

# ***PVNGS***

*Palo Verde Nuclear Generating Station  
Units 1, 2, and 3*

# Updated Final Safety Analysis Report Figures

Cox,  
Matthew  
S(Z05628)

Digitally signed by Cox, Matthew  
S(Z05628)  
DN: cn=Cox, Matthew S(Z05628)  
Date: 2017.07.13 11:01:23 -07'00'

Revision 19 Corrected  
*Redacted per RIS 2015-17*  
July 2017



**PaloVerde**™  
GENERATING STATION

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
<b>CHAPTER 1 TAB</b>	--	Fig. 2.3-3	11	Fig. 2.4-34	11
		Fig. 2.3-4	11	(Sh 1 of 3)	11
<b>1.1 Tab</b>	--	Fig. 2.3-5	11	(Sh 2 of 3)	11
None		Fig. 2.3-6	11	(Sh 3 of 3)	11
		Fig. 2.3-7	11	Fig. 2.4-35	
<b>1.2 Tab</b>	--	Fig. 2.3-8	11	(Sh 1 of 3)	11
		Fig. 2.3-9	11	(Sh 2 of 3)	11
Fig. 1.2-1	11	Fig. 2.3-10	11	(Sh 3 of 3)	11
Fig. 1.2-2	15	Fig. 2.3-11	11	Fig. 2.4-36	
		Fig. 2.3-12	11	(Sh 1 of 4)	11
<b>1.3 Tab</b>	--	Fig. 2.3-13	11	(Sh 2 of 4)	11
None		Fig. 2.3-14	11	(Sh 3 of 4)	11
		Fig. 2.3-15	15	(Sh 4 of 4)	11
<b>1.4 Tab</b>	--	Fig. 2.3-16	11	Fig. 2.4-37	
None		Fig. 2.3-17	11	(Sh 1 of 4)	11
		Fig. 2.3-18	11	(Sh 2 of 4)	11
<b>1.5 Tab</b>	--	Fig. 2.3-19	11	(Sh 3 of 4)	11
None		Fig. 2.3-20	11	(Sh 4 of 4)	11
		Fig. 2.3-21	11	Fig. 2.4-38	
<b>1.6 Tab</b>	--	Fig. 2.3-22	11	(Sh 1 of 6)	11
None		Fig. 2.3-23	11	(Sh 2 of 6)	11
				(Sh 3 of 6)	11
<b>1.7 Tab</b>	--	<b>2.4 Tab</b>	--	(Sh 4 of 6)	11
None				(Sh 5 of 6)	11
		Fig. 2.4-1	15	(Sh 6 of 6)	11
<b>1.8 Tab</b>	--	Fig. 2.4-2	16	Fig. 2.4-39	16
None		Fig. 2.4-3	11	Fig. 2.4-40	15
		Fig. 2.4-4	15	Fig. 2.4-42	16
<b>1.9 Tab</b>	--	Fig. 2.4-5	11		
None		Fig. 2.4-6	11	<b>2.5 Tab</b>	--
		Fig. 2.4-7	11		
<b>1A Tab</b>		Fig. 2.4-8	11	Fig. 2.5-1	11
None		Fig. 2.4-9	11	Fig. 2.5-2	11
		Fig. 2.4-10	11	Fig. 2.5-3	11
<b>CHAPTER 2 TAB</b>	--	Fig. 2.4-11	11	Fig. 2.5-4	11
		Fig. 2.4-12	11	Fig. 2.5-5	11
<b>2.1 Tab</b>	--	Fig. 2.4-13	11	Fig. 2.5-6	11
		Fig. 2.4-14	11	Fig. 2.5-7	11
Fig. 2.1-1	15	Fig. 2.4-15		Fig. 2.5-8	11
Fig. 2.1-2	11	(Sh 1 of 4)	11	Fig. 2.5-9	11
Fig. 2.1-3	11	(Sh 2 of 4)	11	Fig. 2.5-10	
Fig. 2.1-4	15	(Sh 3 of 4)	11	(Sh 1 of 3)	11
Fig. 2.1-5	11	(Sh 4 of 4)	11	(Sh 2 of 3)	11
Fig. 2.1-6	11	Fig. 2.4-16	11	(Sh 3 of 3)	11
Fig. 2.1-7	11	Fig. 2.4-17	11		
Fig. 2.1-8	11	Fig. 2.4-18	11	Fig. 2.5-11	15
Fig. 2.1-9	11	Fig. 2.4-19		Fig. 2.5-12	15
Fig. 2.1-10	11	(Sh 1 of 2)	11	Fig. 2.5-13	11
Fig. 2.1-11	11	(Sh 2 of 2)	11	Fig. 2.5-14	15
Fig. 2.1-12	11	Fig. 2.4-20	11	Fig. 2.5-15	11
Fig. 2.1-13	11	Fig. 2.4-21	11	(Sh 1 of 3)	11
Fig. 2.1-14	11	Fig. 2.4-22a	15	(Sh 2 of 3)	11
Fig. 2.1-15	15	Fig. 2.4-22b	15	(Sh 3 of 3)	11
		Fig. 2.4-22c	15	Fig. 2.5-16	11
<b>2.2 Tab</b>	--	Fig. 2.4-23	15	Fig. 2.5-17	11
Fig. 2.2-1	15	Fig. 2.4-25	19	Fig. 2.5-18	15
Fig. 2.2-2	11	Fig. 2.4-25A	16	Fig. 2.5-19	15
Fig. 2.2-3A	16	Fig. 2.4-26	15	Fig. 2.5-20	11
Fig. 2.2-3B	16	Fig. 2.4-27	11	Fig. 2.5-21	15
Fig. 2.2-4	18	Fig. 2.4-28	16	Fig. 2.5-22	15
		Fig. 2.4-29	15	Fig. 2.5-23	11
<b>2.3 Tab</b>	--	Fig. 2.4-30	15	Fig. 2.5-24	11
		Fig. 2.4-31	11	Fig. 2.5-24A	11
Fig. 2.3-1	11	Fig. 2.4-32	11	Fig. 2.5-25	11
Fig. 2.3-2	11	Fig. 2.4-33	15	Fig. 2.5-26	11

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
Fig. 2.5-27	11	(Sh 1 of 3)	11	<b>2B Tab</b>	--
Fig. 2.5-28	11	(Sh 2 of 3)	11	None	
Fig. 2.5-28A	11	(Sh 3 of 3)	11		
Fig. 2.5-29	11	Fig. 2.5-58		<b>2C Tab</b>	--
Fig. 2.5-30	11	(Sh 1 of 3)	11	None	
Fig. 2.5-30A	11	(Sh 2 of 3)	11		
Fig. 2.5-30B	11	(Sh 3 of 3)	11		
Fig. 2.5-30C	11	Fig. 2.5-59	11	<b>2D Tab</b>	--
Fig. 2.5-30D	11	Fig. 2.5-60	11		
Fig. 2.5-30E	11	Fig. 2.5-61	11	Fig. 2D-1	11
Fig. 2.5-30F	11	Fig. 2.5-62	11	Fig. 2D-2	11
Fig. 2.5-30G	11	Fig. 2.5-63	11	Fig. 2D-3	11
Fig. 2.5-30H	11	Fig. 2.5-64	11	Fig. 2D-4	11
Fig. 2.5-30I	11	Fig. 2.5-65	15	Fig. 2D-5	11
Fig. 2.5-30J	11	Fig. 2.5-66	15	Fig. 2D-6	11
Fig. 2.5-31	11	Fig. 2.5-67	11		
Fig. 2.5-31A	11	Fig. 2.5-68	11	<b>2E Tab</b>	--
Fig. 2.5-31B	11	Fig. 2.5-69	11	None	
Fig. 2.5-32	11	Fig. 2.5-70	11		
Fig. 2.5-33	11	Fig. 2.5-71	11	<b>2F Tab</b>	--
Fig. 2.5-34	11	Fig. 2.5-72	11	None	
Fig. 2.5-35	11	Fig. 2.5-73	11		
Fig. 2.5-35A	11	Fig. 2.5-74	11	<b>2G Tab</b>	--
Fig. 2.5-35B	11	Fig. 2.5-75	11	Fig. 2G-1	15
Fig. 2.5-35C	11	Fig. 2.5-76	11		
Fig. 2.5-36	11	Fig. 2.5-77	11	<b>CHAPTER 3 TAB</b>	--
Fig. 2.5-36A	11	Fig. 2.5-78	11		
Fig. 2.5-36B	11	Fig. 2.5-79	11	<b>3.1 Tab</b>	--
Fig. 2.5-36C	11	Fig. 2.5-80	11	None	
Fig. 2.5-36D	11	Fig. 2.5-81	11		
Fig. 2.5-37	11	Fig. 2.5-82	11	<b>3.2 Tab</b>	
Fig. 2.5-37A	11	Fig. 2.5-83	11	None	
Fig. 2.5-37B	11	Fig. 2.5-84	11		
Fig. 2.5-38	11	Fig. 2.5-85	11	<b>3.3 Tab</b>	
Fig. 2.5-38A	11	Fig. 2.5-86	11	None	
Fig. 2.5-38B	11	Fig. 2.5-87	11		
Fig. 2.5-38C	11	Fig. 2.5-88	11	<b>3.4 Tab</b>	--
Fig. 2.5-38D	11	Fig. 2.5-89	11	None	
Fig. 2.5-39	11	Fig. 2.5-90	11		
Fig. 2.5-39A	11	Fig. 2.5-91	15	<b>3.5 Tab</b>	--
Fig. 2.5-39B	11	Fig. 2.5-92	12		
Fig. 2.5-39C	11	Fig. 2.5-93	12	Fig. 3.5-1	11
Fig. 2.5-39D	11	Fig. 2.5-94	17	Fig. 3.5-2	11
Fig. 2.5-39E	11	Fig. 2.5-95	17	Fig. 3.5-3	11
Fig. 2.5-40	11	Fig. 2.5-96	17	Fig. 3.5-4	11
Fig. 2.5-41	11	Fig. 2.5-97	17	Fig. 3.5-5	16
Fig. 2.5-42	11			Fig. 3.5-6	16
Fig. 2.5-43	11	<b>2A Tab</b>	--	Fig. 3.5-7	11
Fig. 2.5-44	11				
Fig. 2.5-45	11	Fig. 2A-1	11	<b>3.6 Tab</b>	--
Fig. 2.5-46	11	Fig. 2A-2	11		
Fig. 2.5-47	11	Fig. 2A-3	11	Fig. 3.6-1	
Fig. 2.5-48	11	Fig. 2A-4	11	(Sh 1 of 2)	11
Fig. 2.5-49	11	Fig. 2A-5	11	(Sh 2 of 2)	11
Fig. 2.5-50	11	Fig. 2A-6	19	Fig. 3.6-2	17
Fig. 2.5-51	11	Fig. 2A-7	11	Fig. 3.6-3	17
Fig. 2.5-52	11	Fig. 2A-8	11	Fig. 3.6-4	17
Fig. 2.5-53	11	Fig. 2A-9	11	Fig. 3.6-5	17
Fig. 2.5-54	11	Fig. 2A-10	11	Fig. 3.6-6	17
Fig. 2.5-55	11	Fig. 2A-11	11	Fig. 3.6-7	17
Fig. 2.5-56	11	(Sh 1 of 4)	11	Fig. 3.6-8	17
(Sh 1 of 3)	11	(Sh 2 of 4)	11	Fig. 3.6-9	17
(Sh 2 of 3)	16	(Sh 3 of 4)	11	Fig. 3.6-10	14
(Sh 3 of 3)	16	(Sh 4 of 4)	11	Fig. 3.6-11	17
Fig. 2.5-57				Fig. 3.6-12	17

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
Fig. 3.6-13	17	(Sh 2 of 12)	11	Fig. 3.8-2	15
Fig. 3.6-14	17	(Sh 3 of 12)	11	Fig. 3.8-3	15
Fig. 3.6-15	17	(Sh 4 of 12)	11	Fig. 3.8-4	15
Fig. 3.6-16	17	(Sh 5 of 12)	11	<b>3.9 Tab</b>	--
Fig. 3.6-17	17	(Sh 6 of 12)	11	Fig. 3.9-1	11
Fig. 3.6-18	17	(Sh 7 of 12)	11	Fig. 3.9.2-1	12
Fig. 3.6-19	17	(Sh 8 of 12)	11	Fig. 3.9.2-2	12
Fig. 3.6-20	17	(Sh 9 of 12)	11	Fig. 3.9.2-3	12
Fig. 3.6-21	19	(Sh 10 of 12)	11	Fig. 3.9.2-4	12
Fig. 3.6-22	17	(Sh 11 of 12)	11	Fig. 3.9.2-5	12
Fig. 3.6-23	17	(Sh 12 of 12)	11	Fig. 3.9.2-6	12
Fig. 3.6-24	17	Fig. 3.7-23		Fig. 3.9.2-7	12
Fig. 3.6-25	17	(Sh 1 of 22)	11	Fig. 3.9.2-8	12
Fig. 3.6-26	17	(Sh 2 of 22)	11	Fig. 3.9.2-9	12
Fig. 3.6-27	19	(Sh 3 of 22)	11	Fig. 3.9.2-10	12
Fig. 3.6-27A	17	(Sh 4 of 22)	11	Fig. 3.9.2-11	12
Fig. 3.6-28	17	(Sh 5 of 22)	11	Fig. 3.9.2-11A	13
Fig. 3.6-29	17	(Sh 6 of 22)	11	Fig. 3.9.2-12	12
Fig. 3.6-30	17	(Sh 7 of 22)	11	Fig. 3.9.2-13	12
Fig. 3.6-31	17	(Sh 8 of 22)	11	Fig. 3.9.3-1	12
Fig. 3.6-32	17	(Sh 9 of 22)	11	Fig. 3.9.4-1	11
(Sh 1 of 2)	17	(Sh 10 of 22)	11	Fig. 3.9.5-1	11
(Sh 2 of 2)	17	(Sh 11 of 22)	11	Fig. 3.9.5-2	11
Fig. 3.6-33	17	(Sh 12 of 22)	11	Fig. 3.9.5-3	11
<b>3.7 Tab</b>	--	(Sh 13 of 22)	11	Fig. 3.9.5-4	11
Fig. 3.7-1	11	(Sh 14 of 22)	11	Fig. 3.9.5-5	11
Fig. 3.7-2	11	(Sh 15 of 22)	11	Fig. 3.9.5-6	11
Fig. 3.7-3	11	(Sh 16 of 22)	11	Fig. 3.9.5-7	11
Fig. 3.7-4	11	(Sh 17 of 22)	11	Fig. 3.9A-1	12
Fig. 3.7-5	11	(Sh 18 of 22)	11	Fig. 3.9A-2	12
Fig. 3.7-6	11	(Sh 19 of 22)	11	Fig. 3.9A-3	12
Fig. 3.7-7	11	(Sh 20 of 22)	11	Fig. 3.9A-4	12
Fig. 3.7-8	11	(Sh 21 of 22)	11	Fig. 3.9A-5	12
Fig. 3.7-9	11	(Sh 22 of 22)	11	Fig. 3.9A-6	12
Fig. 3.7-9A	15	Fig. 3.7-24	11	Fig. 3.9A-7	12
Fig. 3.7-10	11	Fig. 3.7-25	11	Fig. 3.9A-8	12
Fig. 3.7-11	11	Fig. 3.7-26	11	<b>3.10 Tab</b>	
Fig. 3.7-12	11	Fig. 3.7-27	11	None	
Fig. 3.7-13	11	Fig. 3.7-28	11	<b>3.11 Tab</b>	--
Fig. 3.7-14	11	Fig. 3.7-29	11	None	
Fig. 3.7-15	11	Fig. 3.7-30	11	<b>3A Tab</b>	--
Fig. 3.7-16	11	Fig. 3.7-31	11	Fig. 3A-1	11
Fig. 3.7-17	11	Fig. 3.7-32	11	Fig. 3A-2	11
Fig. 3.7-18	11	Fig. 3.7-33	11	Fig. 3A-3	11
Fig. 3.7-19	11	Fig. 3.7-34	11	Fig. 3A-4	
Fig. 3.7-20	11	Fig. 3.7-35	11	(Sh 1 of 2)	11
Fig. 3.7-21	11	Fig. 3.7-36	11	(Sh 2 of 2)	11
(Sh 1 of 14)	11	Fig. 3.7-37	11	Fig. 3A-4A	11
(Sh 2 of 14)	11	Fig. 3.7-38	11	Fig. 3A-5	11
(Sh 3 of 14)	11	Fig. 3.7-39	11	Fig. 3A-6	11
(Sh 4 of 14)	11	Fig. 3.7.40-1	12	Fig. 3A-6A	11
(Sh 5 of 14)	11	Fig. 3.7.40-2	12	Fig. 3A-6B	11
(Sh 6 of 14)	11	Fig. 3.7.40-3	12	Fig. 3A-7	11
(Sh 7 of 14)	11	Fig. 3.7.40-4	16	Fig. 3A-8	11
(Sh 8 of 14)	11	Fig. 3.7.40-4A	13	<b>3B Tab</b>	--
(Sh 9 of 14)	11	Fig. 3.7.40-5	12	Fig. 3B.2-1	11
(Sh 10 of 14)	11	Fig. 3.7.40-5A	13	Fig. 3B.2-2	11
(Sh 11 of 14)	11	Fig. 3.7.40-6	12		
(Sh 12 of 14)	11	Fig. 3.7.40-7	12		
(Sh 13 of 14)	11	Fig. 3.7.40-8	12		
(Sh 14 of 14)	11	Fig. 3.7.40-8A	13		
Fig. 3.7-22	11	<b>3.8 Tab</b>	--		
(Sh 1 of 12)	11	Fig. 3.8-1	15		

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
Fig. 3B.2-3	11	(Sh 2 of 2)	11	Fig. 3B.10-11	11
Fig. 3B.2-4	11	Fig. 3B.4-12		Fig. 3B.10-12	11
Fig. 3B.2-5	11	(Sh 1 of 2)	11	Fig. 3B.10-13	11
Fig. 3B.2-6	11	(Sh 2 of 2)	11	Fig. 3B.10-14	11
Fig. 3B.2-7	11	Fig. 3B.4-13		Fig. 3B.10-15	11
Fig. 3B.2-8	11	(Sh 1 of 2)	11	Fig. 3B.10-16	11
Fig. 3B.2-9	11	(Sh 2 of 2)	11	Fig. 3B.10-17	11
Fig. 3B.2-10	11	Fig. 3B.4-14		Fig. 3B.10-18	11
Fig. 3B.2-11	11	(Sh 1 of 2)	11	Fig. 3B.10-19	11
Fig. 3B.2-12	11	(Sh 2 of 2)	11	Fig. 3B.10-20	11
Fig. 3B.2-13	11	Fig. 3B.4-15		Fig. 3B.10-21	11
Fig. 3B.2-14	11	(Sh 1 of 2)	11	Fig. 3B.10-22	11
Fig. 3B.2-15	11	(Sh 2 of 2)	11	Fig. 3B.10-23	11
Fig. 3B.2-16	11	Fig. 3B.4-16	11	Fig. 3B.11-1	11
Fig. 3B.2-17	11	Fig. 3B.4-17	11	Fig. 3B.11-2	11
Fig. 3B.2-18	11	Fig. 3B.4-18	11	Fig. 3B.13-1	11
Fig. 3B.2-19	11	Fig. 3B.4-19	11	Fig. 3B.13-2	11
Fig. 3B.2-20	11	Fig. 3B.4-20	11	Fig. 3B.13-3	
Fig. 3B.3-1	11	Fig. 3B.4-21	11	(Sh 1 of 3)	11
Fig. 3B.3-2	11	Fig. 3B.4-22	11	(Sh 2 of 3)	11
Fig. 3B.3-3	11	Fig. 3B.4-23		(Sh 3 of 3)	11
Fig. 3B.3-4	11	(Sh 1 of 2)	11	Fig. 3B.13-4	11
Fig. 3B.3-5	11	(Sh 2 of 2)	11	Fig. 3B.13-5	11
Fig. 3B.3-6	11	Fig. 3B.6-1	11	Fig. 3B.13-6	
Fig. 3B.3-7	11	Fig. 3B.6-2	11	(Sh 1 of 2)	11
Fig. 3B.3-8	11	Fig. 3B.7-1	11	(Sh 2 of 2)	11
Fig. 3B.3-9	11	Fig. 3B.7-2	11	Fig. 3B.13-7	11
Fig. 3B.3-10	11	Fig. 3B.7-3	11	Fig. 3B.13-8	11
Fig. 3B.3-11	11	Fig. 3B.8-1	11	Fig. 3B.13-9	11
Fig. 3B.3-12	11	Fig. 3B.8-2	11	Fig. 3B.13-10	11
Fig. 3B.3-13	11	Fig. 3B.8-3	11	Fig. 3B.13-11	11
Fig. 3B.3-14	11	Fig. 3B.8-4	11	Fig. 3B.13-12	11
Fig. 3B.3-15	11	Fig. 3B.8-5	11	Fig. 3B.13-13	11
Fig. 3B.3-16	11	Fig. 3B.8-6	11	Fig. 3B.13-14	11
Fig. 3B.3-17	11	Fig. 3B.8-7	11	Fig. 3B.13-15	11
Fig. 3B.3-18	11	Fig. 3B.8-8	11	Fig. 3B.13-16	11
Fig. 3B.3-19	11	Fig. 3B.8-9	11	Fig. 3B.13-17	11
Fig. 3B.4-1		Fig. 3B.8-10	11	Fig. 3B.15-1	11
(Sh 1 of 2)	11	Fig. 3B.8-11	11	Fig. 3B.15-2	11
(Sh 2 of 2)	11	Fig. 3B.8-12	11	Fig. 3B.17-1	11
Fig. 3B.4-2		Fig. 3B.8-13	11	Fig. 3B.17-2	11
(Sh 1 of 2)	11	Fig. 3B.8-14	11	Fig. 3B.17-3	11
(Sh 2 of 2)	11	Fig. 3B.8-15	11	Fig. 3B.17-4	11
Fig. 3B.4-3		Fig. 3B.8-16	11	Fig. 3B.17-5	11
(Sh 1 of 2)	11	Fig. 3B.9-1	11		
(Sh 2 of 2)	11	Fig. 3B.9-2	11	<b>3C Tab</b>	--
Fig. 3B.4-4		Fig. 3B.9-3	11		
(Sh 1 of 2)	11	Fig. 3B.9-4	11	Fig. 3C.2-1	11
(Sh 2 of 2)	11	Fig. 3B.9-5	11	Fig. 3C.2-2	11
Fig. 3B.4-5		Fig. 3B.9-6	11	Fig. 3C.2-3	11
(Sh 1 of 2)	11	Fig. 3B.9-7	11	Fig. 3C.3-1	11
(Sh 2 of 2)	11	Fig. 3B.9-8	11	Fig. 3C.3-2	11
Fig. 3B.4-6		Fig. 3B.9-9	11		
(Sh 1 of 2)	11	Fig. 3B.9-10	11	<b>3D Tab</b>	--
(Sh 2 of 2)	11	Fig. 3B.9-11	11		
Fig. 3B.4-7	11	Fig. 3B.10-1	11	Fig. 3D-1	11
Fig. 3B.4-8	15	Fig. 3B.10-2	11	Fig. 3D-2	11
Fig. 3B.4-9		Fig. 3B.10-3	11	Fig. 3D-3	11
(Sh 1 of 2)	11	Fig. 3B.10-4	11	Fig. 3D-4	11
(Sh 2 of 2)	11	Fig. 3B.10-5	11	Fig. 3D-5	11
Fig. 3B.4-10		Fig. 3B.10-6	11	Fig. 3D-6	11
(Sh 1 of 2)	11	Fig. 3B.10-7	11	Fig. 3D-7	11
(Sh 2 of 2)	11	Fig. 3B.10-8	11	Fig. 3D-8	11
Fig. 3B.4-11		Fig. 3B.10-9	11	Fig. 3D-9	11
(Sh 1 of 2)	11	Fig. 3B.10-10	11	Fig. 3D-10	11

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
Fig. 3D-11	11	Fig. 4.2-9	11	(Sh 3 of 20)	12
Fig. 3D-12	11	Fig. 4.2-9A	12	(Sh 4 of 20)	12
Fig. 3D-13	11	Fig. 4.2-10	12	(Sh 5 of 20)	12
Fig. 3D-14	11	Fig. 4.2-11	11	(Sh 6 of 20)	12
Fig. 3D-15	11	Fig. 4.2-12	11	(Sh 7 of 20)	12
Fig. 3D-16	11	Fig. 4.2-13	11	(Sh 8 of 20)	12
Fig. 3D-17	11	Fig. 4.2-14	11	(Sh 9 of 20)	12
Fig. 3D-18	11	<b>4.3 Tab</b>	--	(Sh 10 of 20)	12
Fig. 3D-19	11			(Sh 11 of 20)	12
Fig. 3D-20	11	Fig. 4.3-1	11	(Sh 12 of 20)	12
Fig. 3D-21	11	Fig. 4.3-2	11	(Sh 13 of 20)	12
Fig. 3D-22	11	Fig. 4.3-3	11	(Sh 14 of 20)	12
Fig. 3D-23	11	Fig. 4.3-4	11	(Sh 15 of 20)	12
Fig. 3D-24	11	Fig. 4.3-6	14	(Sh 16 of 20)	12
Fig. 3D-25	11	Fig. 4.3-7	11	(Sh 17 of 20)	12
Fig. 3D-26	11	Fig. 4.3-8	11	(Sh 18 of 20)	12
Fig. 3D-27	11	Fig. 4.3-9	11	(Sh 19 of 20)	12
Fig. 3D-28	11	Fig. 4.3-10	11	(Sh 20 of 20)	12
Fig. 3D-29	11	Fig. 4.3-11	14	Fig. 5.2-2	
Fig. 3D-30	11	Fig. 4.3-12	11	(Sh 1 of 15)	12
Fig. 3D-31	11	Fig. 4.3-13	11	(Sh 2 of 15)	12
Fig. 3D-32	11	Fig. 4.3-14	11	(Sh 3 of 15)	12
Fig. 3D-33	11	Fig. 4.3-15	11	(Sh 4 of 15)	12
Fig. 3D-34	11	Fig. 4.3-16	11	(Sh 5 of 15)	12
Fig. 3D-35	11			(Sh 6 of 15)	12
Fig. 3D-36	11	<b>4.4 Tab</b>	--	(Sh 7 of 15)	12
Fig. 3D-37	11			(Sh 8 of 15)	12
<b>3E Tab</b>	--	Fig. 4.4-1	11	(Sh 9 of 15)	12
None		Fig. 4.4-2	11	(Sh 10 of 15)	12
		Fig. 4.4-3	11	(Sh 11 of 15)	12
<b>3F Tab</b>	--	Fig. 4.4-4	11	(Sh 12 of 15)	12
None		Fig. 4.4-5	11	(Sh 13 of 15)	12
		Fig. 4.4-6	11	(Sh 14 of 15)	12
<b>3G Tab</b>	--	Fig. 4.4-7	11	(Sh 15 of 15)	12
		Fig. 4.4-8	11	Fig. 5.2-3	
Fig. 3G-1	11	Fig. 4.4-9	11	(Sh 1 of 18)	12
Fig. 3G-2	11	Fig. 4.4-10	11	(Sh 2 of 18)	12
Fig. 3G-3	11	Fig. 4.4-11	11	(Sh 3 of 18)	12
Fig. 3G-4	11	Fig. 4.4-12	11	(Sh 4 of 18)	12
Fig. 3G-5	11	Fig. 4.4-13	11	(Sh 5 of 18)	12
		Fig. 4.4-14	15	(Sh 6 of 18)	12
<b>3H Tab</b>	--	Fig. 4.4-15	11	(Sh 7 of 18)	12
		Fig. 4.4-16	11	(Sh 8 of 18)	12
Fig. 3H-1	11	<b>4.5 Tab</b>	--	(Sh 9 of 18)	12
Fig. 3H-2	11	None		(Sh 10 of 18)	12
Fig. 3H-3	11			(Sh 11 of 18)	12
		<b>4.6 Tab</b>	--	(Sh 12 of 18)	12
<b>CHAPTER 4 TAB</b>	--	None		(Sh 13 of 18)	12
				(Sh 14 of 18)	12
<b>4.1 Tab</b>	--	<b>4A Tab</b>	--	(Sh 15 of 18)	12
		None		(Sh 16 of 18)	12
Fig. 4.1-1	11			(Sh 17 of 18)	12
		<b>CHAPTER 5 TAB</b>	--	(Sh 18 of 18)	12
<b>4.2 Tab</b>	--			Fig. 5.2-6	12
		<b>5.1 Tab</b>	--	<b>5.3 Tab</b>	--
Fig. 4.2-1	11	Fig. 5.1-3		Fig. 5.3-1	11
Fig. 4.2-2	12	(Sh 1 of 2)	15	Fig. 5.3-2	11
Fig. 4.2-3	16	(Sh 2 of 2)	15	Fig. 5.3-3	11
Fig. 4.2-4	16			Fig. 5.3-3A	11
Fig. 4.2-5	16	<b>5.2 Tab</b>	--	Fig. 5.3-4	11
Fig. 4.2-6	11			Fig. 5.3-5	15
Fig. 4.2-7	11	Fig. 5.2-1			
Fig. 4.2-8	12	(Sh 1 of 20)	12		
Fig. 4.2-8A	12	(Sh 2 of 20)	12		

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
<b>5.4 Tab</b>	--	Fig. 6.2.1-10		Fig. 6.3-2E	
Fig. 5.4-1	11	(Sh 1 of 2)	15	(Sh 1 of 2)	11
Fig. 5.4-2	15	(Sh 2 of 2)	15	(Sh 2 of 2)	11
Fig. 5.4-3	15	Fig. 6.2.1-11	15	Fig. 6.3-2F	
Fig. 5.4-4	11	Fig. 6.2.1-12		(Sh 1 of 2)	11
Fig. 5.4-5	11	(Sh 1 of 2)	15	(Sh 2 of 2)	11
Fig. 5.4-6	11	(Sh 2 of 2)	15	Fig. 6.3-2G	
Fig. 5.4-7	11	Fig. 6.2.1-13	11	(Sh 1 of 2)	11
Fig. 5.4-8	15	Fig. 6.2.1-14	11	(Sh 2 of 2)	11
Fig. 5.4-9	11	Fig. 6.2.1-15	11	Fig. 6.3-2H	
Fig. 5.4-10	11	Fig. 6.2.1-16	11	(Sh 1 of 2)	11
Fig. 5.4-11	11	Fig. 6.2.1-18	15	(Sh 2 of 2)	11
Fig. 5.4-12	11	Fig. 6.2.1-19	11	Fig. 6.3-2I	
Fig. 5.4-13	11	Fig. 6.2.1-21	12	(Sh 1 of 2)	11
Fig. 5.4-14	11	Fig. 6.2.1-22	12	(Sh 2 of 2)	11
Fig. 5.4-15	11	Fig. 6.2.1-23	12	Fig. 6.3-2J	
		Fig. 6.2.1-24	12	(Sh 1 of 2)	11
		Fig. 6.2.1-25	11	(Sh 2 of 2)	11
<b>5A Tab</b>	--			Fig. 6.3.2-2	11
None		<b>6.2.2 Tab</b>	--	Fig. 6.3.2-3	11
		None		Fig. 6.3.3.2-1A	16
<b>5B Tab</b>	--			Fig. 6.3.3.2-1B	16
Fig. 5B-1	11	<b>6.2.3 Tab</b>	--	Fig. 6.3.3.2-1C	16
Fig. 5B-2	11	None		Fig. 6.3.3.2-1D	16
Fig. 5B-3	11			Fig. 6.3.3.2-1E	16
Fig. 5B-4	11	<b>6.2.4 Tab</b>	--	Fig. 6.3.3.2-1F	16
				Fig. 6.3.3.2-1G	16
5D Tab		Fig. 6.2.4-1		Fig. 6.3.3.2-1H	16
Fig. 5D-1A	15	(Sh 1 of 10)	18	Fig. 6.3.3.2-2A	16
Fig. 5D-1B	15	(Sh 2 of 10)	18	Fig. 6.3.3.2-2B	16
Fig. 5D-2	13	(Sh 3 of 10)	18	Fig. 6.3.3.2-2C	16
Fig. 5D-3	13	(Sh 4 of 10)	18	Fig. 6.3.3.2-2D	16
Fig. 5D-4A	13	(Sh 5 of 10)	18	Fig. 6.3.3.2-2E	16
Fig. 5D-4B	13	(Sh 5A of 10)	18	Fig. 6.3.3.2-2F	16
		(Sh 6 of 10)	18	Fig. 6.3.3.2-2G	16
		(Sh 6A of 10)	18	Fig. 6.3.3.2-2H	16
5E Tab		(Sh 7 of 10)	18	Fig. 6.3.3.2-3A	16
Fig. 5E-1A	15	(Sh 8 of 10)	18	Fig. 6.3.3.2-3B	16
Fig. 5E-1B	15	(Sh 9 of 10)	18	Fig. 6.3.3.2-3C	16
Fig. 5E-2	13	(Sh 9A of 10)	18	Fig. 6.3.3.2-3D	16
Fig. 5E-3	13	(Sh 10 of 10)	18	Fig. 6.3.3.2-3E	16
Fig. 5E-4	13			Fig. 6.3.3.2-3F	16
		<b>6.2.5 Tab</b>	--	Fig. 6.3.3.2-3G	16
				Fig. 6.3.3.2-3H	16
		Fig. 6.2.5-1	15	Fig. 6.3.3.2-3I	16
		Fig. 6.2.5-2	15	Fig. 6.3.3.2-3J	16
<b>CHAPTER 6 TAB</b>	--			Fig. 6.3.3.2-3K	16
<b>6.1 Tab</b>	--	<b>6.2.6 Tab</b>	--	Fig. 6.3.3.2-3L	16
None		None		Fig. 6.3.3.2-3M	16
				Fig. 6.3.3.2-3N	16
<b>6.2.1 Tab</b>	--	<b>6.3 Tab</b>	--	Fig. 6.3.3.2-3O	16
Fig. 6.2.1-1	15			Fig. 6.3.3.2-3P	16
Fig. 6.2.1-2	15	Fig. 6.3-2A		Fig. 6.3.3.2-3Q	16
Fig. 6.2.1-3	15	(Sh 1 of 2)	11	Fig. 6.3.3.2-3R	16
Fig. 6.2.1-4	15	(Sh 2 of 2)	11	Fig. 6.3.3.2-3S	16
Fig. 6.2.1-5	15	Fig. 6.3-2B		Fig. 6.3.3.2-3T	16
Fig. 6.2.1-6	15	(Sh 1 of 2)	11	Fig. 6.3.3.2-3U	16
(Sh 1 of 3)	15	(Sh 2 of 2)	11	Fig. 6.3.3.2-4A	16
(Sh 2 of 3)	15	Fig. 6.3-2C		Fig. 6.3.3.2-4B	16
(Sh 3 of 3)	15	(Sh 1 of 2)	11	Fig. 6.3.3.2-4C	16
Fig. 6.2.1-7	15	(Sh 2 of 2)	11	Fig. 6.3.3.2-4D	16
Fig. 6.2.1-8	15	Fig. 6.3-2D		Fig. 6.3.3.2-4E	16
Fig. 6.2.1-9	15	(Sh 1 of 2)	11	Fig. 6.3.3.2-4F	16
		(Sh 2 of 2)	11	Fig. 6.3.3.2-4G	16
				Fig. 6.3.3.2-4H	16

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
Fig. 6.3.3.2-5A	12	Fig. 6.3.3.3-3E	12	<b>6.6 Tab</b>	--
Fig. 6.3.3.2-5B	12	Fig. 6.3.3.3-3F	12	None	
Fig. 6.3.3.2-5C	12	Fig. 6.3.3.3-3G	12		
Fig. 6.3.3.2-5D	12	Fig. 6.3.3.3-3H	12	<b>6A Tab</b>	--
Fig. 6.3.3.2-5E	12	Fig. 6.3.3.3-4A	12	Fig. 6A-1	11
Fig. 6.3.3.2-5F	12	Fig. 6.3.3.3-4B	12	Fig. 6A-2	11
Fig. 6.3.3.2-5G	12	Fig. 6.3.3.3-4C	12	Fig. 6A-3	11
Fig. 6.3.3.2-5H	15	Fig. 6.3.3.3-4D	12	Fig. 6A-4	11
Fig. 6.3.3.2-6A	12	Fig. 6.3.3.3-4E	12	Fig. 6A-5	15
Fig. 6.3.3.2-6B	12	Fig. 6.3.3.3-4F	12		
Fig. 6.3.3.2-6C	12	Fig. 6.3.3.3-4G	12	<b>CHAPTER 7 TAB</b>	--
Fig. 6.3.3.2-6D	12	Fig. 6.3.3.3-4H	12		
Fig. 6.3.3.2-6E	12	Fig. 6.3.3.3-5A	12	<b>7.1 Tab</b>	--
Fig. 6.3.3.2-6F	12	Fig. 6.3.3.3-5B	12	Fig. 7.1-1	11
Fig. 6.3.3.2-6G	12	Fig. 6.3.3.3-5C	12		
Fig. 6.3.3.2-6H	15	Fig. 6.3.3.3-5D	12	<b>7.2 Tab</b>	--
Fig. 6.3.3.2-6I	12	Fig. 6.3.3.3-5E	12	Fig. 7.2-0	11
Fig. 6.3.3.2-6J	12	Fig. 6.3.3.3-5F	12	Fig. 7.2-0A	11
Fig. 6.3.3.2-6K	12	Fig. 6.3.3.3-5G	12	Fig. 7.2-0B	11
Fig. 6.3.3.2-6L	12	Fig. 6.3.3.3-5H	12	Fig. 7.2-0C	11
Fig. 6.3.3.2-6M	12	Fig. 6.3.3.3-6A	12	Fig. 7.2-0D	19
Fig. 6.3.3.2-6N	15	Fig. 6.3.3.3-6B	12	Fig. 7.2-0D A	14
Fig. 6.3.3.2-6O	15	Fig. 6.3.3.3-6C	12	Fig. 7.2-0E	11
Fig. 6.3.3.2-6P	15	Fig. 6.3.3.3-6D	12	Fig. 7.2-0F	11
Fig. 6.3.3.2-6Q	15	Fig. 6.3.3.3-6E	12	Fig. 7.2-0G	11
Fig. 6.3.3.2-6R	12	Fig. 6.3.3.3-6F	12	Fig. 7.2-1	11
Fig. 6.3.3.2-6S	12	Fig. 6.3.3.3-6G	12	Fig. 7.2-2	11
Fig. 6.3.3.2-6T	12	Fig. 6.3.3.3-6H	12	Fig. 7.2-3	11
Fig. 6.3.3.2-6U	12	Fig. 6.3.3.3-7A	12	Fig. 7.2-5	11
Fig. 6.3.3.2-7A	12	Fig. 6.3.3.3-7B	12	Fig. 7.2-7	11
Fig. 6.3.3.2-7B	12	Fig. 6.3.3.3-7C	12	Fig. 7.2-8	11
Fig. 6.3.3.2-7C	12	Fig. 6.3.3.3-7D	12	Fig. 7.2-9	11
Fig. 6.3.3.2-7D	12	Fig. 6.3.3.3-7E	12	Fig. 7.2-10	11
Fig. 6.3.3.2-7E	12	Fig. 6.3.3.3-7F	12	Fig. 7.2-11	11
Fig. 6.3.3.2-7F	12	Fig. 6.3.3.3-7G	12	Fig. 7.2-12	11
Fig. 6.3.3.2-7G	12	Fig. 6.3.3.3-7H	12	Fig. 7.2-13	18
Fig. 6.3.3.2-7H	12	Fig. 6.3.3.3-8	12	Fig. 7.2-14	12
Fig. 6.3.3.2-8A	12	Fig. 6.3.3.4-1	11	<b>7.3 Tab</b>	--
Fig. 6.3.3.2-8B	12	Fig. 6.3.3.4-2	11	Fig. 7.3-1	11
Fig. 6.3.3.2-8C	12	Fig. 6.3.3.4-3	11	Fig. 7.3-2	11
Fig. 6.3.3.2-8D	12	Fig. 6.3.3.4-4	11	Fig. 7.3-3	11
Fig. 6.3.3.2-8E	12	Fig. 6.3.3.4-5	11	Fig. 7.3-4	11
Fig. 6.3.3.2-8F	12	Fig. 6.3.3.4-6	11	Fig. 7.3-5	11
Fig. 6.3.3.2-8G	12	Fig. 6.3.3.5-1	11	Fig. 7.3-6	11
Fig. 6.3.3.2-8H	12	(Sh 1 of 6)	11	Fig. 7.3-7A	11
Fig. 6.3.3.3-1A	12	(Sh 2 of 6)	11	Fig. 7.3-7B	11
Fig. 6.3.3.3-1B	12	(Sh 3 of 6)	11	Fig. 7.3-7C	11
Fig. 6.3.3.3-1C	12	(Sh 4 of 6)	11	Fig. 7.3-7D	11
Fig. 6.3.3.3-1D	12	(Sh 5 of 6)	11	Fig. 7.3-7E	11
Fig. 6.3.3.3-1E	12	(Sh 6 of 6)	11	Fig. 7.3-7F	11
Fig. 6.3.3.3-1F	12			Fig. 7.3-7G	11
Fig. 6.3.3.3-1G	12	<b>6.4 Tab</b>	--	Fig. 7.3-7H	11
Fig. 6.3.3.3-1H	12	Fig. 6.4-1	11	Fig. 7.3-8A	15
Fig. 6.3.3.3-2A	12			Fig. 7.3-8B	15
Fig. 6.3.3.3-2B	12	<b>6.5 Tab</b>	--	Fig. 7.3-9A	11
Fig. 6.3.3.3-2C	12	Fig. 6.5-1	12	Fig. 7.3-9B	11
Fig. 6.3.3.3-2D	12	Fig. 6.5-2	12	Fig. 7.3-9C	11
Fig. 6.3.3.3-2E	12	Fig. 6.5-3	12	Fig. 7.3-10	12
Fig. 6.3.3.3-2F	12	Fig. 6.5-4	18	Fig. 7.3-11A	12
Fig. 6.3.3.3-2G	12	Fig. 6.5-5	12	Fig. 7.3-11B	12
Fig. 6.3.3.3-2H	12	Fig. 6.5-6	12	Fig. 7.3-11C	12
Fig. 6.3.3.3-3A	12				
Fig. 6.3.3.3-3B	12				
Fig. 6.3.3.3-3C	12				
Fig. 6.3.3.3-3D	12				



PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
<b>7.4 Tab</b>	--	<b>8A Tab</b>	--	Fig. 10.2-3	12
Fig. 7.4-1	11	None		<b>10.3 Tab</b>	--
Fig. 7.4-2	11	<b>8B Tab</b>	--	None	
Fig. 7.4-3	11	None		<b>10.4 Tab</b>	--
Fig. 7.4-4		<b>CHAPTER 9 TAB</b>	--	Fig. 10.4-1	12
(Sh 1 of 3)	11	<b>9.1 Tab</b>	--	<b>10A Tab</b>	--
(Sh 2 of 3)	11	Fig. 9.1-1	11	None	
(Sh 3 of 3)	11	Fig. 9.1-2	11	<b>10B Tab</b>	
Fig. 7.4-5	11	Fig. 9.1-3	11	None	
Fig. 7.4-6	11	Fig. 9.1-4	11	<b>CHAPTER 11 TAB</b>	--
<b>7.5 Tab</b>	--	Fig. 9.1-5	19	<b>11.1 Tab</b>	--
Fig. 7.5-1		Fig. 9.1-7	16	Fig. 11.1-1	11
(Sh 1 of 2)	11	Fig. 9.1-7A	18	Fig. 11.1-2	11
(Sh 2 of 2)	11	Fig. 9.1-11	12	<b>11.2 Tab</b>	--
Fig. 7.5-2		<b>9.2 Tab</b>	--	None	
(Sh 1 of 2)	11	Fig. 9.2-1		<b>11.3 Tab</b>	--
(Sh 2 of 2)	11	(Sh 1 of 2)	12	None	
<b>7.6 Tab</b>	--	(Sh 2 of 2)	12	<b>11.4 Tab</b>	--
Fig. 7.6-1	17	<b>9.3 Tab</b>	--	None	
Fig. 7.6-2	12	Fig. 9.3-1	12	<b>11.5 Tab</b>	--
<b>7.7 Tab</b>	--	<b>9.4 Tab</b>	--	Fig. 11.5-1	12
Fig. 7.7-1	11	Fig. 9.4-1	12	Fig. 11.5-2	12
Fig. 7.7-2	11	<b>9.5 Tab</b>	--	Fig. 11.5-3	12
Fig. 7.7-3	11	Fig. 9.5-1	13	Fig. 11.5-4	12
Fig. 7.7-4	11	Fig. 9.5-2	12	Fig. 11.5-5	12
Fig. 7.7-5	12	Fig. 9.5-3	17	Fig. 11.5-6	12
Fig. 7.7-6	12	Fig. 9.5-5	12	<b>11A Tab</b>	--
Fig. 7.7-7	12	<b>9A Tab</b>	--	None	
Fig. 7.7-8	12	None		<b>CHAPTER 12 TAB</b>	--
Fig. 7.7-9	12	<b>9B Tab</b>	--	<b>12.1 Tab</b>	--
Fig. 7.7-11	12	Fig. 9B-3	11	None	
<b>7A Tab</b>	--	Fig. 9B-4	11	<b>12.2 Tab</b>	--
None		Fig. 9B-5	12	Fig. 12.2-1	
<b>CHAPTER 8 TAB</b>	--	Fig. 9B-6	12	(Sh 1 of 2)	11
<b>8.1 Tab</b>	--	Fig. 9B-7	12	(Sh 2 of 2)	11
Fig. 8.1-1		<b>CHAPTER 10 TAB</b>	--	Fig. 12.2-2	11
(Sh 1 of 2)	18	<b>10.1 Tab</b>	--	Fig. 12.2-3	11
(Sh 2 of 2)	18	Fig. 10.1-1		<b>12.3 Tab</b>	--
<b>8.2 Tab</b>	--	(Sh 1 of 2)	11	Fig. 12.3-1	16
Fig. 8.2-1	19	(Sh 2 of 2)	11	Fig. 12.3-2	12
Fig. 8.2-2	19	Fig. 10.1-2	17	Fig. 12.3-3	12
<b>8.3 Tab</b>	--	Fig. 10.1-3	17	Fig. 12.3-4	16
Fig. 8.3-1		<b>10.2 Tab</b>	--	<b>12.4 Tab</b>	--
(Sh 1 of 2)	19	Fig. 10.2-1	12	None	
(Sh 2 of 2)	19	Fig. 10.2-2	12		
Fig. 8.3-2	19				
Fig. 8.3-3	15				

