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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388  
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 CURTIS,N.W. Pennsylvania Power & Light Co.  
 RECIP.NAME RECIPIENT AFFILIATION  
 SCHWENCER,A. Licensing Branch 2

SUBJECT: Advises of differences between suppression pool max vol in  
 Tech Specs & FSAR.Vol stated in FSAR based on preliminary  
 design info.Encl changes will be included in Jul 1984 FSAR  
 update.

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THE UNITED STATES OF AMERICA  
 DEPARTMENT OF THE ARMY  
 OFFICE OF THE CHIEF OF STAFF  
 WASHINGTON, D. C. 20315

REPORT OF THE CHIEF OF STAFF  
 ON THE PROGRESS OF THE ARMY  
 DURING THE YEAR 1968

PREPARED BY THE  
 OFFICE OF THE CHIEF OF STAFF

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GENERAL INFORMATION		PERSONNEL		EQUIPMENT		OPERATIONS	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	...	1	...	1	...	1	...
2	...	2	...	2	...	2	...
3	...	3	...	3	...	3	...
4	...	4	...	4	...	4	...
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Pennsylvania Power & Light Company

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Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215/770-7501

MAY 18 1984

Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
FSAR CHANGES  
ER 100450 FILE 841-1  
PLA-2209

Docket Nos. 50-387  
50-388

Dear Mr. Schwencer:

During a recent review of the Technical Specifications versus the Final Safety Analysis Report (FSAR), it was noted that suppression pool maximum volume differed between the Technical Specifications and the FSAR. The volume stated in the FSAR was based on preliminary design information. The maximum volume for the suppression pool used in the analysis is the figure contained in the Technical Specifications.

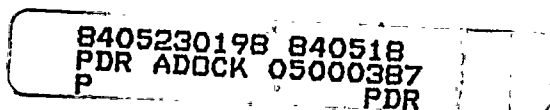
The attached FSAR changes will be made in the July 1984 update.

Very truly yours,

N. W. Curtis  
Vice President-Engineering & Construction-Nuclear

Attachment

cc: R. L. Perch - NRC



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## SSES-PSAR

TABLE 6.2-1

CONTAINMENT DESIGN PARAMETERS

	<u>Drywell</u>	<u>Suppression Chamber</u>
A. <u>DRYWELL AND SUPPRESSION CHAMBER:</u>		
1. Internal Design Pressure, psig	53	53
2. External Design Pressure, psig	5	5
3. Drywell Deck Design Differential Pressure, psid	28	
4. Design Temperature, °F	340	220
5. Drywell (including vents) Net Free Volume, ft <sup>3</sup>	239,600	-
6. Design Leak Ratio Rate, %/day	1.0	1.0
7. Maximum Allowable Leak Rate, %/day	1.0	1.0
8. Suppression Chamber Free Volume, ft <sup>3</sup>		159,130 (low water) 148,590 (high water)
9. Suppression Chamber Water Volume		
Minimum, ft <sup>3</sup>		122,410
Maximum, ft <sup>3</sup>		13 <sup>3</sup> <del>7</del> ,5 <sup>4</sup> <del>50</del>
10. Pool Free Cross-section Area, ft <sup>2</sup>		5,277
11. Pool Depth (normal), ft		23
12. Drywell Free Volume/Pressure Suppression Chamber Free Volume		1.51 to 1.61
13. Primary System Volume/Pressure Suppression Pool Volume		.15

