



**Consumers  
Power  
Company**

**COPY**

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Director, Nuclear Reactor Regulation  
Att Mr Dennis M Crutchfield, Chief  
Operating Reactors Branch No 5  
US Nuclear Regulatory Commission  
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 - BIG ROCK  
POINT PLANT - DESCRIPTION OF INSERVICE TEST  
PROGRAM FOR PUMPS AND VALVES AND REQUESTS FOR  
RELIEF FROM SPECIFIC ASME CODE REQUIREMENTS

Consumers Power Company submittal dated December 7, 1979 forwarded a description of the Big Rock Point inservice test program for pumps and valves and requests for relief from specific code requirements.

The changes (4 pages) attached to this letter comprise a revision to our December 7, 1979 submittal incorporating additions and clarifications to the program and a relief request.

Your review of the attachments and the program as revised and approval of the relief requests identified by the revised program are requested.

David P Hoffman (Signed)

David P Hoffman  
Nuclear Licensing Administrator

CC Director, Region III, USNRC  
NRC Resident Inspector-Big Rock Point

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IWP TESTING

Pumps provided with emergency power sources are required to be tested. This includes pumps powered by the emergency diesel generator, the two core spray pumps and the electric fire pump, and the self-powered diesel fire pump. Tests to be performed on these pumps are as follows:

1. Core Spray Pumps - The pumps will be tested once each reactor shutdown for refueling. See request for relief.
2. Electric Fire Pump - The electric fire pump will be tested each reactor shutdown (but not more frequently than monthly).
3. Diesel Fire Pump - This pump will be tested each reactor shutdown (but not more frequently than monthly).

The parameters to be measured during these tests are tabulated below.

<u>Pump Name</u>	<u>Rotative Speed</u>	<u>Inlet Pressure</u>	<u>ΔP</u>	<u>Flow Rate</u>	<u>Vibration</u>	<u>Bearing Temperature</u>
Core Spray	R	R	R	NA*	R	NM
Electric Fire	ES	ES	ES	NA*	ES	NM
Diesel Fire	ES	ES	ES	NA*	ES	NM

ES - Every shutdown (but not more frequently than monthly).

Y - Yearly.

R - Once/Refueling.

NM - No measurement possible - just monitor vibration. This is because the core spray, electric and diesel fire pump bearings are cooled and lubricated by the water being pumped. Due to water temperature variations and bearing inaccessibility, there is no method that will establish a meaningful bearing reference temperature. Thus, no measurement will be taken.

\*Per IWP3100, differential pressure will be used to establish pump acceptability.

NOTE: The acceptable ranges of parameters will be as required in Table IWP-3100-2.

LISTING OF NEW TEST REQUIREMENTS  
VALVE EXERCISING REQUIREMENTS

VALVES TO BE EXERCISED

<u>Quarterly</u>	<u>Each Reactor Refueling</u>	<u>Each Cold* Shutdown</u>	<u>Reactor* Shutdown</u>	<u>Valves and Testing Requirements</u>
	VPI306, 307,300			Core Spray Check Valves - Exercise by Testing Pump
		VPI301&302		Core Spray Check Valves - Exercise by Flow Service Water Shutoff and Fire Water Discharge to Canal
	VPI303&304			Core Spray Check Valves - Disassemble and Inspect
			VFP304&309	Fire Pump Discharge Check - Exercise During Pump Test
M07066				Core Spray Heat Exchanger Shell Side Inlet Isolation Valve - Exercise
			M07072	Third Path of Fire Water to Containment Isolation Valve - Exercise

Other testing requirements written in margins of the proposed IWV Testing.

\*But not more frequently than quarterly.

IWV TESTING

Valve Number	Print Number	Coordinates	Valve Category					Size (Inches)	Valve Type	Actuator Type	Normal Position	Stroke Time (Seconds)	Test Requirements	Relief Requests	Testing Alternative	Remarks (Not To Be Used for Relief Basis)
			A	B	C	D	E									
RV5043	M-123	E-15			X			3/4"	RV	PR	C	-	1/RR	N	--	Fire System Relief Valves at Pump Discharge
RV5062		E-15						4"	RV	PR	C	-	1/RR	N	--	
RV5063		G-15						3/4"	RV	PR	C	-	1/RR	N	--	
MO7051	M-123	O-9		X				4"	GT	MO	C	*	Q	N	--	Core Spray and Redundant Core Spray Isolation Valves
MO7061		O-10														
MO7070		N-9														
MO7071		N-10														
MO7064	M-123	M-10		X				4"	GT	MO	C	*	Q	Y	RR	Enclosure Spray Isolation Valve Backup Enclosure Spray Isolation Valve
MO7068		M-13														
VPI306	M-123	Q-14		X				4"	CK	FL	C	--	Q	Y	RR*	Core Spray Pump Discharge Check Valve Core Spray Pump Discharge Check Valve Core Spray Test Tank Inlet Check Valve
VPI307		Q-16		X				4"	CK	FL	C	--	Q	Y	RR*	
VPI300		O-14		X				4"	CK	FL	C	--	Q	Y	RR*	
MO7066	M-123	Q-17		X				4"	GT	MO	C	*	Q	N	--	Core Spray Heat Exchanger Shell Side Inlet Isolation Valve
MO7072	M-123	O-15		X				4"	GT	MO	C	*	Q	Y	ES	

\*The above three check valves are dependent upon testing of the core spray pump. Thus, see the relief request for the core spray pump.

RELIEF REQUEST BASIS

System: Core Spray System

Valve: MO7072

Category: B

Class: 2

Function: To provide a third path of fire water to the containment.

Test Requirement: Exercise quarterly.

Basis for Relief: Exercising this valve will introduce fire water into the inhibited water of the core spray pump piping. Exercising during each shutdown will minimize the amount of fire water that enters the core spray pump piping.

Alternate Testing: Each reactor shutdown but not more frequently than monthly.