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
<b>12.5 Tab</b>	--	<b>Fig. 15.1.3-6</b>	<b>19</b>	Fig. 15.2.3-9	16
None		Fig. 15.1.3-7	16	Fig. 15.2.3-10	16
<b>12A Tab</b>	--	Fig. 15.1.3-8	16	Fig. 15.2.3-11	16
None		Fig. 15.1.3-9	16	Fig. 15.2.3-12	16
<b>12B Tab</b>	--	Fig. 15.1.3-10	16	Fig. 15.2.3-16	16
None		Fig. 15.1.3-11	16	Fig. 15.2.3-14	16
<b>CHAPTER 13 TAB</b>	--	Fig. 15.1.3-12	16	Fig. 15.2.3-15	16
<b>13.1 Tab</b>	--	Fig. 15.1.3-13	16	Fig. 15.2.3-16	16
None		Fig. 15.1.3-14	16	Fig. 15.2.3-17	16
<b>13.2 Tab</b>	--	Fig. 15.1.3-16	16	Fig. 15.2.3-18	16
None		Fig. 15.1.4-1	16	Fig. 15.2.3-19	16
<b>13.3 Tab</b>	--	Fig. 15.1.4-2	16	Fig. 15.2.3-20	16
None		Fig. 15.1.4-3	16	Fig. 15.2.3-21	16
<b>13.4 Tab</b>	--	Fig. 15.1.4-4	16	Fig. 15.2.3-22	16
None		Fig. 15.1.4-5	16	Fig. 15.2.3-23	16
<b>13.5 Tab</b>	--	Fig. 15.1.4-6	16	Fig. 15.2.3-24	16
None		Fig. 15.1.4-7	16	Fig. 15.2.3-25	16
<b>13.6 Tab</b>	--	Fig. 15.1.4-8	16	Fig. 15.2.3-26	16
None		Fig. 15.1.4-9	16	Fig. 15.2.3-27	16
<b>13A Tab</b>	--	<b>Fig. 15.1.4-10</b>	<b>19</b>	Fig. 15.2.3-28	16
None		<b>Fig. 15.1.4-11</b>	<b>19</b>	Fig. 15.2.8-1	13
<b>13B Tab</b>	--	<b>Fig. 15.1.4-12</b>	<b>19</b>	Fig. 15.2.8-2	13
None		<b>Fig. 15.1.4-13</b>	<b>19</b>	Fig. 15.2.8-3	13
<b>13C Tab</b>	--	<b>Fig. 15.1.4-14</b>	<b>19</b>	Fig. 15.2.8-4	13
None		Fig. 15.1.5-1	15	Fig. 15.2.8-5	13
<b>13D Tab</b>	--	Fig. 15.1.5-2	15	Fig. 15.2.8-6	13
None		Fig. 15.1.5-3	15	Fig. 15.2.8-7	13
<b>13E Tab</b>	--	Fig. 15.1.5-4	15	Fig. 15.2.8-8	13
None		Fig. 15.1.5-5	15	Fig. 15.2.8-9	13
<b>13F Tab</b>	--	Fig. 15.1.5-6	15	Fig. 15.2.8-10	13
None		Fig. 15.1.5-7	15	Fig. 15.2.8-11	13
<b>CHAPTER 14 TAB</b>	--	Fig. 15.1.5-8	15	Fig. 15.2.8-12	13
<b>14.1 Tab</b>	--	Fig. 15.1.5-9	15	Fig. 15.2.8-13	13
None		Fig. 15.1.5-10	15	Fig. 15.2.8-14	13
<b>14.2 Tab</b>	--	Fig. 15.1.5-11	15	Fig. 15.2.8-15	13
None		Fig. 15.1.5-12	15	Fig. 15.2.8-16	18
<b>14.3 Tab</b>	--	Fig. 15.1.5-13	15	Fig. 15.2.8-17	18
None		Fig. 15.1.5-14	15	Fig. 15.2.8-18	18
Fig. 14.2-1	11	Fig. 15.1.5-15	15	Fig. 15.2.8-19	18
<b>14A Tab</b>	--	Fig. 15.1.6-1	15	Fig. 15.2.8-20	18
None		Fig. 15.1.6-2	15	Fig. 15.2.8-21	18
<b>14B Tab</b>	--	Fig. 15.1.6-3	15	Fig. 15.2.8-22	18
None		Fig. 15.1.6-4	15	Fig. 15.2.8-23	18
<b>CHAPTER 15 TAB</b>	--	Fig. 15.1.6-5	15	Fig. 15.2.8-24	18
<b>15.0 Tab</b>	--	Fig. 15.1.6-6	15	Fig. 15.2.8-25	18
None		Fig. 15.1.6-7	15	Fig. 15.2.8-26	18
Fig. 15.0-1		Fig. 15.1.6-8	15	Fig. 15.2.8-27	18
(Sh 1 of 3)	11	Fig. 15.1.6-9	15	Fig. 15.2.8-28	18
(Sh 2 of 3)	11	Fig. 15.1.6-10	15	Fig. 15.2.8-29	18
(Sh 3 of 3)	11	Fig. 15.1.6-11	15	Fig. 15.2.8-30	18
Fig. 15.0-2	11	Fig. 15.1.6-12	15	Fig. 15.2.8-31	18
<b>15.1 Tab</b>	--	<b>15.2 Tab</b>	--	Fig. 15.2.8-32	18
None		Fig. 15.2.3-1	16	Fig. 15.2.8-33	18
Fig. 15.1.3-1	16	Fig. 15.2.3-2	16	Fig. 15.2.8-34	18
Fig. 15.1.3-2	16	Fig. 15.2.3-3	16	Fig. 15.2.8-35	18
Fig. 15.1.3-3	16	Fig. 15.2.3-4	16	Fig. 15.2.8-36a	18
Fig. 15.1.3-4	16	Fig. 15.2.3-5	16	Fig. 15.2.8-36b	18
Fig. 15.1.3-5	16	Fig. 15.2.3-6	16	Fig. 15.2.8-37	18
		Fig. 15.2.3-7	16	Fig. 15.2.8-38	18
		Fig. 15.2.3-8	16	Fig. 15.2.8-39	18
				Fig. 15.2.8-40	18
				Fig. 15.2.8-41	18
				Fig. 15.2.8-42	17
				Fig. 15.2.8-43	17
				Fig. 15.2.8-44	17

PVNGS UPDATED FSAR

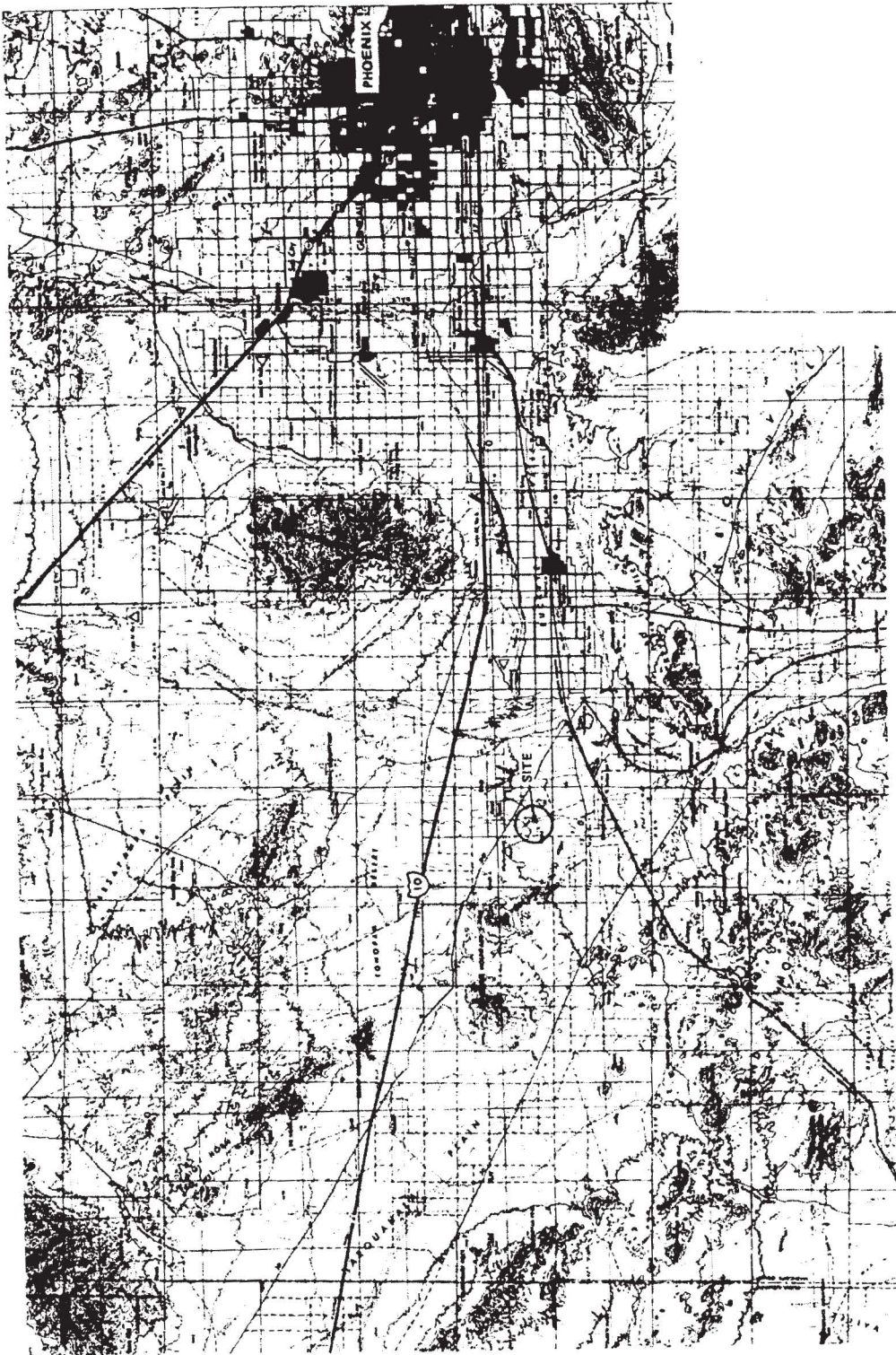
LIST OF EFFECTIVE FIGURE PAGES R19

Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
Fig. 15.2.8-45	17	Fig. 15.4.2-10	13	(Sh 1 of 2)	13
Fig. 15.2.8-46	17	Fig. 15.4.2-11	13	(Sh 2 of 2)	13
Fig. 15.2.8-47	17	Fig. 15.4.7-1	18	Fig. 15.6.3-17	
Fig. 15.2.8-48	17	Fig. 15.4.8-1	13	(Sh 1 of 2)	13
Fig. 15.2.8-49	17	Fig. 15.4.8-2	13	(Sh 2 of 2)	13
Fig. 15.2.8-50	17	Fig. 15.4.8-3	13	Fig. 15.6.3-18	
Fig. 15.2.8-51	17	Fig. 15.4.8-4	13	(Sh 1 of 2)	13
		Fig. 15.4.8-5	13	(Sh 2 of 2)	13
<b>15.3 Tab</b>	--	Fig. 15.4.8-6	13	Fig. 15.6.3-19	
Fig. 15.3.1-1	17	Fig. 15.4.8-7	13	(Sh 1 of 2)	13
Fig. 15.3.1-2	17	Fig. 15.4.8-8	13	(Sh 2 of 2)	13
Fig. 15.3.1-3	17	Fig. 15.4.8-9	13	Fig. 15.6.3-20	
Fig. 15.3.1-4	17	Fig. 15.4.8-10	13	(Sh 1 of 2)	13
Fig. 15.3.1-5	17	Fig. 15.4.8-11	13	(Sh 2 of 2)	13
Fig. 15.3.1-6	17	Fig. 15.4.8-12	13	Fig. 15.6.3-21	
Fig. 15.3.1-7	17			(Sh 1 of 2)	13
Fig. 15.3.1-8	17	<b>15.5 Tab</b>	--	(Sh 2 of 2)	13
Fig. 15.3.1-9	17	Fig. 15.5.2-2	15	Fig. 15.6.3-22	
Fig. 15.3.1-10	17	Fig. 15.5.2-3	18	(Sh 1 of 2)	13
Fig. 15.3.1-11	17	Fig. 15.5.2-4	15	(Sh 2 of 2)	13
Fig. 15.3.1-12	17	Fig. 15.5.2-4A	18	Fig. 15.6.3-23	
Fig. 15.3.1-13	17	Fig. 15.5.2-5	15	(Sh 1 of 2)	13
Fig. 15.3.1-14	17	Fig. 15.5.2-6	15	(Sh 2 of 2)	13
Fig. 15.3.1-15	17	Fig. 15.5.2-7	15	Fig. 15.6.3-24	
Fig. 15.3.4-1	15	Fig. 15.5.2-8	15	(Sh 1 of 2)	13
Fig. 15.3.4-2	15	Fig. 15.5.2-9	15	(Sh 2 of 2)	13
Fig. 15.3.4-3	15	Fig. 15.5.2-10	15	Fig. 15.6.3-25	
Fig. 15.3.4-4	15	Fig. 15.5.2-11	15	(Sh 1 of 2)	13
Fig. 15.3.4-5	15			(Sh 2 of 2)	13
Fig. 15.3.4-6	15	<b>15.6 Tab</b>	--	Fig. 15.6.3-26	
Fig. 15.3.4-7	15	Fig. 15.6.2-1	17	(Sh 1 of 2)	13
Fig. 15.3.4-8	15	Fig. 15.6.2-2	17	(Sh 2 of 2)	13
Fig. 15.3.4-9	15	Fig. 15.6.2-3	17	Fig. 15.6.3-27	
Fig. 15.3.4-10	15	Fig. 15.6.2-4	17	(Sh 1 of 2)	13
Fig. 15.3.4-11	15	Fig. 15.6.2-5	17	(Sh 2 of 2)	13
Fig. 15.3.4-12	15	Fig. 15.6.2-6	17	Fig. 15.6.3-28	
<b>15.4 Tab</b>	--	Fig. 15.6.2-7	17	(Sh 1 of 2)	13
Fig. 15.4.1-1	15	Fig. 15.6.2-8	17	(Sh 2 of 2)	13
Fig. 15.4.1-2	15	Fig. 15.6.2-9	17	Fig. 15.6.3-29	
Fig. 15.4.1-3	15	Fig. 15.6.2-10	17	(Sh 1 of 2)	13
Fig. 15.4.1-4	15	Fig. 15.6.2-11	17	(Sh 2 of 2)	13
Fig. 15.4.1-5	15	Fig. 15.6.2-12	17	Fig. 15.6.3-30	
Fig. 15.4.1-6	15	Fig. 15.6.2-13	17	(Sh 1 of 2)	13
Fig. 15.4.1-7	15	Fig. 15.6.2-14	17	(Sh 2 of 2)	13
Fig. 15.4.1-8	15	Fig. 15.6.2-15	17	Fig. 15.6.3-31	
Fig. 15.4.1-9	15	Fig. 15.6.2-16	17	(Sh 1 of 2)	13
Fig. 15.4.1-10	15	Fig. 15.6.3-1	16	(Sh 2 of 2)	13
Fig. 15.4.1-11	15	Fig. 15.6.3-2	16	<b>15.7 Tab</b>	--
Fig. 15.4.1-12	15	Fig. 15.6.3-3	16	Fig. 15.7.1-1	11
Fig. 15.4.1-13	15	Fig. 15.6.3-4	19	Fig. 15.7.3-1	11
Fig. 15.4.1-14	15	(Sh 1 of 2)	16	Fig. 15.7.4-1	11
Fig. 15.4.1-15	15	(Sh 2 of 2)	19	Fig. 15.7.4-2	14
Fig. 15.4.1-16	15	Fig. 15.6.3.5	16		
Fig. 15.4.2-1	13	Fig. 15.6.3-6	16	<b>15A Tab</b>	--
Fig. 15.4.2-2	18	Fig. 15.6.3-7	16	Fig. 15A-1	11
Fig. 15.4.2-3	13	Fig. 15.6.3-8	16	Fig. 15A-2	
Fig. 15.4.2-4	13	Fig. 15.6.3-9	16	(Sh 1 of 2)	11
Fig. 15.4.2-5	13	Fig. 15.6.3-10	16	(Sh 2 of 2)	11
Fig. 15.4.2-6	13	Fig. 15.6.3-11	16	Fig. 15A-3	
Fig. 15.4.2-7	13	Fig. 15.6.3-12	16	(Sh 1 of 2)	11
Fig. 15.4.2-8	13	Fig. 15.6.3-13	16	(Sh 2 of 2)	11
Fig. 15.4.2-9	13	Fig. 15.6.3-14	16	Fig. 15A-4	
		Fig. 15.6.3-15	16		

PVNGS UPDATED FSAR

LIST OF EFFECTIVE FIGURE PAGES R19

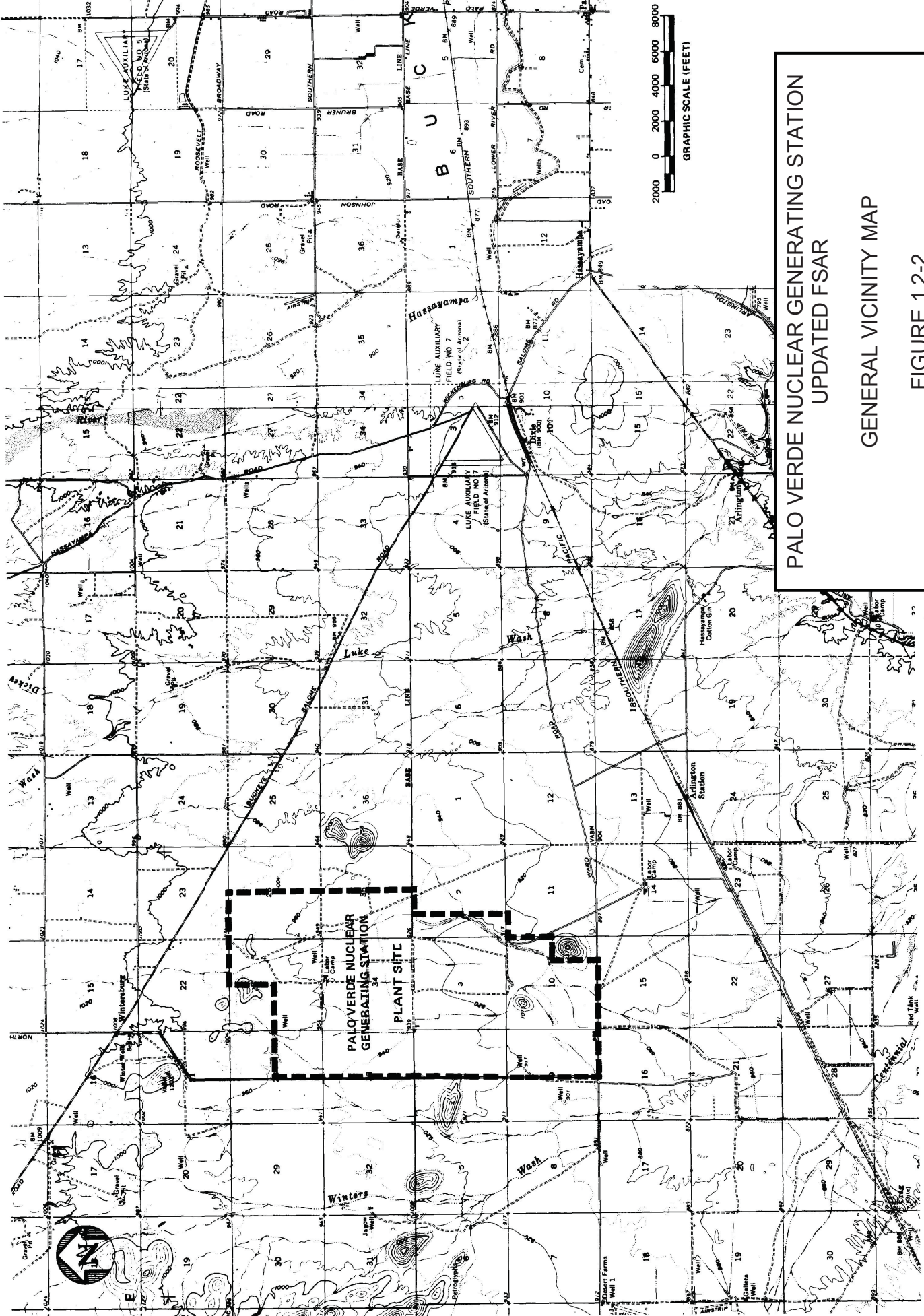
Page or Figure No.	Revision	Page or Figure No.	Revision	Page or Figure No.	Revision
(Sh 1 of 2)	11	<b>17.1A Tab</b>	--	None	
(Sh 2 of 2)	11				
Fig. 15A-5		Fig. 17.1A-1	11	<b>18.II.B Tab</b>	--
(Sh 1 of 2)	11				
(Sh 2 of 2)	11	<b>17.1B Tab</b>	--	Fig. 18.II.B-1	11
Fig. 15A-6					
(Sh 1 of 2)	11	Fig. 17.1B-1	11	<b>18.II.D Tab</b>	--
(Sh 2 of 2)	11	Fig. 17.1B-2	11	None	
Fig. 15A-7		Fig. 17.1B-3	11		
(Sh 1 of 2)	11	Fig. 17.1B-4	11	<b>18.II.E Tab</b>	--
(Sh 2 of 2)	11	Fig. 17.1B-5	11	None	
Fig. 15A-8		Fig. 17.1B-6	11		
(Sh 1 of 2)	11	Fig. 17.1B-7	11	<b>18.II.F Tab</b>	--
(Sh 2 of 2)	11	Fig. 17.1B-8	11	None	
Fig. 15A-9		Fig. 17.1B-9	11		
(Sh 1 of 2)	11	Fig. 17.1B-10	11	<b>18.II.G Tab</b>	--
(Sh 2 of 2)	11			None	
Fig. 15A-10		<b>17.1C Tab</b>	--		
(Sh 1 of 2)	11	None		<b>18.II.K Tab</b>	--
(Sh 2 of 2)	11			None	
Fig. 15A-11		<b>17.2 Tab</b>	--		
(Sh 1 of 2)	11	None		<b>18.III.A Tab</b>	--
(Sh 2 of 2)	11			None	
Fig. 15A-12		<b>17.2A Tab</b>	--		
(Sh 1 of 2)	11	None		<b>18.III.D Tab</b>	--
(Sh 2 of 2)	11			None	
Fig. 15A-13		<b>17.2B Tab</b>	--		
(Sh 1 of 2)	11	None		<b>18A Tab</b>	--
(Sh 2 of 2)	11			None	
Fig. 15A-14		<b>17.2C Tab</b>	--		
(Sh 1 of 2)	11	None		<b>18B Tab</b>	--
(Sh 2 of 2)	11				
Fig. 15A-15		<b>17.2D Tab</b>	--	Fig. 18B-1	16
(Sh 1 of 2)	11	None		Fig. 18B-2	11
(Sh 2 of 2)	11			Fig. 18B-3	11
<b>15B Tab</b>	--	<b>17.2E Tab</b>	--	Fig. 18B-4	11
		None		Fig. 18B-5	11
Fig. 15B-1	11	<b>17.2F Tab</b>	--	Fig. 18B-6	11
Fig. 15B-2	11	None		Fig. 18B-7	11
Fig. 15B-3	11				
<b>15C Tab</b>	--	<b>17.2G Tab</b>	--		
None		None			
<b>15D Tab</b>	--	<b>17A Tab</b>	--		
		None			
Fig. 15D-1	11	<b>17B Tab</b>	--		
<b>15E Tab</b>	--	None			
15E-1	15	<b>CHAPTER 18 TAB</b>	--		
<b>CHAPTER 16 TAB</b>	--	<b>18.I.A Tab</b>	--		
		None			
<b>16.0 Tab</b>	--	<b>18.I.B Tab</b>	--		
None		None			
<b>CHAPTER 17 TAB</b>	--	<b>18.I.C Tab</b>	--		
		None			
<b>17.1 Tab</b>	--	<b>18.I.D Tab</b>	--		
None		None			
		<b>18.I.G Tab</b>	--		



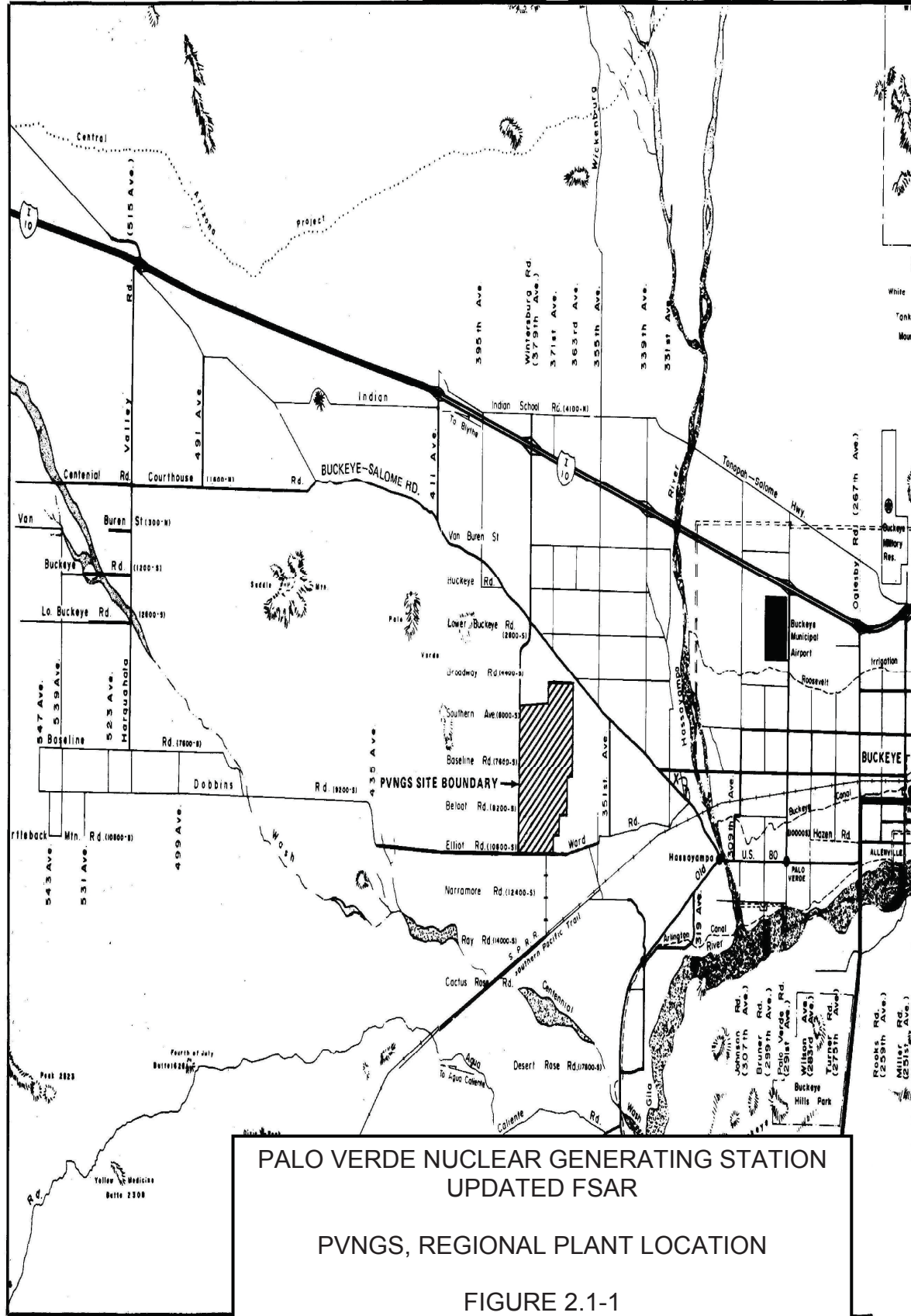
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR  
SITE LOCATION

FIGURE 1.2-1

JUNE 2001 REVISION 11

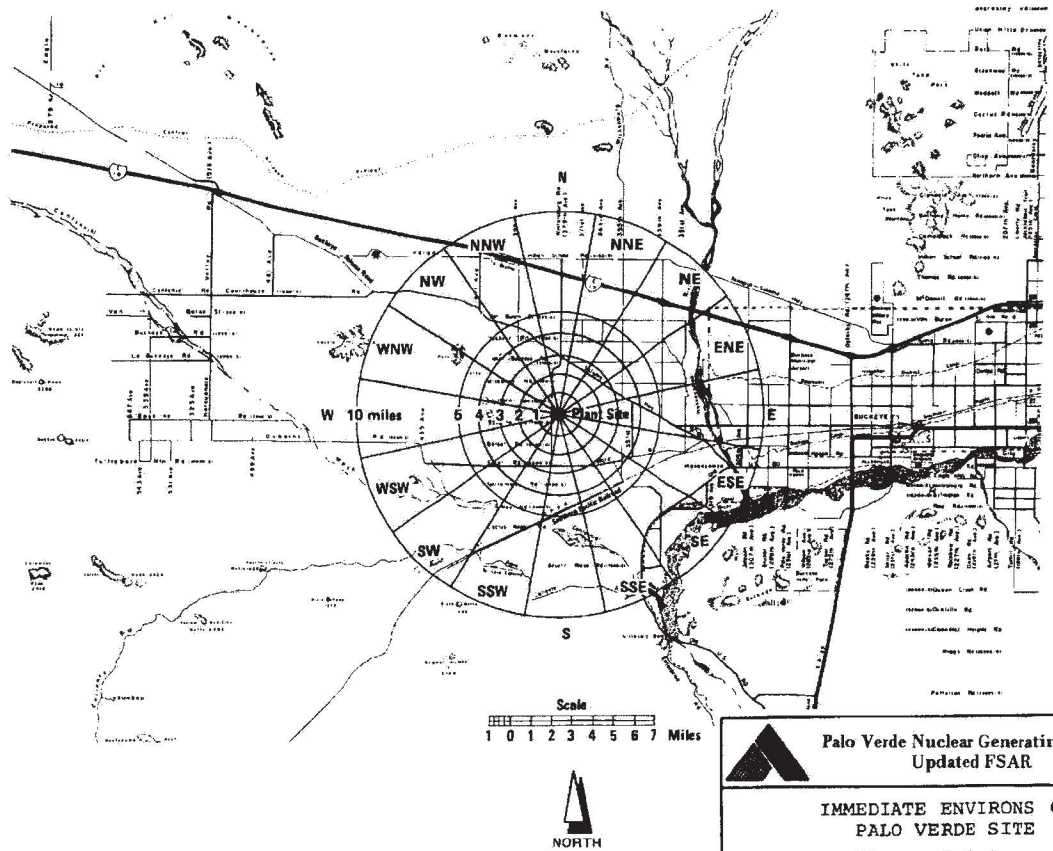



**PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 GENERAL VICINITY MAP**  
**FIGURE 1.2-2**  
**JUNE 2009** **REVISION 15**



**PALO VERDE NUCLEAR GENERATING STATION**  
**UPDATED FSAR**  
  
**PVNGS, REGIONAL PLANT LOCATION**  
  
**FIGURE 2.1-1**  
  
**JUNE 2009** **REVISION 15**

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 IMMEDIATE ENVIRON OF PALO VERDE SITE  
 FIGURE 2.1-2  
 JUNE 2001  
 REVISION 11

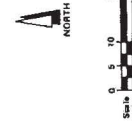



**Palo Verde Nuclear Generating Station**  
 Updated FSAR  
 IMMEDIATE ENVIRONS OF  
 PALO VERDE SITE  
 Figure 2.1-2

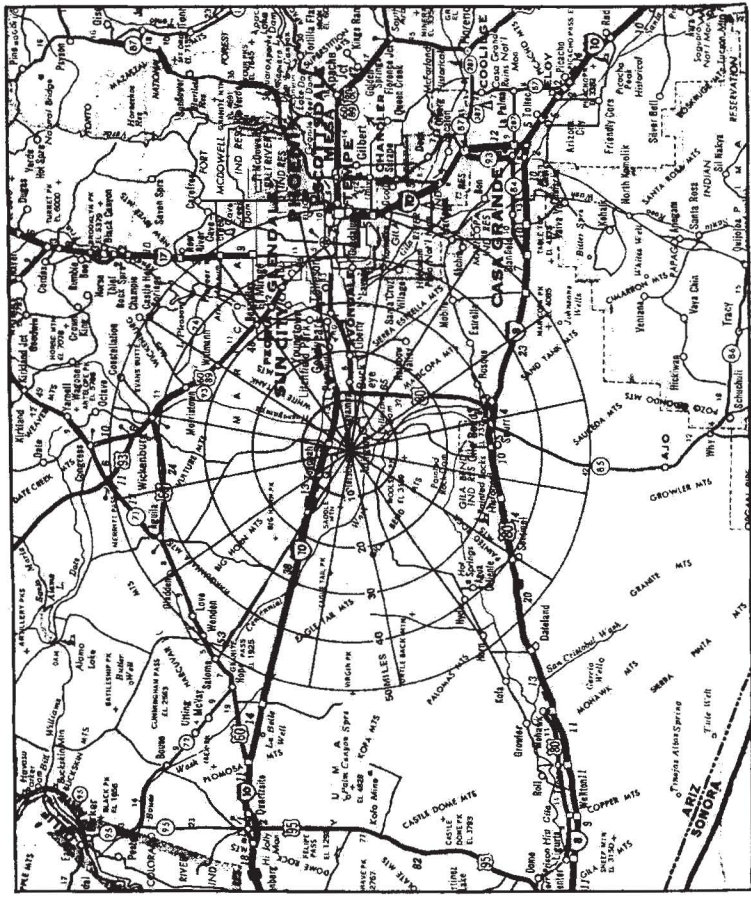


EXPLANATION OF MAP SYMBOLS

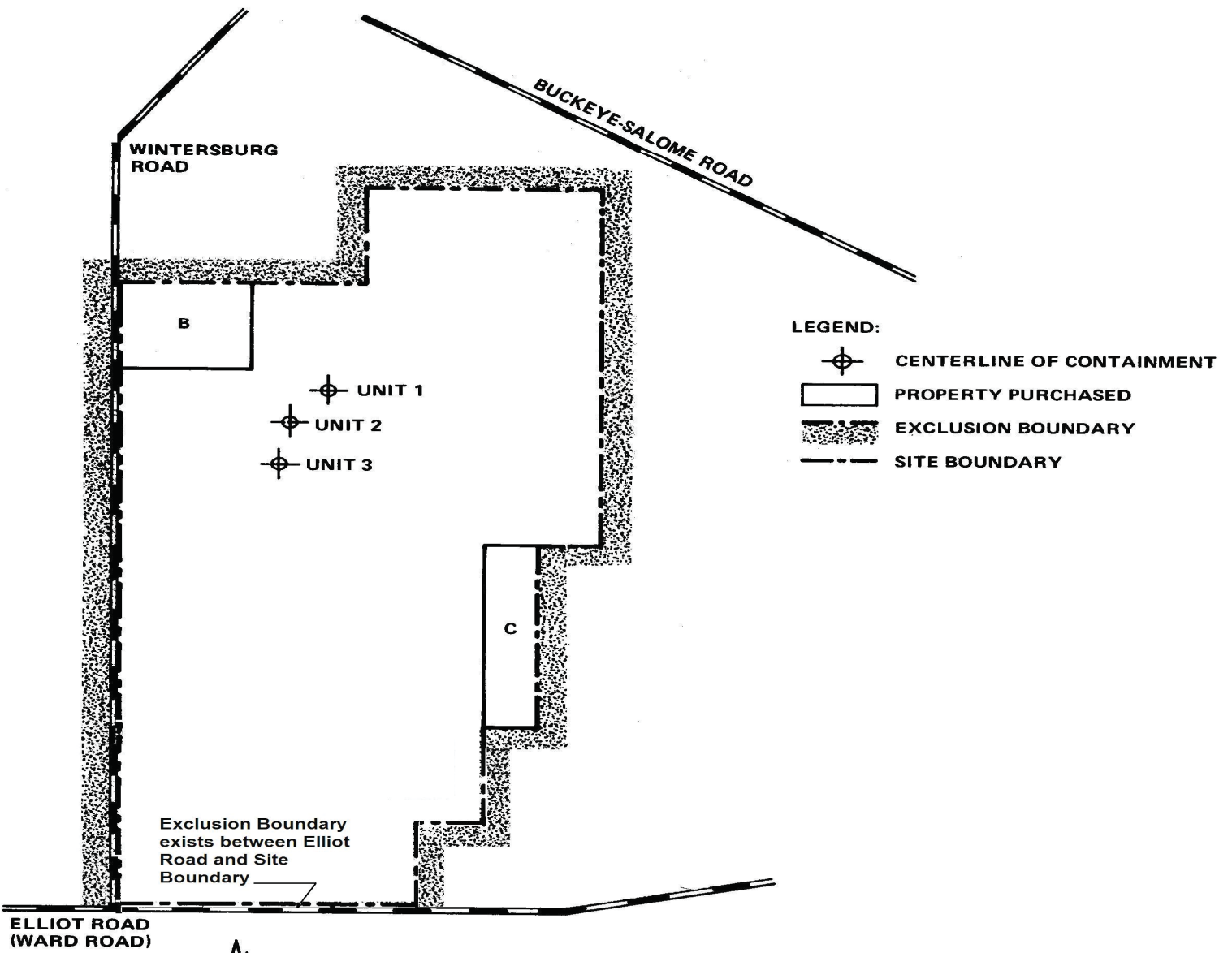
- 1. 100-foot contour interval
- 2. 200-foot contour interval
- 3. 500-foot contour interval
- 4. 1000-foot contour interval
- 5. 2000-foot contour interval
- 6. 5000-foot contour interval
- 7. 10000-foot contour interval
- 8. 20000-foot contour interval
- 9. 50000-foot contour interval
- 10. 100000-foot contour interval
- 11. 200000-foot contour interval
- 12. 500000-foot contour interval
- 13. 1000000-foot contour interval
- 14. 2000000-foot contour interval
- 15. 5000000-foot contour interval
- 16. 10000000-foot contour interval
- 17. 20000000-foot contour interval
- 18. 50000000-foot contour interval
- 19. 100000000-foot contour interval
- 20. 200000000-foot contour interval
- 21. 500000000-foot contour interval
- 22. 1000000000-foot contour interval
- 23. 2000000000-foot contour interval
- 24. 5000000000-foot contour interval
- 25. 10000000000-foot contour interval
- 26. 20000000000-foot contour interval
- 27. 50000000000-foot contour interval
- 28. 100000000000-foot contour interval
- 29. 200000000000-foot contour interval
- 30. 500000000000-foot contour interval
- 31. 1000000000000-foot contour interval
- 32. 2000000000000-foot contour interval
- 33. 5000000000000-foot contour interval
- 34. 10000000000000-foot contour interval
- 35. 20000000000000-foot contour interval
- 36. 50000000000000-foot contour interval
- 37. 100000000000000-foot contour interval
- 38. 200000000000000-foot contour interval
- 39. 500000000000000-foot contour interval
- 40. 1000000000000000-foot contour interval
- 41. 2000000000000000-foot contour interval
- 42. 5000000000000000-foot contour interval
- 43. 10000000000000000-foot contour interval
- 44. 20000000000000000-foot contour interval
- 45. 50000000000000000-foot contour interval
- 46. 100000000000000000-foot contour interval
- 47. 200000000000000000-foot contour interval
- 48. 500000000000000000-foot contour interval
- 49. 1000000000000000000-foot contour interval
- 50. 2000000000000000000-foot contour interval



Palo Verde Nuclear Generating Station  
Updated FSAR  
GENERAL ENVIRONS OF  
PALO VERDE SITE  
Figure 2.1-3



PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR  
GENERAL ENVIRONS OF PALO VERDE SITE  
FIGURE 2.1-3  
JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

SITE AND EXCLUSION BOUNDARIES

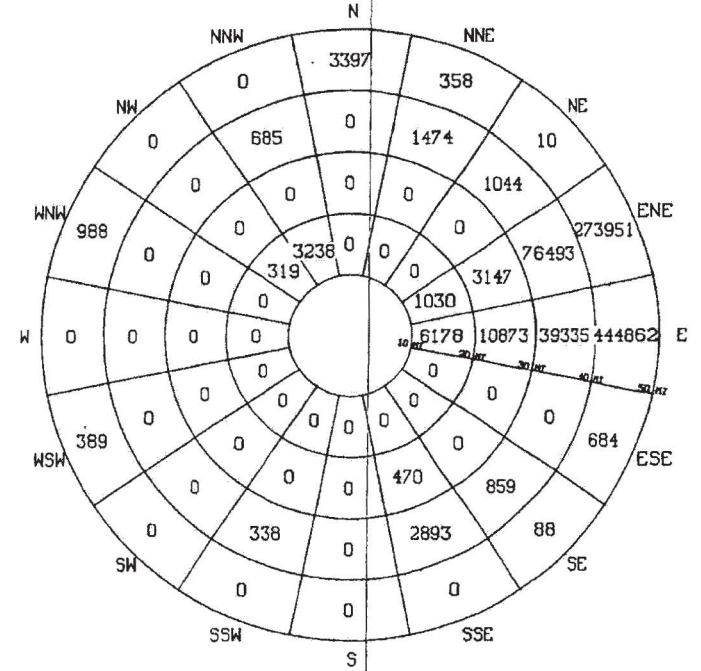
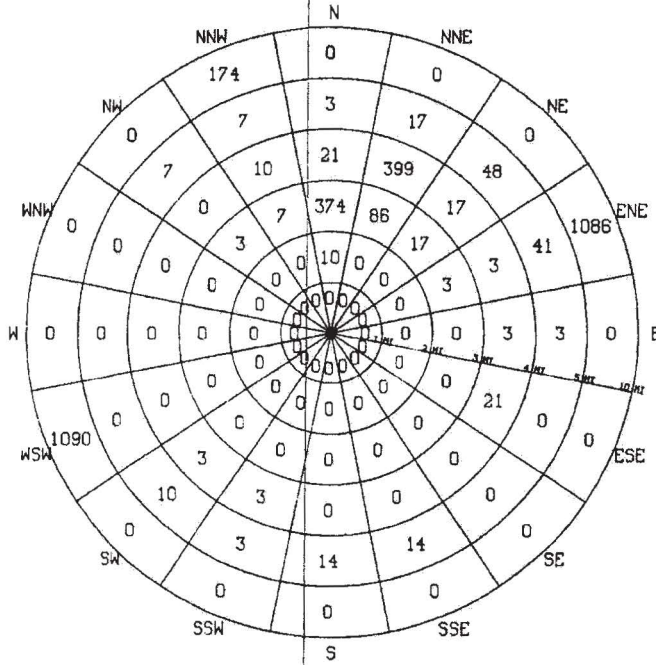
FIGURE 2.1-4

JUNE 2009

REVISION 15

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	6-10
Population	0	10	490	480	167	2,360	3,487

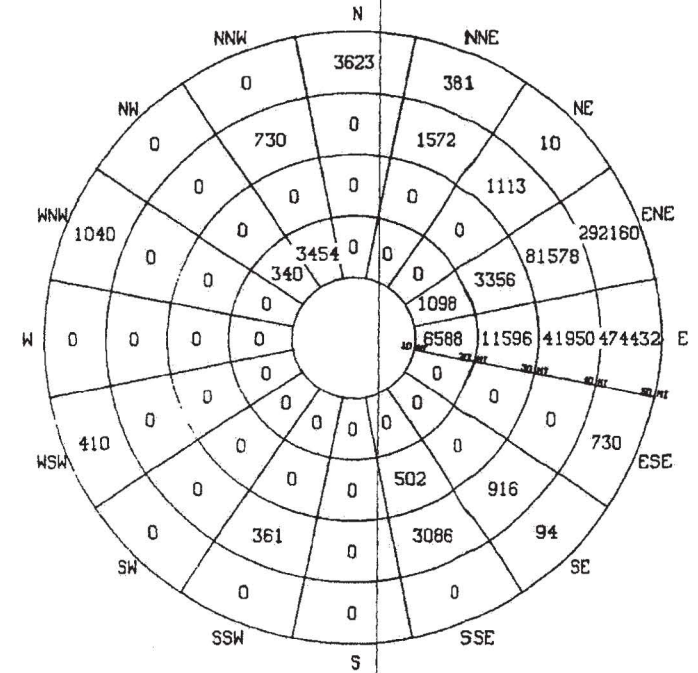
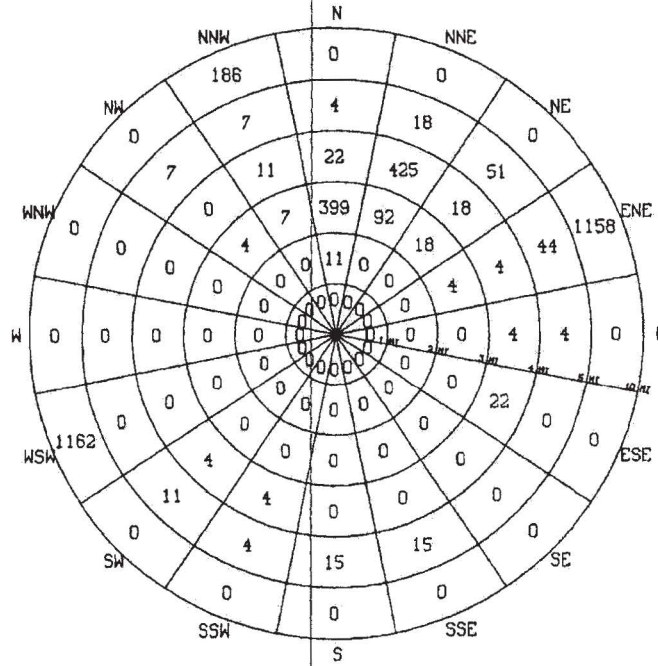
Annulus (miles)	10-20	20-30	30-40	40-50	10-50
Population	10,765	14,490	123,121	724,727	873,103



