



**PSEG**

Public Service  
Electric and Gas  
Company

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Robert L. Mittl General Manager  
Nuclear Assurance and Regulation

July 9, 1984

Director ( Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20814

Attention: Mr. Albert Schwencer, Chief  
Licensing Branch 2  
Division of Licensing

Gentlemen:

HOPE CREEK GENERATING STATION  
DOCKET NO. 50-354  
CONTROL ROOM HABITABILITY - DOSE ASSESSMENT INFORMATION

On April 10, 1984, a meeting was held in the Bethesda, Maryland offices of the NRC to discuss control room habitability at the Hope Creek Generating Station. In DSER, Section 6.4, information was requested which would enable the staff to perform a control room X/Q analysis using the Murphy-Campe methodology.

In response to the staff's request at the April 10, 1984, meeting, advance copies of new FSAR Table 6.4-5 and updated FSAR Figure 6.4-2 are attached for information in support of the staff's analysis. This information will be incorporated in an upcoming amendment to the HCGS FSAR.

We understand that, upon receipt of this information, the staff will perform a Murphy-Campe X/Q analysis to assess compliance with General Design Criteria 19.

Should you have any questions in this regard, please contact us.

Very truly yours,

8407190333 840709  
PDR ADOCK 05000354 PDR  
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Attachment  
The Energy People

A003  
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Director of Nuclear  
Reactor Regulation

