

DUKE POWER COMPANY

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September 5, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Re: Catawba Nuclear Station
Docket Nos. 50-413 and 50-414

Dear Mr. Denton:

Proposed License Condition 18, Containment Purge Valve Operability, which was attached to Facility Operating License NPF-24 for Catawba Unit 1, required additional documentation in order to demonstrate the operability of valves VQ2A, VQ3B, VQ15B, and VQ16A which are shown on FSAR Figure 9.5.10-1.

The manufacturer (Borg-Warner) of valves VQ3B and VQ15B supplied these gate valves with Rotork electric motor operators set at 45 ft-lbs of output torque. That torque valve will close the valves against a differential pressure of at least 375 psi. The manufacturer (Grinnell) of valves VQ2A and VQ16A supplied these diaphragm valves with Rotork electric motor operators set at 45 ft-lbs of output torque. That torque valve will close the valves against a differential pressure of at least 200 psi. Both manufacturer's have verified that a differential pressure of 15 psi due to containment pressure buildup will have little effect when closing the valves. At pressures this low, the torque required to overcome stem or packing loads is greater than the torque required by flow loading. All of the operators have been field checked to verify correct torque settings.

It is therefore concluded that these valves have the ability to close against the buildup of containment pressure following a design basis LOCA.

Very truly yours,

H. B. Tucker

Hal B. Tucker

ROS:slb

cc: Mr. James R. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
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cc: NRC Resident Inspector
Catawba Nuclear Station

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