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 1978  
 PALO VERDE SITE, 0 TO 50 MILES  
 FIGURE 2.1-5  
 JUNE 2001  
 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	0-10
Population	0	11	524	514	180	2,506	3,735

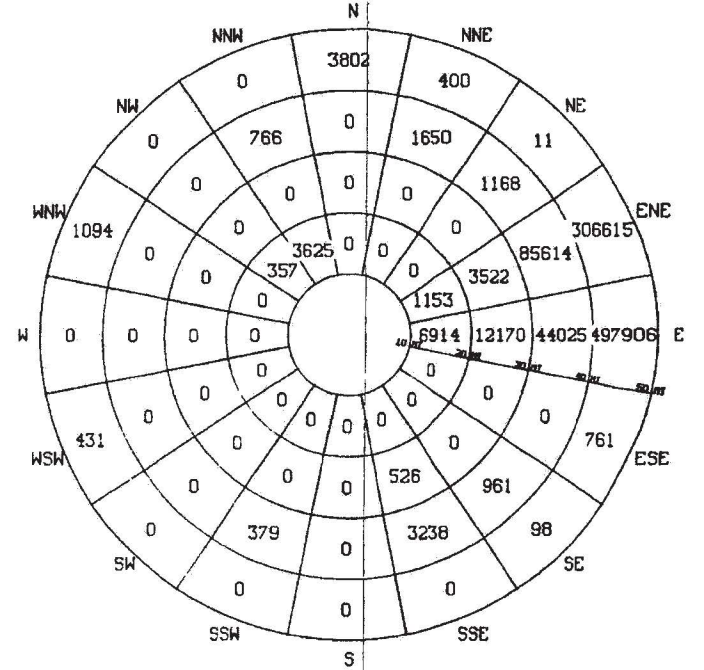
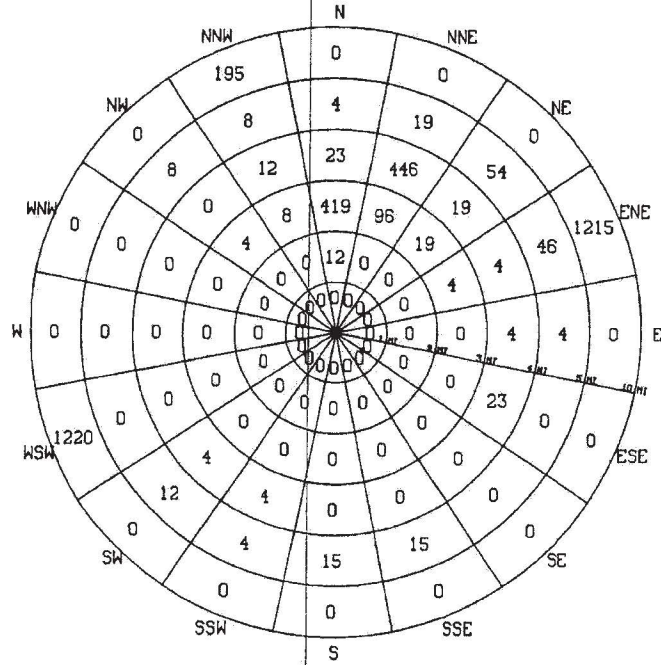
Annulus (miles)	10-20	20-30	30-40	40-50	10-50
Population	11,480	15,454	131,306	772,880	931,120



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION - 1980  
 PALO VERDE SITE, 0 to 50 MILES  
 FIGURE 2.1-6  
 JUNE 2001  
 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	0-10
Population	0	12	550	539	189	2,630	3,920

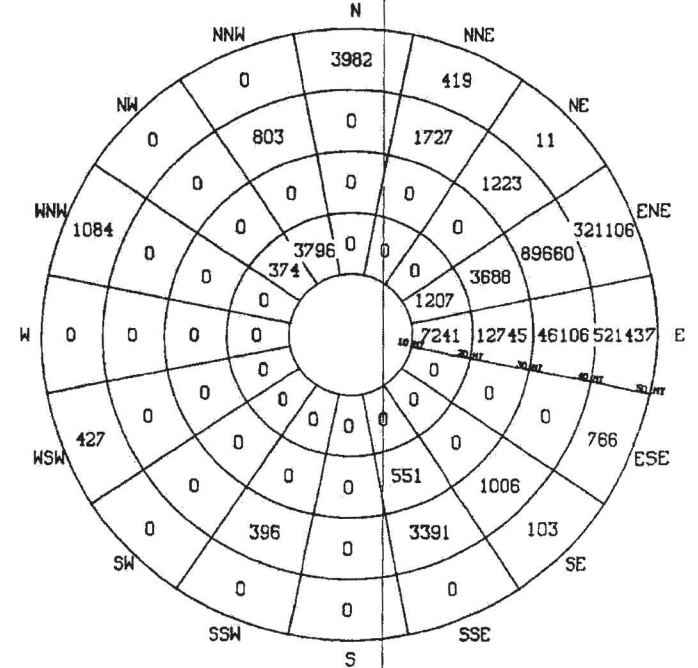
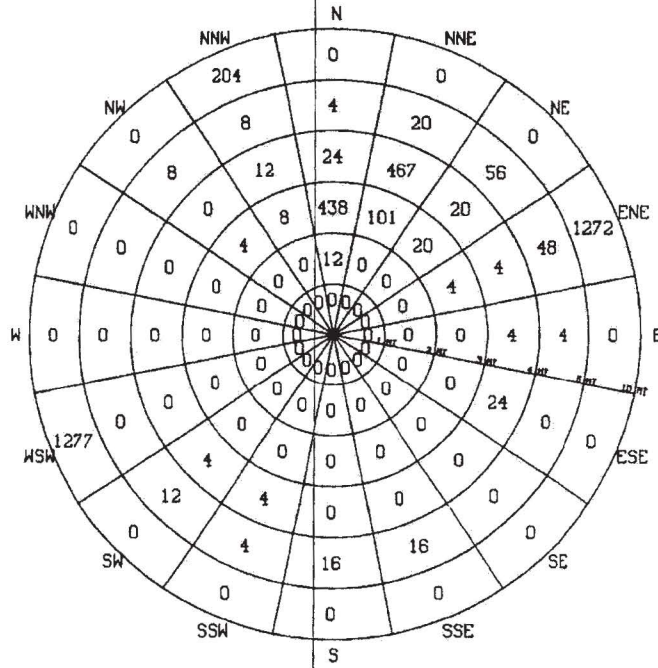
Annulus (miles)	10-20	20-30	30-40	40-50	0-50
Population	12,048	16,218	137,801	811,118	977,186



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 1982  
 PALO VERDE SITE, 0 to 50 MILES  
 FIGURE 2.1-7  
 JUNE 2001  
 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	0-10
Population	0	12	676	563	196	2,753	4,099

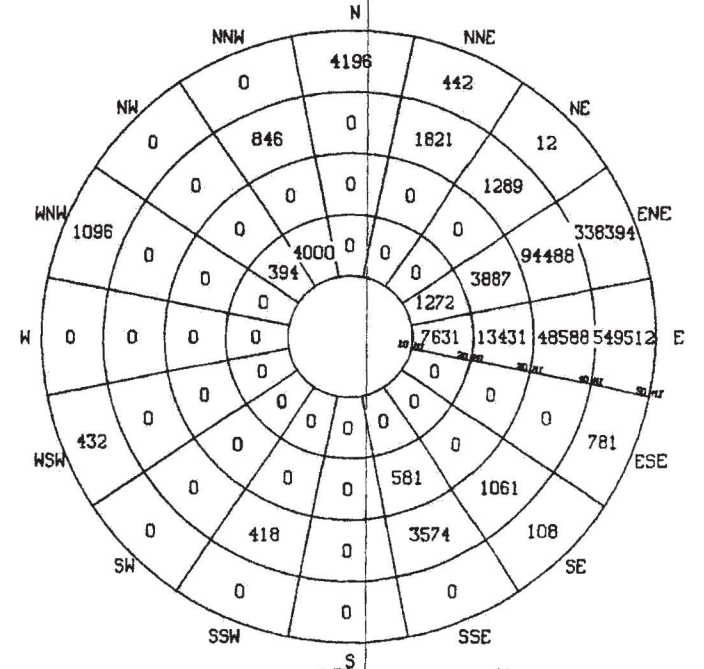
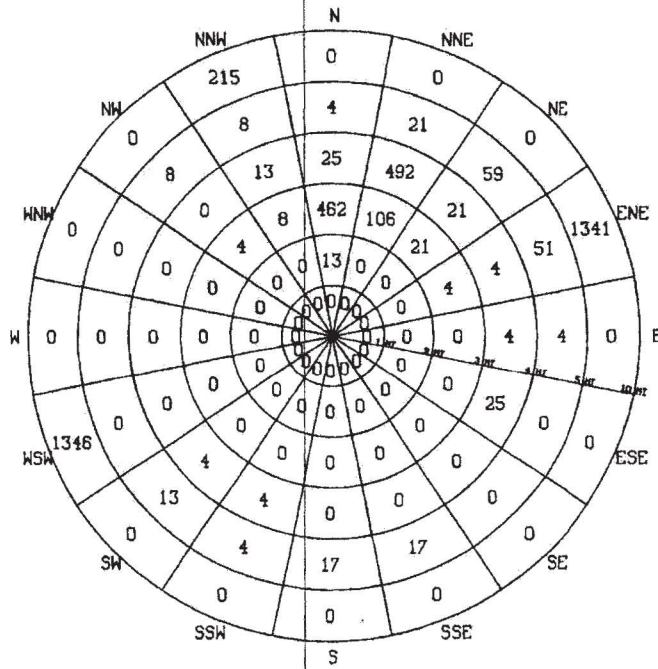
Annulus (miles)	10-20	20-30	30-40	40-50	10-50
Population	12,818	16,994	144,312	849,335	1,023,249



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 1984  
 PALO VERDE SITE: 0 TO 50 MILES  
 FIGURE 2.1-8  
 JUNE 2001 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	6-10	0-10
Population	0	13	605	692	206	2,302	4,218

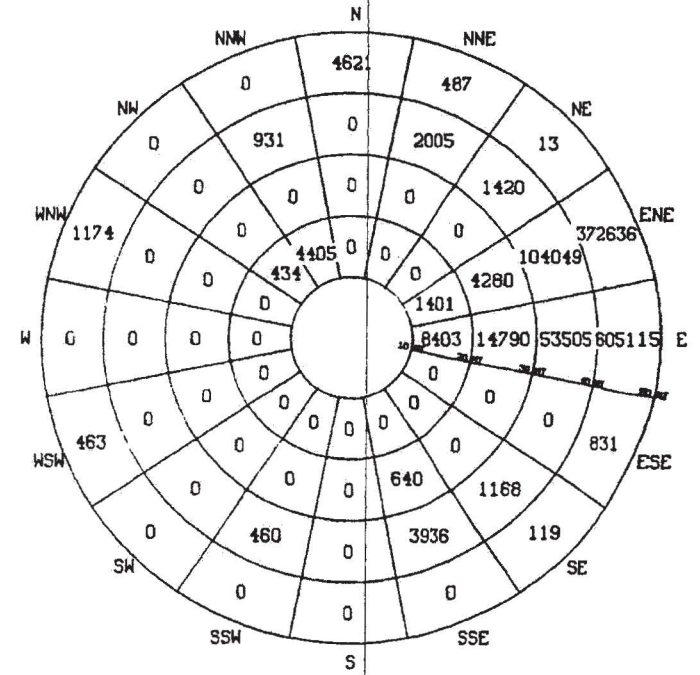
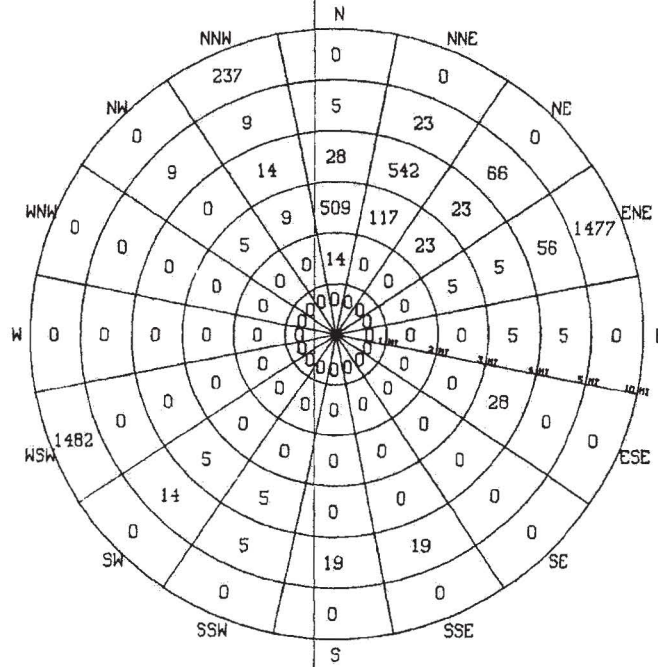
Annulus (miles)	10-20	20-30	30-40	40-50	10-50
Population	13,297	17,899	152,065	894,973	1,078,264



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 1986  
 PALO VERDE SITE, 0 to 50 MILES  
 FIGURE 2-1-9  
 JUNE 2001  
 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	0-10
Population	0	14	668	655	230	3,196	4,763

Annulus (miles)	10-20	20-30	30-40	40-50	10-60
Population	14,843	18,710	187,474	985,468	1,187,286

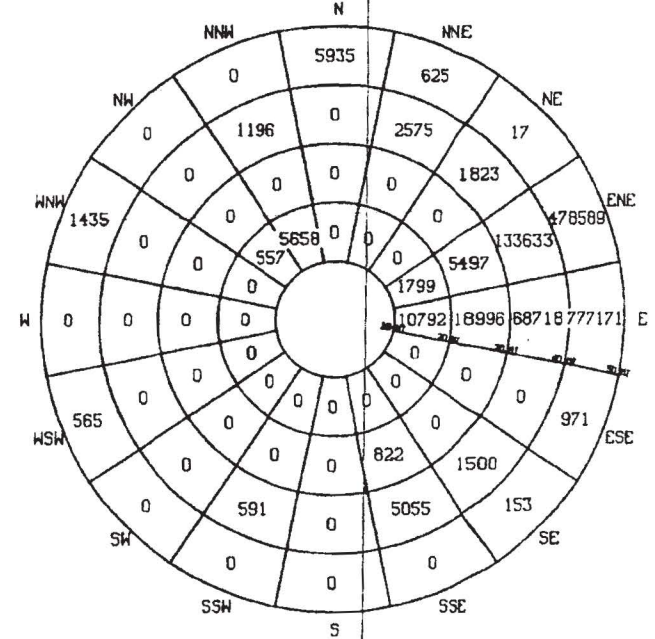
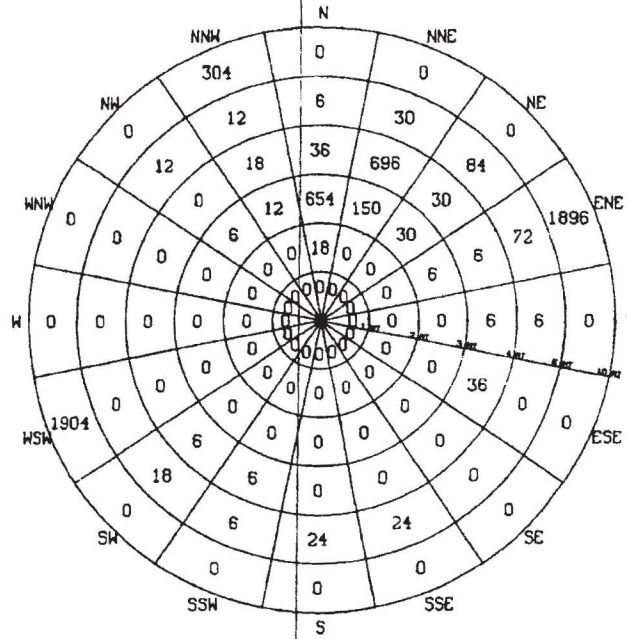


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 1990  
 PALO VERDE SITE: 0 TO 50 MILES  
 JUNE 2001  
 FIGURE 2.1-10  
 REVISION 11



Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	0-10
Population	0	18	858	840	294	4,104	6,114

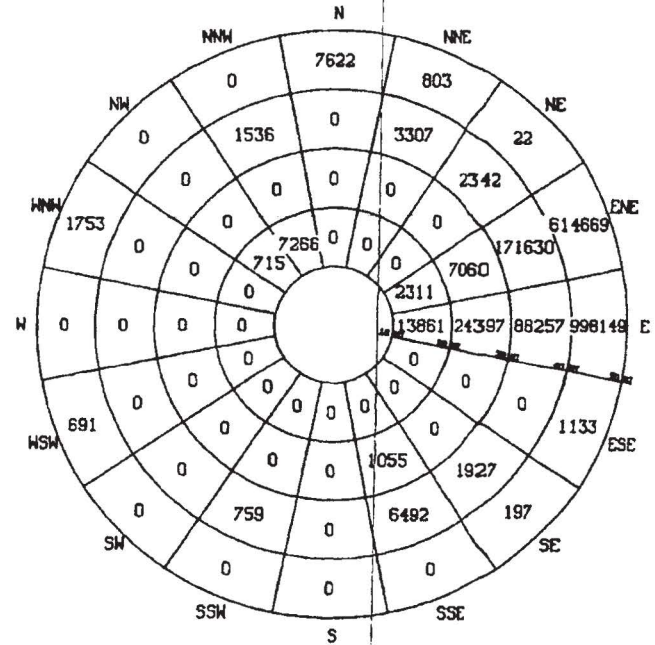
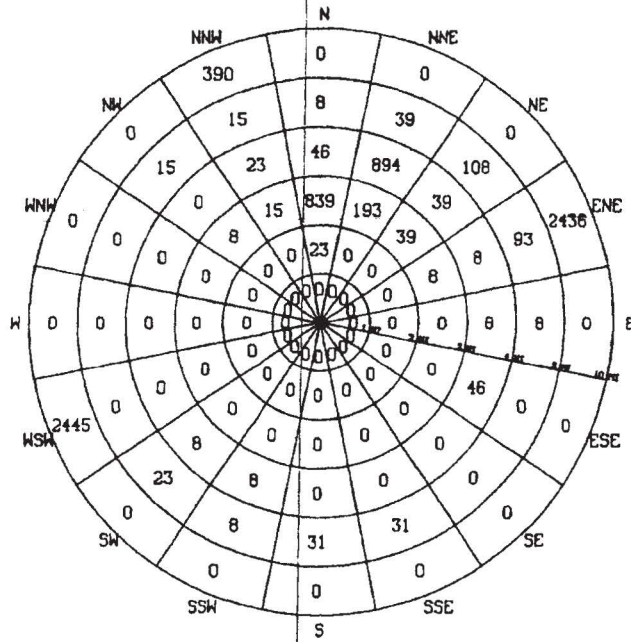
Annulus (miles)	10-20	20-30	30-40	40-50	0-50
Population	18,806	25,315	215,091	1,266,461	1,524,673



PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR  
POPULATION DISTRIBUTION -- 2000  
PALO VERDE SITE, 0 TO 50 MILES  
FIGURE 2.1-11  
JUNE 2001  
REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-5	5-10	0-10
Population	0	23	1,102	1,080	379	5,271	7,855

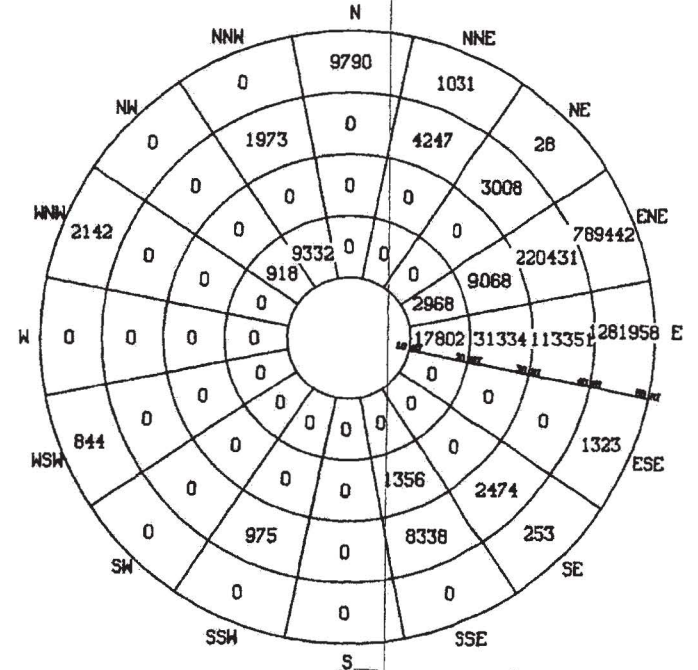
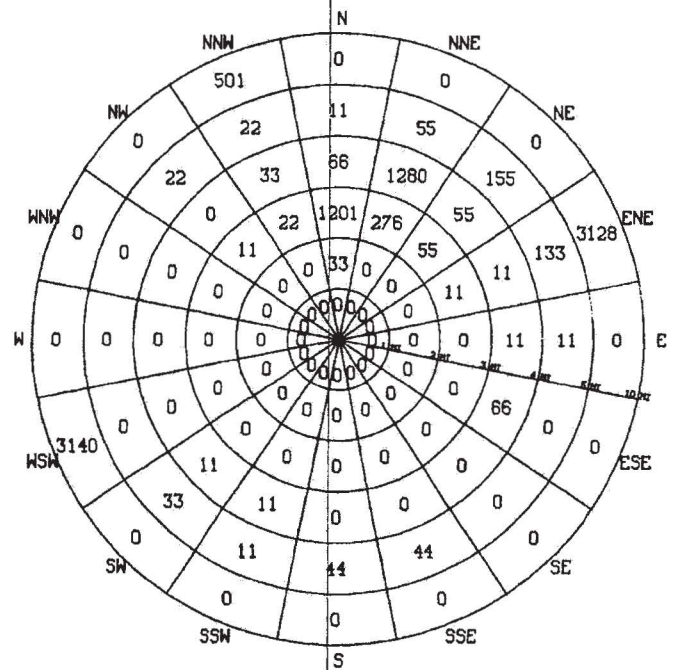
Annulus (miles)	10-20	20-30	30-40	40-50	10-50
Population	24,153	32,512	2,78,290	1,876,038	1,957,954



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 2010  
 PALO VERDE SITE, 0 TO 50 MILES  
 FIGURE 2.1-12  
 JUNE 2001  
 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-6	5-10	0-10
Population	0	33	1,678	1,544	541	6,789	10,463

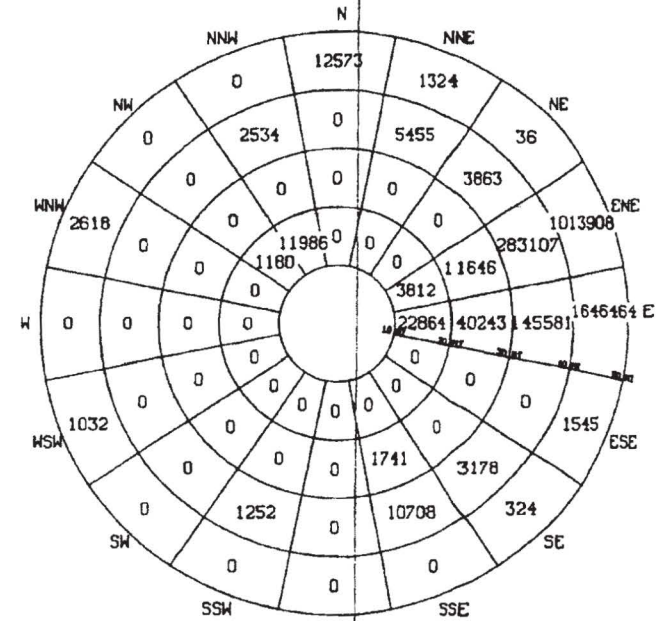
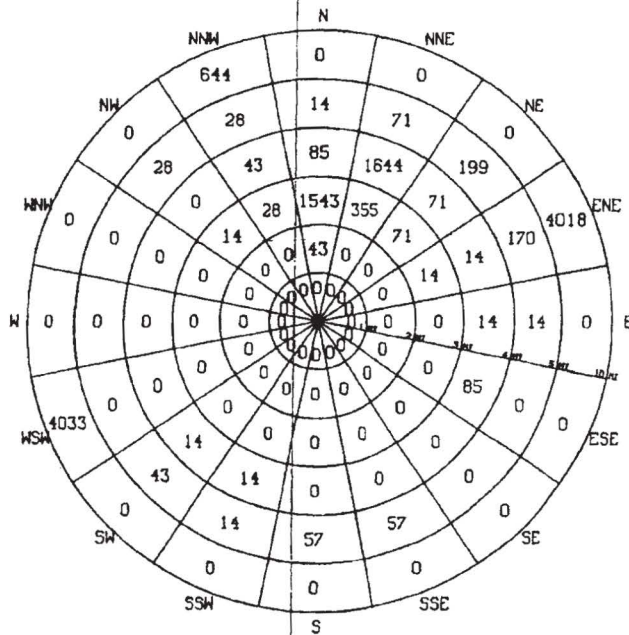
Annulus (miles)	10-20	20-30	30-40	40-60	10-50
Population	31,020	41,758	354,797	2,088,811	2,514,386



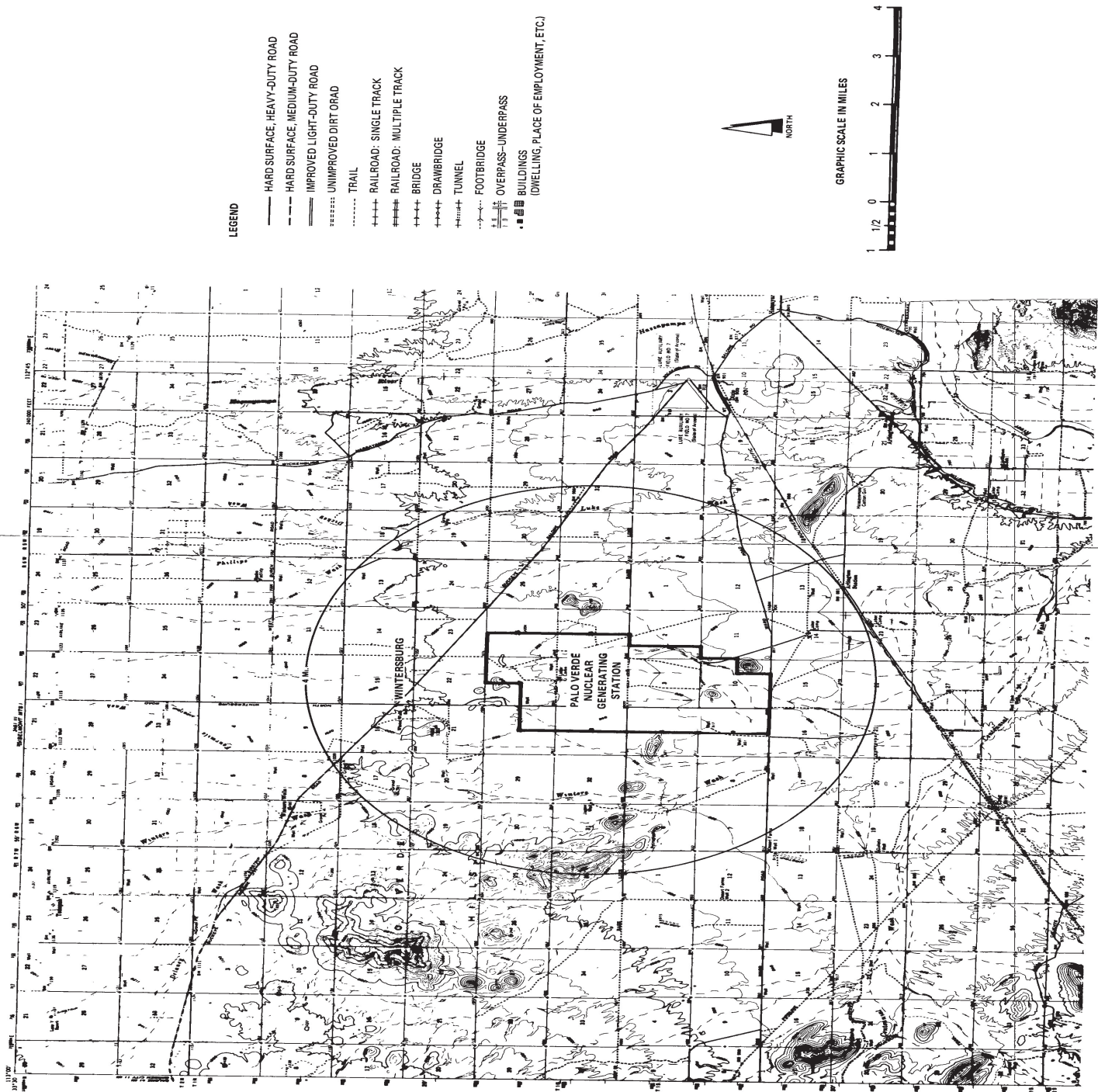
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 2020  
 PALO VERDE SITE, 0 to 50 MILES  
 FIGURE 2.1-13  
 JUNE 2001  
 REVISION 11

Annulus (miles)	0-1	1-2	2-3	3-4	4-6	5-10	0-10
Population	0	43	2,024	1,984	695	8,695	13,442

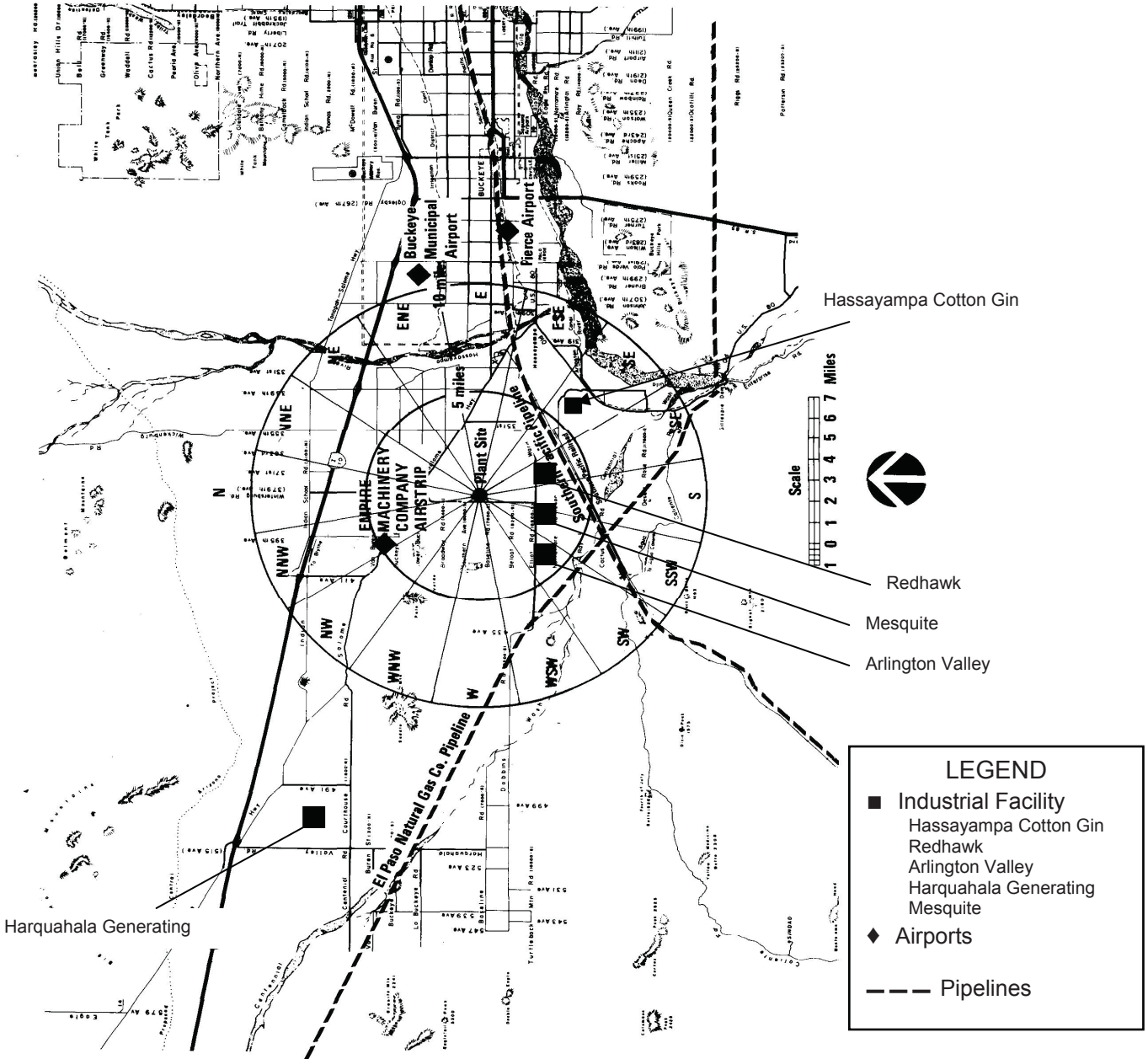
Annulus (miles)	10-20	20-30	30-40	40-50	10-50
Population	39,842	53,630	456,678	7,879,824	3,228,974



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 POPULATION DISTRIBUTION -- 2030  
 PALO VERDE SITE, 0 TO 50 MILES  
 FIGURE 2-1-14  
 JUNE 2001  
 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 LOW POPULATION ZONE  
 FIGURE 2.1-15  
 JUNE 2009                      REVISION 15



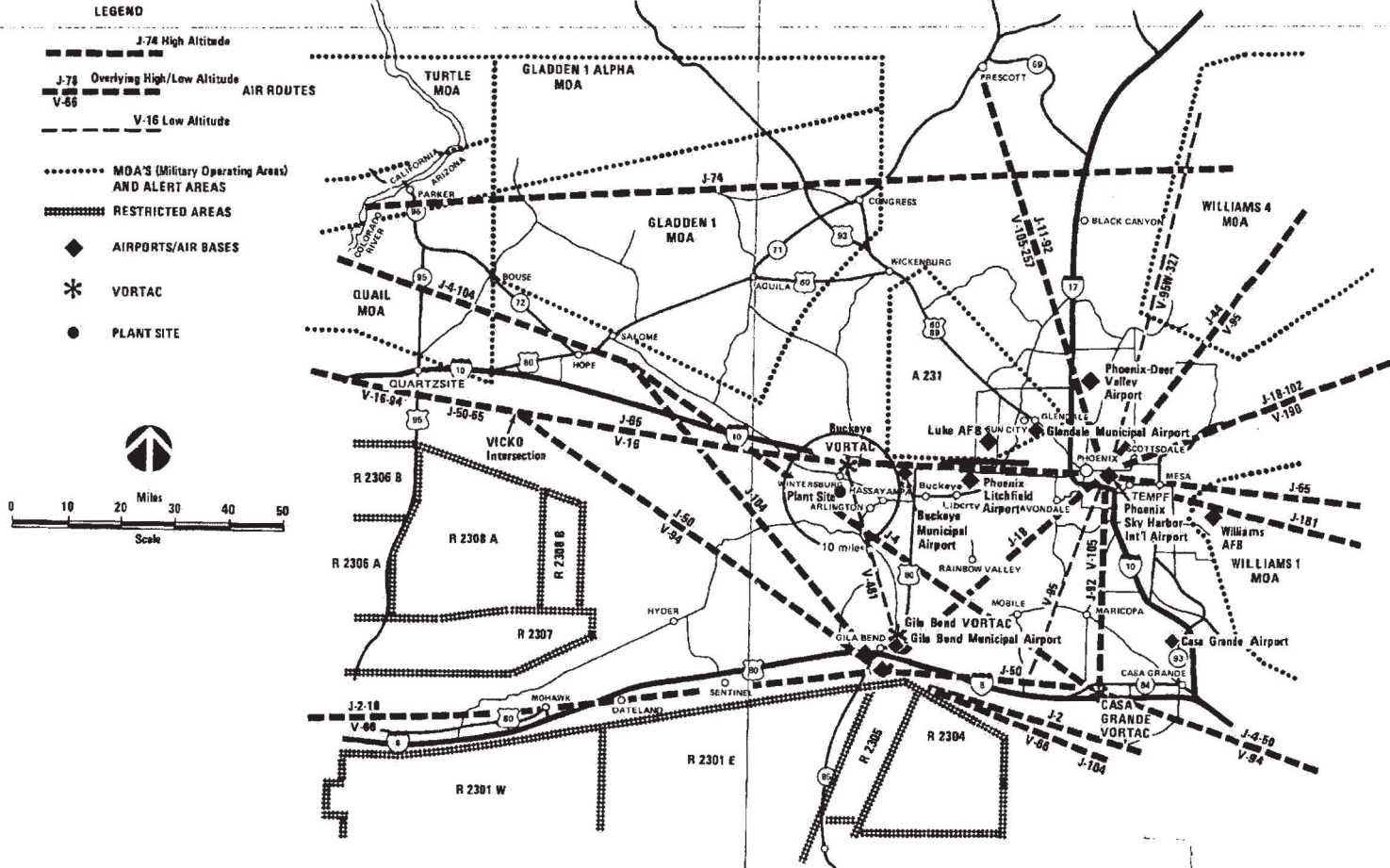
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

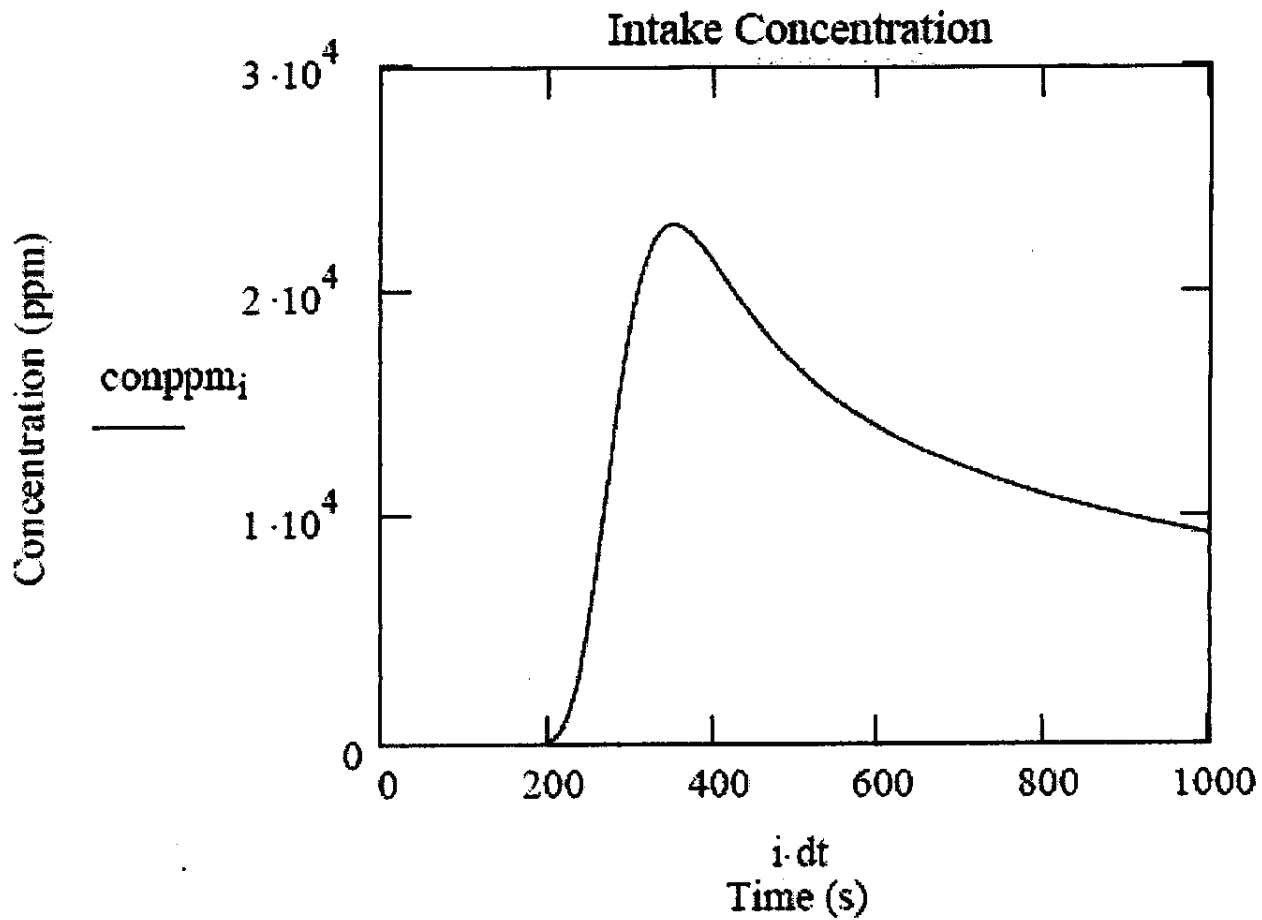
INDUSTRIAL AND TRANSPORTATION FACILITIES  
 IN THE ENVIRONS OF THE PALO VERDE SITE

FIGURE 2.2-1

JUNE 2009 REVISION 15

PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR  
AIR ROUTES, AIRPORT, MOA'S, ALERT AND  
RESTRICTED AREAS IN THE ENVIRONS OF  
THE PALO VERDE SITE  
JUNE 2001  
REVISION 11





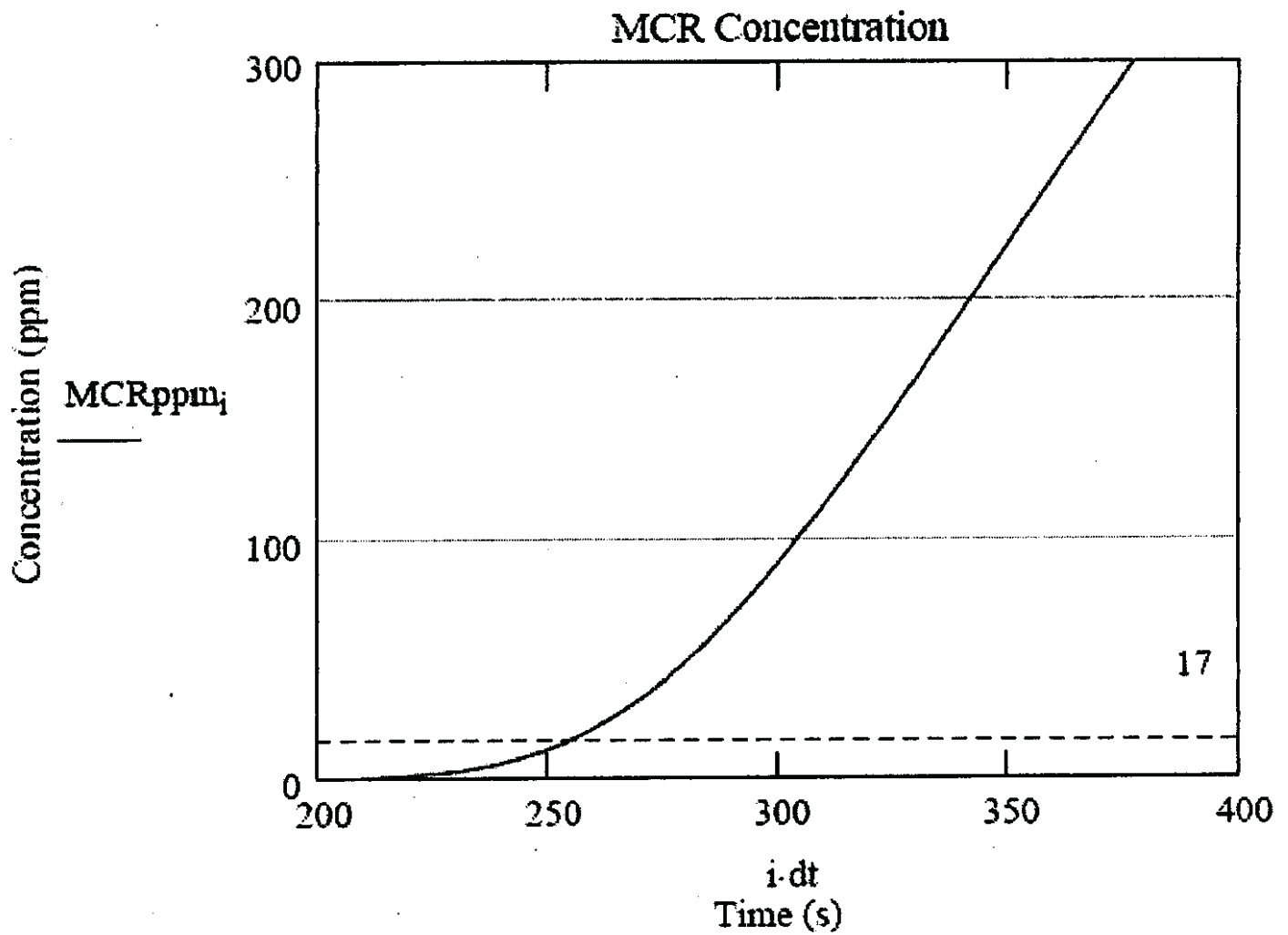
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

