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ENCLOSURE 3

August 18, 1980

Mr. Gus C. Lainas  
Assistant Director for Safety Assessment  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington D.C. 20555

Subject: SEP Topic XV-16 "Radiological Consequences  
of Small Lines Carrying Primary Coolant  
Outside Containment" Dresden 2  
Docket No. 50-237

Dear Mr. Lainas:

The following information is being provided per your June 16, 1980 letter to Mr. D. Louis Peoples. Questions 1 thru 4 are addressed by the attached table titled, "Small Lines Penetrating Containment".

Questions #5 and #6

An analysis has been performed of the consequences of a 1-inch instrument line break in the Dresden 3 plant (Ref. Dresden 3 FSAR, Amend. 22, Section 3.C). The break was assumed to occur outside the primary containment but upstream of the flow check valve in the line. A manually operated stop valve is located outside the containment wall upstream of the break. This valve was not assumed to be closed until after the reactor was shutdown and depressurized. The reactor was considered to be shutdown manually by the operator upon the detection of the break, i.e., by audible disclosure or by detection of increased radiation level in the reactor building or water level increases in the reactor building sumps.

Question #7

Charcoal filtration via the Standby Gas Treatment System (SGTS) is available for the Reactor Building, drywell, torus, and HPCI gland seal condenser areas.

Charcoal filtration of ventilation air is not provided in any other area of the station.

Question #8

The SGTS is not designed to be operated during normal plant operation. However, CECO has periodically used the SGTS when high airborne conditions are present and the plant is at power.

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Question #9

SGTS Charcoal Filter (each filter train)

Type	Tray
Quantity	4 (24" x 24" x 2")
Capacity (CFM)	4000
Pressure Drop (Inches Water)	1.0
Media	2" - impregnated charcoal
Quantity of Media (lbs)	540
Residence time (sec)	0.26
Efficiency	99.99%*

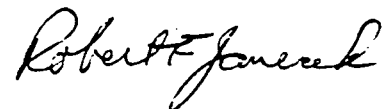
\*Based on FSAR

Question #10

All areas of the plant are ventilated, except the drywell, during normal plant operation.

One signed original and 39 copies of this transmittal have been provided for your review. If you have any questions, please contact this office.

Very truly yours,



Robert F. Janeczek  
Nuclear Licensing  
Administrator  
Boiling Water Reactors

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5757A  
Attachment

# SMALL LINES PENETRATING CONTAINMENT

LINE (1)	PENETRATION	LOCATION		TERMINATION	LOCATION		BREAK FLOW
		ELEV.	AZIMUTH		ELEV.	COLUMN/ROW	
8 Instr. Lines (2)	X-115B	513'9"	280°	Rack 2202-10	476'6"	M/44	2 gpm
Instr. Line	X-127A	560'0"	70°	Rack 2202-5	545'6"	K/39-40	2 gpm
Instr. Line	X-128A	565'0"	210°	Rack 2202-6	545'6"	M/41-42	2 gpm
Instr. Line	X-128B	564'0"	210°	Rack 2202-6	545'6"	M/41-42	2 gpm
Instr. Line	X-129A	565'0"	70°	Rack 2202-5	545'6"	K/39-40	2 gpm
Instr. Line	X-129B	564'0"	70°	Rack 2202-5	545'6"	K/39-40	2 gpm
Instr. Line	X-129C	565'0"	70°	Rack 2202-5	545'6"	K/39-40	2 gpm
Instr. Line	X-129D	564'0"	70°	Rack 2202-5	545'6"	K/39-40	2 gpm
Instr. Line	X-129E	565'0"	210°	Rack 2202-6	545'6"	M/41-42	2 gpm
Instr. Line	X-129F	564'0"	210°	Rack 2202-6	545'6"	M/41-42	2 gpm
Instr. Line	X-131A	528'0"	110°	Rack 2202-7	517'6"	K/39-40	2 gpm
Instr. Line	X-131B	528'0"	115°	Rack 2202-7	517'6"	K/39-40	2 gpm
Instr. Line	X-131C	528'0"	290°	Rack 2202-8	517'6"	K/42-43	2 gpm
Instr. Line	X-132A	510'0"	90°	Rack 2202-9	476'6"	M/38	2 gpm
Instr. Line	X-132B	510'0"	90°	Rack 2202-9	476'6"	M/38	2 gpm
Instr. Line	X-132C	510'0"	270°	Rack 2202-10	476'6"	M/44	2 gpm
Instr. Line	X-132D	510'0"	270°	Rack 2202-10	476'6"	M/44	2 gpm
Instr. Line	X-133A	510'0"	90°	Rack 2202-9	476'6"	M/38	2 gpm
Instr. Line	X-133B	510'0"	90°	Rack 2202-9	476'6"	M/38	2 gpm
Instr. Line	X-133C	510'0"	270°	Rack 2202-10	476'6"	M/44	2 gpm
Instr. Line	X-133D	510'0"	270°	Rack 2202-10	476'6"	M/44	2 gpm
Instr. Line	X-134A	510'0"	90°	Rack 2202-9	476'6"	M/38	2 gpm
Instr. Line	X-134B	510'0"	90°	Rack 2202-9	476'6"	M/38	2 gpm
Instr. Line	X-134C	510'0"	270°	Rack 2202-10	476'6"	M/44	2 gpm
Instr. Line	X-134D	510'0"	270°	Rack 2202-10	476'6"	M/44	2 gpm

SMALL LINES PENETRATING CONTAINMENT - Continued

LINE (1)	PENETRATION	LOCATION		TERMINATION	LOCATION		BREAK FLOW
		ELEV.	AZIMUTH		ELEV.	COLUMN/ROW	
4 Instr. Lines(3/4") (2)	X-141A	542'6"	160°	Rack 2202-28	517'6"	L-M/40	2 gpm
12 Instr. Lines	X-142A	540'0"	75°	Rack 2202-7	517'6"	K/39-40	2 gpm
12 Instr. Lines	X-142B	540'0"	245°	Rack 2202-8	517'6"	K/42-43	2 gpm
4 Instr. Lines	X-146	541'0"	105°	Rack 2202-7	517'6"	K/39-40	2 gpm
4 Instr. Lines	X-208	536'0"	215°	Rack 2202-8	517'6"	K/42-43	2 gpm
2-1305-3/4"-A (2)	N/A	579'6"	150°	Valve 2-1301-34	570'	L/41	6.4 lb/sec (3)
2-1233-1"-A (4)	N/A°	547'10"	290°	Valve 2-1201-32	545'	J-K/42-43	39.6 lb/sec
2-2346-3/4"-B (2)	N/A	513'9"	101°	Valve 2-2301-16	513'	K/39	6.4 lb/sec (3)
2-1451-3/4"-A	X-133	510'0"	90°	Rack 2202-7	517'6"	K/39-40	2 gpm
2-1452-3/4"-A	X-133	510'0"	90°	Rack 2202-7	517'6"	K/39-40	2 gpm

- NOTES:
- (1) Instrument lines are 1" diameter unless otherwise noted. All instrument lines contain an excess flow check valve located approximately one foot from the containment, which will limit the flow in case of a break.
  - (2) These lines contain steam.
  - (3) Line will be automatically isolated within 30 seconds on high steam flow.
  - (4) This vent line branches outside containment from reactor water cleanup line 2-1201-10"-A (which has a normally open isolation valve M02-1201-1 inside containment), and contains two normally closed manual valves. Line 2-1233-1"-A is Class I up to and including the first valve (2-1201-32).