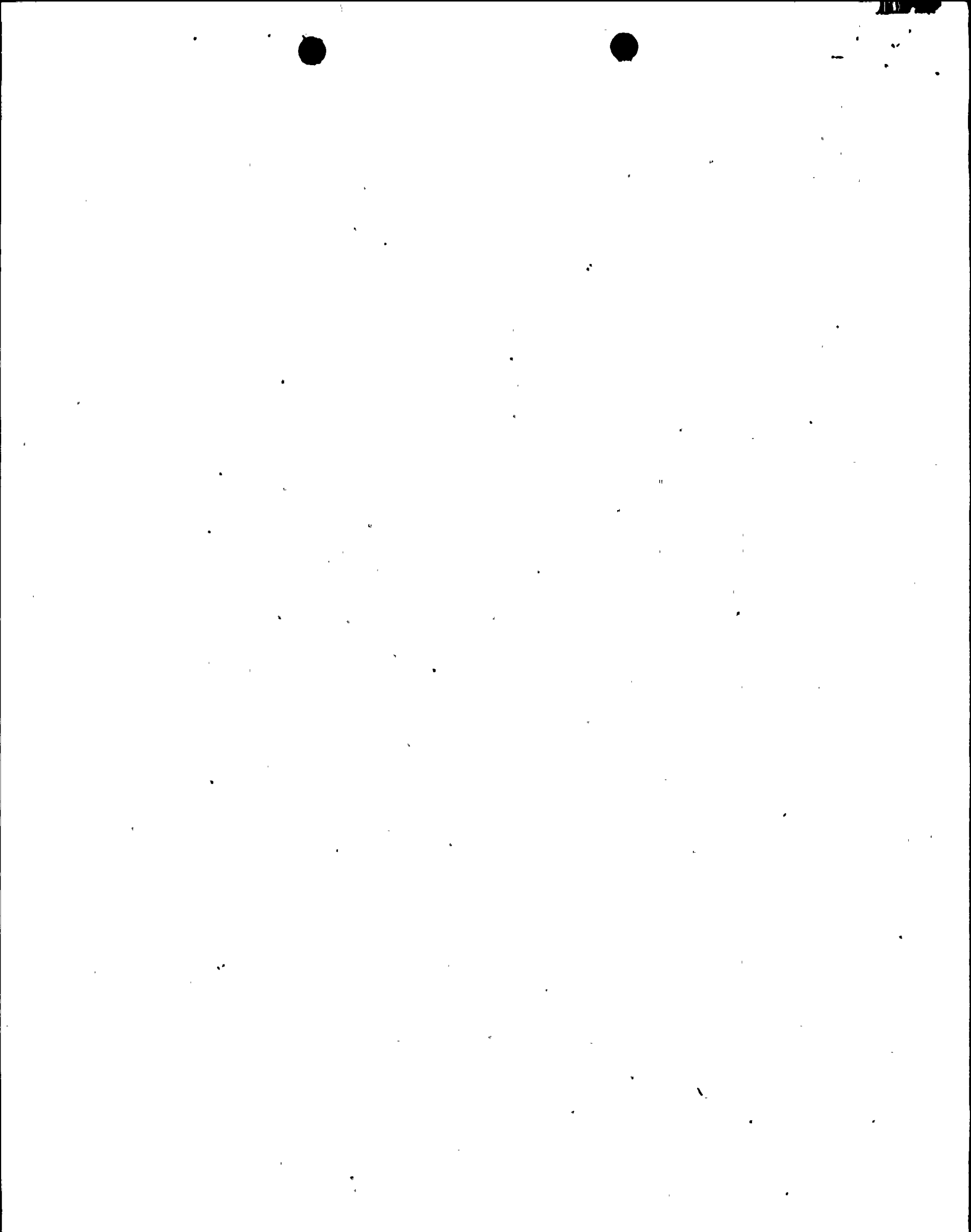
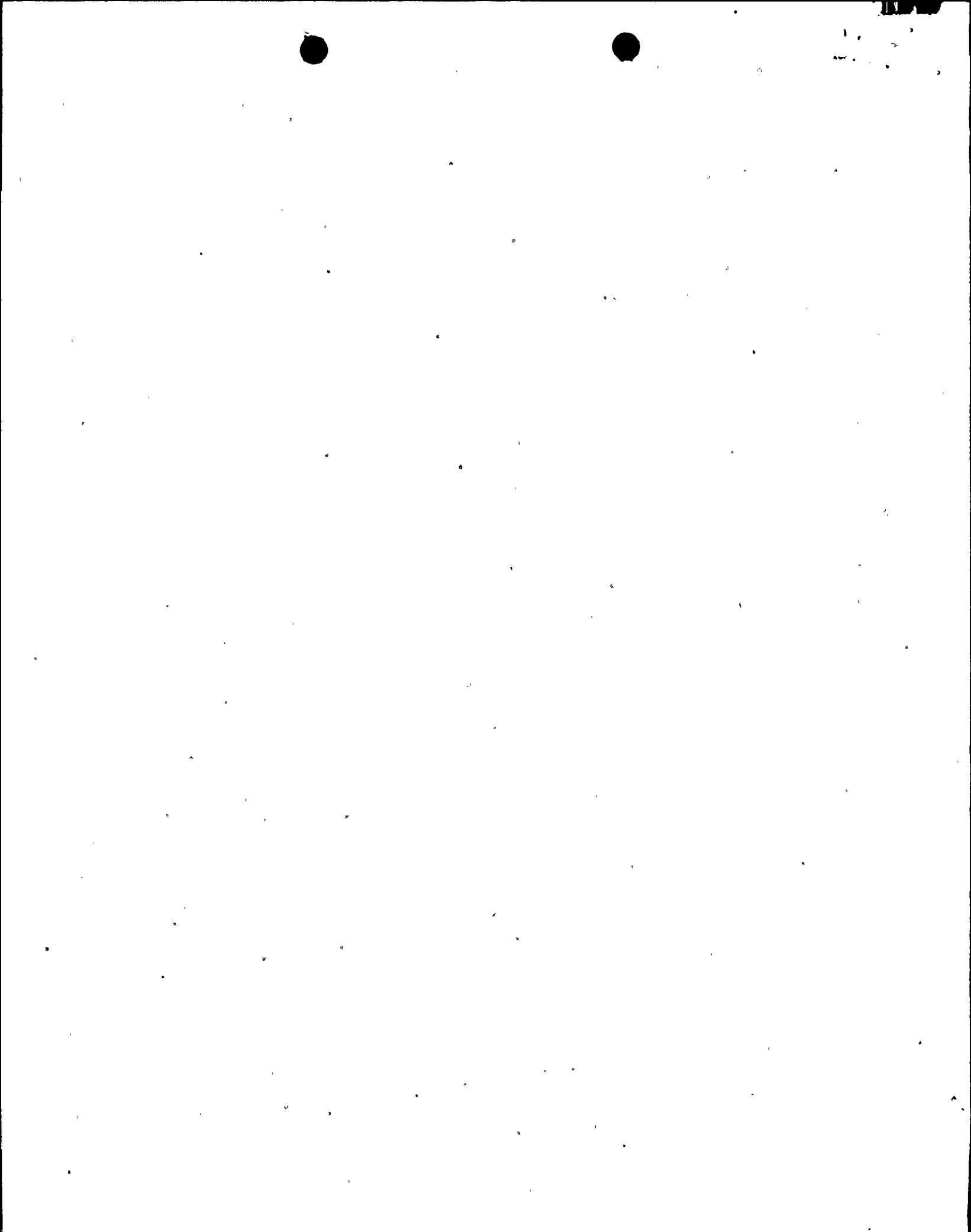