AMMONIA CONCENTRATION AT PVNGS FOR  
 TANK CAR RUPTURE AIR INTAKE  
 CONCENTRATION

FIGURE 2.2-3a

JUNE 2011 REVISION 16



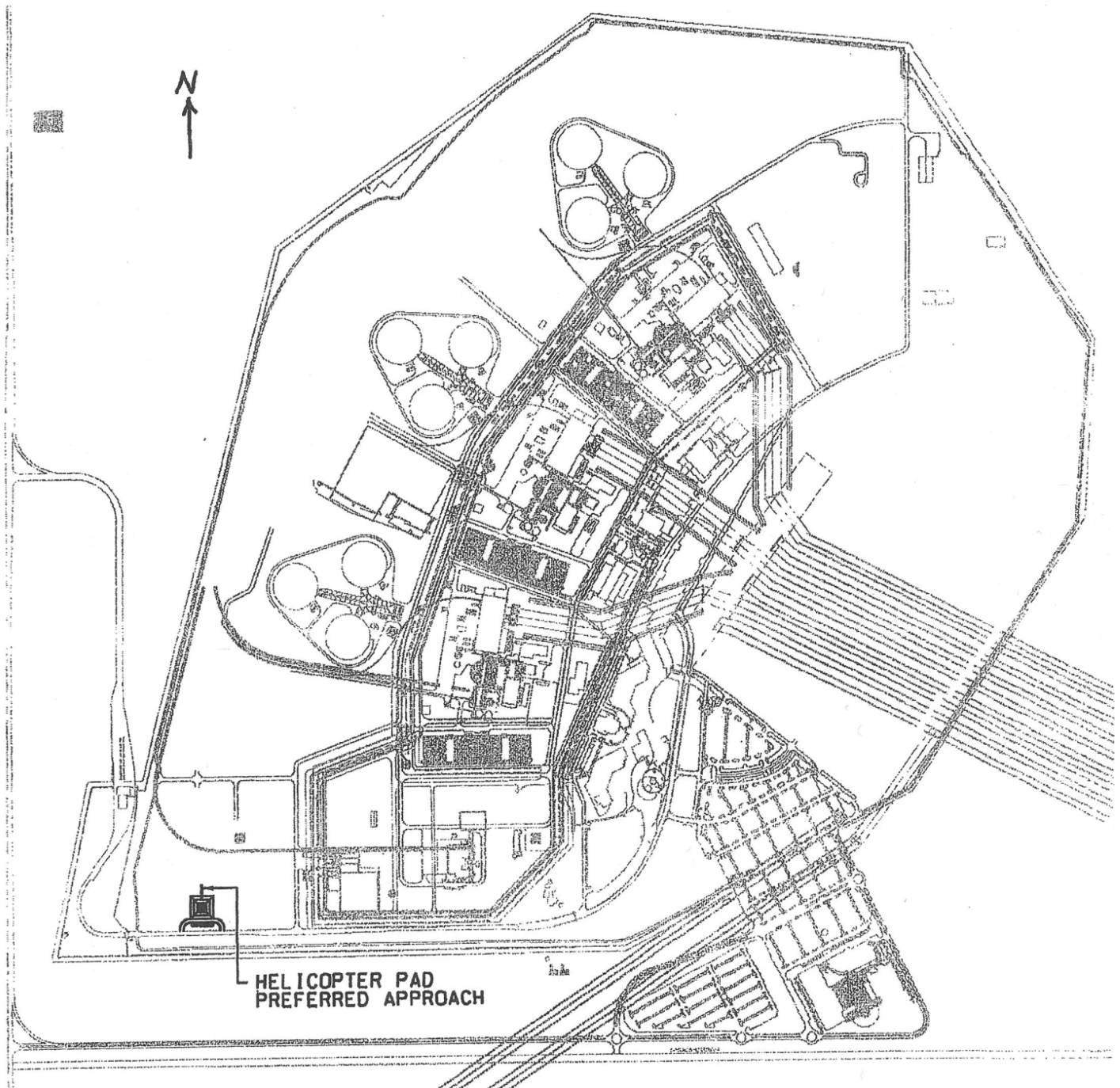


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

AMMONIA CONCENTRATION AT PVNGS FOR  
 TANK CAR RUPTURE MAIN CONTROL ROOM  
 CONCENTRATION

FIGURE 2.2-3b

JUNE 2011 REVISION 16



HELICOPTER PAD  
PREFERRED APPROACH

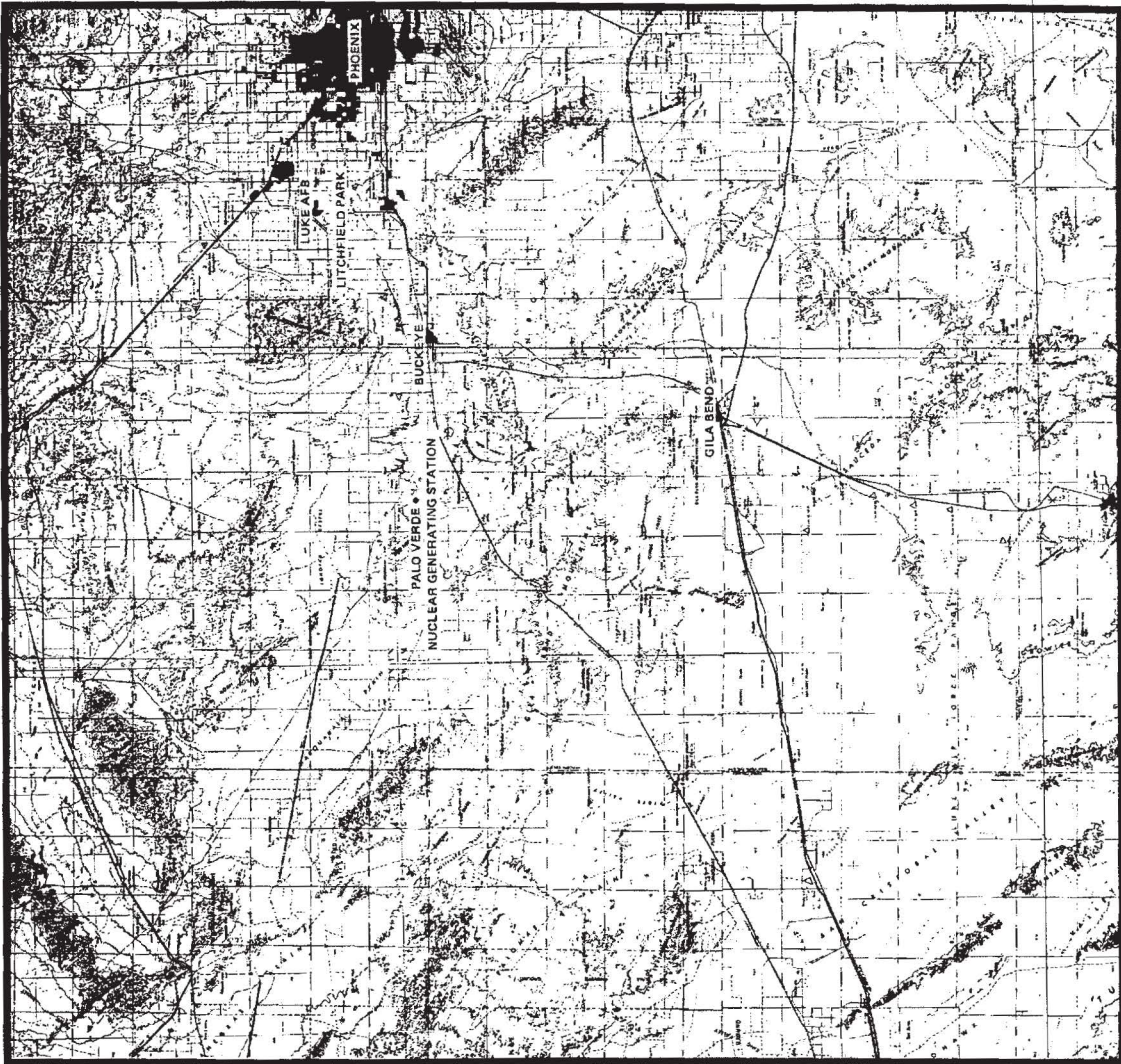
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HELICOPTER PAD AND PREFERRED APPROACH

FIGURE 2.2-4

JUNE 2015

REVISION 18

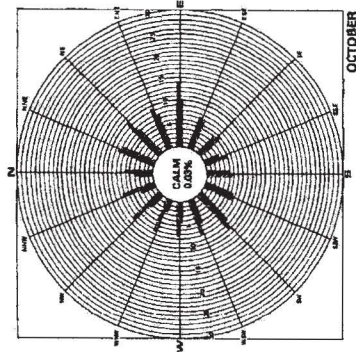
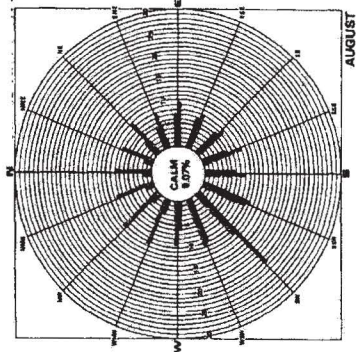
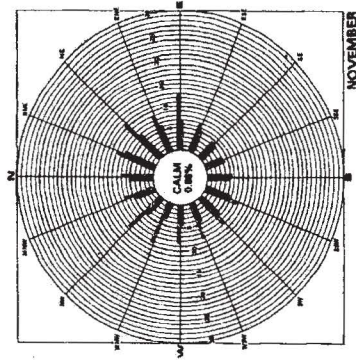
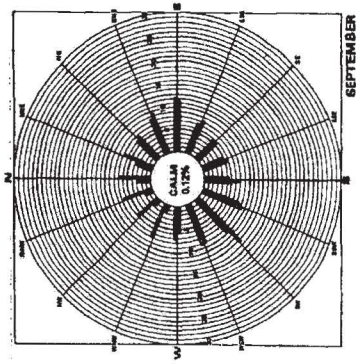


PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

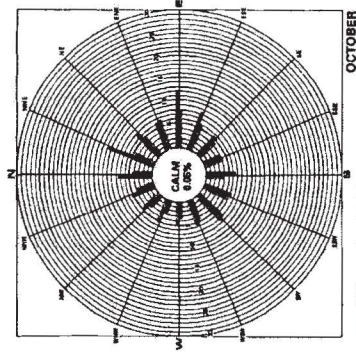
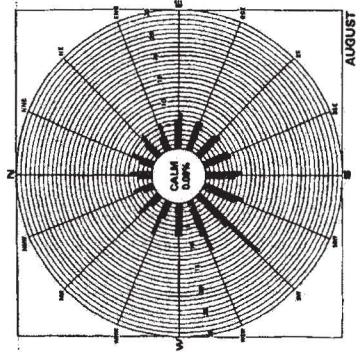
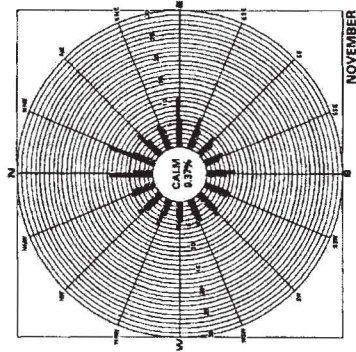
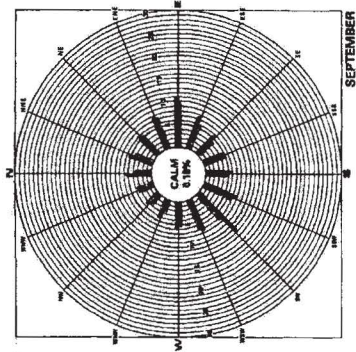
TOPOGRAPHIC REGIONAL SITE MAP

FIGURE 2.3-1

JUNE 2001 REVISION 11



200-FOOT WINDS



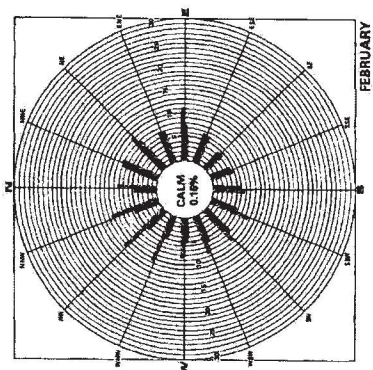
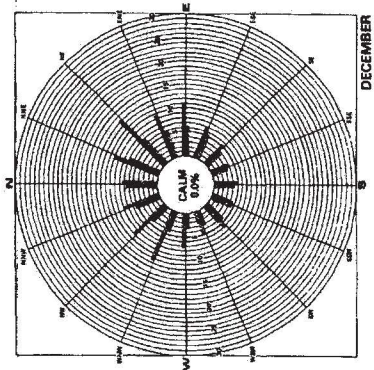
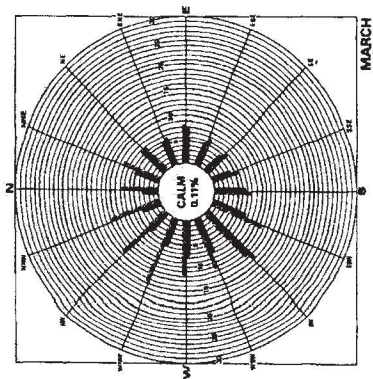
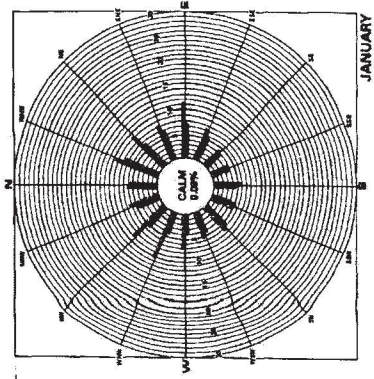
35-FOOT WINDS

— WIND DIRECTION (N)  
 — WIND SPEED (mi/h)

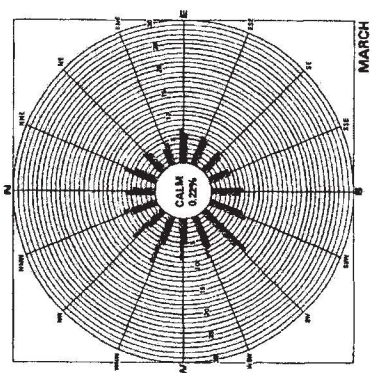
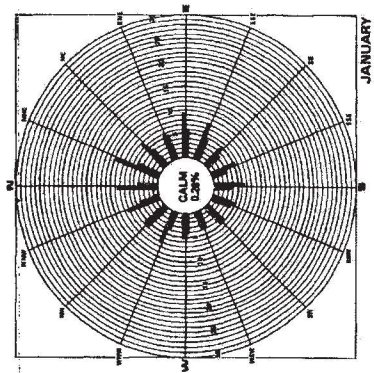
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

WIND ROSES -- PVNGS  
 AUGUST THROUGH NOVEMBER  
 AUGUST 13, 1973 to AUGUST 13, 1978

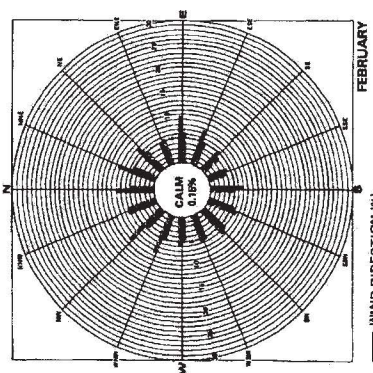
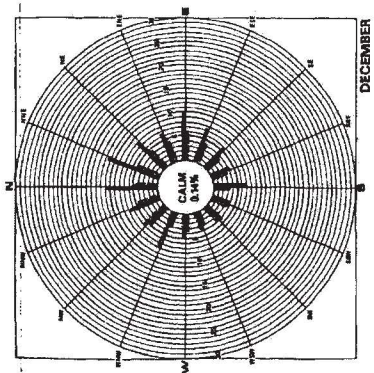
FIGURE 2.3-2



200-FOOT WINDS



35-FOOT WINDS

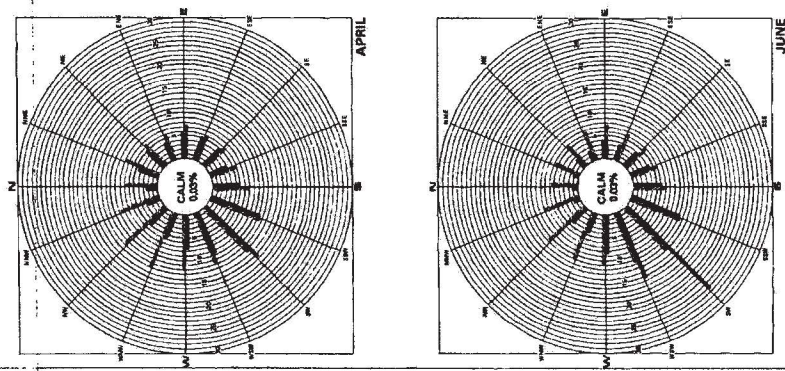
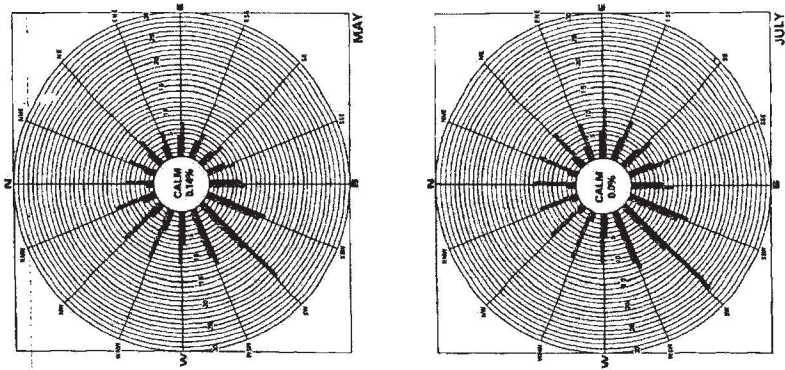


WIND DIRECTION (K)  
WIND SPEED (m/h)

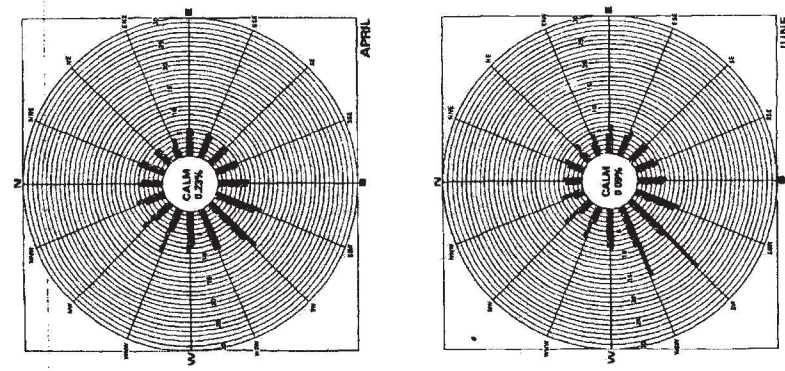
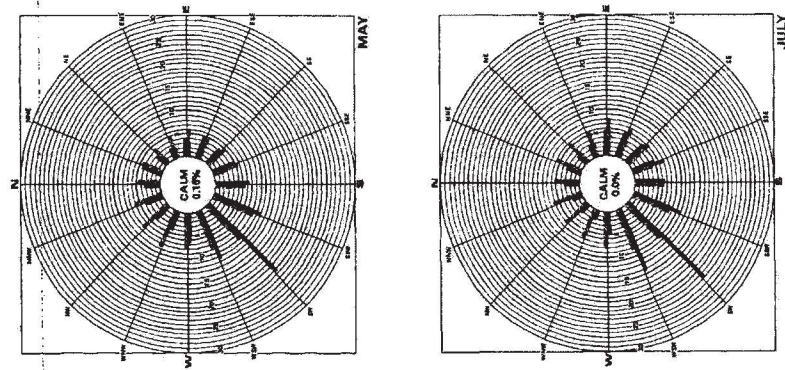
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

WIND ROSES -- PVNGS  
DECEMBER THROUGH MARCH  
AUGUST 13, 1973 to AUGUST 13, 1978

FIGURE 2.3-3



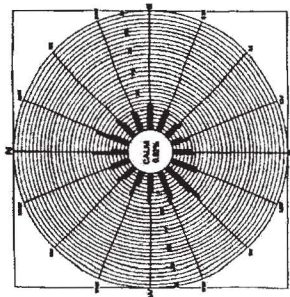
200-FOOT WINDS



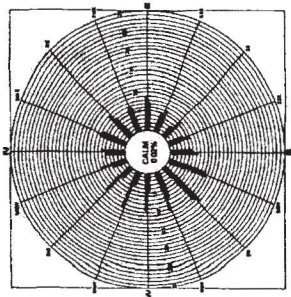
35-FOOT WINDS

WIND DIRECTION (°)  
WIND SPEED (mi/h)

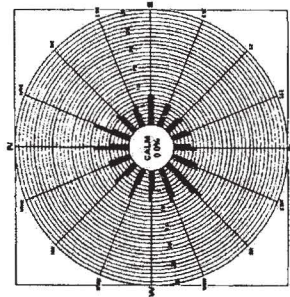
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 WIND ROSES -- PVNGS  
 APRIL THROUGH JULY  
 AUGUST 13, 1973 to AUGUST 13, 1978  
 FIGURE 2.3-4  
 JUNE 2001 REVISION 11



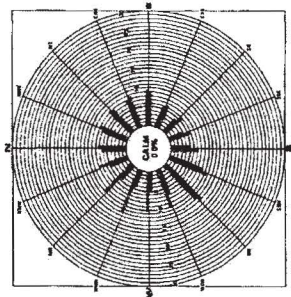
1977 to 1978



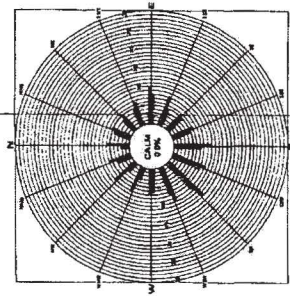
1977 to 1978



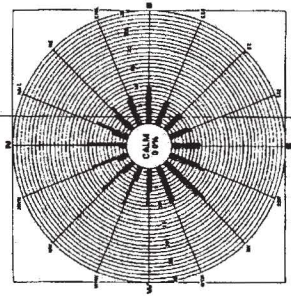
1976 to 1977



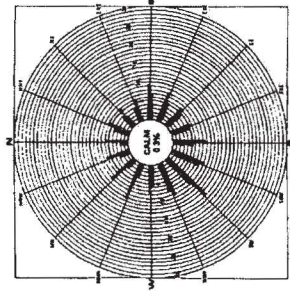
1976 to 1977



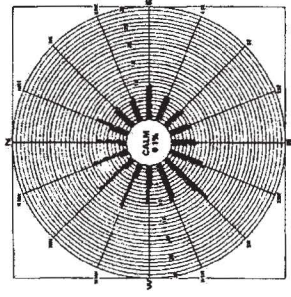
1975 to 1976  
38-FOOT LEVEL



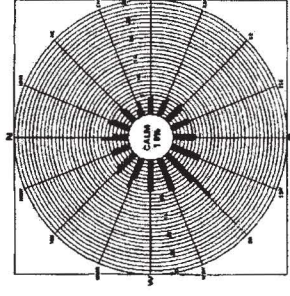
1975 to 1976  
200-FOOT LEVEL



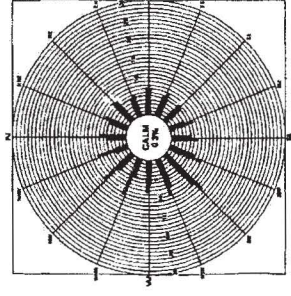
1974 to 1975



1974 to 1975



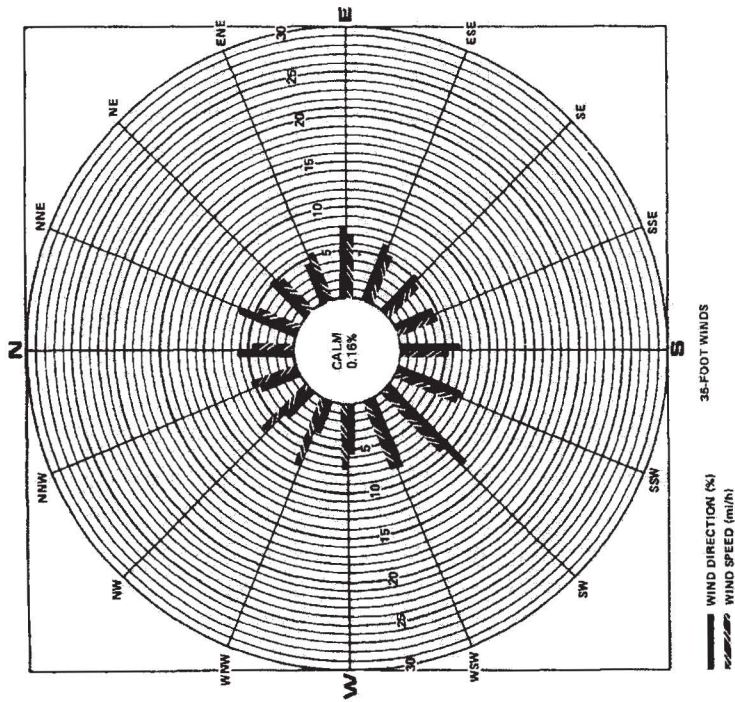
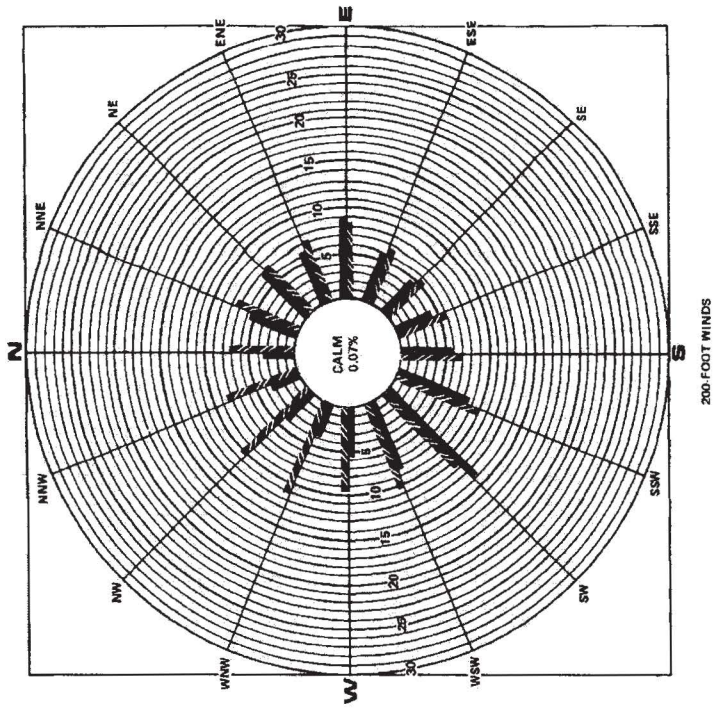
1973 to 1974



1973 to 1974

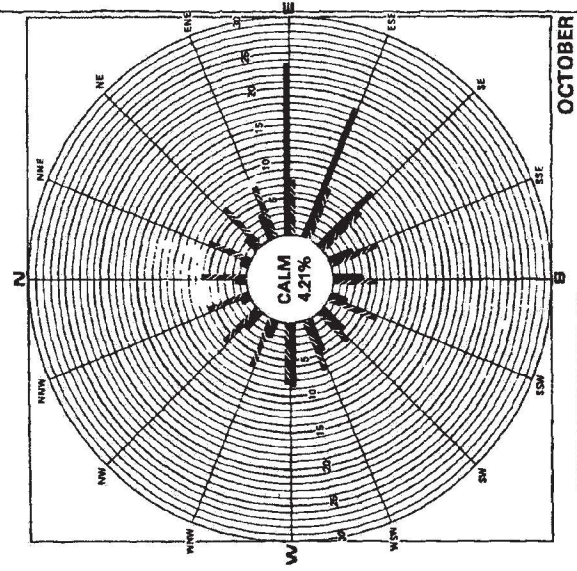
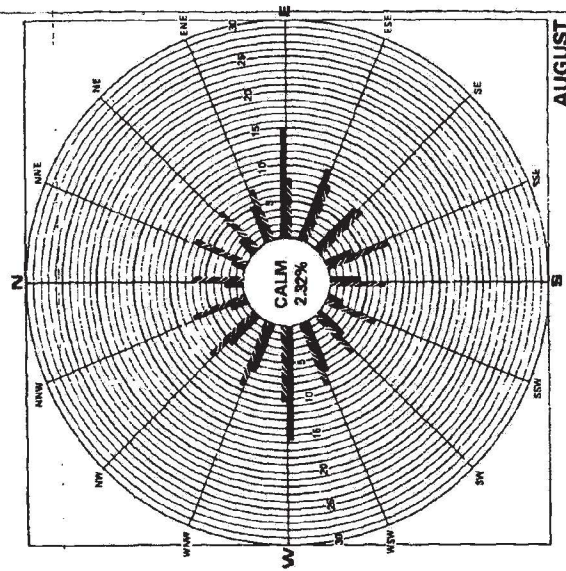
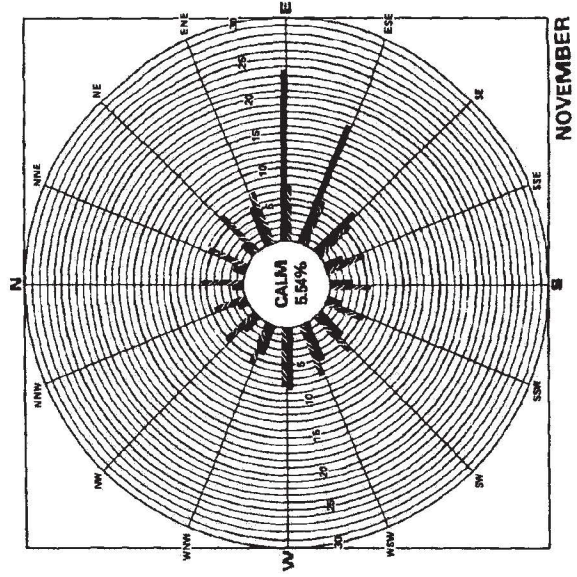
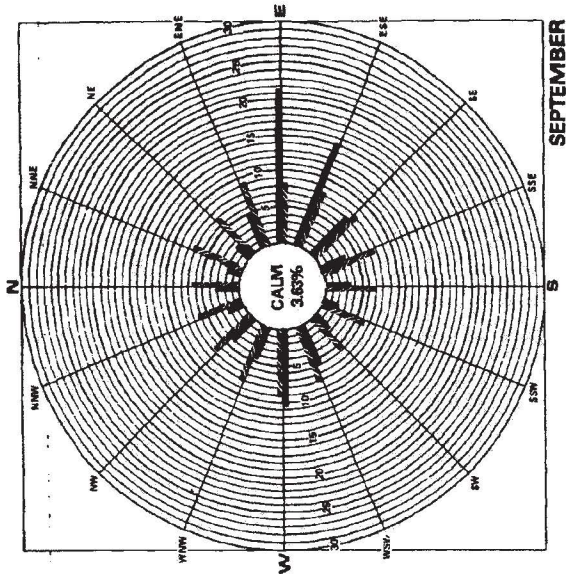
— WIND DIRECTION (%)  
— WIND SPEED (mi/h)

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 WIND ROSES -- PVNGS  
 AUGUST 13, 1973 to AUGUST 13, 1978  
 FIGURE 2.3-5  
 JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 WIND ROSES -- PVNGS,  
 AUGUST 13, 1973 to AUGUST 13, 1978  
 FIGURE 2.3-6  
 JUNE 2001 REVISION 11





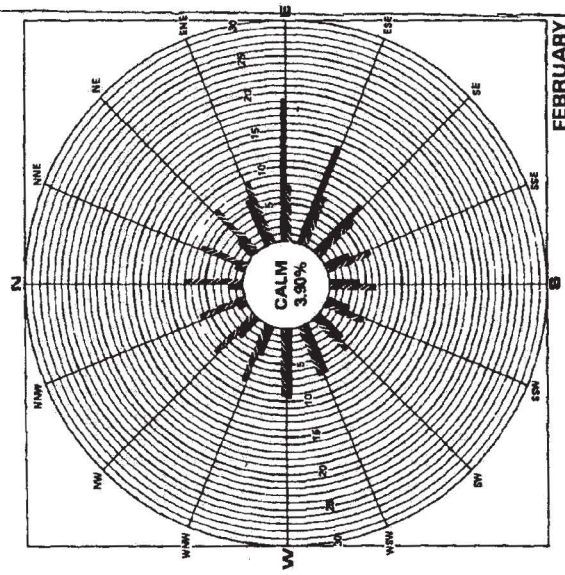
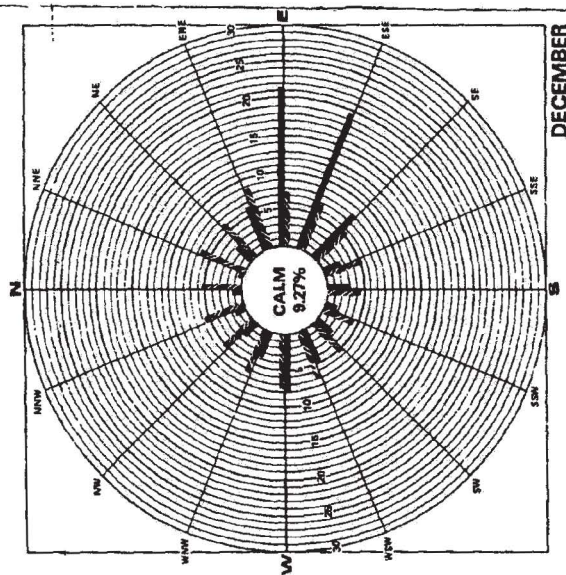
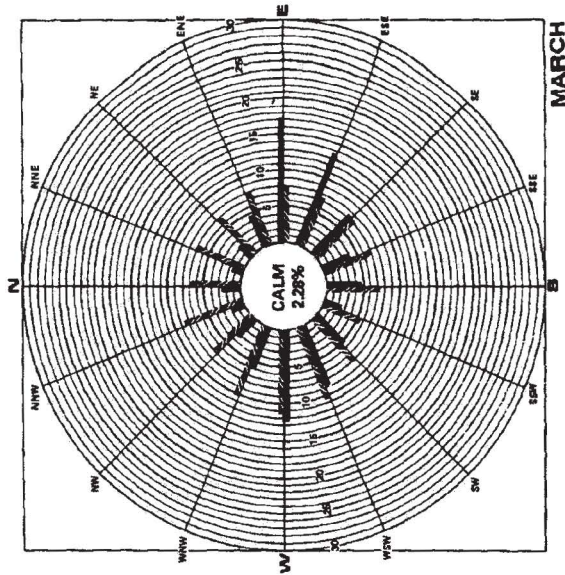
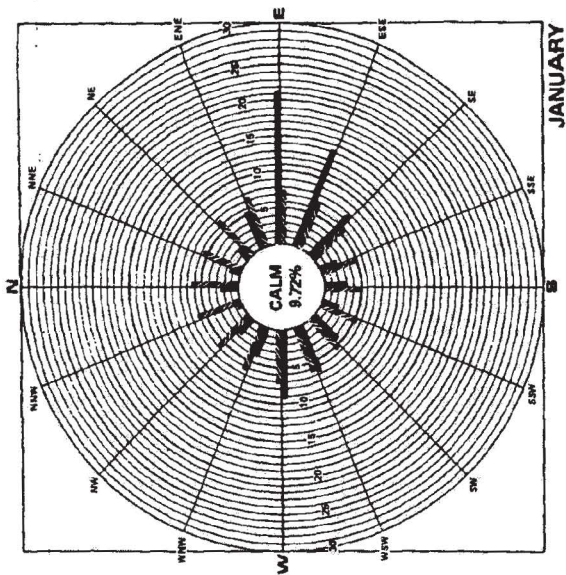
— WIND DIRECTION (%)  
 — WIND SPEED (m/h)

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

WIND ROSES -- PVNGS,  
 AUGUST THROUGH NOVEMBER  
 AUGUST 13, 1973 to AUGUST 13, 1978

FIGURE 2.3-7

JUNE 2001 REVISION 11



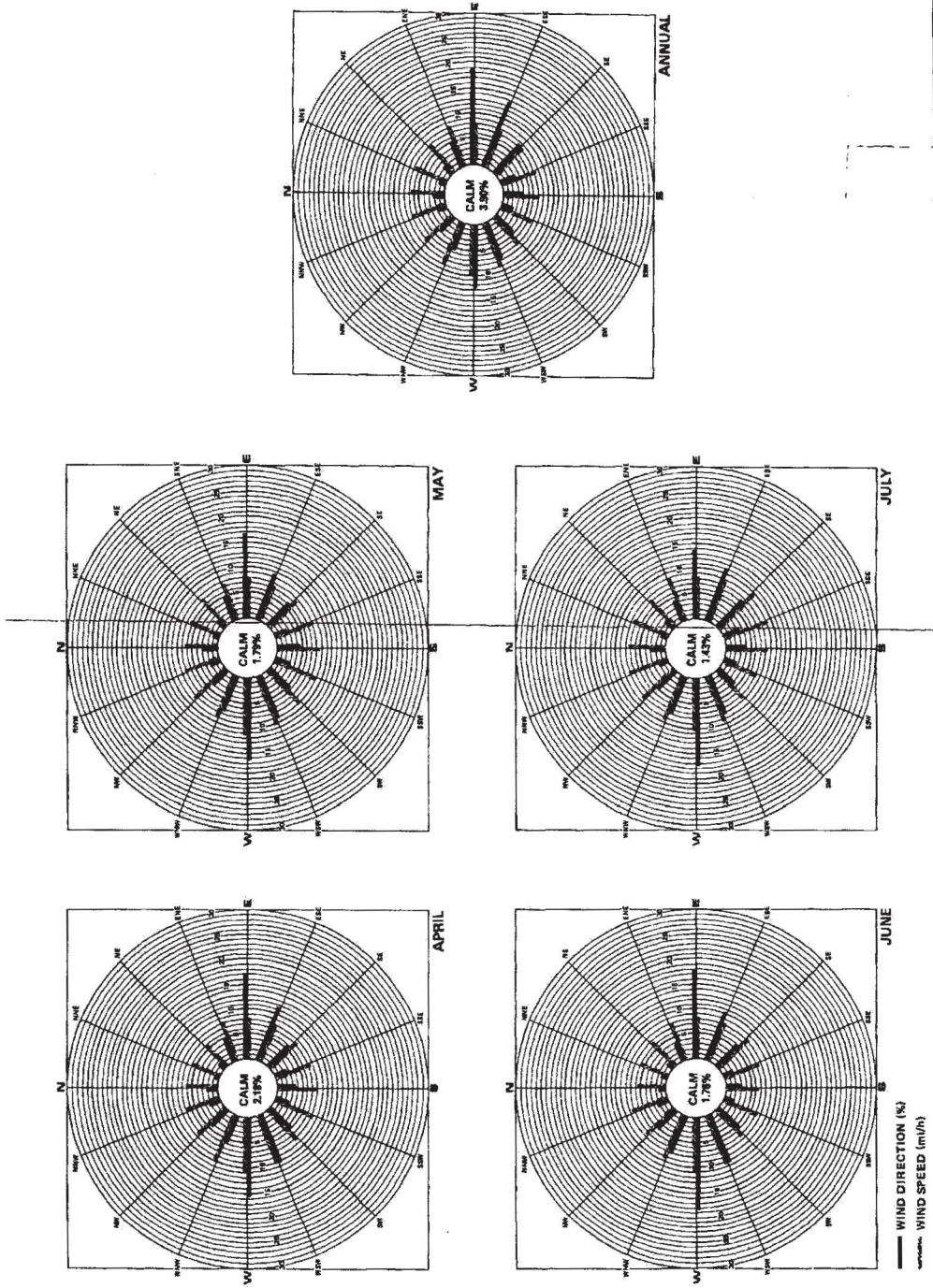
— WIND DIRECTION (%)  
 --- WIND SPEED (mi/h)

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

WIND ROSES -- PVNGS,  
 DECEMBER THROUGH MARCH  
 AUGUST 13, 1973 to AUGUST 13, 1978

FIGURE 2.3-8

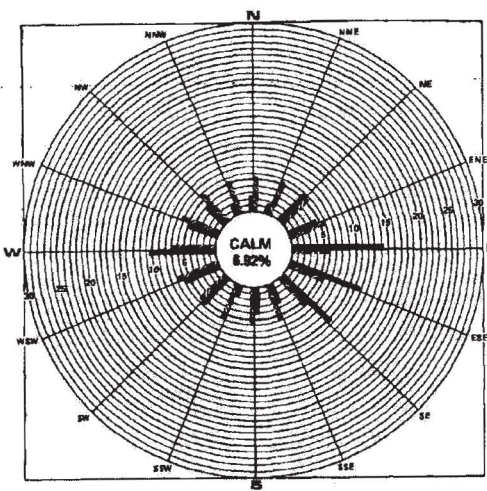
JUNE 2001 REVISION 11



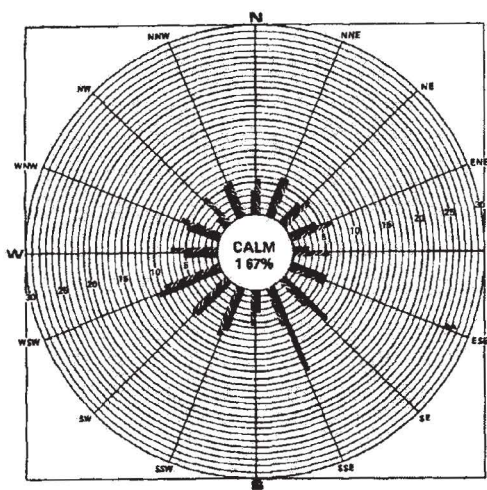
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

WIND ROSES -- PVNGS,  
 APRIL THROUGH JULY, AND ANNUAL  
 AUGUST 13, 1973 to AUGUST 13, 1978

FIGURE 2.3-9

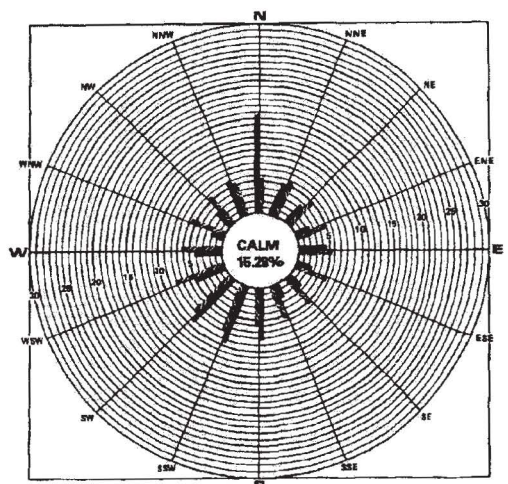


PHOENIX  
(JANUARY 1960 to DECEMBER 1964)



