhibited measurable leakage in 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 Results 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 significantly since the last inspection prepare a MRF to repair the component.
 - 6.4.3 If any component's leakage is a major portion of the overall system leakage limit prepare a MRF for its repair.

7.0 RETURN TO NORMAL

SO 7.1 Inform SSVN and ACO inspection is complete

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8.0 ACCEPTANCE CRITERIA

8.1 The Safeguard Piping Fill System shall not exhibit a leak rate of greater than (later).

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

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SAFEGUARD PIPING FILL SYSTEM CONTAMINATED PIPING INSPECTION

DATA SHEET (1 of 2)

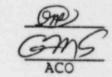
ACTI	ON	REQU:	RED
		M	B. D. School Service

INITIALS

- 6.0 PROCEDURE
 - 6.1 Preparation
 - 6.1.2 Test Equipment

INSTRUMENT	MFR./MODEL	SER. NO. CAL. DU	JE DATE
53 0 200 X	ge		
stop watch		53-0200 LT8 8/7	185
-			

- 6.2 Shift Permission to Test
 - 6.2.1 SSVN permission obtained
 - 6.2.2 ACO permission to test



9-9-84/800Am

- 6.3 Safeguard Piping Fill System Contaminated Piping Inspection.
 - 6.3.2 System Leakage Rate

4.05 cc/min

0.00107 gal/min (1 cc/min = .000 264 gal/min)

SAFEGUARD PIPING FILL SYSTEM CONTAMINATED PIPING INSPECTION

DATA SHEET (2 of 2)

ACTION REQUIRED				INITIALS
6.4 Test I	Results Evalua	ation		
6.4.1	The total : Fill System is within !	m Leakage	Rate	N/A (*)
7.0 RETURN TO 1	NORMAL			
7.1 SSVN a	and ACO information.	med of ins	pection	Re
IF ANY ENTRY IS APPROPRIATE SPACE	.E.		SIGN COVER SHE	EET IN
		-	Prerequisi	ties satisfied.
Sign of				- TITTED,

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SAFEGUARD PIPING FILL SYSTEM CONTAMINATED PIPING INSPECTION

DATA SHEET (3 of 3)

ATTACHMENT A

Inspector:_	Ken	Cenci			
System Mode	ope-a	ting	Date:_	9/9/89	

Compone No.		Component Description	(on/off) (open/shut)	Leak Rate	Corrective Action Date	Remarks
52-1065 B			open.	11 drops/min		
psv - 41-1348	safety value for B safequard piping fill line		shut	70 drops/ min = 3.5 cc/min		

