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DUKE POWER COMPANY

GENERAL OFFICES
422 SOUTH CHURCH STREET

" JUN 12 CHARLOTTE, N. C. 28242

TELEPHONE: AREA 704 373-4011

June 9, 1980

Mr. J. P. O'Reilly, Director U.S. Nuclear Regulatory Commission 101 Marietta Street, Suite 3100 Atlanta, Georgia 30303

Re: Perkins Nuclear Station
Docket Nos.: 50-488, 50-489, 50-490
Cherokee Nuclear Station
Docket Nos.: 50-491, 50-492, 50-493
IE Bulletin 80-05
Duke File: P81-1412.11-1

Dear Mr. O'Reilly:

Enclosed is Duke Power's response to IE Bulletin 80-05 which was transmitted by your letter of March 10, 1980.

Very truly yours,

L. C. Dail, Vice President

Design Engineering

EKM/pam

Enclosure

CHEROKEE & PERKINS NUCLEAR STATIONS - RESPONSE TO 1E BULLETIN 80-05

VACUUM CONDITIONS IN LOW PRESSURE AND HOLDUP TANKS

TANK NAME	SYSTEM	QUANTITY/UNIT	INSIDE OR OUTSIDE	EXTERNAL DESIGN PRESSURES	VACUUM PROTECTION MEASURES
Volume Control Tank	NV	1	Inside	15 psid	Designed for full vacuum
Reactor Drain Tank	NB	1	Inside	15 psid	Designed for full vacuum
Holdup Tank	NB	1	Outside	0.5 psid	Vacuum breaker redundant to unvalved vent to Filtered Exhaust Gas Collection Header
Refueling Water Tank	NB	1	Outside	0.5 psid	Redundant, heat-traced vacuum breakers; Vent to Gas Collection Header through a locked open valve.
Equipment Drain Tank	NB	1	Inside	15 psid	Designed for full vacuum
Waste Tanks	WM	4	Inside	0.5 psid	Unvalved vent to Filtered Exhaust Gas Collection Header; Calculations performed to insure adequate vent size.
Containment* Cooler Condensate Tanks	WM	2	Inside	0.5 psid	Unvalved vent to Gas Collection Header; Calcul- tions performed to insure adequate vent size.

^{*}Normal contents of these tanks is clean condensate. If there were a Reactor Coolant System leak inside containment, some evaporated reactor coolant could condense on the containment cooler coils and drain to the Containment Cooler Condensate Tanks. However, containment isolation valves to the Containment Cooler Condensate Tanks would close on high containment radioactivity.