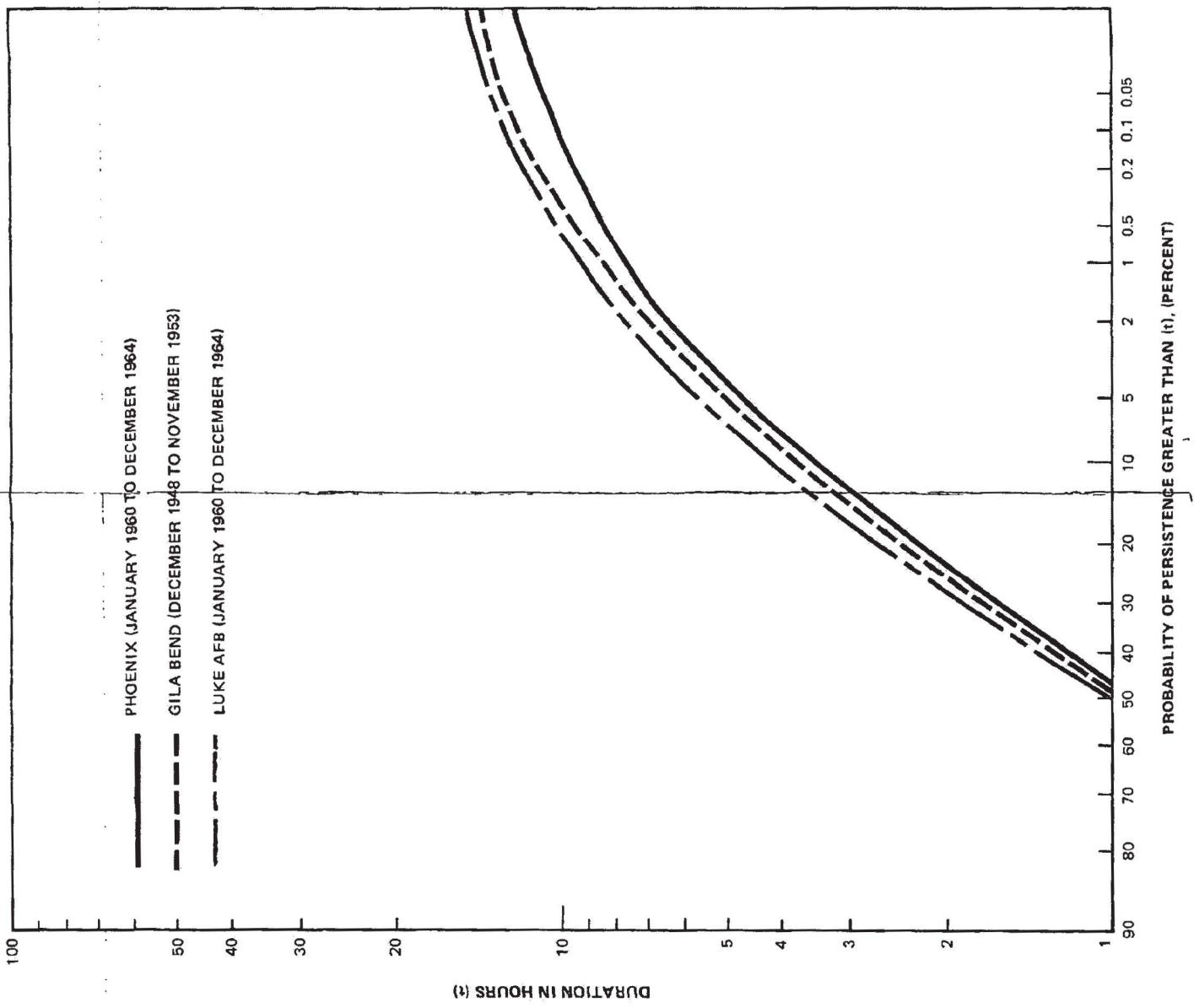
GILA BEND  
(DECEMBER 1948 to NOVEMBER 1953)

— WIND DIRECTION (%)  
 — WIND SPEED (KNOTS)



LUKE AIR FORCE BASE  
(JANUARY 1960 to DECEMBER 1964)

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 ANNUAL WIND ROSES FOR PHOENIX,  
 GILA BEND, AND LUKE AIR FORCE BASE  
 FIGURE 2.3-10  
 JUNE 2001  
 REVISION 11

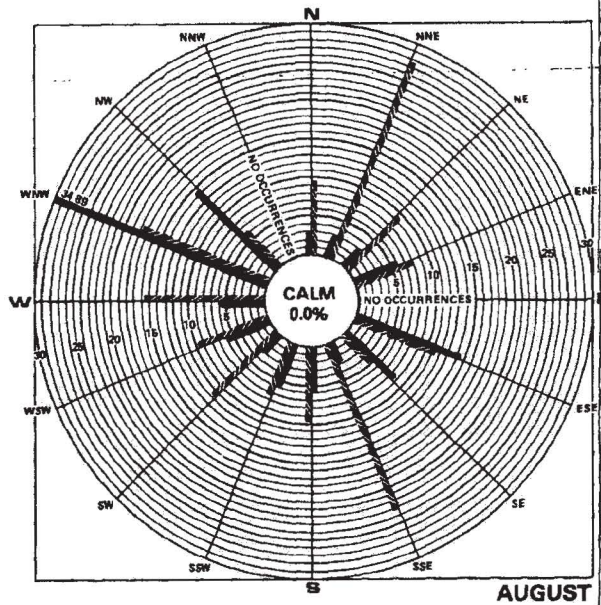


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

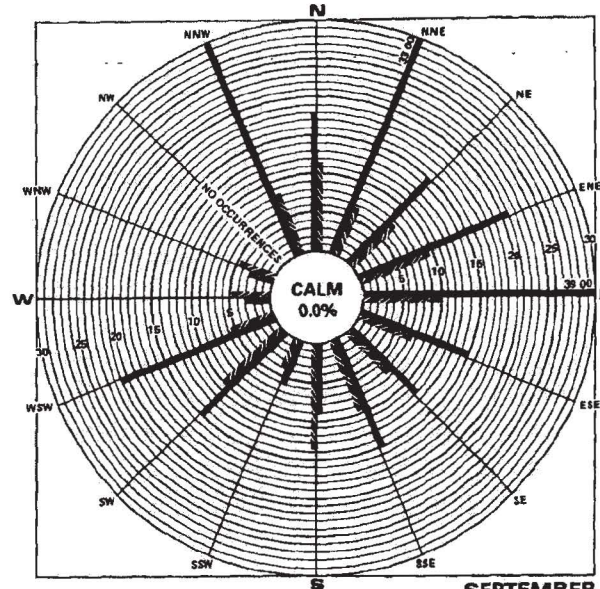
WIND DIRECTION PERSISTENCE (%), ONE SECTOR  
 (22-1/2 deg) INCLUDING CALMS, FOR PHOENIX,  
 GILA BEND, AND LUKE AIR FORCE BASE

FIGURE 2.3-11

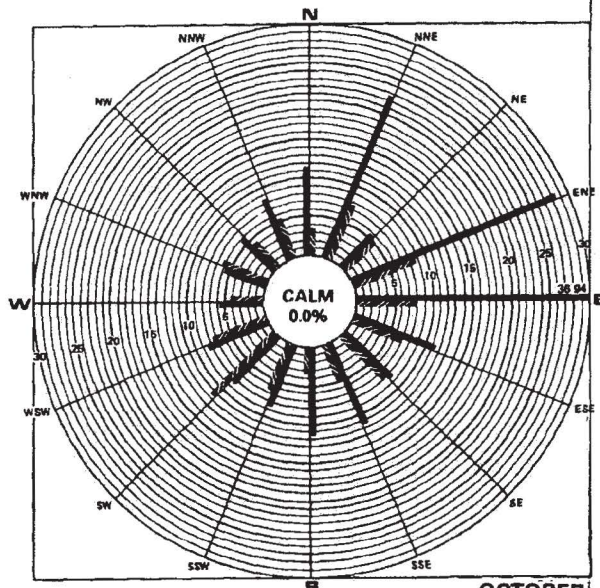
JUNE 2001
REVISION 11



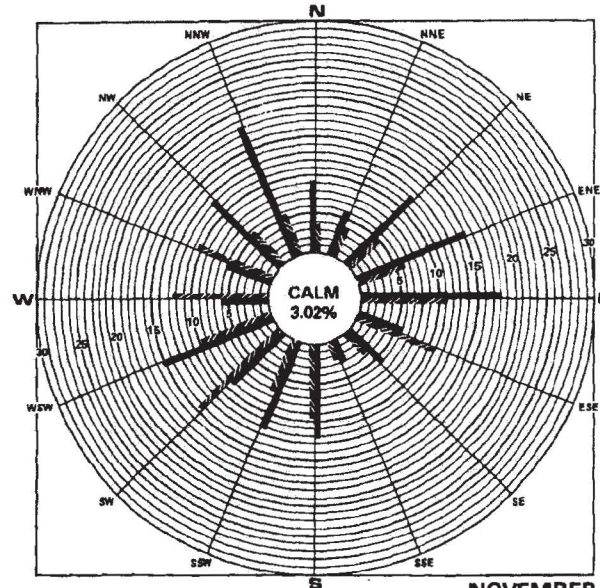
AUGUST



SEPTEMBER



OCTOBER



NOVEMBER

— WIND DIRECTION (%)  
 - - - WIND SPEED (mi/h)

NOTE: PERCENTAGES ARE PERCENT x 100  
 EXCEPT WHERE NOTED

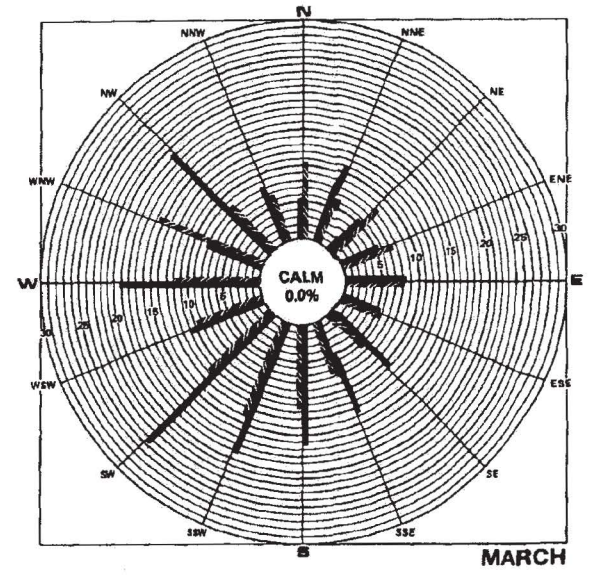
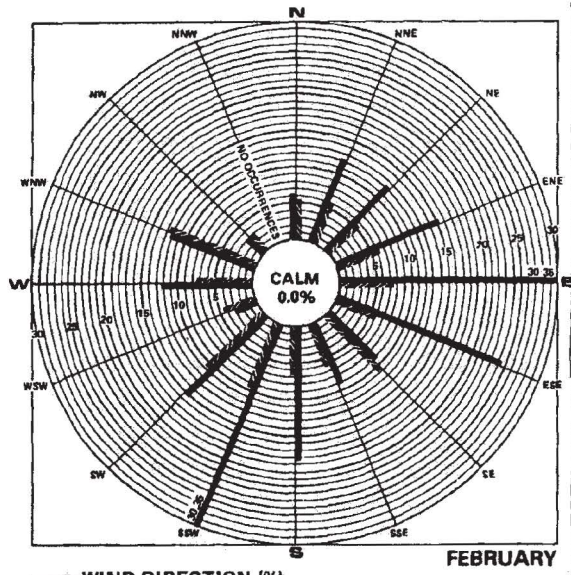
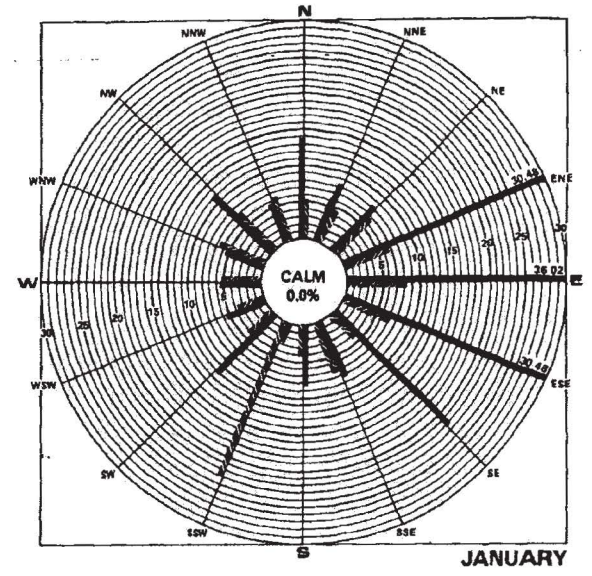
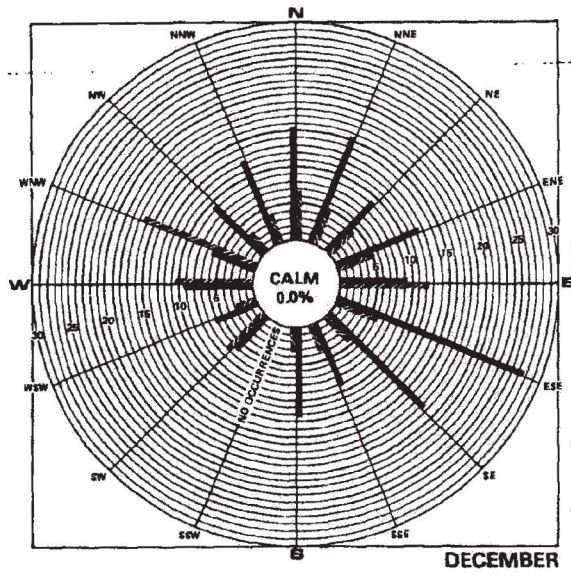
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

PRECIPITATION WIND ROSES  
 (35-FOOT WINDS) PVNGS,  
 AUGUST THROUGH NOVEMBER  
 AUGUST 13, 1973 TO AUGUST 13, 1978

FIGURE 2.3-12

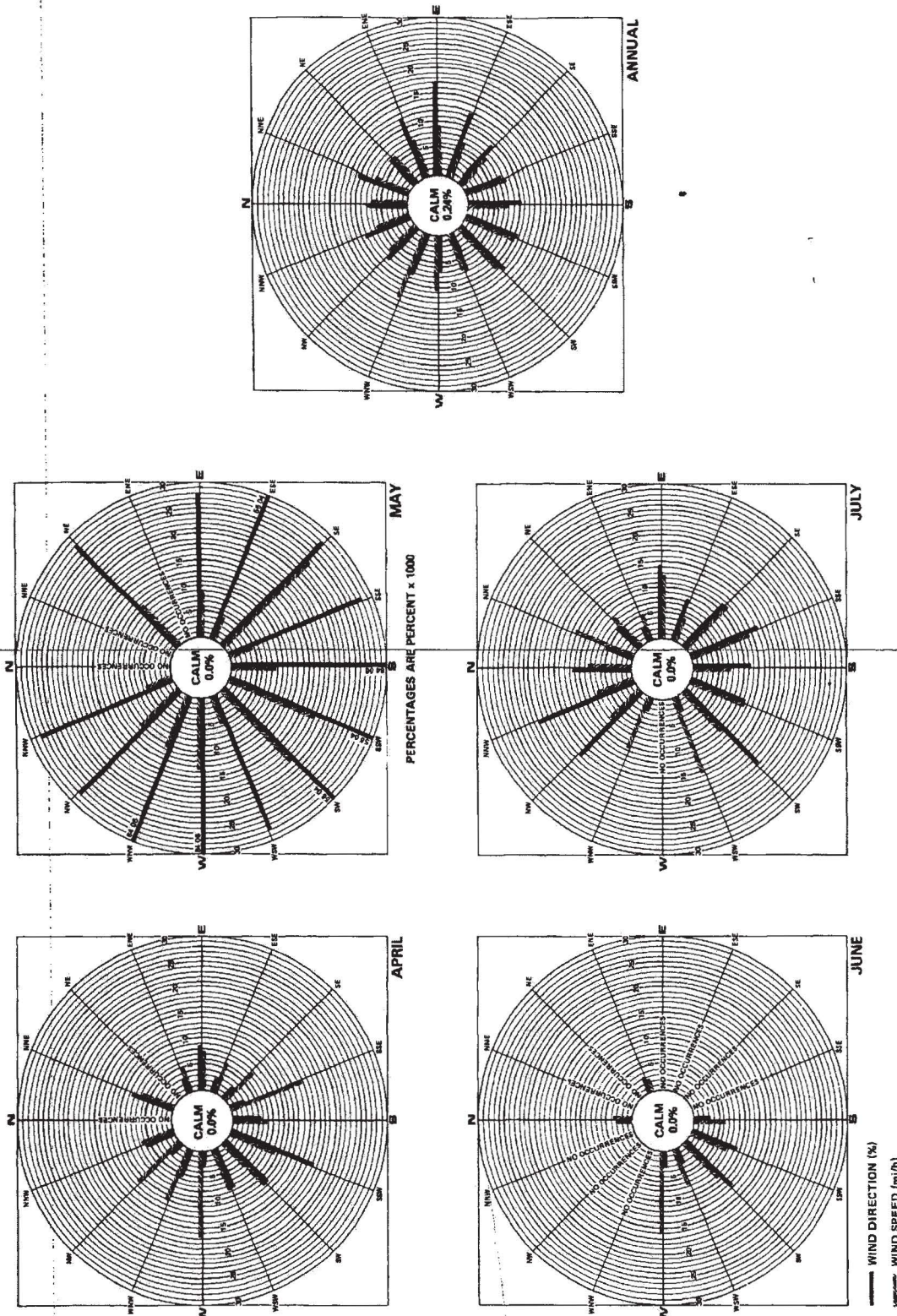
JUNE 2001

REVISION 11



NOTE: PERCENTAGES ARE PERCENT x 100 EXCEPT WHERE NOTED

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 PRECIPITATION WIND ROSES  
 (35-FOOT WINDS)-- PVNGS,  
 DECEMBER THROUGH MARCH  
 AUGUST 13, 1973 TO AUGUST 13, 1978  
 JUNE 2001  
 REVISION 11  
 FIGURE 2.3-13



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

PRECIPITATION WIND ROSES (35-FOOT WINDS)--  
 PVNGS, APRIL THROUGH JULY, AND ANNUAL  
 AUGUST 13, 1973 TO AUGUST 13, 1978

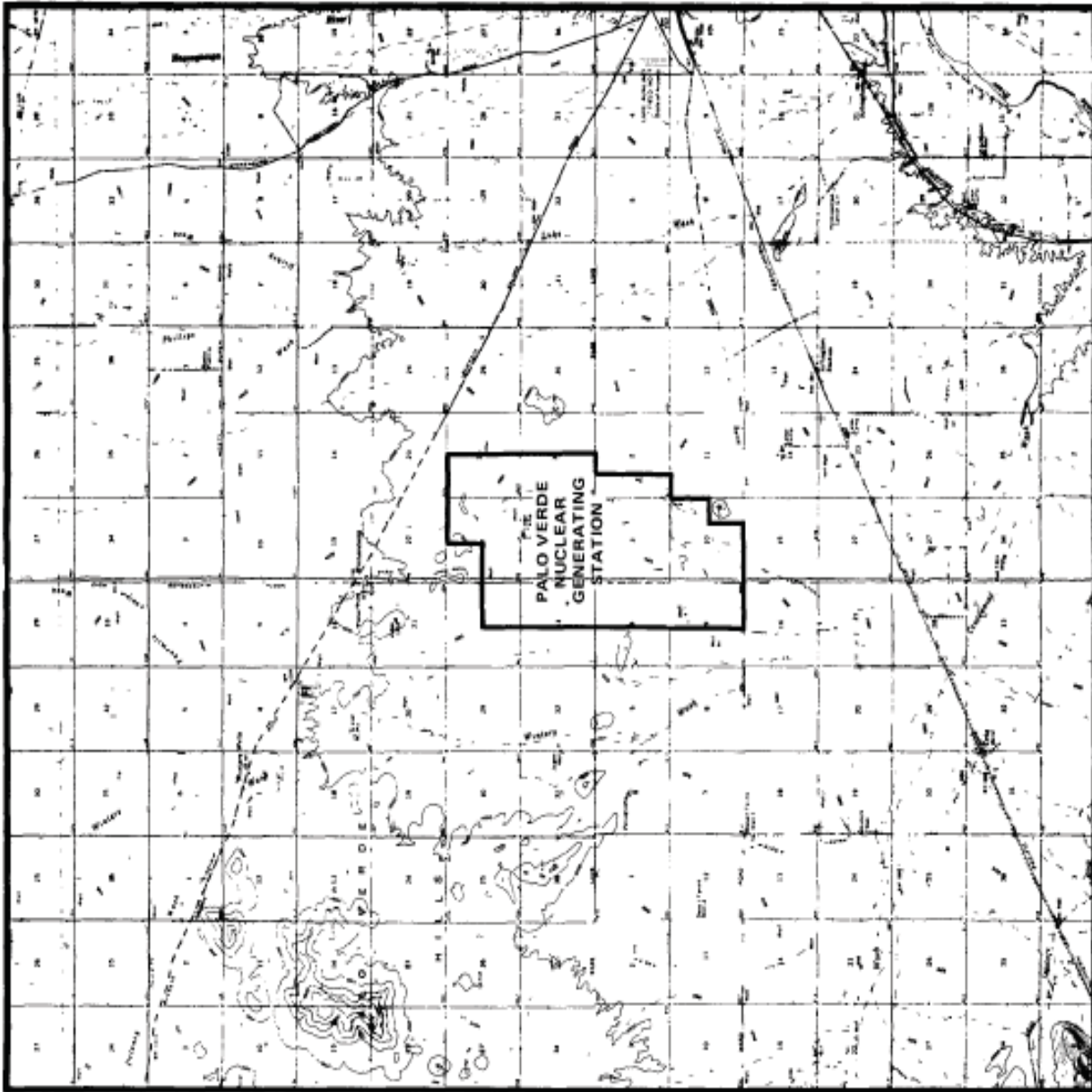
FIGURE 2.3-14

JUNE 2001

REVISION 11

NOTE: PERCENTAGES ARE PERCENT x 100.  
 EXCEPT WHERE NOTED





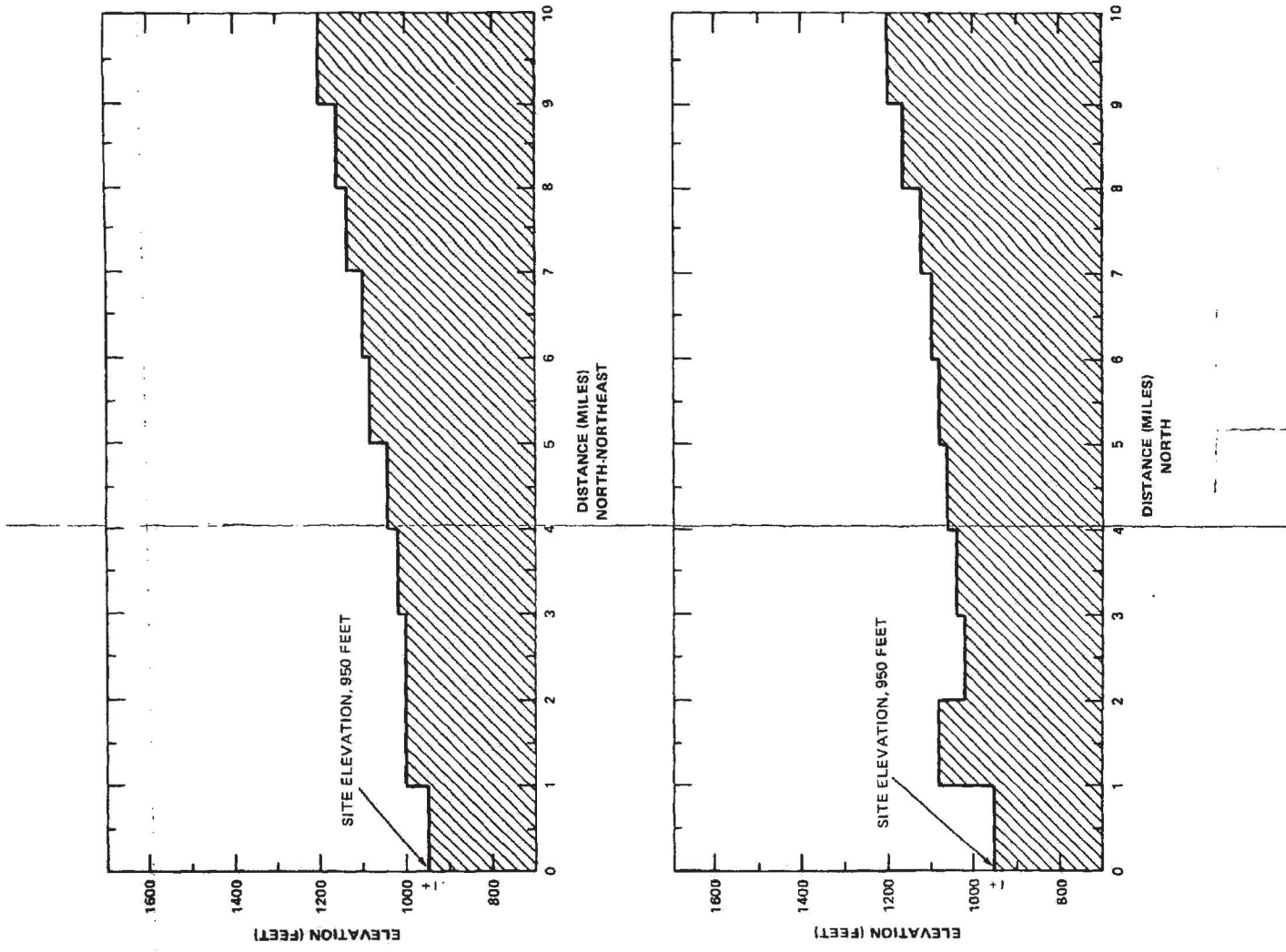
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

TOPOGRAPHIC MAP WITHIN A 5-MILE RADIUS  
OF THE PVNGS SITE

FIGURE 2.3-15

JUNE 2009

REVISION 15

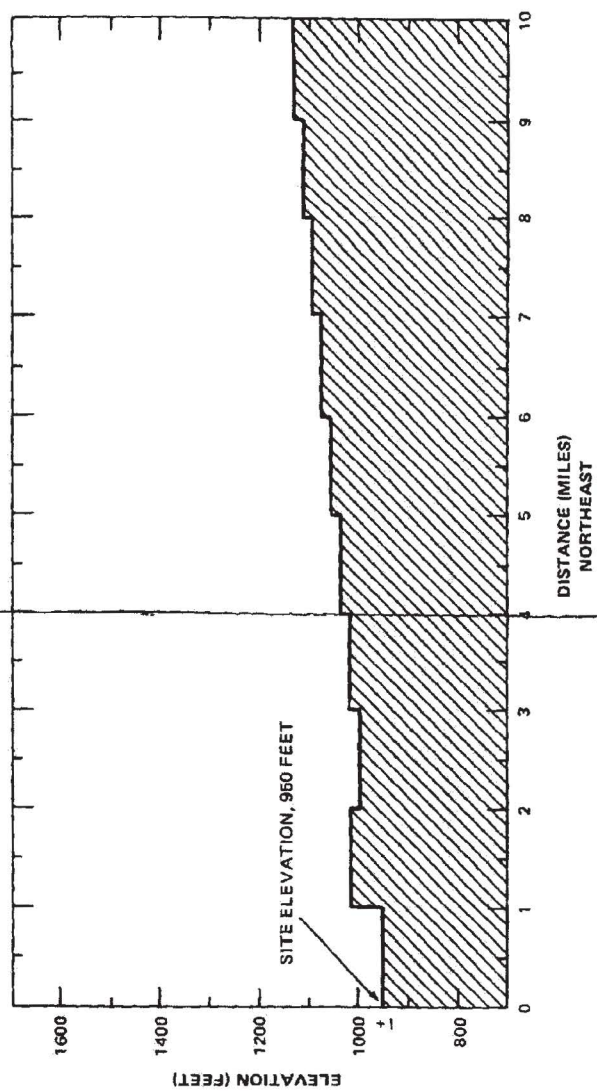
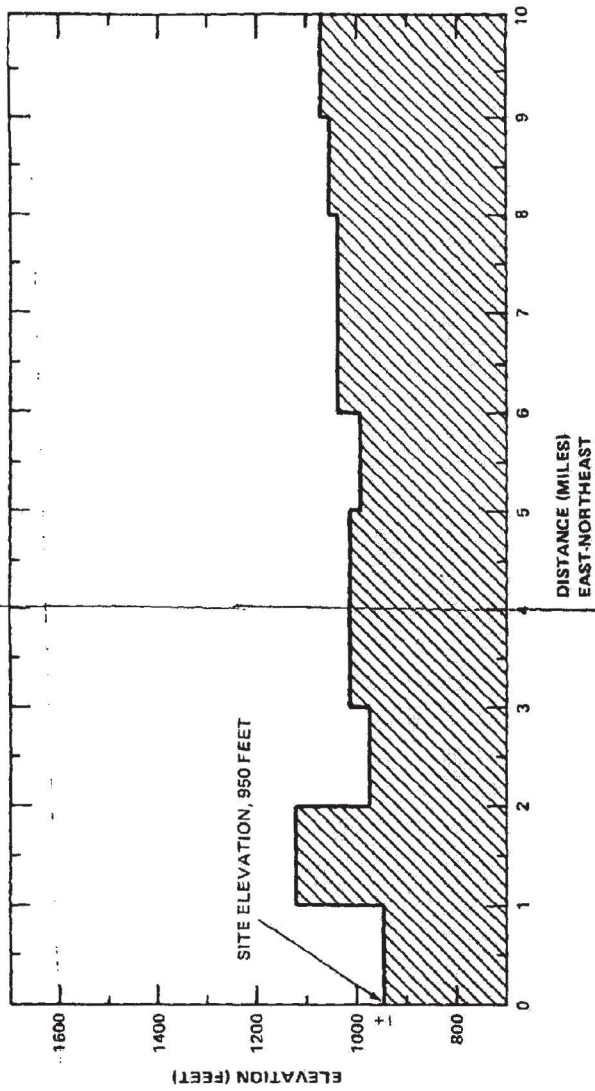


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

TOPOGRAPHIC HIGH POINTS TO 10 MILES  
 NORTH AND NORTH-NORTHEAST OF PVNGS

FIGURE 2.3-16

JUNE 2001 REVISION 11

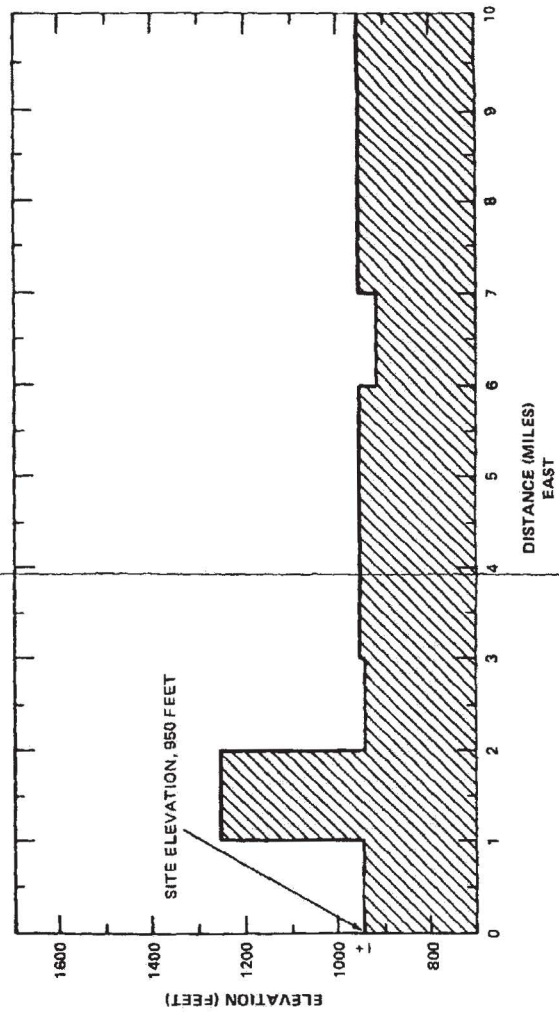
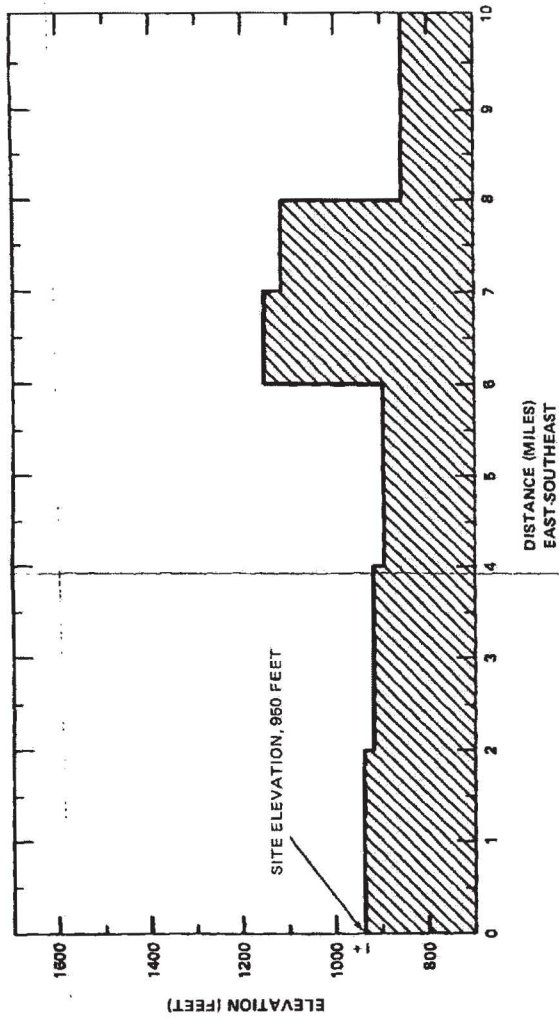


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

TOPOGRAPHIC HIGH POINTS TO 10 MILES  
 NORTHEAST AND EAST-NORTHEAST OF  
 PVNGS

FIGURE 2.3-17

JUNE 2001 REVISION 11

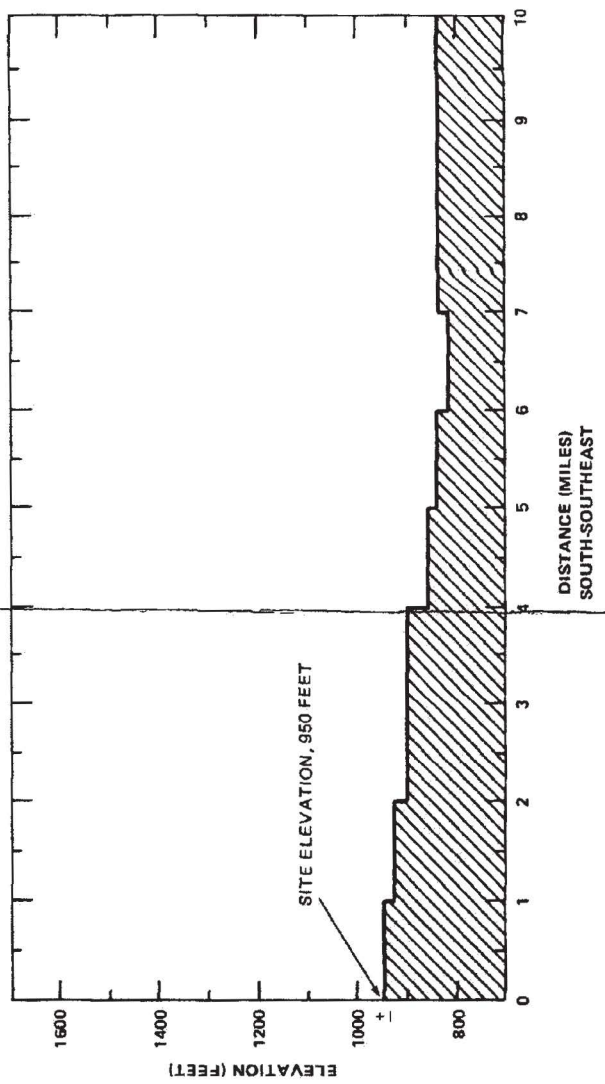
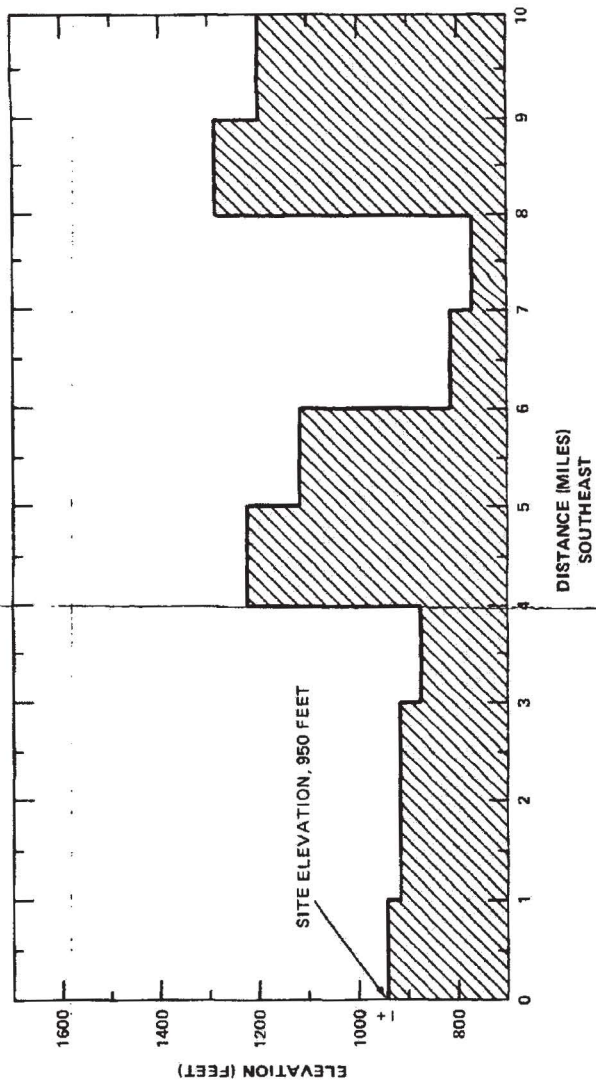


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

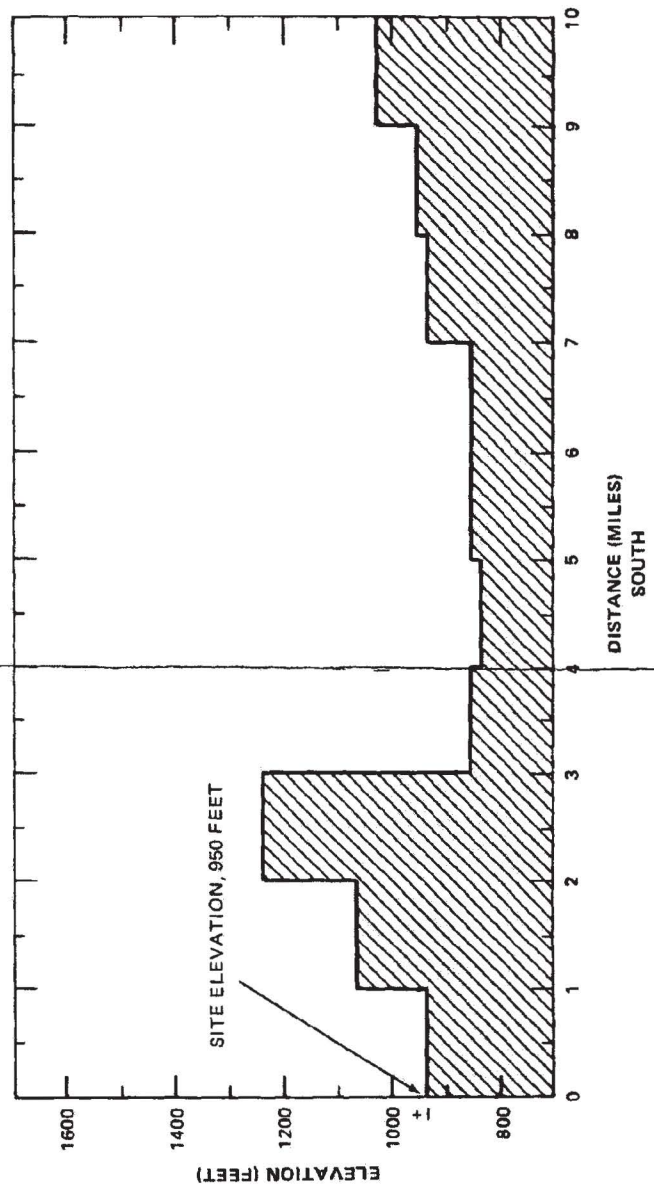
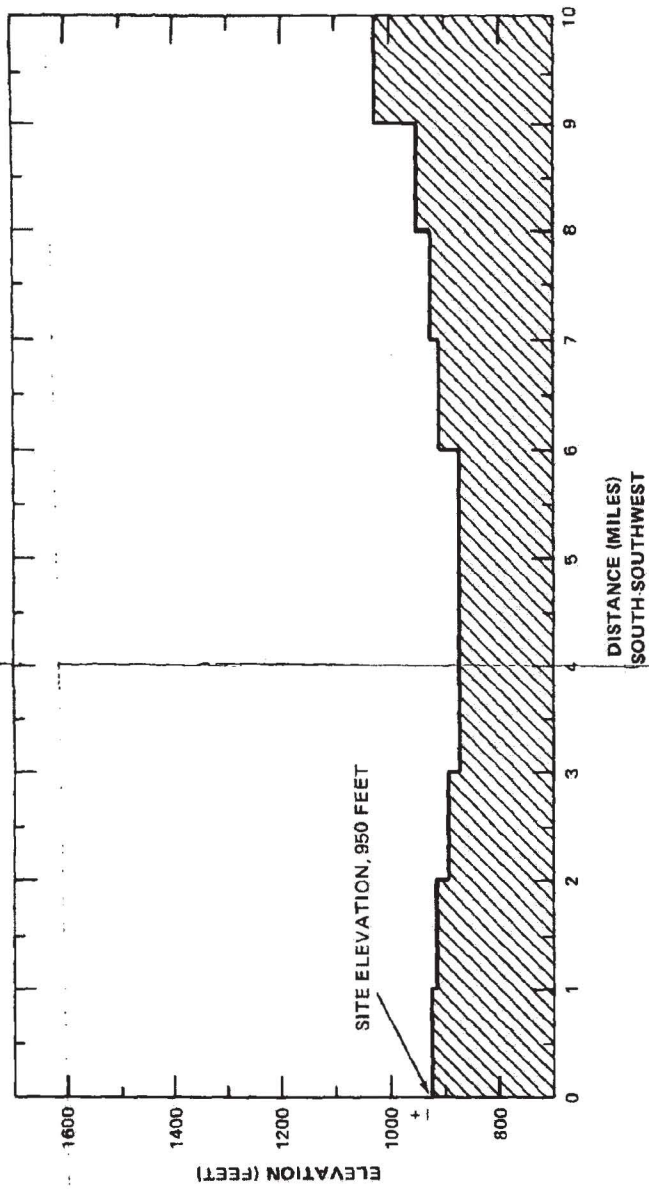
TOPOGRAPHIC HIGH POINTS TO 10 MILES EAST  
 AND EAST-SOUTHEAST OF PVNGS

FIGURE 2.3-18

JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 TOPOGRAPHIC HIGH POINTS TO 10 MILES SOUTHEAST  
 AND SOUTH-SOUTHEAST OF PVNGS  
 FIGURE 2.3-19  
 JUNE 2001 REVISION 11

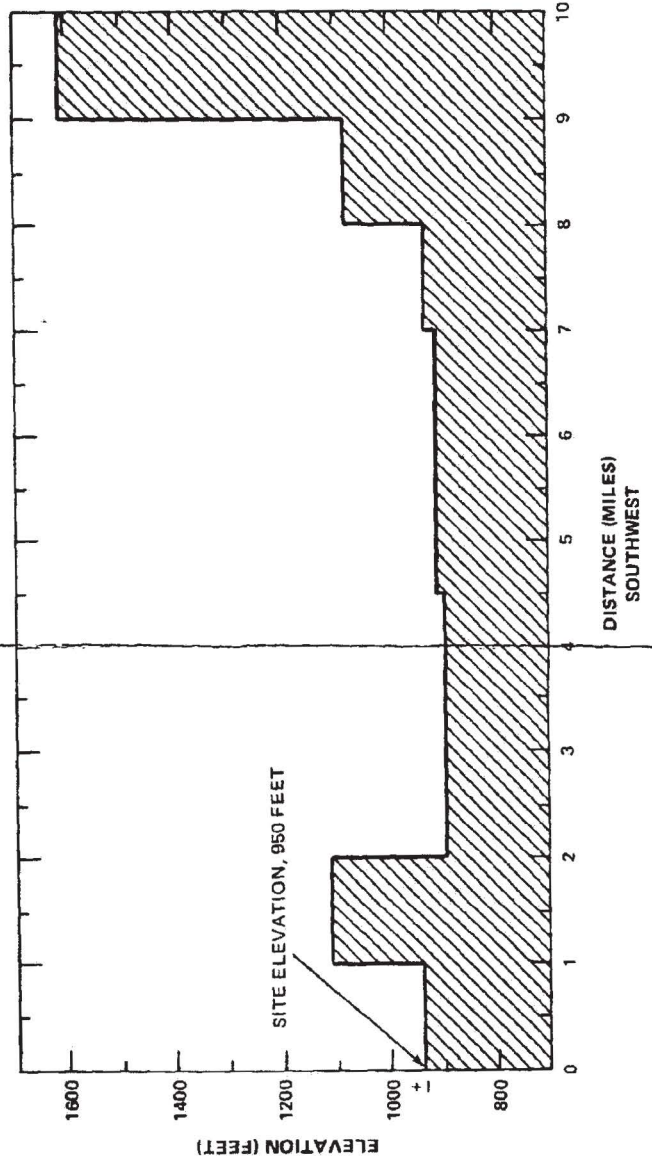
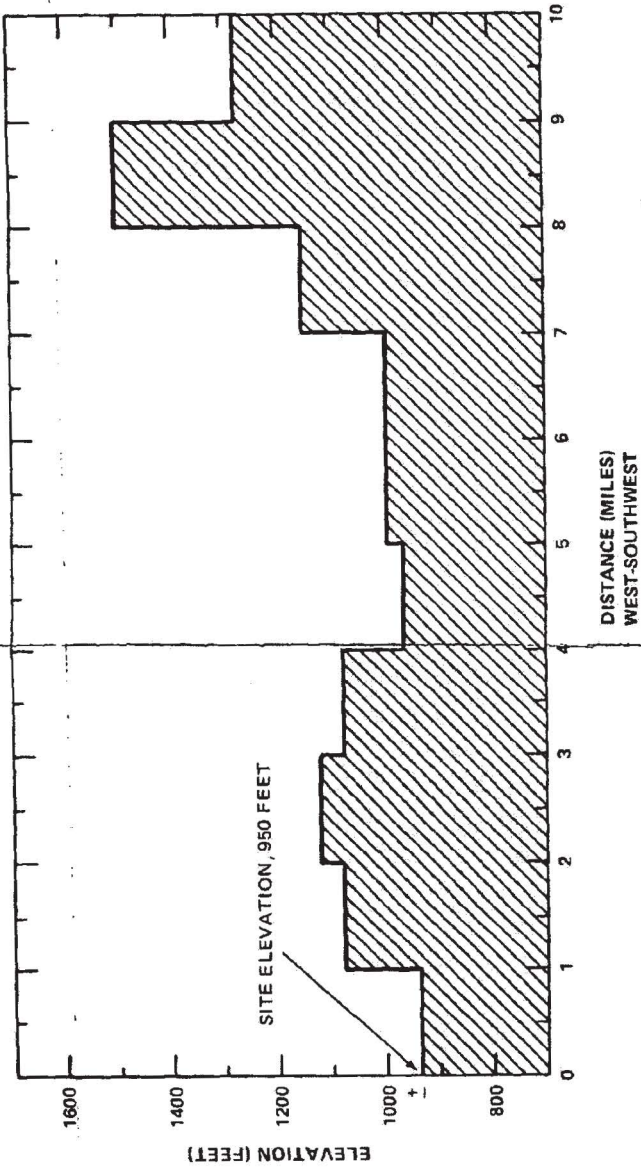


