

SAMPLE SURVEILLANCE TECHNICAL SPECIFICATIONS FOR  
PWR HPSI AND LPSI SYSTEM THROTTLE VALVE STOPS

1. The correct position of each electrical and/or mechanical position stop for the following throttle valves shall be verified:
  - a. Within 4 hours following completion of each valve stroking operation or maintenance on the valve when the HPSI or LPSI System is required to be operable.
  - b. At least once per 18 months.

HPSI System

Valve Number

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

LPSI System

Valve Number

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

2. A flow balance test shall be performed during shutdown to confirm the following minimum injection flow rates following completion of HPSI or LPSI system modifications that alter system flow characteristics:

HPSI System - Single Pump

Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm  
 Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm  
 Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm  
 Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm

LPSI System - Single Pump

Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm  
 Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm  
 Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm  
 Injection Leg \_\_\_\_\_ > \_\_\_\_\_ gpm

Bases

The purpose of these surveillance requirements is to provide assurance that proper ECCS flows will be maintained in the event of a LOCA. Maintenance of proper flow resistance and pressure drop in the piping system to each injection point is necessary to: (1) prevent total pump flow from exceeding runout conditions when the system is in its minimum resistance configuration, (2) provide the proper flow split between injection points in accordance with the assumptions used in the ECCS-LOCA analyses, and (3) provide an acceptable level of total ECCS flow to all injection points equal to or above that assumed in the ECCS-LOCA analyses.

7912120 814

Docket Nos. 50-269  
50-270  
and 50-287

JUL 18 1977

Duke Power Company  
ATTN: Mr. William O. Parker, Jr.  
Vice President - Steam Production  
Post Office Box 2178  
422 South Church Street  
Charlotte, North Carolina 28242

Gentlemen:

RE: OCONEE NUCLEAR STATION, UNIT NOS. 1, 2 & 3

A large number of PWR High Pressure and Low Pressure Safety Injection Systems (HPSI and LPSI) utilize a common low pressure and a common high pressure header to feed the several cold (and in some cases hot) leg injection points. Maintenance of proper flow resistance and pressure drop in the piping system to each injection point is necessary to: (1) prevent total pump flow from exceeding runout conditions when the system is in its minimum resistance configuration; (2) provide a proper flow split between injection points in accordance with the assumptions used in the ECCS-LOCA analyses, and (3) provide an acceptable level of total ECCS flow to all injection points equal to or above that assumed in the ECCS-LOCA analyses. Many plants have either manual or motor operated valve(s) in the lines to each injection point that have electrical or mechanical stops which have been adjusted during pre-operational testing of the plant to ensure that these flow requirements are satisfied.

In view of the safety function associated with the proper setting of valves used to throttle flow in these systems, we consider it appropriate that periodic verification be made of these valve positions. Accordingly, we request that you determine if throttle valves are used to obtain the required flow distribution in the HPSI or LPSI systems. If throttle valves are used, we request that you propose changes to your technical specifications to incorporate the surveillance requirements given in the enclosure.

In the event valves are not utilized to throttle flow in your systems, you should advise us of this fact and no further action will be required.

*dupes of preceding document*

OFFICE					
SURNAME					
DATE					

JUL 18 1977

The above action should be completed within 60 days of receipt of this letter. In the event you should desire further discussion of this matter, please contact us.

Sincerely,

Original Signed By

A. Schwencer, Chief  
Operating Reactors Branch #1  
Division of Operating Reactors

Enclosure:  
Technical Specifications

cc w/enclosure:

- DISTRIBUTION  
~~XXXXXXXX~~  
 Dockets  
 NRC PDRs  
 LOCAL PDR  
 ORB#1 Reading  
 ASchwencer  
 SMSheppard  
 DNeighbors  
 JWetmore  
 OELD  
 OI&E(3)  
 DEisenhut  
 TBAbernathy  
 JRBuchanan  
 ACRS(16)

OFFICE →	DOR: ORB#1	DOR: <i>SW</i>	DR: ORB#1 <i>A</i>		
SURNAME →	DNeighbors: <i>b</i>	JWetmore	ASchwencer		
DATE →	7/18/77	7/18/77	7/18/77		