



Duquesne Light

435 Sixth Avenue
Pittsburgh, Pa.
15219

(412) 456-6000

August 6, 1981

Director of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Attn: Mr. Steven A. Varga Chief
Operating Reactors Branch No. 1
Division of Licensing
Washington, DC 20555

Reference: Beaver Valley Power Station, Unit No. 1
Docket No. 50-334
DCP 451



Gentlemen:

In our letter dated February 23, 1981, we committed to modifying the Main Feedwater Valve circuits to preclude opening of these valves upon reset of the Safety Injection Signal.

During review of the proposed design change, our Licensing and Engineering Departments determined that this change was not necessary and consequently request to be relieved of the requirement to modify these circuits.

Our justification is based upon the following inherent design features of the existing system:

1. The Main Feedwater Valves will not automatically reposition upon reset of the SIS signal since a separate and redundant trip on the valves still exists. This signal is developed by a low Tave (less than 554F) coincident with a reactor trip signal (P4). Refer to the attached diagrams which depict this additional trip on the valves and to FSAR Figure 7.2-1 instrumentation and control system for additional information.

NOTE: The K601 relay contact is dropped out by an SIS signal and the K620 relay contact is operated by either a high-high steam generator level or the P4 and 554F logic.

2. The SIS signal causes a full reactor trip automatically and isolates the main feedwater header by closing: the containment isolation valves, main and bypass regulating valves, and tripping the Main Feedpumps.
3. A trip of a Main Feedpump also closes its respective discharge valve which is powered from the Emergency 480V Bus. These valves are in a series arrangement with the Main Feedwater Regulating Valves.

8108110378 810806
PDR ADQCK 05000334
P PDR

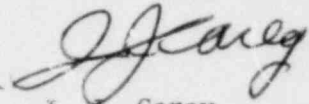
Acc
s
1/1

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334
DCP 451
Page 2

4. The Feedwater Isolation Signal effects isolation of the individual feedwater headers at four points:
- *1. Closure of the Containment Isolation Valves.
 - *2. Closure of the Main Feedwater Regulating and Bypass Regulating Valves.
 - *3. Trip of the Main Feed Pumps.
 - 4. Closure of the Main Feed Pump discharge valve upon tripping of the pump.

If you have any questions in this regard, please contact my office.

Very truly yours,



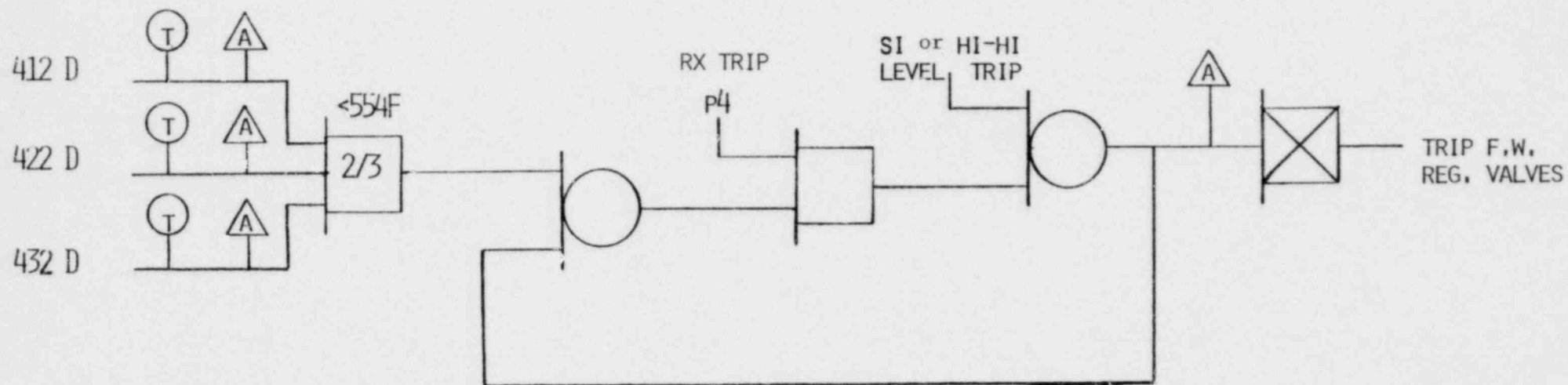
J. J. Carey
Vice President, Nuclear

* The Feedwater Isolation Signal is diversified with Train "A" and Train "B" redundancy.

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334
DCP 451
Page 3

cc: Mr. D. A. Beckman, Resident Inspector
U.S. Nuclear Regulatory Commission
Beaver Valley Power Station
Shippingport, PA 15077

Mr. D. Chaney
United States Nuclear Regulatory Commission
Operating Reactors Branch No. 1
Division of Licensing
Washington, DC 20555



WESTINGHOUSE DRAWING NO. 1081H94

(REDRAWN)