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

TOPOGRAPHIC HIGH POINTS TO 10 MILES SOUTH  
 AND SOUTH-SOUTHWEST OF PVNGS

FIGURE 2.3-20

JUNE 2001 REVISION 11



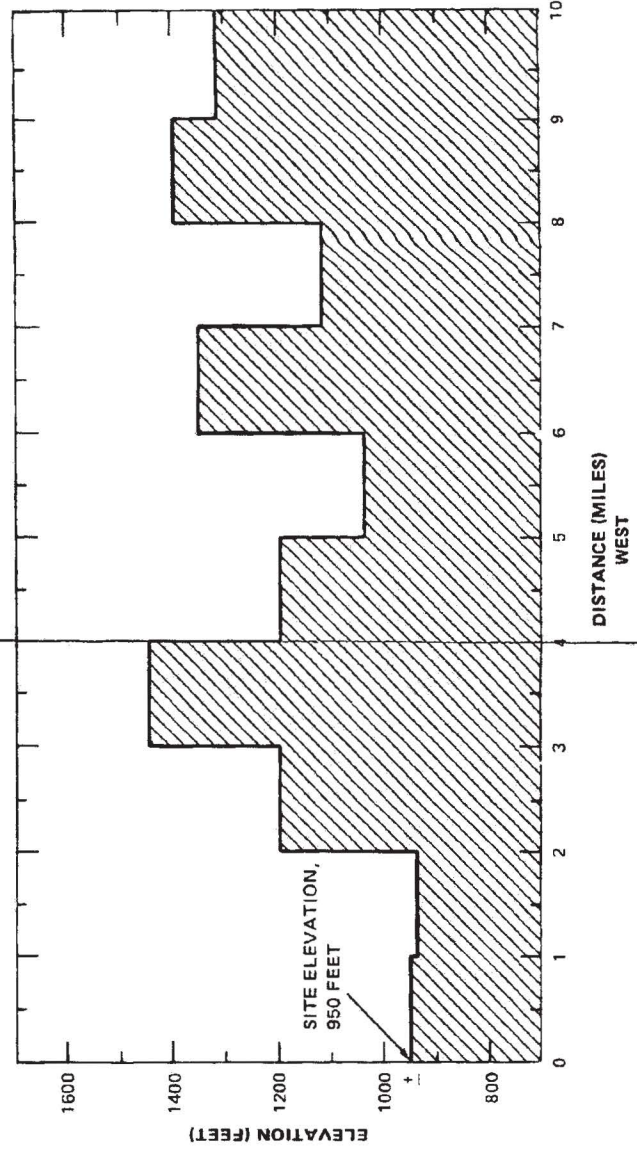
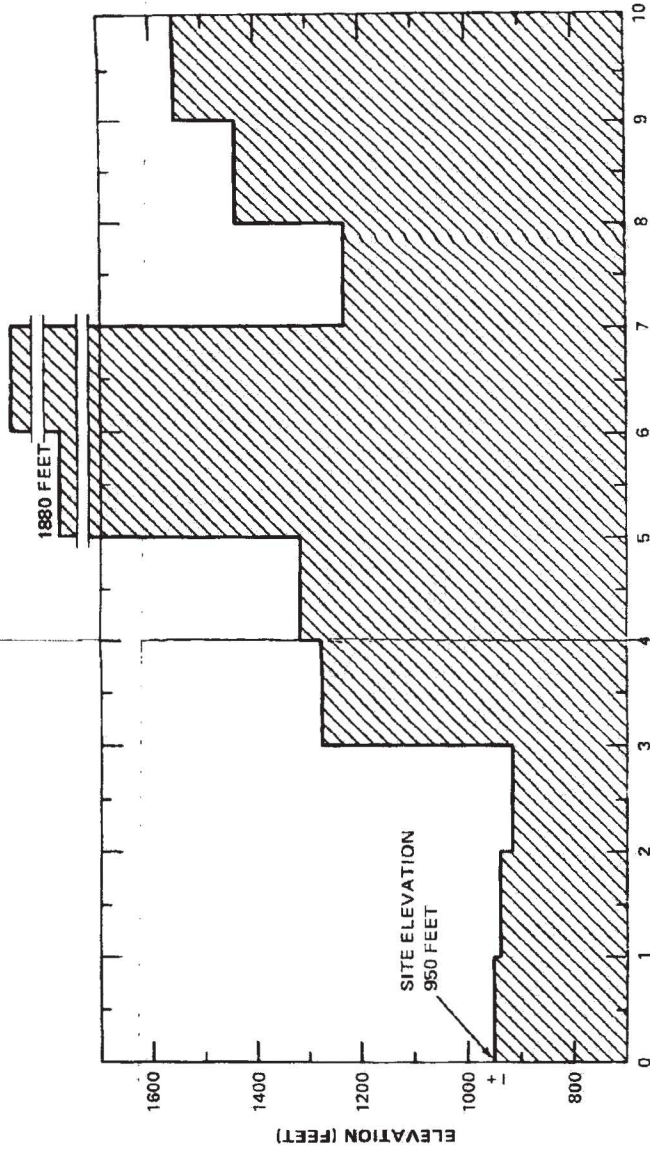
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

TOPOGRAPHIC HIGH POINTS TO 10 MILES  
SOUTHWEST AND WEST-SOUTHWEST OF PVNGS

FIGURE 2.3-21

JUNE 2001

REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

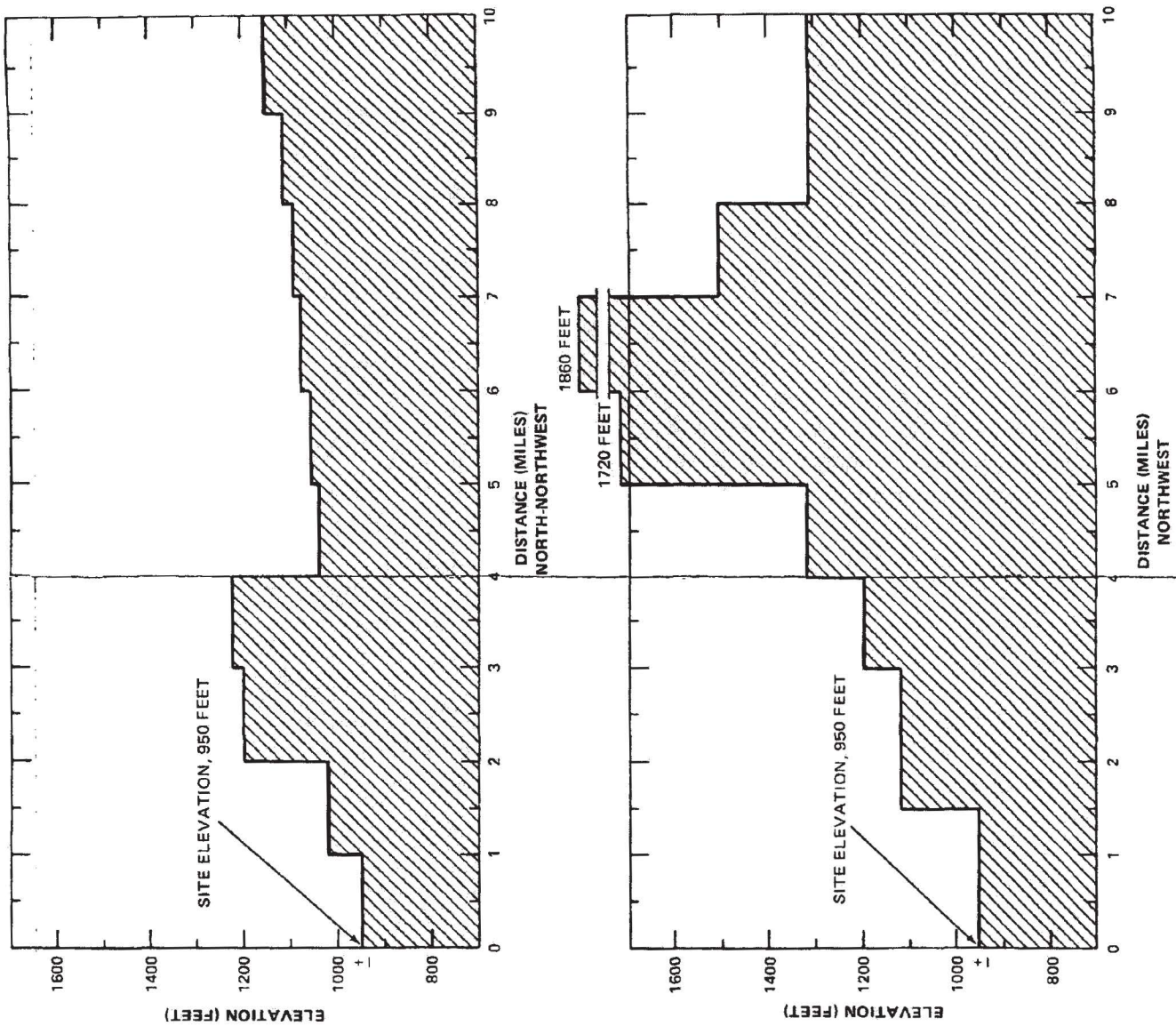
TOPOGRAPHIC HIGH POINTS TO 10 MILES WEST  
 AND WEST-NORTHWEST OF PVNGS

FIGURE 2.3-22

JUNE 2001

REVISION 11



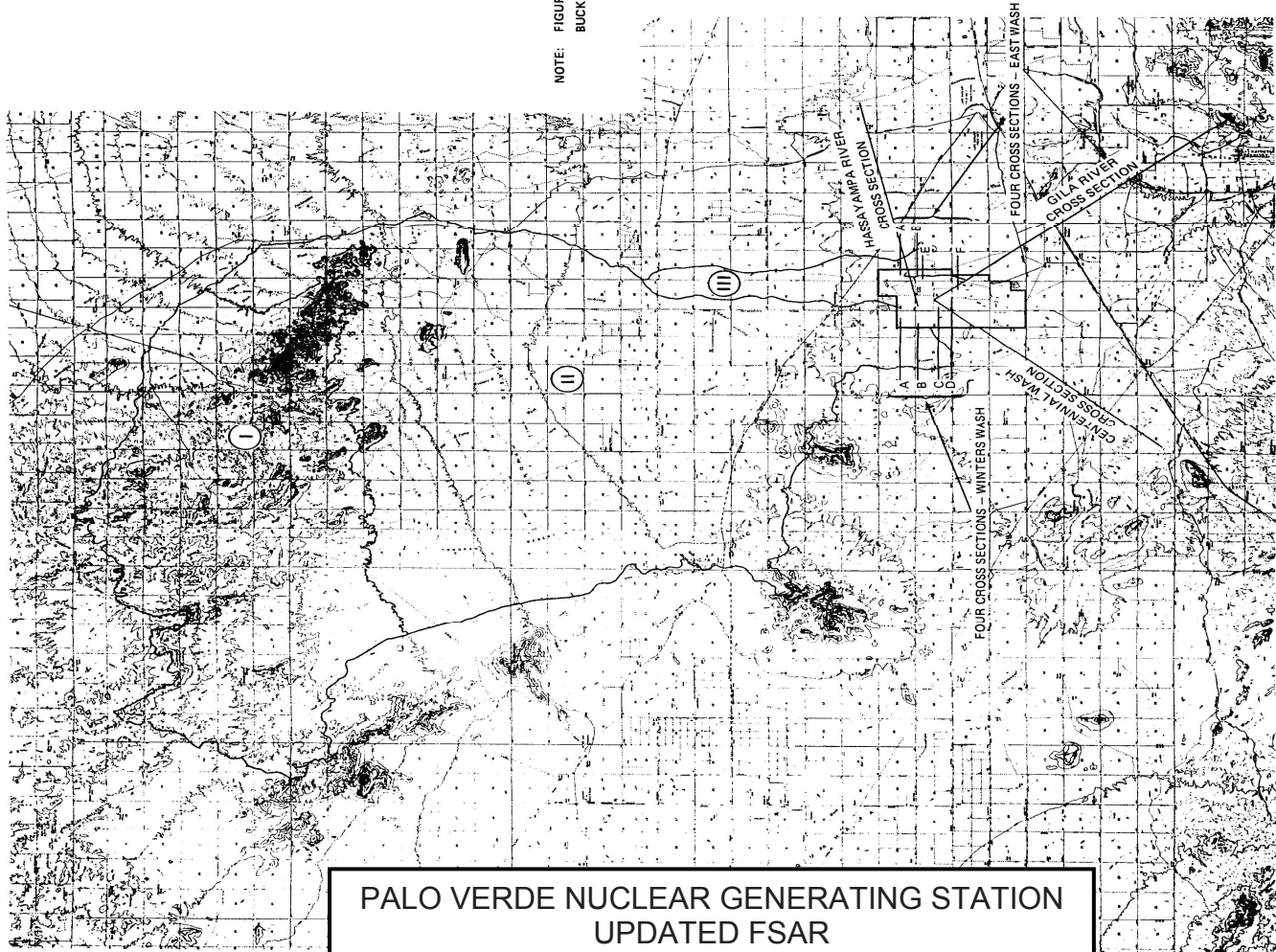


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

TOPOGRAPHIC HIGH POINTS TO 10 MILES  
 NORTHWEST AND NORTH-NORTHWEST OF PVNGS

FIGURE 2.3-23

JUNE 2001 REVISION 11



LEGEND

- (I) WINTERS WASH  
DRA NAGE BASIN,  
UPPER AREA
- (II) WINTERS WASH  
DRA NAGE BASIN,  
LOWER AREA
- (III) EAST WASH  
DRA NAGE BASIN

NOTE: FIGURE INCLUDES ARLINGTON, BE-MONT MOUNTAINS, BIG HORN MOUNTAINS,  
BUCKEYE, AND CORTÉZ PEAK 15' QUADRANGLES

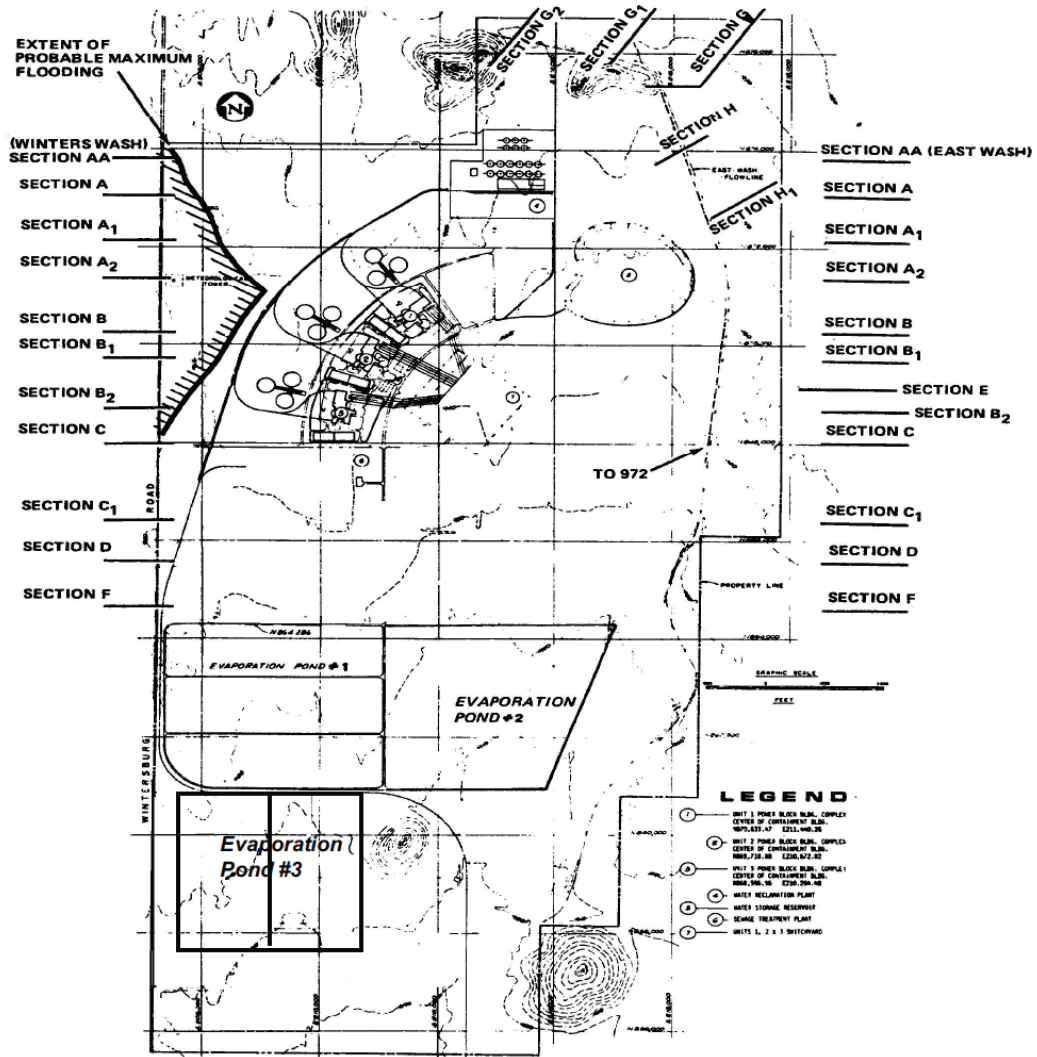


PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

PLANT SITE AND HYDROSPHERE LOCATIONS  
OF CROSS SECTIONS

FIGURE 2.4-1

JUNE 2009 REVISION 15



PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

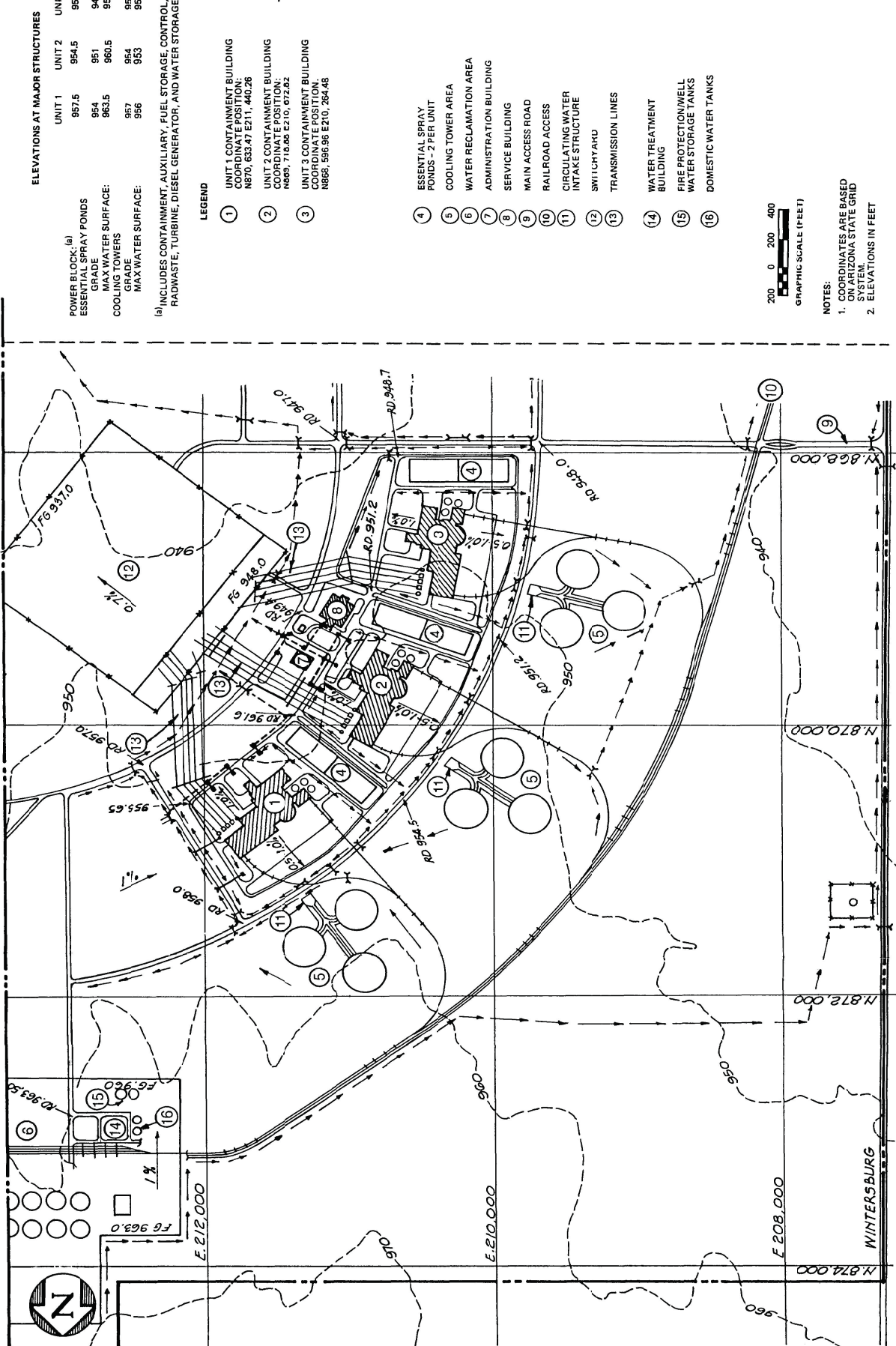
SITE DRAINAGE PLAN

FIGURE 2.4-2

JUNE 2011

REVISION 16

This Figure has been redacted.



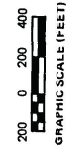
**ELEVATIONS AT MAJOR STRUCTURES**

POWER BLOCK (a)	UNIT 1	UNIT 2	UNIT 3
ESSENTIAL SPRAY PONDS	957.5	954.5	951.5
MAX WATER SURFACE:			
GRADE	954	951	948
MAX WATER SURFACE:	963.5	960.5	957.5
COOLING TOWERS			
GRADE	957	954	951
MAX WATER SURFACE:	956	953	950

(a) INCLUDES CONTAINMENT, AUXILIARY, FUEL STORAGE, CONTROL, RADWASTE, TURBINE, DIESEL GENERATOR, AND WATER STORAGE

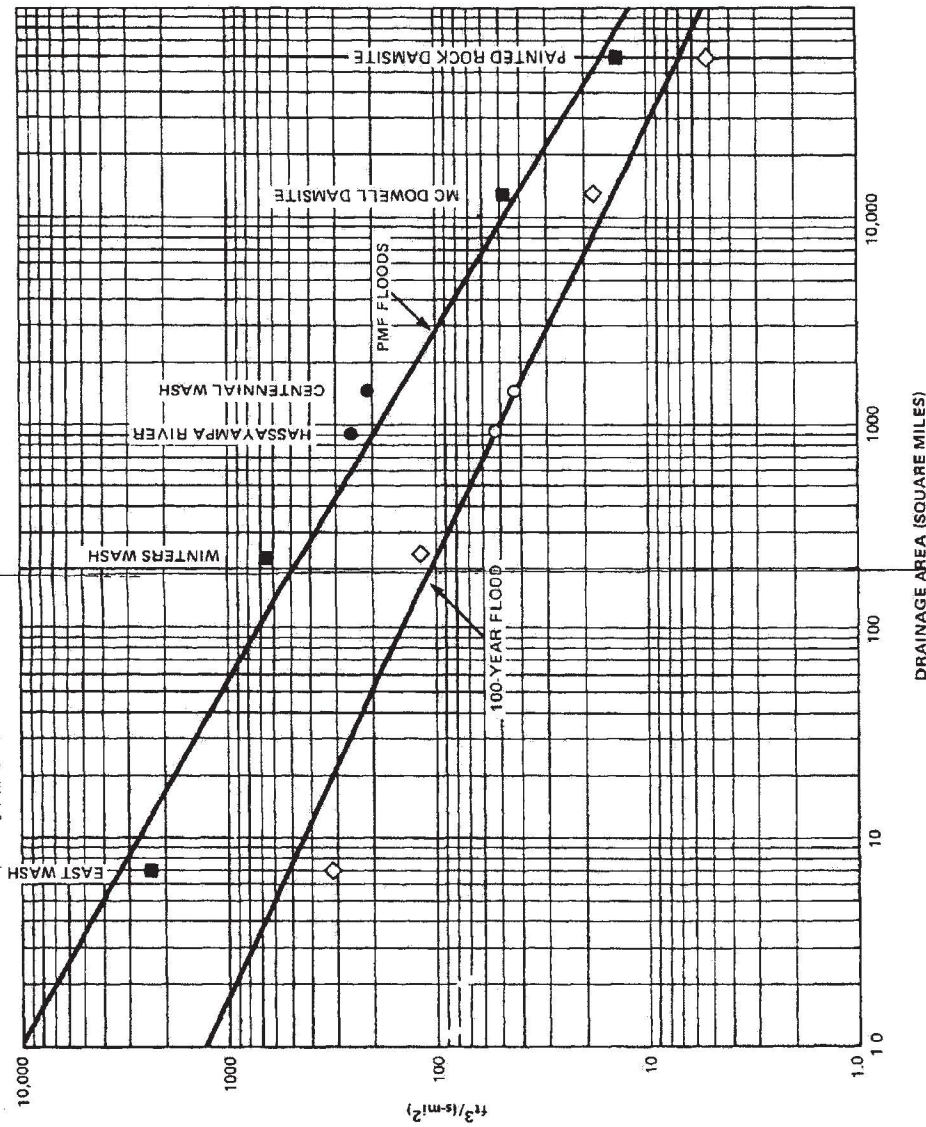
- LEGEND**
- ① UNIT 1 CONTAINMENT BUILDING  
COORDINATE POSITION:  
N870, E53.47 E211, 440.26
  - ② UNIT 2 CONTAINMENT BUILDING  
COORDINATE POSITION:  
N869, 718.88 E210, 672.82
  - ③ UNIT 3 CONTAINMENT BUILDING  
COORDINATE POSITION:  
N868, 596.96 E210, 284.46

- RD - ROAD ELEVATION
- FG - FINISH GRADE ELEVATION
- 0.5% - SLOPE
- - - - - CULVERT
- - - - - OPEN DITCH
- - - - - STORM DRAIN
- ④ ESSENTIAL SPRAY PONDS - 2 PER UNIT
- ⑤ COOLING TOWER AREA
- ⑥ WATER RECLAMATION AREA
- ⑦ ADMINISTRATION BUILDING
- ⑧ SERVICE BUILDING
- ⑨ MAIN ACCESS ROAD
- ⑩ RAILROAD ACCESS
- ⑪ CIRCULATING WATER INTAKE STRUCTURE
- ⑫ SWITCHYARD
- ⑬ TRANSMISSION LINES
- ⑭ WATER TREATMENT BUILDING
- ⑮ FIRE PROTECTION/WELL WATER STORAGE TANKS
- ⑯ DOMESTIC WATER TANKS



**NOTES:**  
 1. COORDINATES ARE BASED ON ARIZONA STATE GRID SYSTEM.  
 2. ELEVATIONS IN FEET

**PALO VERDE NUCLEAR GENERATING STATION**  
**UPDATED FSAR**  
**SITE DRAINAGE PLAN POWER BLOCK AREA**  
**FIGURE 2.4-4**  
**JUNE 2009**



- LEGEND
- ◇ POINTS USED TO OBTAIN 100-YEAR FLOOD LINE
  - POINTS USED TO OBTAIN PMF FLOOD LINE
  - CALCULATED USING REFERENCE 7
  - CALCULATED USING 6 TO 1 RATIO

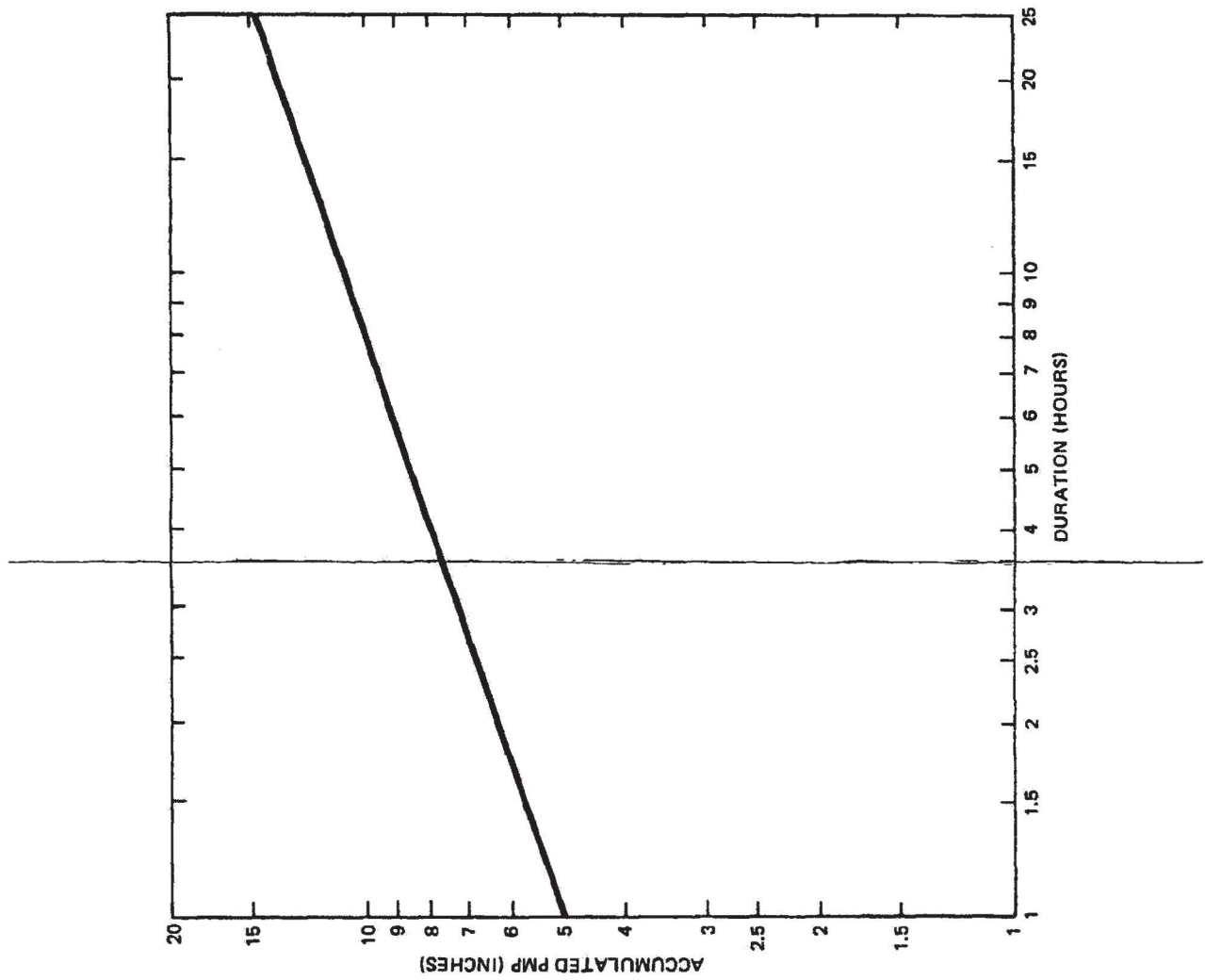
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

PMF TO 100-YEAR RATIO DETERMINATION FOR THE  
 HASSAYAMPA RIVER AND CENTENNIAL WASH

FIGURE 2.4-5

JUNE 2001

REVISION 11

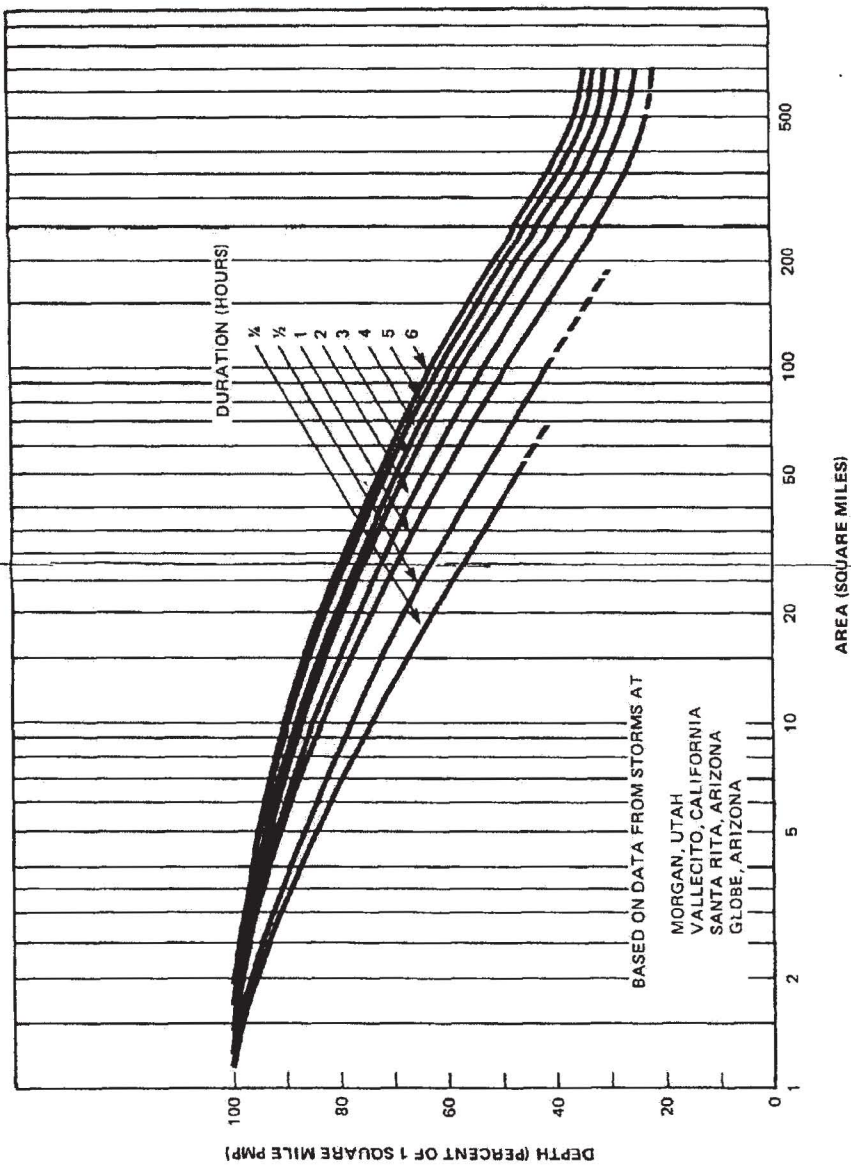


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

PROBALBE MAXIMUM PRECIPITATION (PMP)  
 FOR WINTER WASH DEPTH-DURATION CURVE

FIGURE 2.4-6

JUNE 2001
REVISION 11



FROM REFERENCE 6.

PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

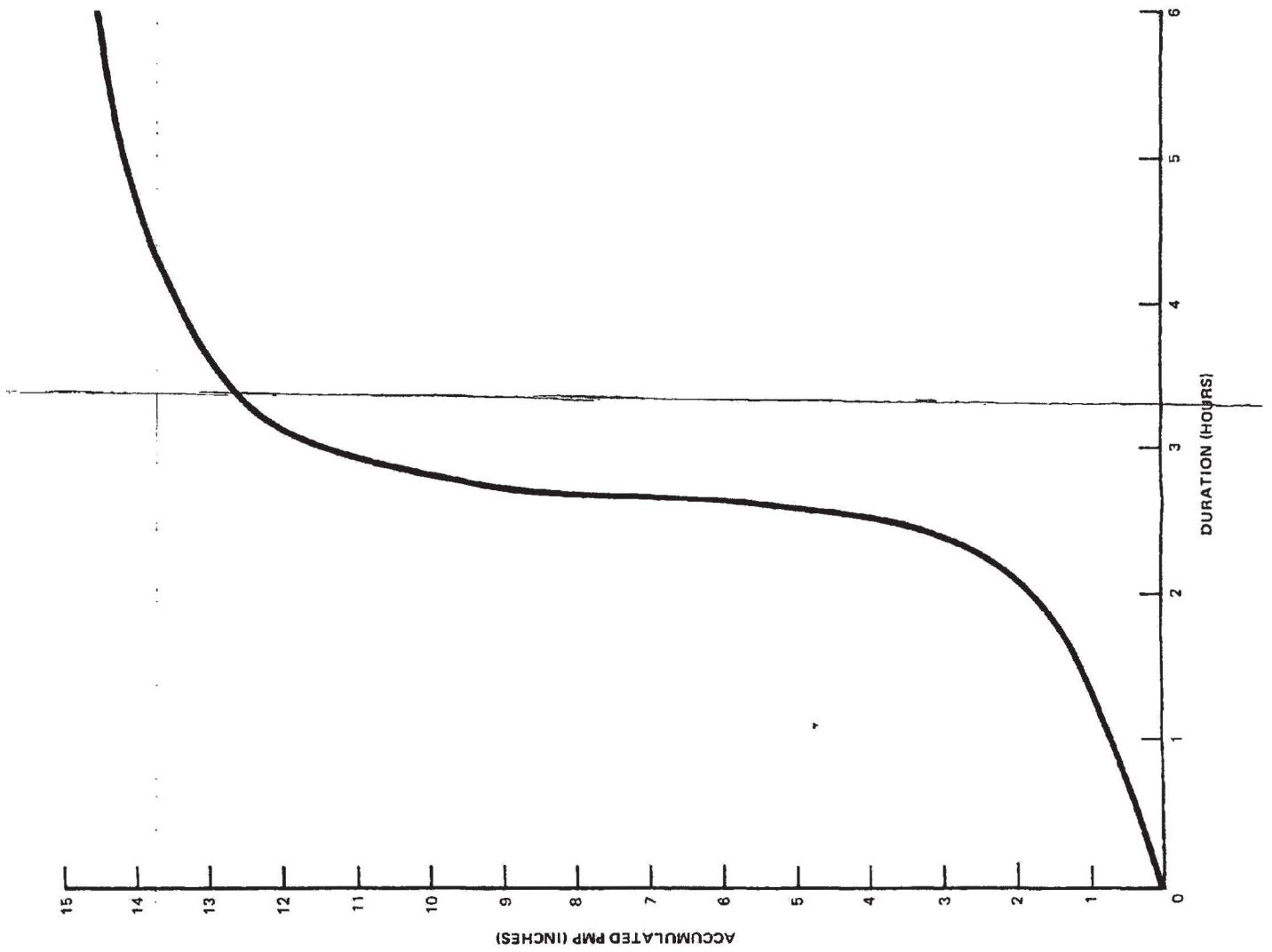
ADOPTED DEPTH AREA RELATION FOR  
THUNDERSTORM PMP IN THE  
SOUTHWESTERN STATES

FIGURE 2.4-7

JUNE 2001

REVISION 11





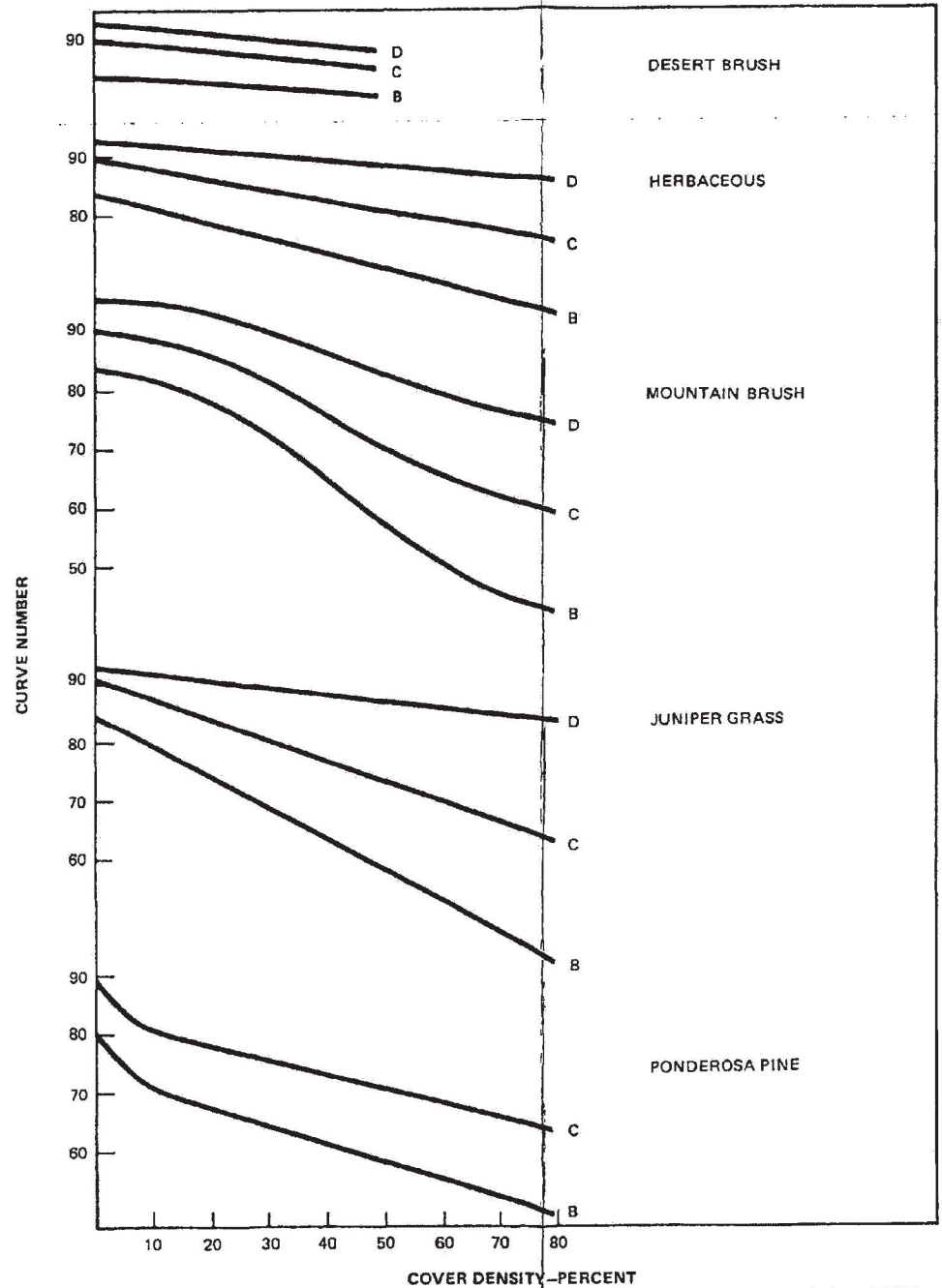
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