TABLE 6-2-1 (Continued)B. VENT SYSTEM:

1.	No. of Downcomers	87
2.	Nominal Downcomer Diameter, ft.	2
3.	Total Downcomer Vent Area, ft <sup>2</sup>	257
4.	Downcomer Submergence, ft - high water level	12
	- normal water level	11
	- low water level	10
5.	Downcomer Loss Factor	2.5





## SSES-FSAR

TABLE 6.2-4 (Page 1)  
INITIAL CONDITIONS EMPLOYED  
IN CONTAINMENT RESPONSE ANALYSES

A.	<u>REACTOR COOLANT SYSTEM:</u>	(at design overpower of 105% rated steam flow and at normal liquid levels)	4
			18
	1. Reactor Power Level, MWT	3,434	4
	2. Average Coolant Pressure, psig	1,055	
	3. Average Coolant Temperature, °F	551.14	
	4. Mass of Reactor Coolant System Liquid, lbm	668,950	
	5. Mass of Reactor Coolant System Steam, lbm	19,900	
	6. Liquid Plus Steam Energy, Btu	379.5 x 10 <sup>6</sup>	
	7. Volume of Water in Vessel, ft <sup>3</sup>	11,978	
	8. Volume of Steam in Vessel, ft <sup>3</sup>	6,990	
	9. Volume of Water in Recirculation Loops, ft <sup>3</sup>	1,236	
	10. Volume of Steam in Steam Lines, ft <sup>3</sup>	1,390	
	11. Volume of Water in Feedwater Line, ft <sup>3</sup>	1,077	
	12. Volume of Water in Miscellaneous Lines, ft <sup>3</sup>	0	
	13. Total Reactor Coolant Volume, ft <sup>3</sup>	22,721	

B. CONTAINMENT

	<u>Drywell</u>	<u>Suppression Chamber</u>
1. Pressure, psig	0.1 to 1.5	0.1 to 1.5
2. Temperature, °F	135 to 150	90 to 150
3. Relative Humidity, %	40 to 55	100
4. Service Water Temperature, °F		90.2 max
5. Water Volume, ft <sup>3</sup>	N/A	122410 to 137580 34
6. Vent Submergence, ft(normal)	N/A	11.0