



# Duquesne Light

435 Sixth Avenue  
Pittsburgh, Pa.  
15219

(412) 456-6000

March 17, 1980

Director of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
Attn: D. G. Eisenhut, Acting Director  
Division of Operating Reactors  
Washington, DC 20555

Reference: Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334  
LWR Primary Coolant System Pressure Isolation Valves

Gentlemen:

Provided herewith are three (3) originals and thirty-seven (37) copies of the response to your letter dated February 23, 1980, which identified an accident mode from WASH 1400 which is a significant contributor to risk from Event V accidents and requested information from licensees relating to the existence of the piping configuration identified therein in the licensees plant and the methods used, or planned to be used, to assure component integrity.

In response to the numbered questions requested pursuant to 10 CFR 50.54(f) on page 2 of your letter, the following information is submitted:

1. We have reviewed all plant systems to determine the existence of an Event V valve configuration of the type described by the two examples in your letter and have concluded that the Safety Injection System is the only system at Beaver Valley Unit No. 1 which fits this description. Figure 1, attached hereto, describes the valve configuration for this system at Beaver Valley Unit No. 1.
2. At the present time, three of the check valves (1SI-10, 11 and 12) and the motor operated valve (MOV-SI-890C) are required to be leak tested at 18 month intervals in accordance with the in-service inspection requirements contained in the ASME Boiler and Pressure Vessel Code, Section XI. The other check valves shown on Figure 1 are not required to be leak tested. None of these valves are continuously monitored for leakage. We have reviewed the maintenance history records for these six check valves and none have a record of, nor are known to have had leakage problems which could lead to an Event V failure.

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3. We believe that the leak tightness of the check valves can be improved by observing the upstream pressure after each event which could allow the check valves to open. Therefore, we will install a pressure gauge between the check valves and the discharge of the Low Head Safety Injection Pumps, and we will prepare procedures which will require observation of the pressure gauge for indications of check valve leakage after any operation of the LHSI pumps or if the RCS pressure is reduced below the LHSI pump discharge pressure.

Beaver Valley Unit No. 1 is presently shut down for refueling and major modifications. The commitments described in paragraph 3 above will be accomplished prior to plant startup.

Very truly yours,



C. N. Dunn  
Vice President, Operations

Attachment

(CORPORATE SEAL)

Attest:

Joan S. Senchyshyn  
Joan S. Senchyshyn  
Asst. Secretary

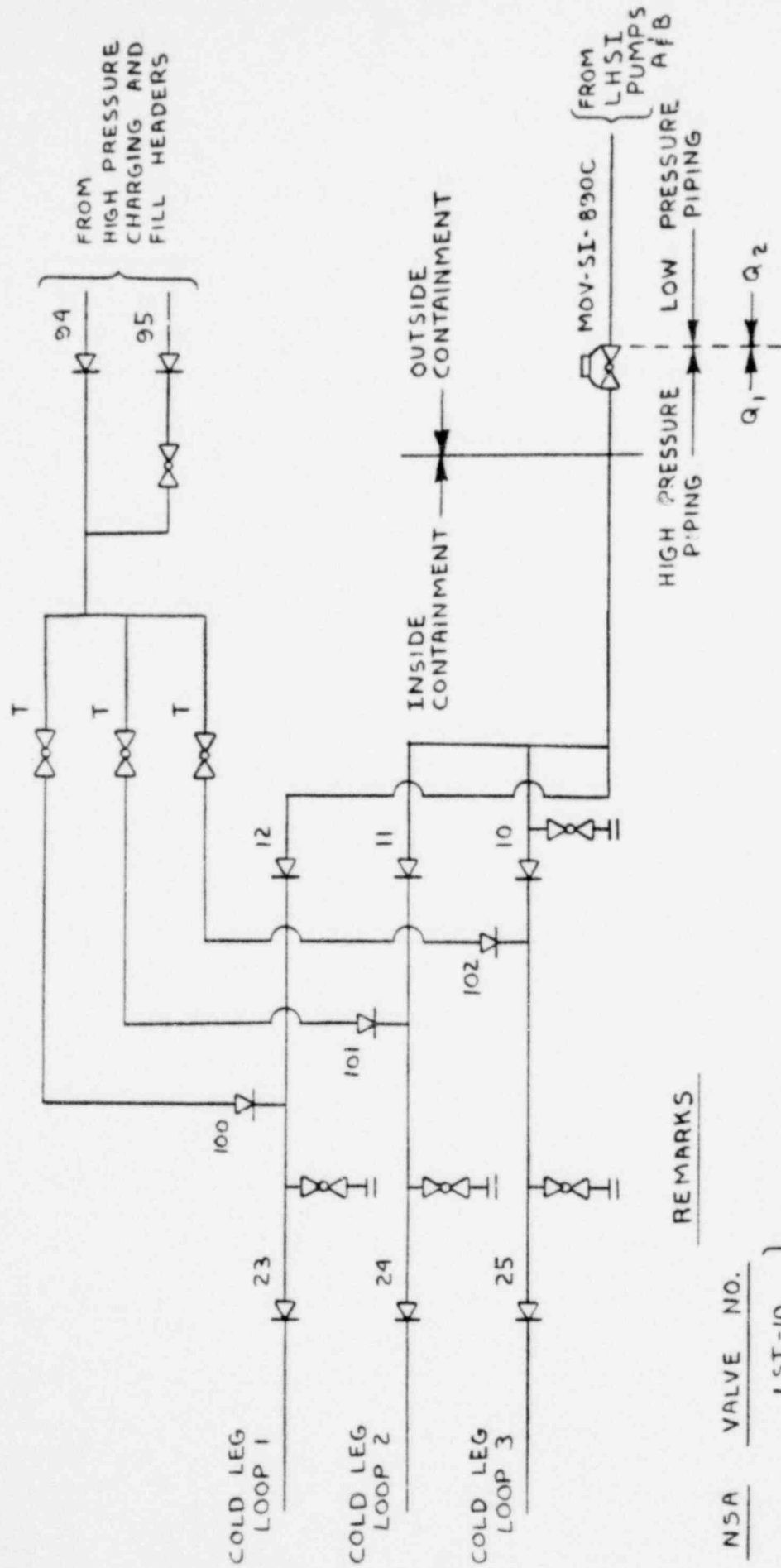
COMMONWEALTH OF PENNSYLVANIA) ) SS:  
COUNTY OF ALLEGHENY )

On this 17<sup>th</sup> day of MARCH, 1980,  
before me, DONALD W. SHANNON, a Notary Public in and for said  
Commonwealth and County, personally appeared C. N. Dunn, who being duly  
sworn, deposed, and said that (1) he is Vice President of Duquesne Light,  
(2) he is duly authorized to execute and file the foregoing Submittal  
on behalf of said Company, and (3) the statements set forth in the  
Submittal are true and correct to the best of his knowledge, information  
and belief.

Donald W. Shannon

DONALD W. SHANNON, NOTARY PUBLIC  
PITTSBURGH, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES JUNE 7, 1983  
Member, Pennsylvania Association of Notaries

FIGURE 1 - LOW HEAD SAFETY INJECTION PUMPS TO REACTOR COOLANT SYSTEM COLD LEGS



REMARKS

NSA	VALVE	NO.
	1 SI-10	}
	1 SI-11	
	1 SI-12	
0	MOV-SI-890C	

LEAK RATE TESTED AT 18 MONTH INTERVALS PER ASME B1PV CODE SECTION XI

T: THROTTLE VALVE

NSA: NORMAL SYSTEM ARRANGEMENT