PROBABLE MAXIMUM PRECIPITATION  
 FOR EAST WASH DEPTH-DURATION CURVE

FIGURE 2.4-8

JUNE 2001 REVISION 11

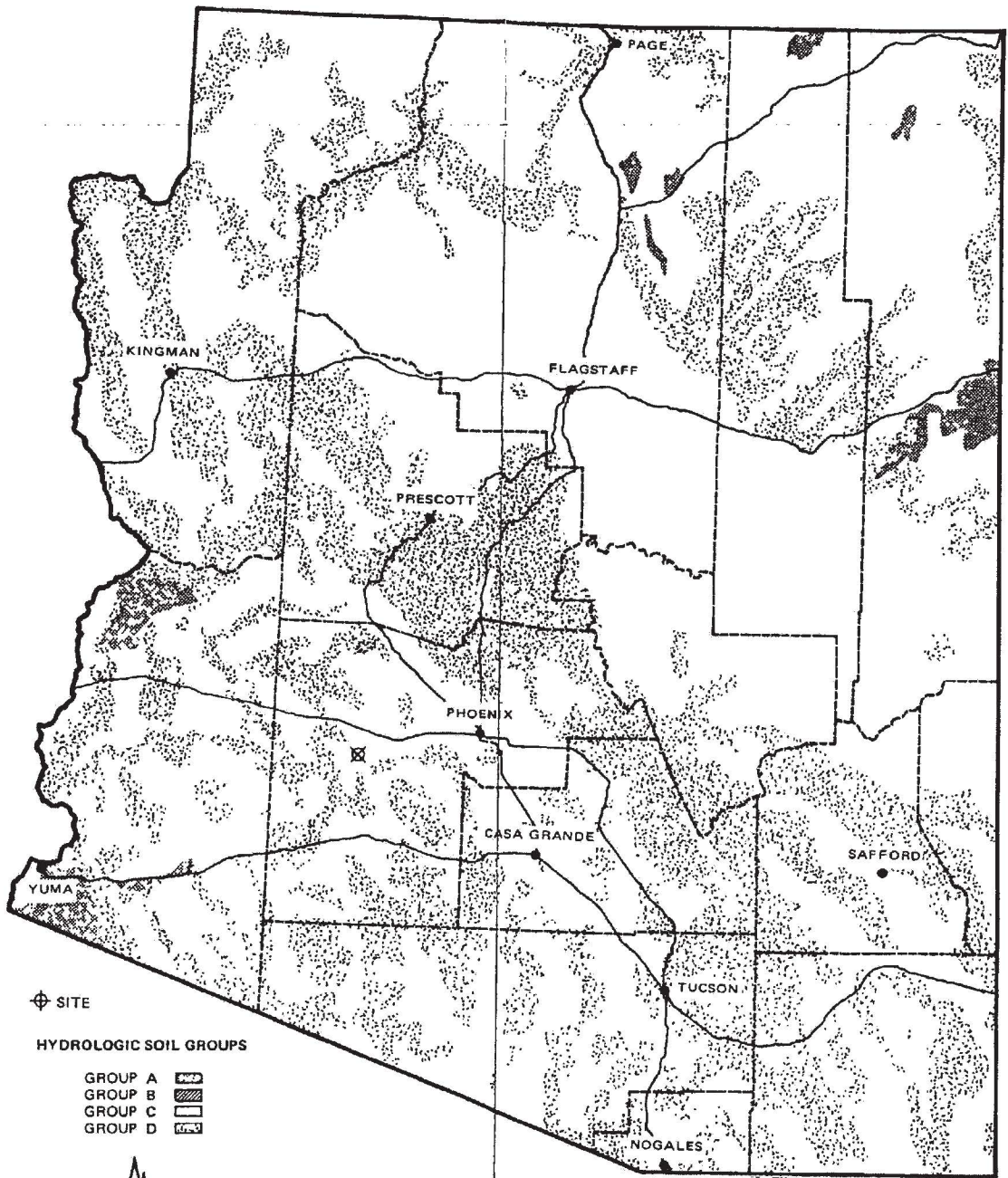
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 HYDROLOGIC SOIL-COVER COMPLEXES  
 AND ASSOCIATED CURVE NUMBERS  
 JUNE 2001  
 REVISION 11



LEGEND  
 SOIL GROUPS





A LOW RUNOFF POTENTIAL  
 B MODERATELY LOW RUNOFF POTENTIAL  
 C MODERATELY HIGH RUNOFF POTENTIAL  
 D HIGH RUNOFF POTENTIAL

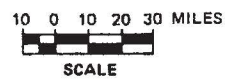
FROM REFERENCE 7



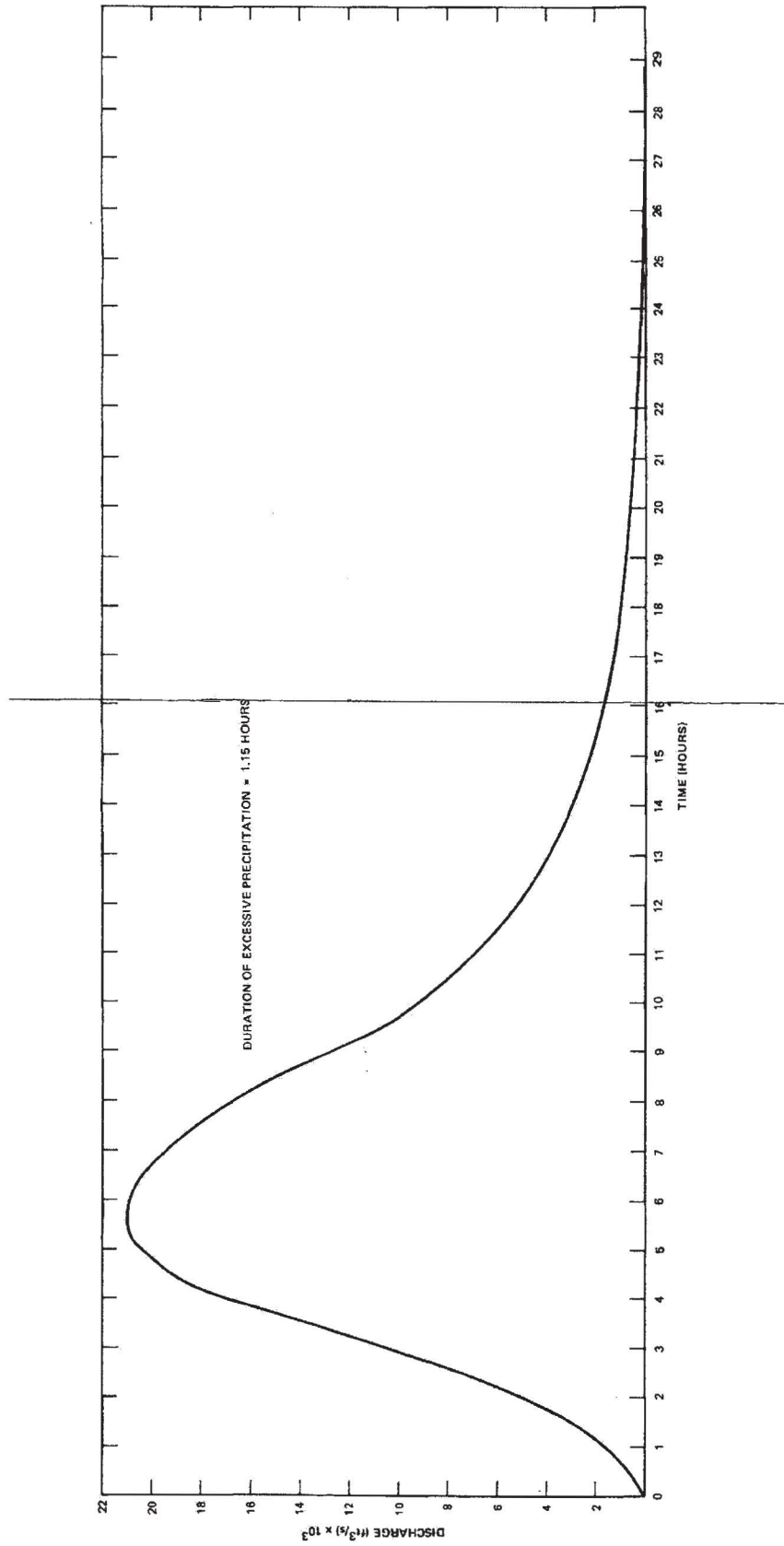
⊕ SITE

HYDROLOGIC SOIL GROUPS

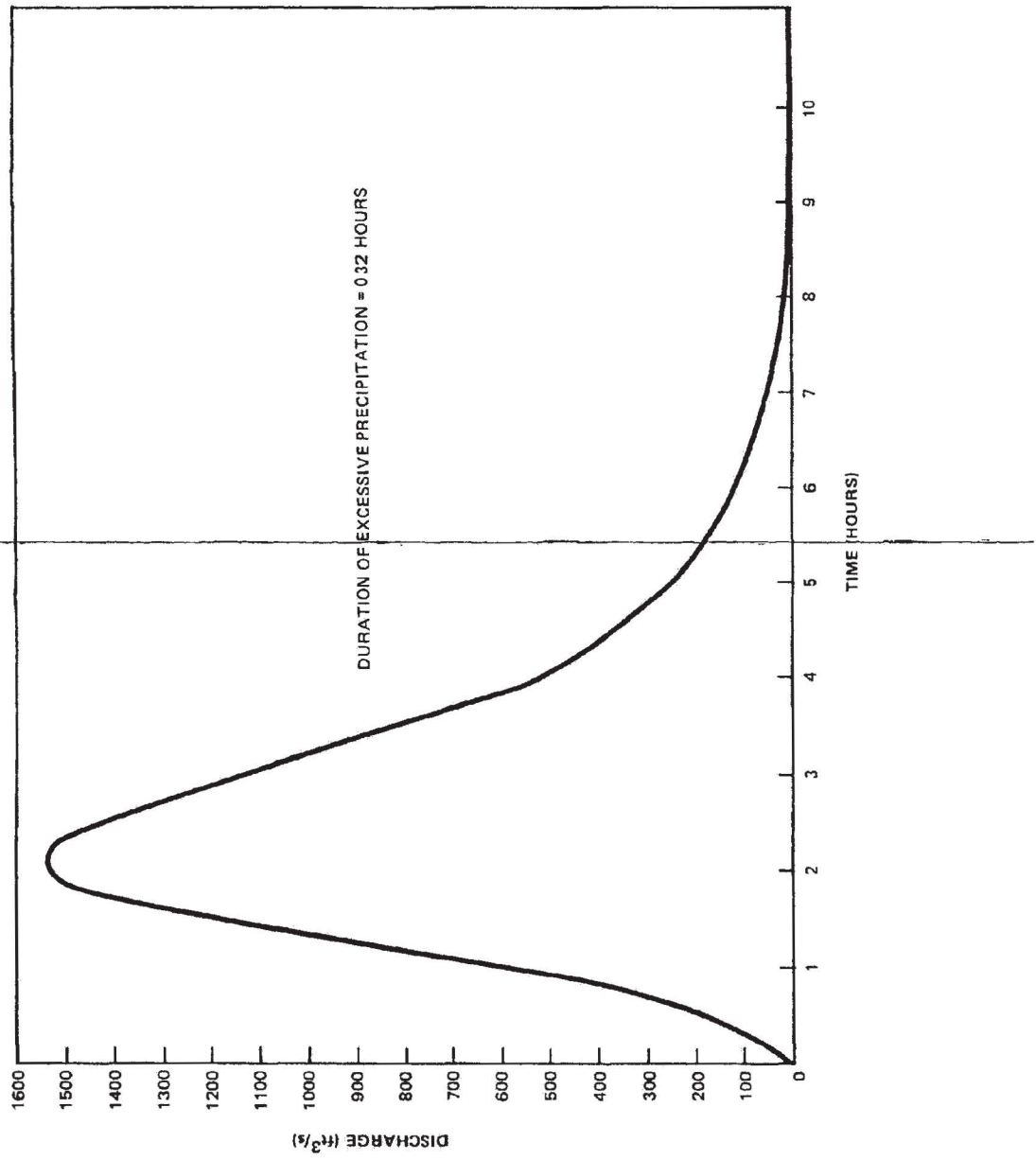
- GROUP A 
- GROUP B 
- GROUP C 
- GROUP D 



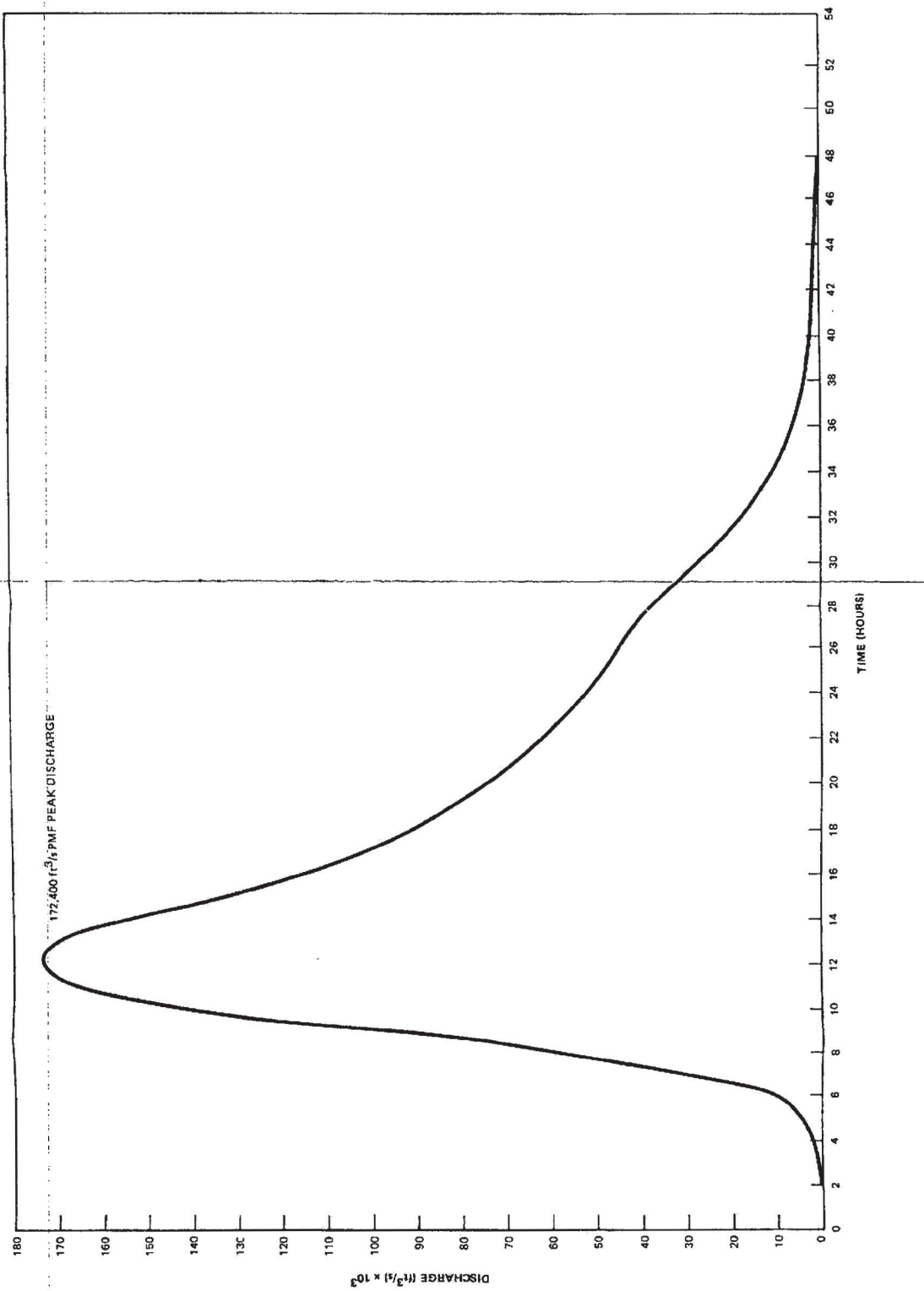
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 GENERALIZED HYDROLOGIC SOIL MAP  
 FIGURE 2.4-10  
 JUNE 2001 REVISION 11



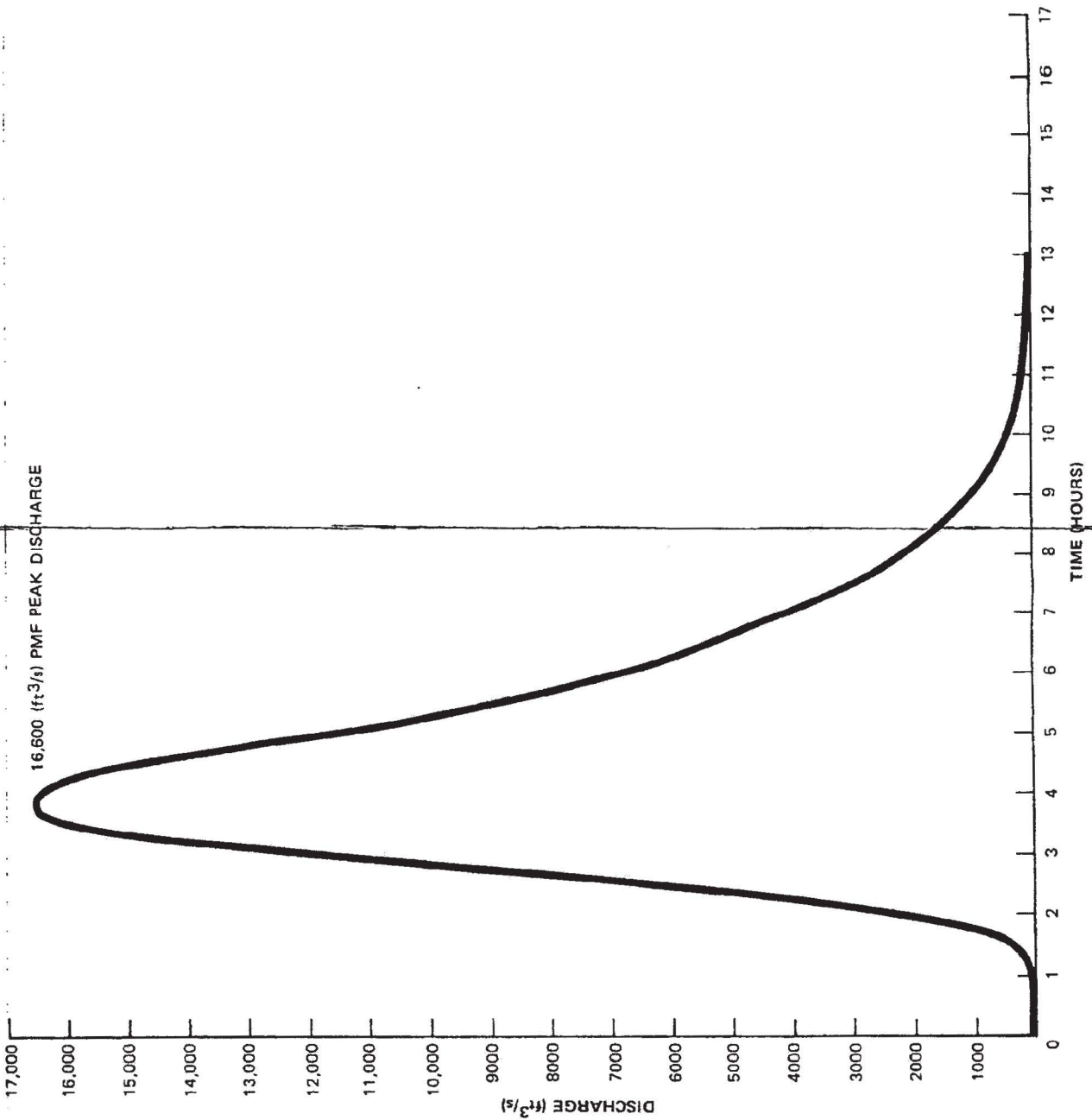
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
  
 UNIT HYDROGRAPH OF WINTER WASH BASIN  
  
 FIGURE 2.4-11  
  
 JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 UNIT HYDROGRAPH OF EAST WASH  
 DRAINAGE AREA  
 FIGURE 2.4-12  
 JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 PMF RUNOFF HYDROGRAPH OF WINTERS WASH  
 DRAINAGE AREA  
 FIGURE 2.4-13  
 JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

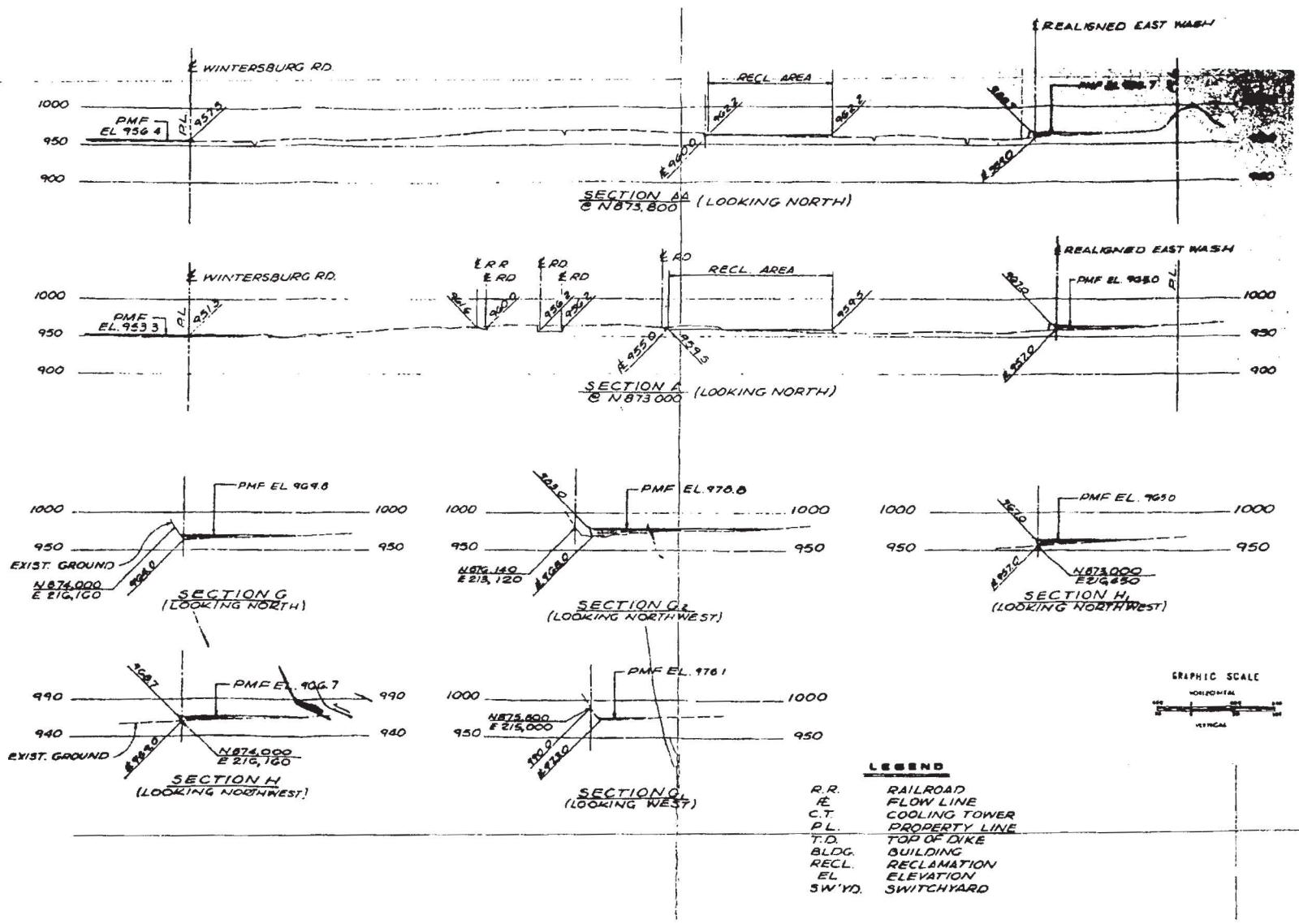
PMF RUNOFF HYDROGRAPH OF EAST  
 WASH DRAINAGE AREA

FIGURE 2.4-14

JUNE 2001 REVISION 11

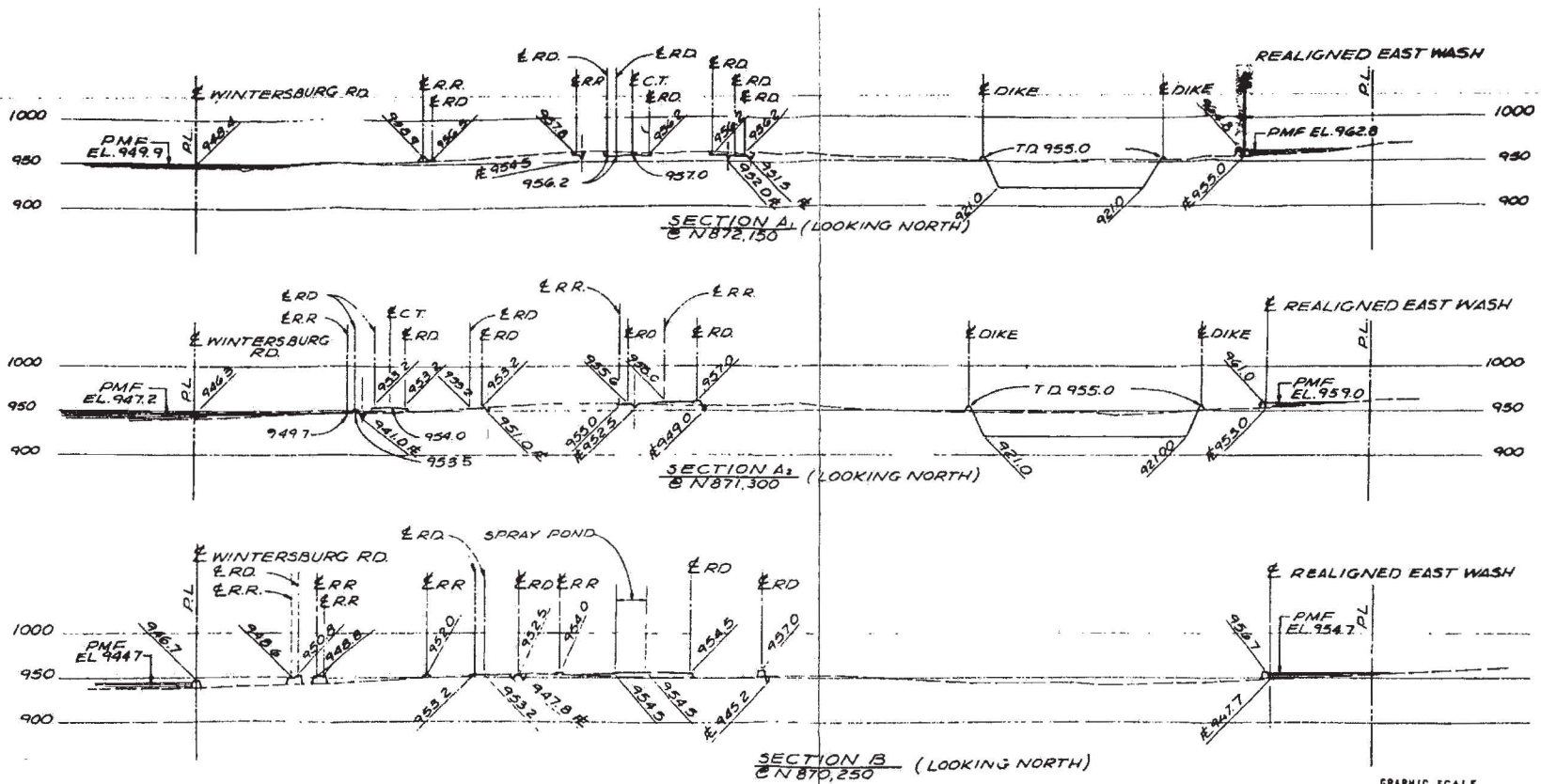
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 SITE CROSS SECTIONS

JUNE 2001  
 FIGURE 2.4.15 Sheet 1 of 4  
 REVISION 11



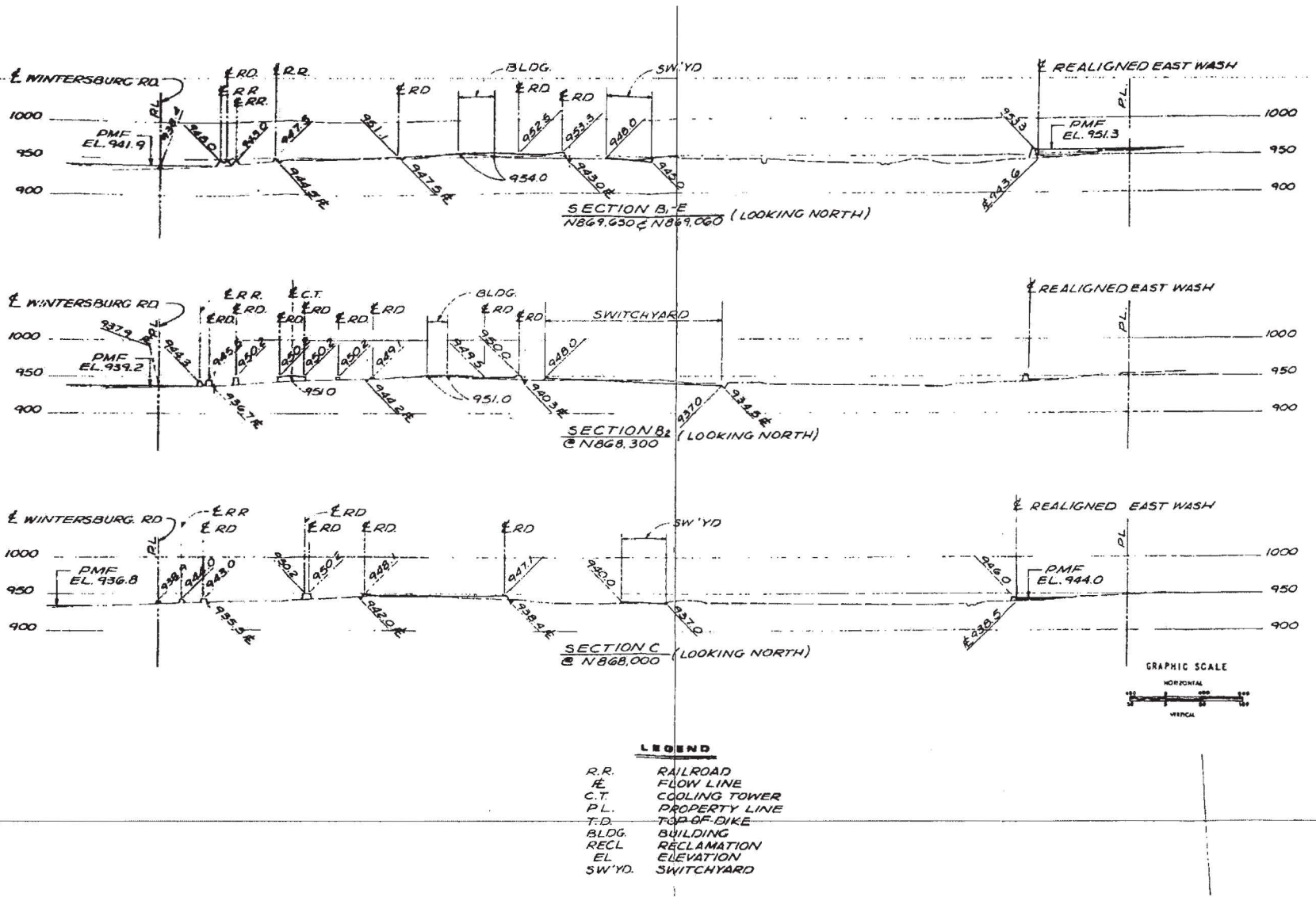


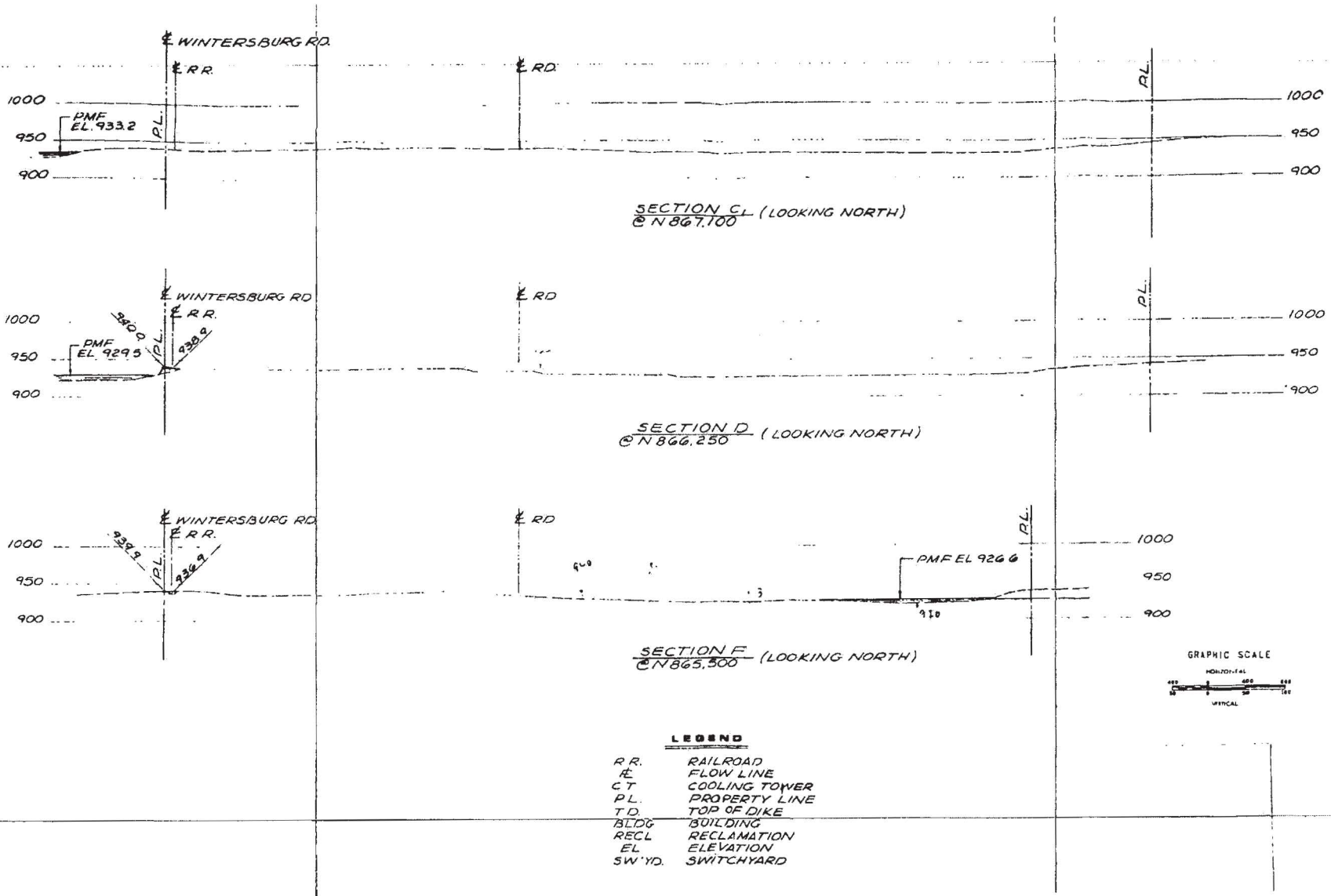
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 SITE CROSS SECTIONS  
 FIGURE 2.4-15 Sheet 2 of 4  
 JUNE 2001  
 REVISION 11



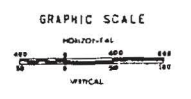
- LEGEND**
- R.R. RAILROAD
  - FL FLOW LINE
  - C.T. COOLING TOWER
  - PL. PROPERTY LINE
  - T.D. TOP OF DIKE
  - BLDG. BUILDING
  - REGL. RECLAMATION
  - EL. ELEVATION
  - SW YD. SWITCHYARD

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 SITE CROSS SECTIONS  
 FIGURE 2.4-15 Sheet 3 of 4  
 JUNE 2001  
 REVISION 11

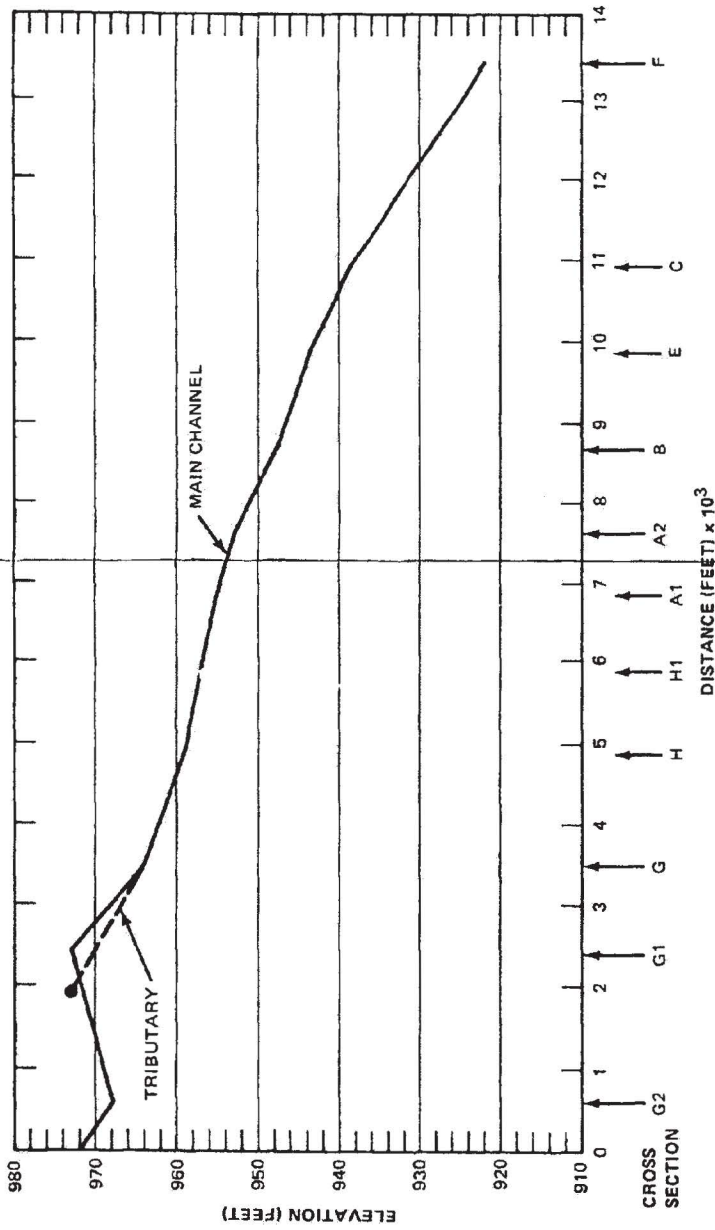




- LEGEND**
- R.R. RAILROAD
  - FL FLOW LINE
  - CT COOLING TOWER
  - PL PROPERTY LINE
  - T.D. TOP OF DIKE
  - BLDG BUILDING
  - RECL RECLAMATION
  - EL ELEVATION
  - SW'YD. SWITCHYARD



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 SITE CROSS SECTIONS  
 FIGURE 2.4-15 Sheet 4 of 4  
 JUNE 2001  
 REVISION 11



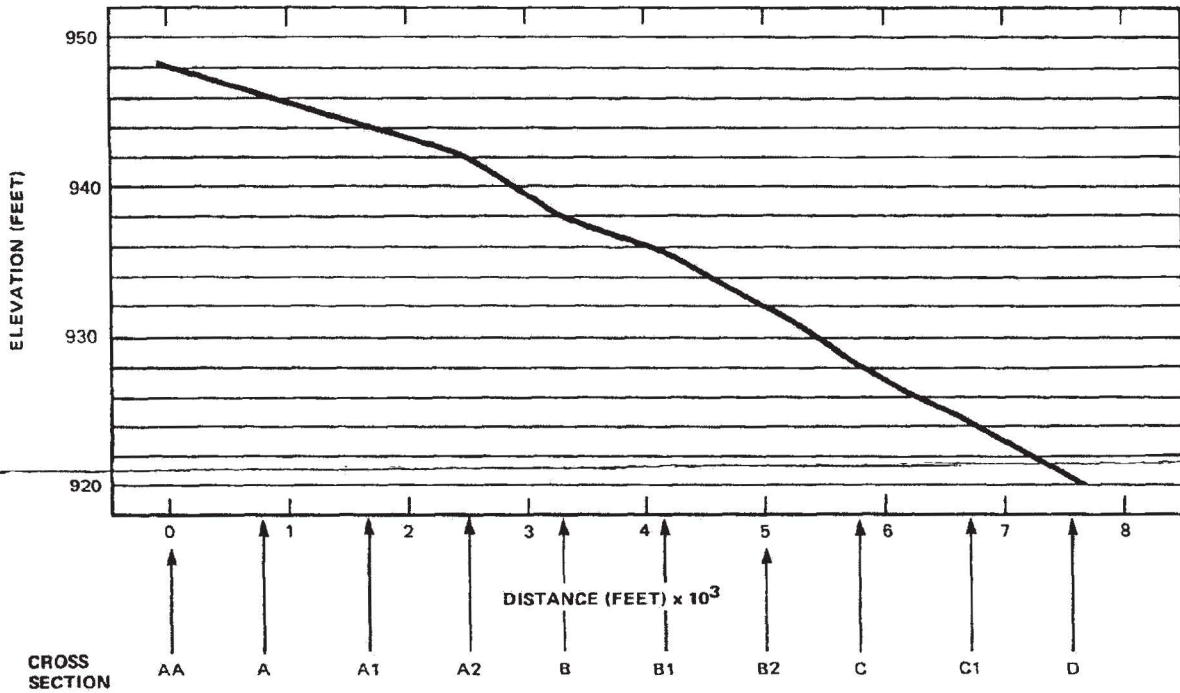
NOTE: ELEVATIONS DETERMINED FROM DESIGN  
CRITERIA OF RELOCATED EAST WASH

PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

EAST WASH STREAM BED PROFILE

FIGURE 2.4-16

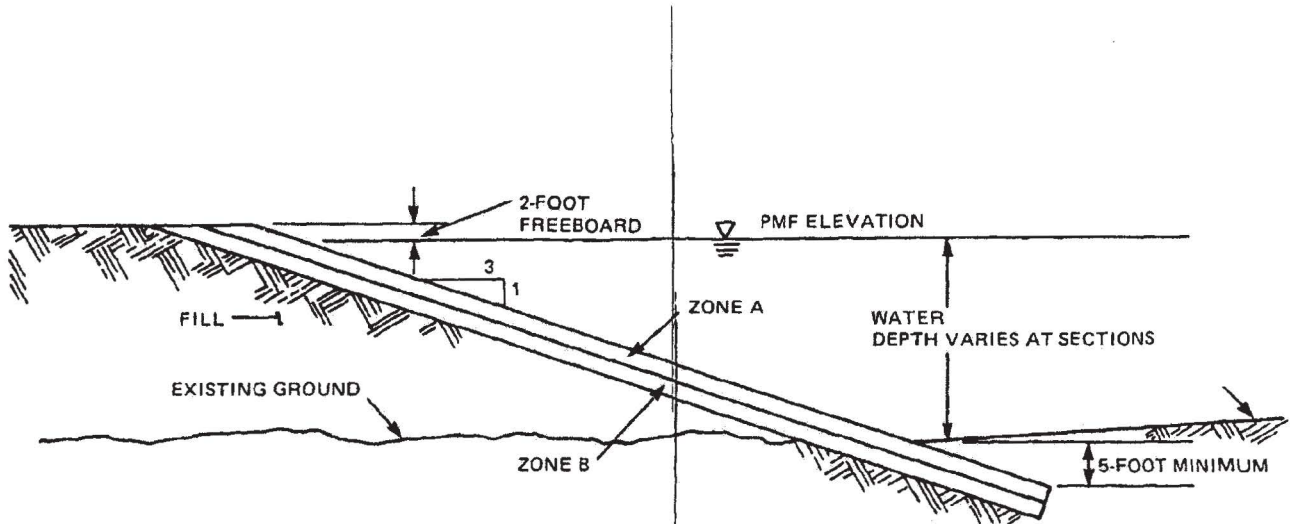
JUNE 2001 REVISION 11



**NOTE**

ELEVATIONS DETERMINED FROM 2-FOOT  
INTERVAL CONTOUR MAP OF SITE AREA

PALO VERDE NUCLEAR GENERATING STATION UPDATED FSAR	
WINTERS WASH STREAM BED PROFILE	
FIGURE 2.4-17	
JUNE 2001	REVISION 11



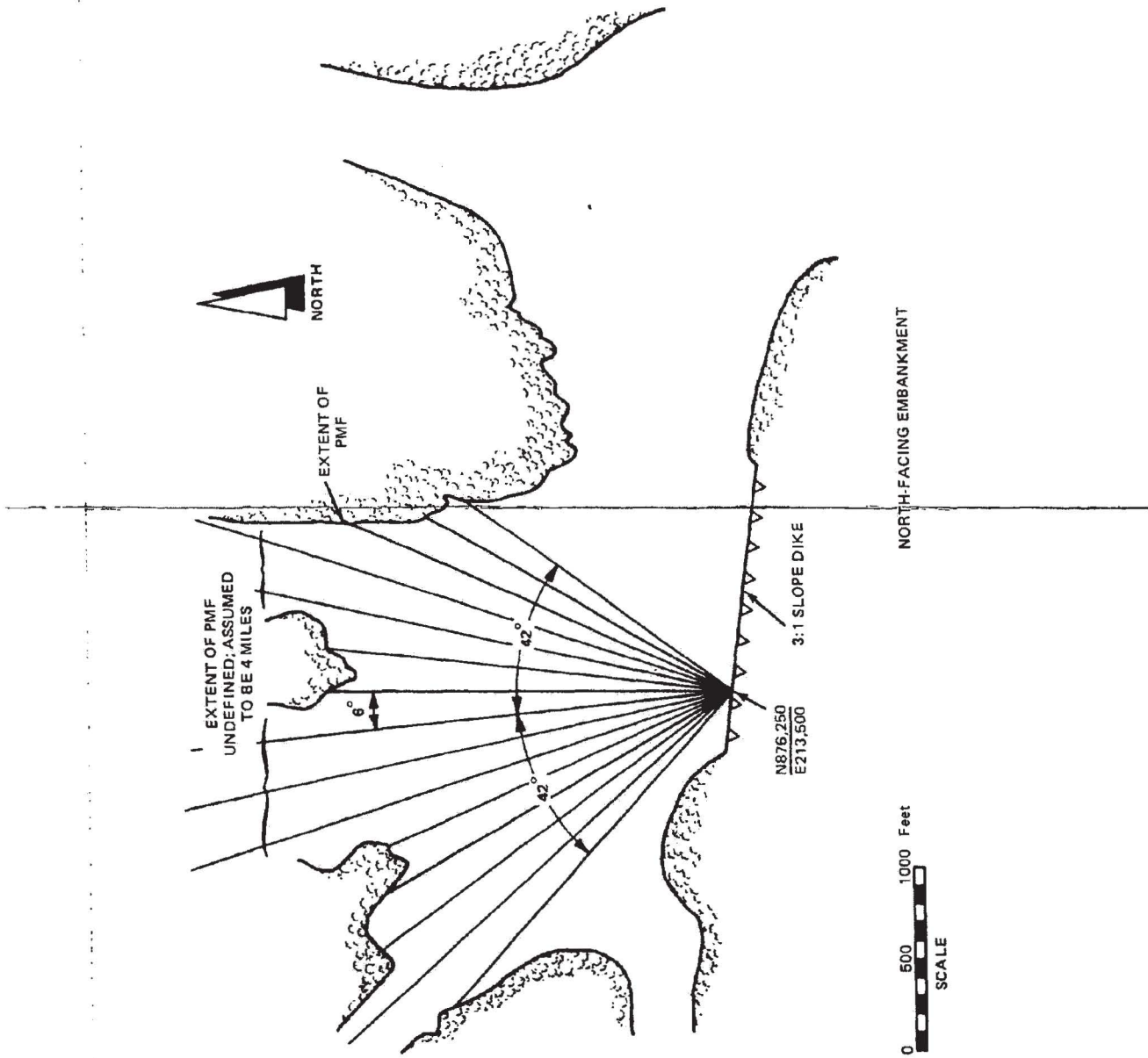
ZONE A – DUMPED STONE RIPRAP  
 FLOW VELOCITY  $\approx 6$  ft/s  
 STONE UNIT WEIGHT  $\approx 155$  lb/ft<sup>3</sup>  
 AVERAGE STONE DIAMETER  $\approx 1.0$  FOOT  
 MINIMUM THICKNESS  $\approx 1.5$  FEET