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7/9/84

C D. H. Wagner  
USNRC Licensing Project Manager

Mr. W. H. Bateman  
USNRC Senior Resident Inspector

DN17 1/2

## HCGS FSAR

TABLE 6.4-5

RADIOACTIVE RELEASE LOCATIONS  
RELATIVE TO CONTROL ROOM INTAKE

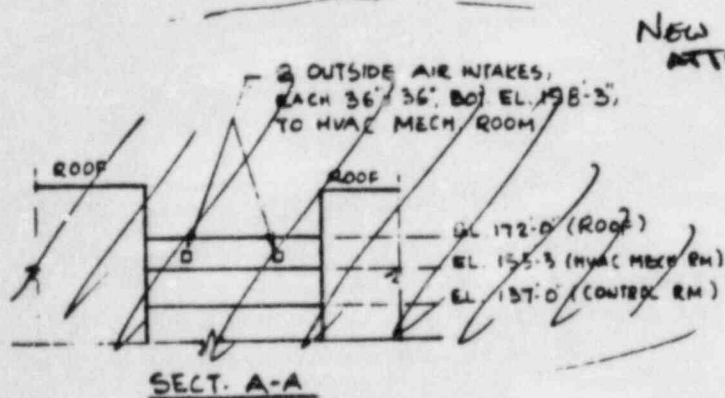
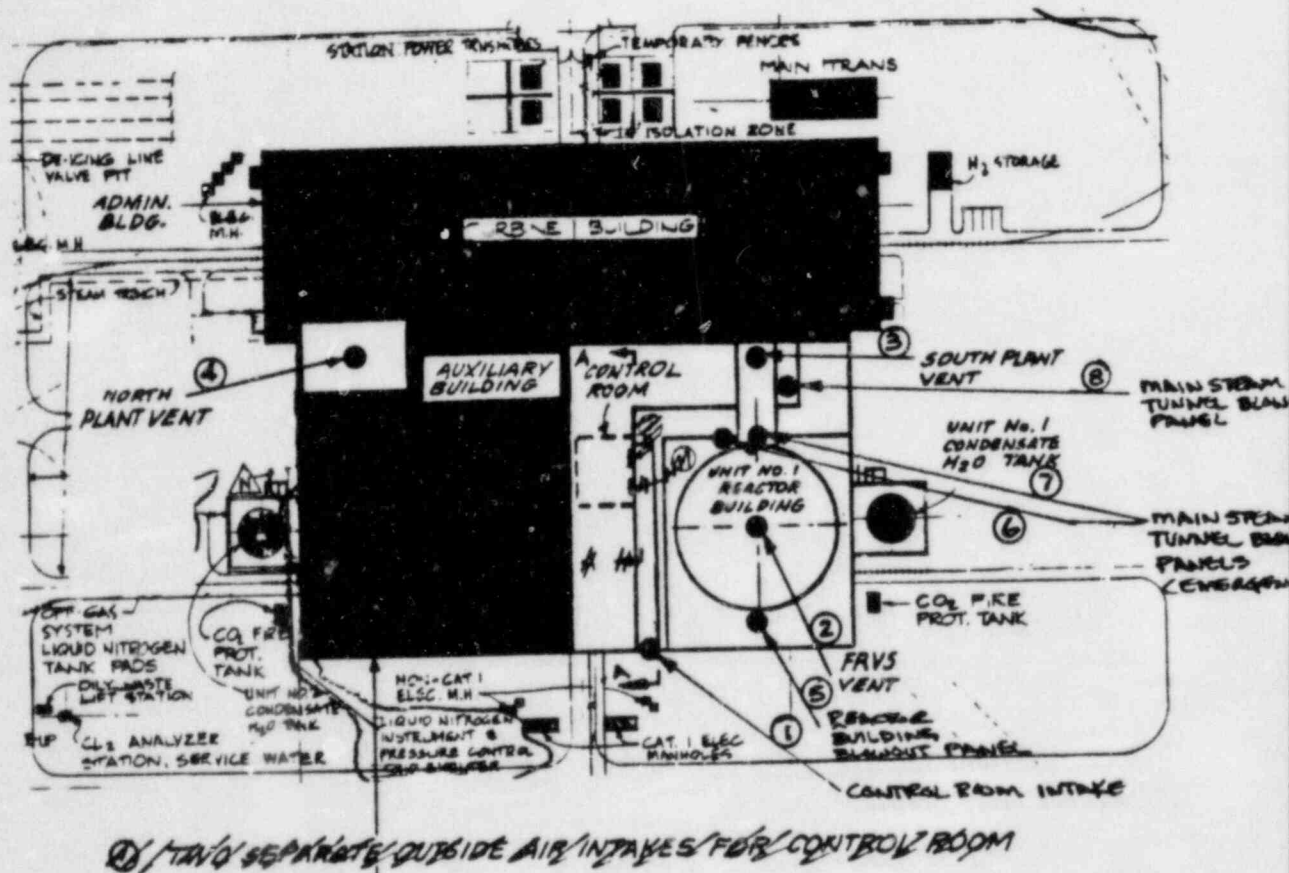
RECEPTOR/ RELEASE POINT	ELEVATION OF (ft)	DISTANCE FROM CONTROL ROOM INTAKE TO RELEASE (ft)	
		X (NORTH/SOUTH)	Y (EAST/WEST)
1. Control Room Intake	156'-9"	0'	0'
2. FRVS Exhaust Vent <sup>(a)</sup>	301'-4"	111'-2"(S)	129'-0"(E)
3. South Plant Vent <sup>(b)</sup>	217'-0"	111'-2"(S)	303'-3"(E)
4. North Plant Vent	217'-0"	266'-1"(N)	306'-3"(E)
5. Reactor Building Blowout Panel	143'-9"	111'-2"(S)	45'-0"(E)
6. MS Tunnel North <sup>(c)</sup> Blowout Panel (Emergency)	161'-11"	94'-2"(S)	226'-2"(E)
7. MS Tunnel South Blowout Panel (Emergency)	162'-0"	137'-5"(S)	224'-11"(E)
8. MS Tunnel Blowout Panel	143'-6"	151'-2"(S)	274'-6"(E)

Design Basis Accident(s) associated with release locations (per Chapter 15.0 analyses):

- (a) LOCA, Fuel Handling Accident
- (b) Waste Gas System Failure, Control Rod Drop, Instrument Line Break
- (c) Steam Line Break

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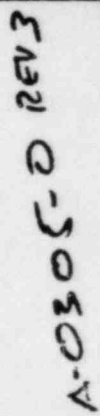


SK-A-1006, REV N :

**HOPE CREEK  
GENERATING STATION  
FINAL SAFETY ANALYSIS REPORT**

PLANT LAYOUT WITH RESPECT  
TO CONTROL ROOM INTAKE

FIGURE 6.4-2



POURED IN PLACE CONCRETE  
STAIR & ELEV  
NO. 51-02 PENTHOUSES  
SEE DWG A-0307-0  
FOR ADDITIONAL

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~~SECTION - ELEVATION~~

A-A  
SECOND