ZONE B – FILTER BLANKET  
 FILTER RATIO  
 $5 < \frac{D_{15}(\text{OF RIPRAP})}{D_{85}(\text{OF BANK})} < 40$  WHERE  
 $D_{15}$  = 15 PERCENT PARTICLE SIZE  
 $D_{85}$  = 85 PERCENT PARTICLE SIZE

SECTION	WATER DEPTH FEET
G	5.8
H	7.7
A1	7.8
A2	6.0
B	7.0

NOTE:  
 SECTION LOCATION AS PER  
 FIGURE 2.4-2

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 TYPICAL SECTION FOR EMBANKMENT  
 PROTECTION EAST WASH  
 FIGURE 2.4-18  
 JUNE 2001  
 REVISION 11



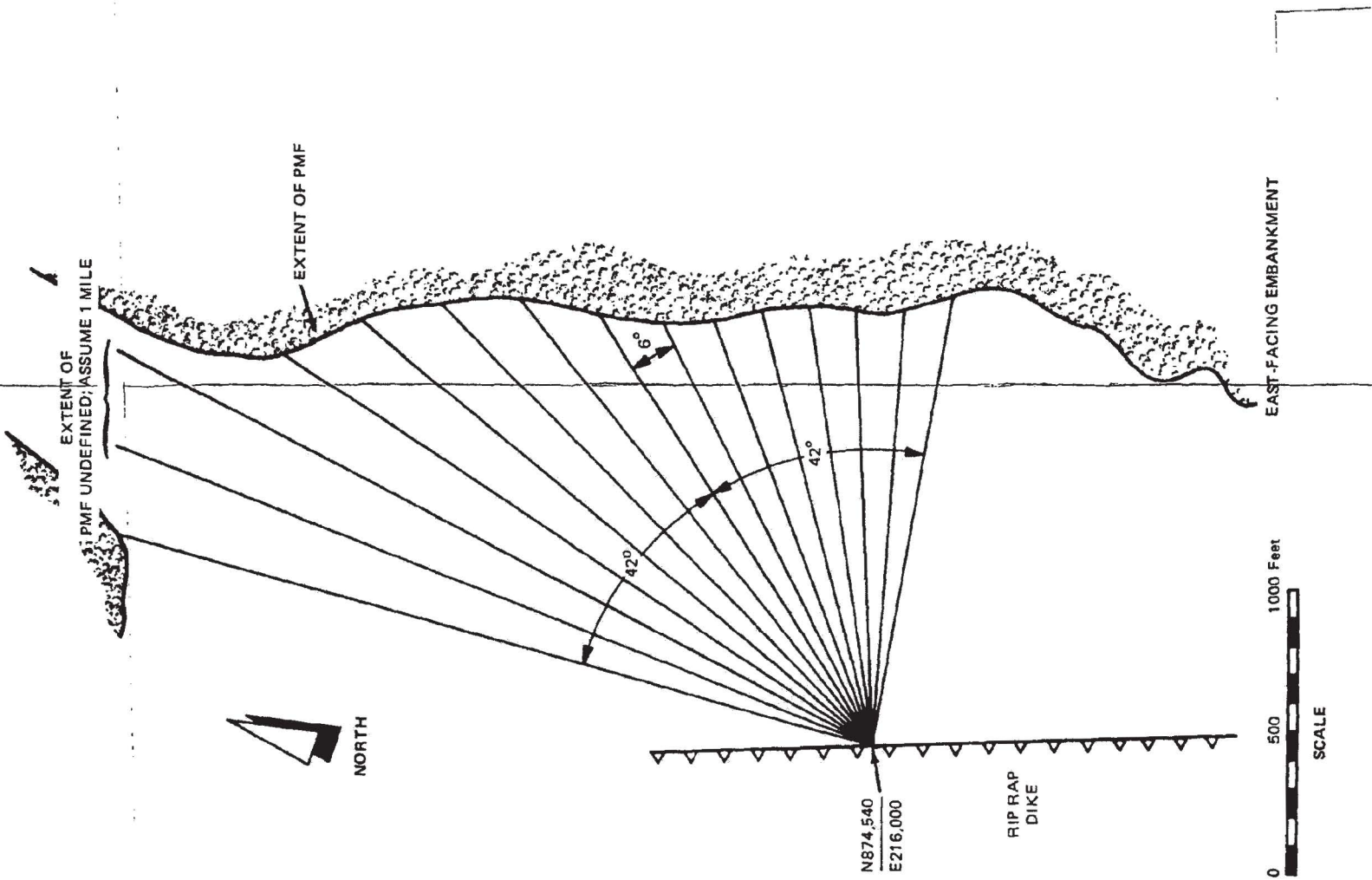
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

EAST WASH FETCH DIAGRAM

FIGURE 2.4-19 Sheet 1 of 2

JUNE 2001

REVISION 11



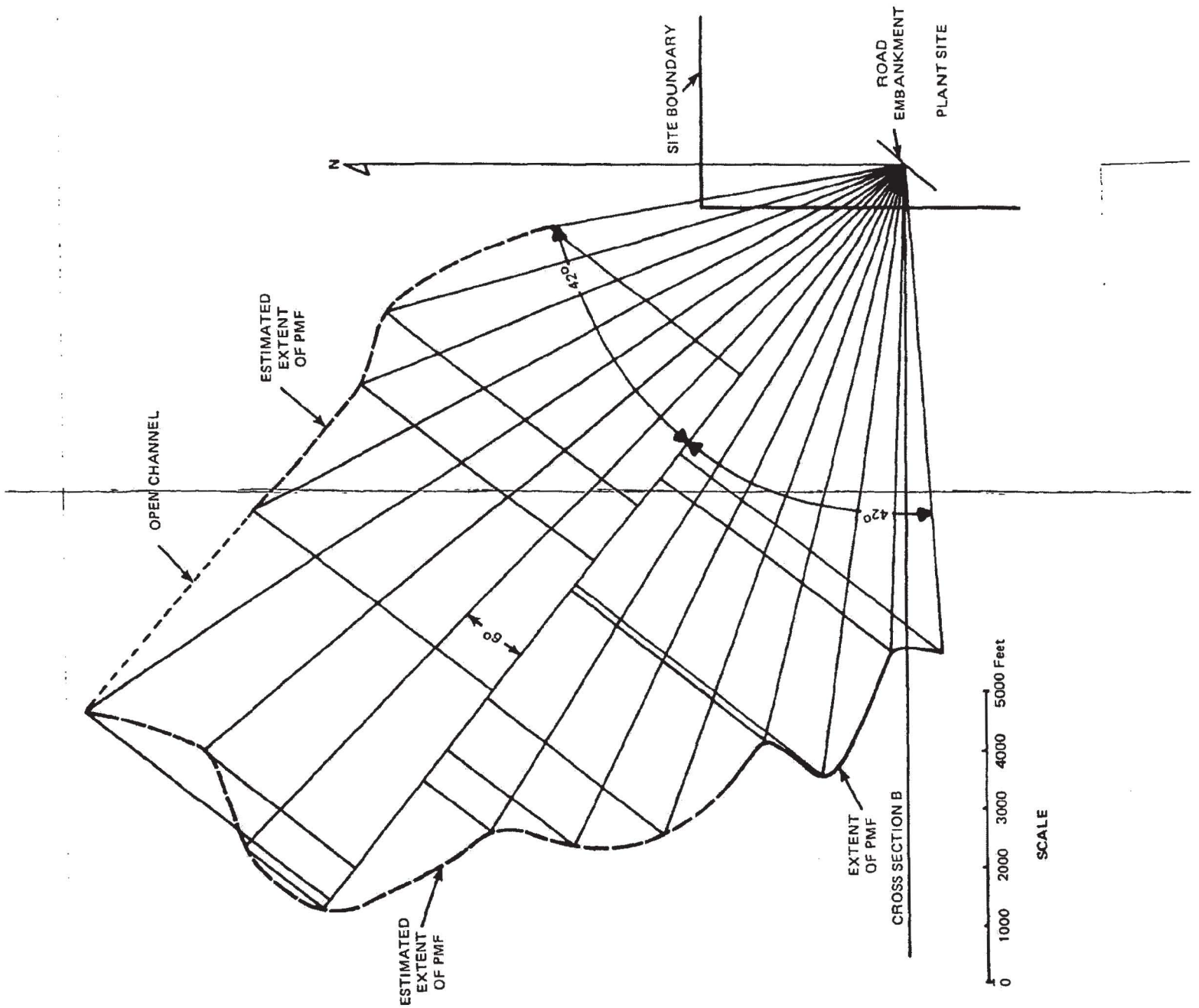
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

EAST WASH FETCH DIAGRAM

FIGURE 2.4-19 Sheet 2 of 2

JUNE 2001 REVISION 11





PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

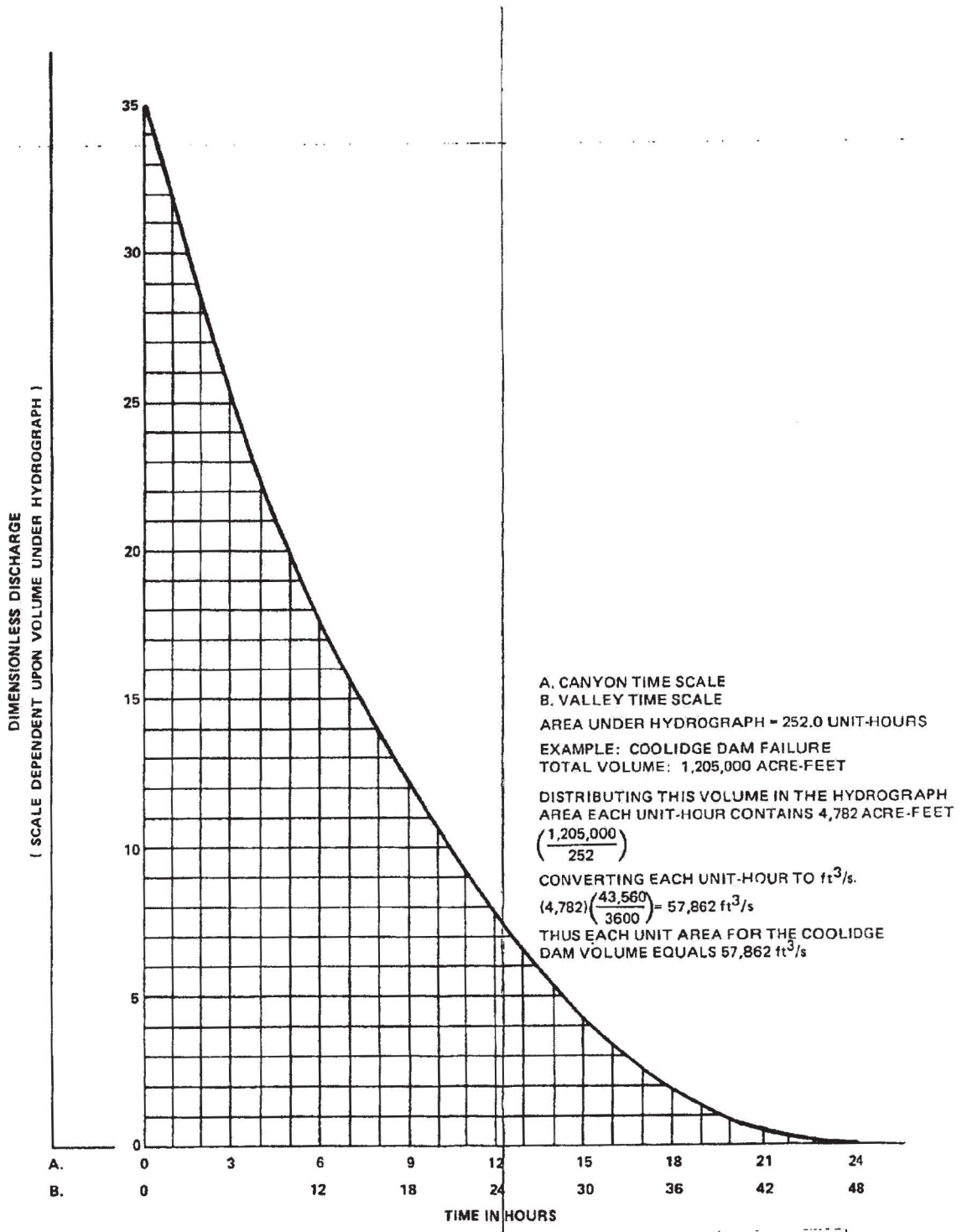
WINTERS WASH FETCH DIAGRAM

FIGURE 2.4-20

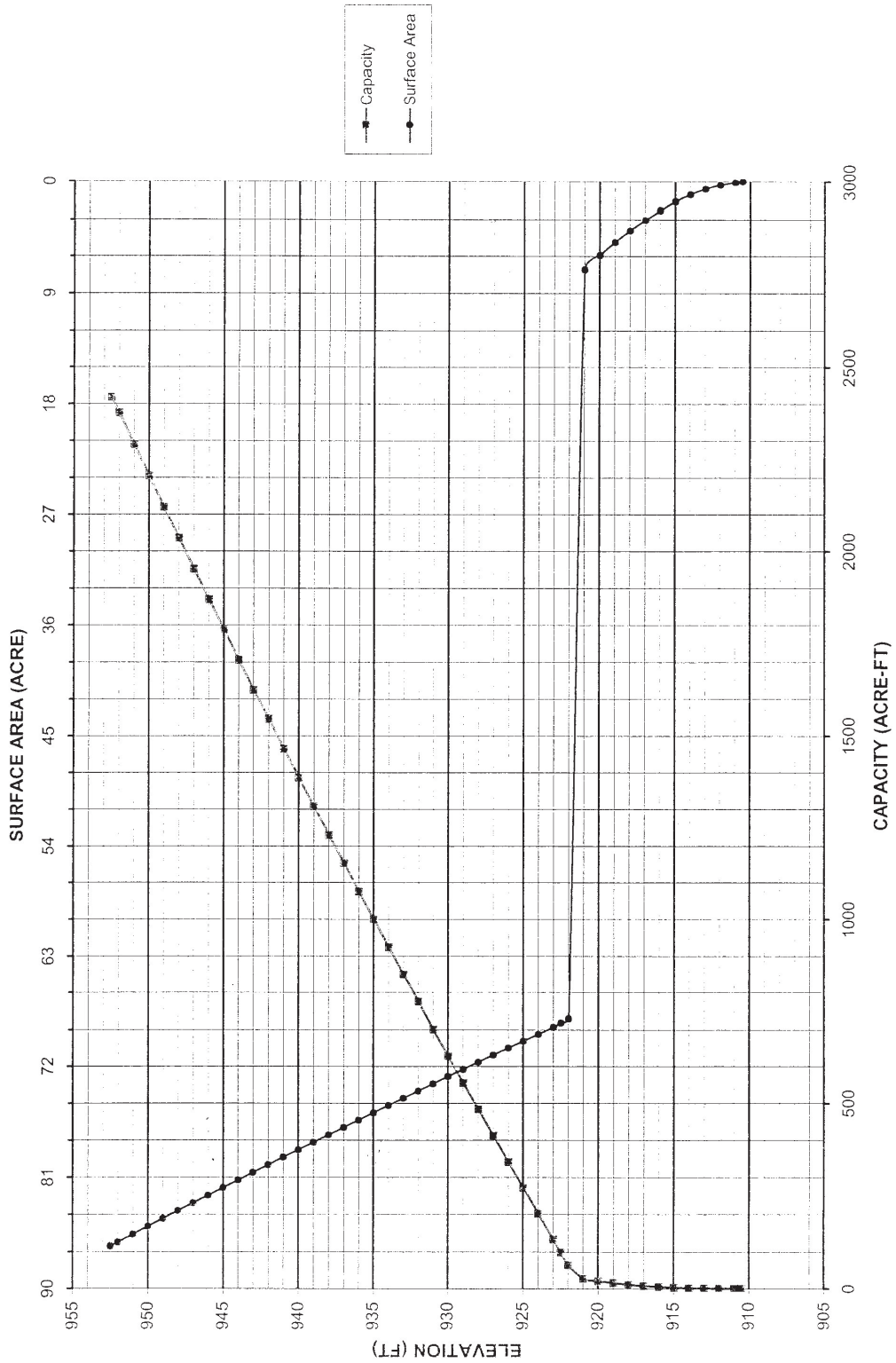
JUNE 2001

REVISION 11

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 HYDROGRAPH OF FLOW ENTERING  
 DESERT VALLEY AFTER DAM FAILURE  
 FIGURE 2.4-21  
 JUNE 2001                      REVISION 11



85-ACRE ELEVATION AREA CAPACITY CURVE - TOTAL



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

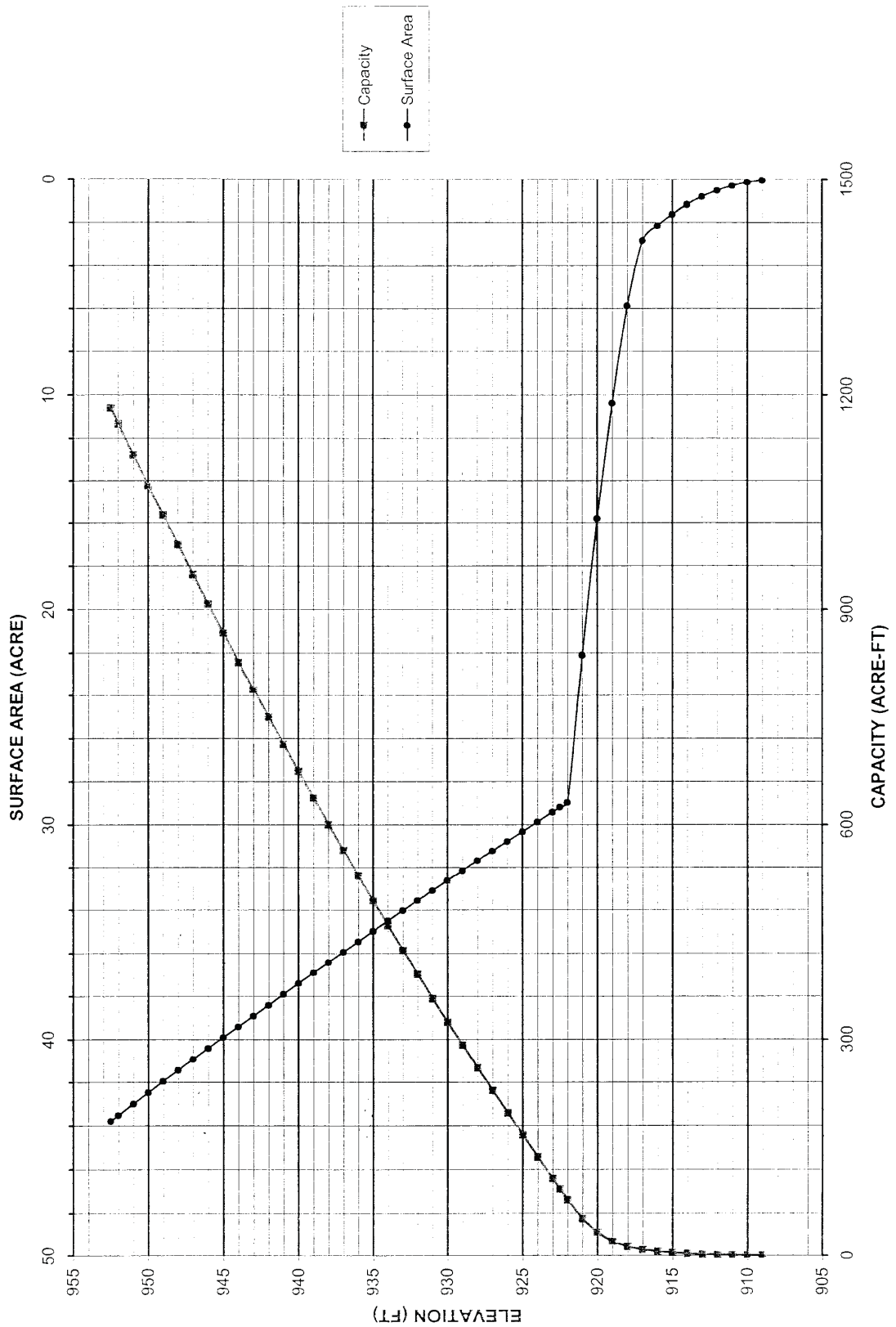
85-ACRE RESERVOIR AREA CAPACITY CURVE

FIGURE 2.4-22a

JUNE 2009

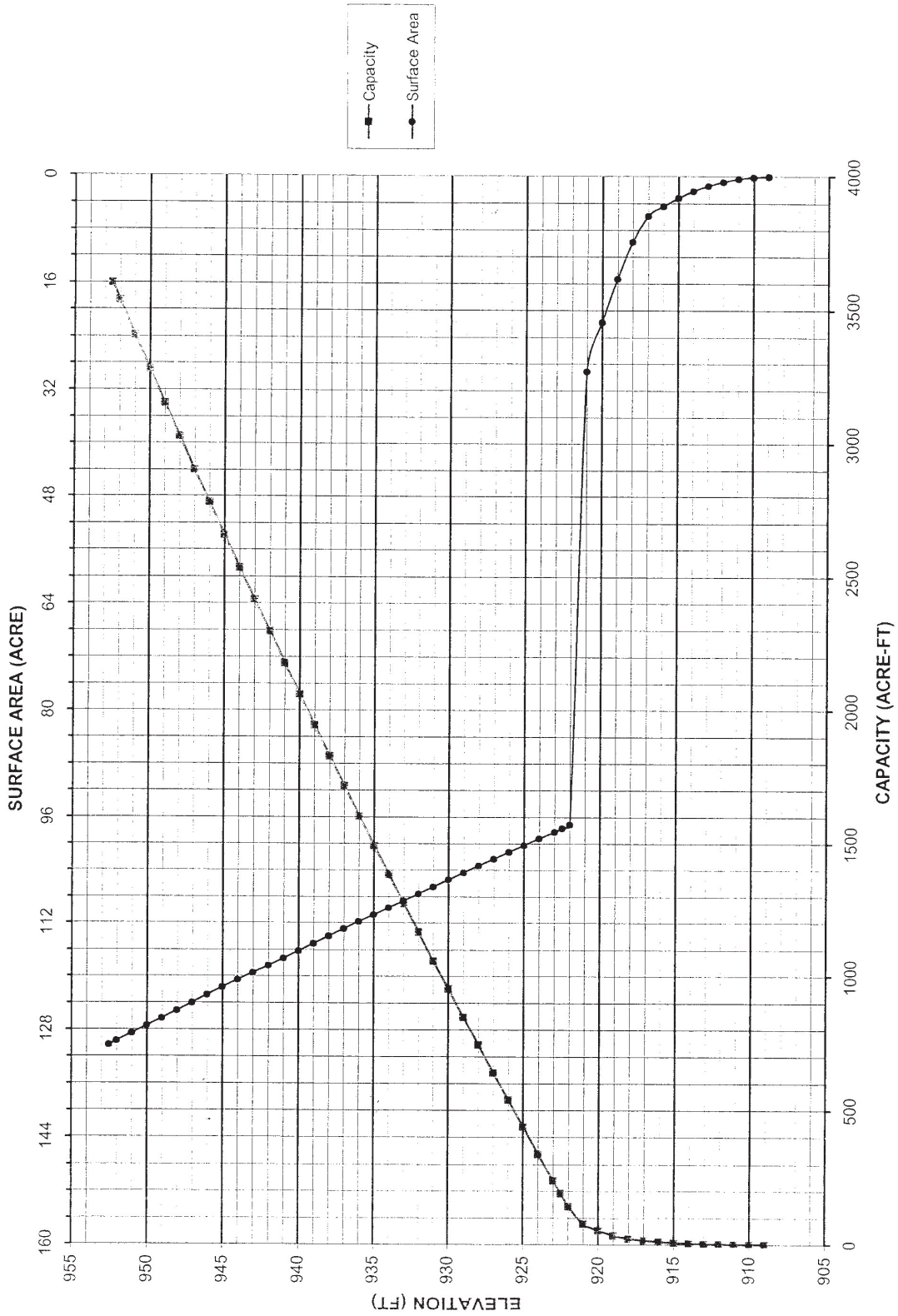
REVISION 15

45-ACRE ELEVATION AREA CAPACITY CURVE - TOTAL

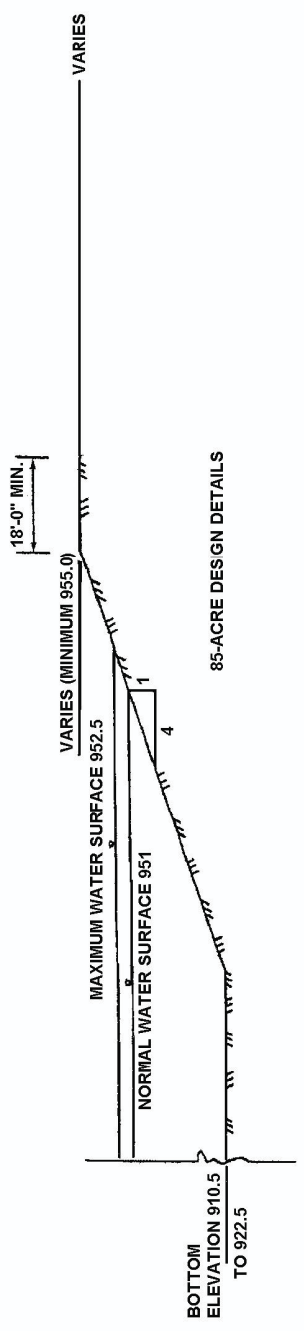


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 45-ACRE RESERVOIR AREA CAPACITY CURVE  
 FIGURE 2.4-22b  
 JUNE 2009 REVISION 15

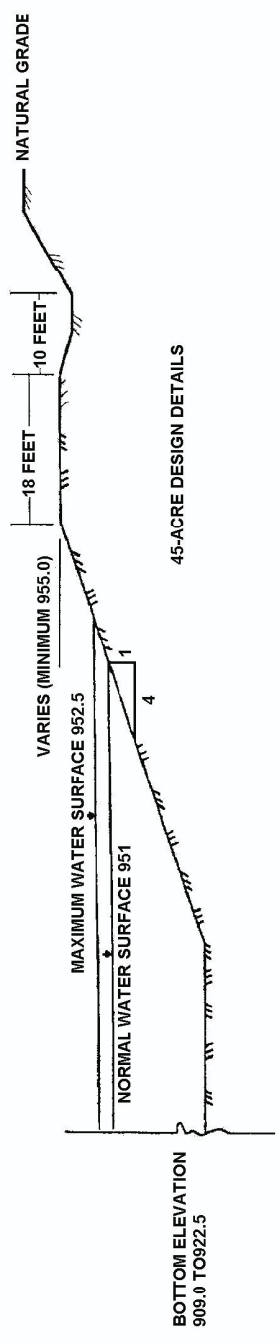
COMBINED ELEVATION AREA CAPACITY CURVE - TOTAL



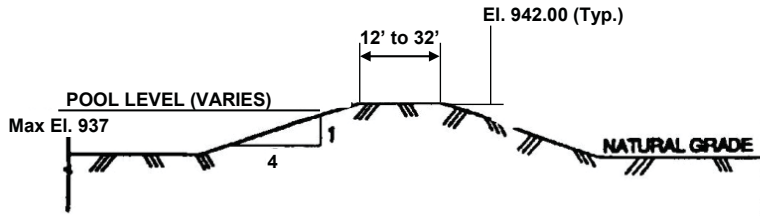
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 45-ACRE & 85-ACRE RESERVOIR AREA CAPACITY  
 CURVE  
 FIGURE 2.4-22c  
 JUNE 2009  
 REVISION 15



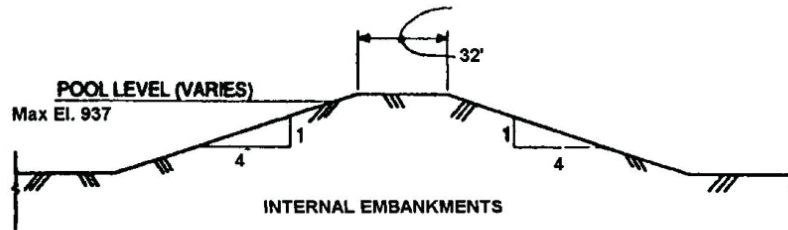
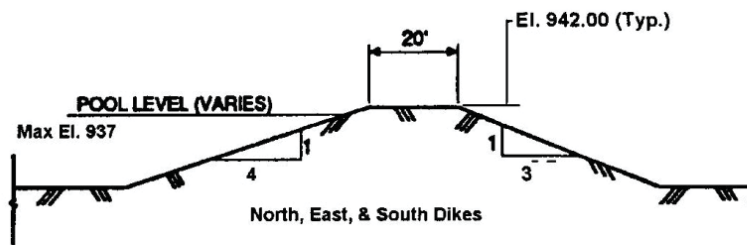
NOTE: ALL ELEVATION IN FEET ABOVE MEAN SEA LEVEL (1958)



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 45-ACRE & 85-ACRE RESERVOIR DESIGN DETAILS  
 FIGURE 2.4-23  
 JUNE 2009 REVISION 15



**TYPICAL EVAPORATION POND #1 SECTIONS**



**TYPICAL EVAPORATION POND #2 SECTIONS**

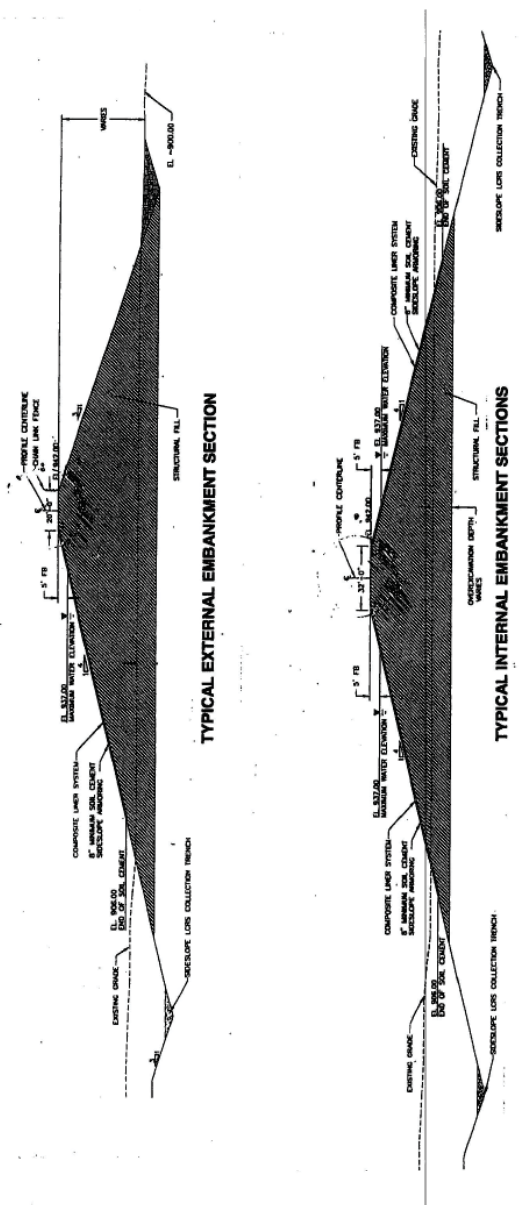
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

EVAPORATION POND DESIGN DETAILS

FIGURE 2.4-25

JUNE 2017

REVISION 19

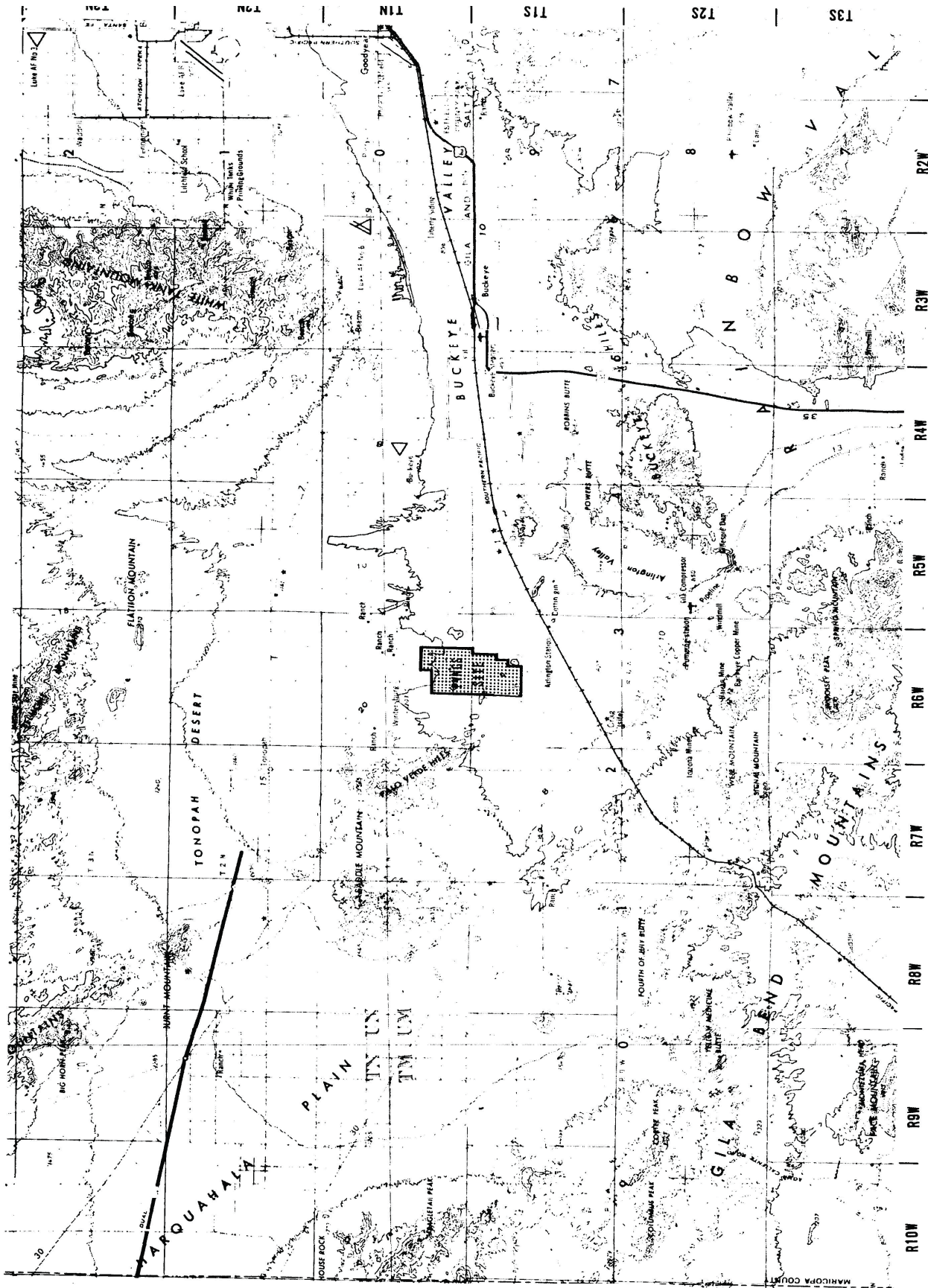


TYPICAL EVAPORATION POND #3 SECTIONS

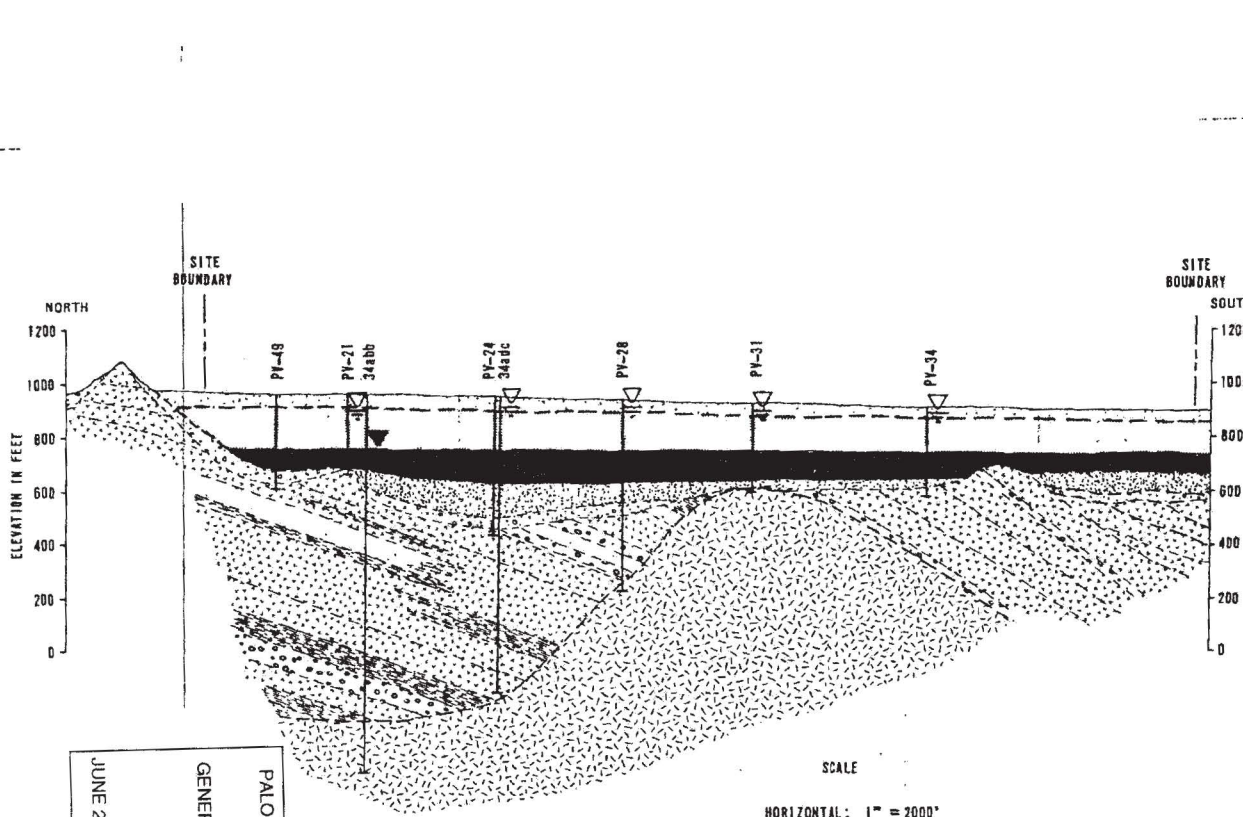
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 EVAPORATION POND DESIGN DETAILS  
 FIGURE 2.4-25a

JUNE 2011 REVISION 16





**PALO VERDE NUCLEAR GENERATING STATION**  
**UPDATED FSAR**  
  
**MAP OF THE SITE REGION**  
  
**FIGURE 2.4-26**  
  
**JUNE 2009** **REVISION 15**



## EXPLANATION

### LITHOLOGIC DESCRIPTIONS

#### A. UPPER ALLUVIAL UNIT

SILTY AND GRAVELLY SANDS, WITH SOME SILTS AND CLAYS (LZ-5)

#### B. MIDDLE FINE GRAINED UNIT (AQUITARD)

UPPER ZONE: SILTY CLAYS WITH SOME SILTS AND SILTY SANDS (LZ-4)

LOWER ZONE: PALO VERDE CLAY (LZ-3)

#### C. LOWER COARSE GRAINED UNIT

SILTY SAND, SAND AND GRAVELLY SAND (LZ-2)

FANGLOMERATE (LZ-1)

VOLCANIC FLOWS AND FLOW BRECCIA

BRECCIA

TUFFACEOUS AND ARKOSIC SANDSTONE

TUFF

#### D. BASEMENT COMPLEX

GRANITIC AND METAMORPHIC ROCKS

### WATER LEVELS (MARCH 1979)

PERCHED WATER ZONE

REGIONAL AQUIFER

### SCALE

HORIZONTAL: 1" = 2000'

VERTICAL : 1" = 400'

VERTICAL EXAGGERATION: 5X

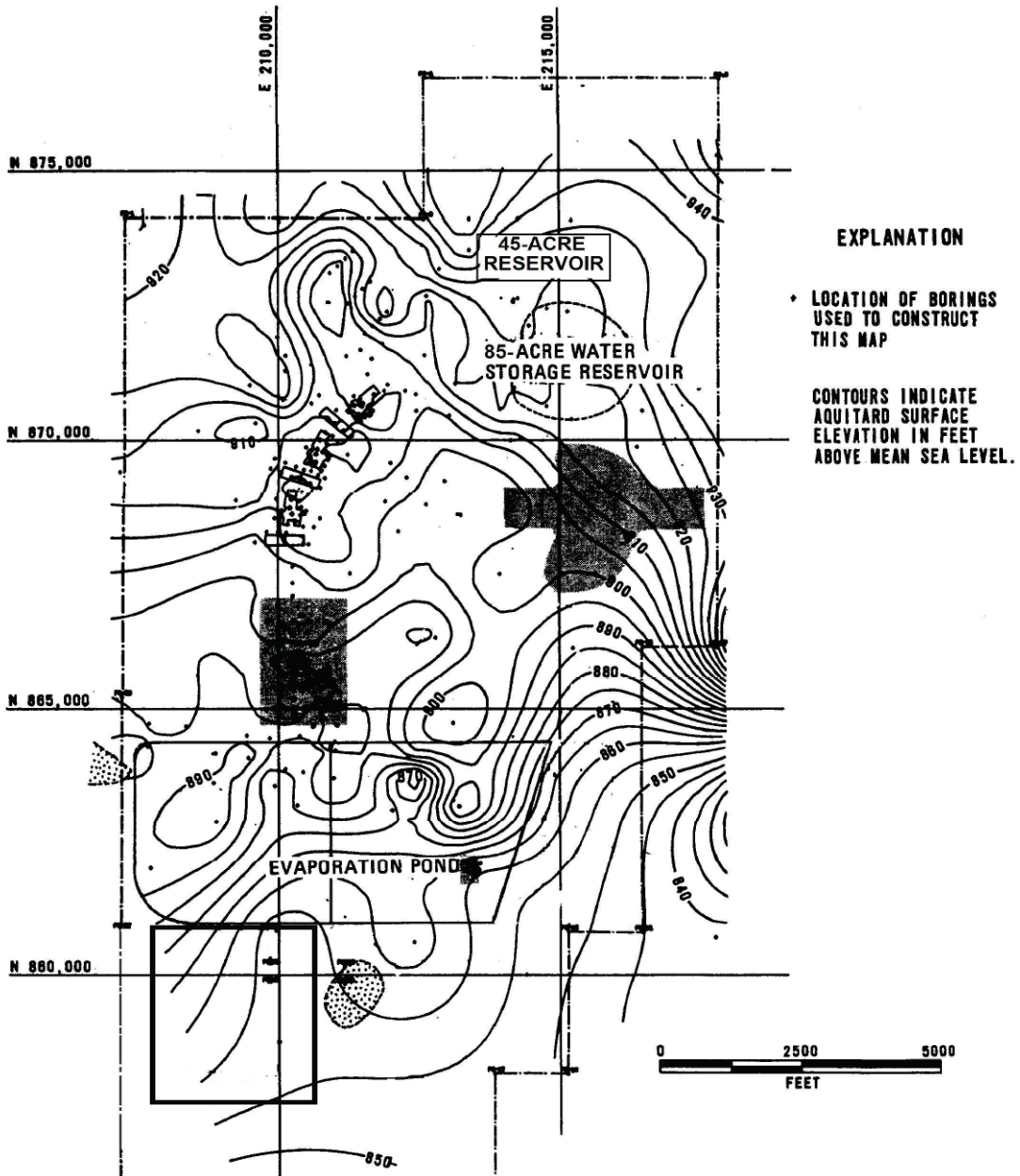
NOTE: DIP OF VOLCANIC FLOW BEDDING IS NOT EXAGGERATED.

JUNE 2001

FIGURE 2-4-27

REVISION 11

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 GENERALIZED HYDROGEOLOGIC CROSS-SECTION  
 OF THE SITE

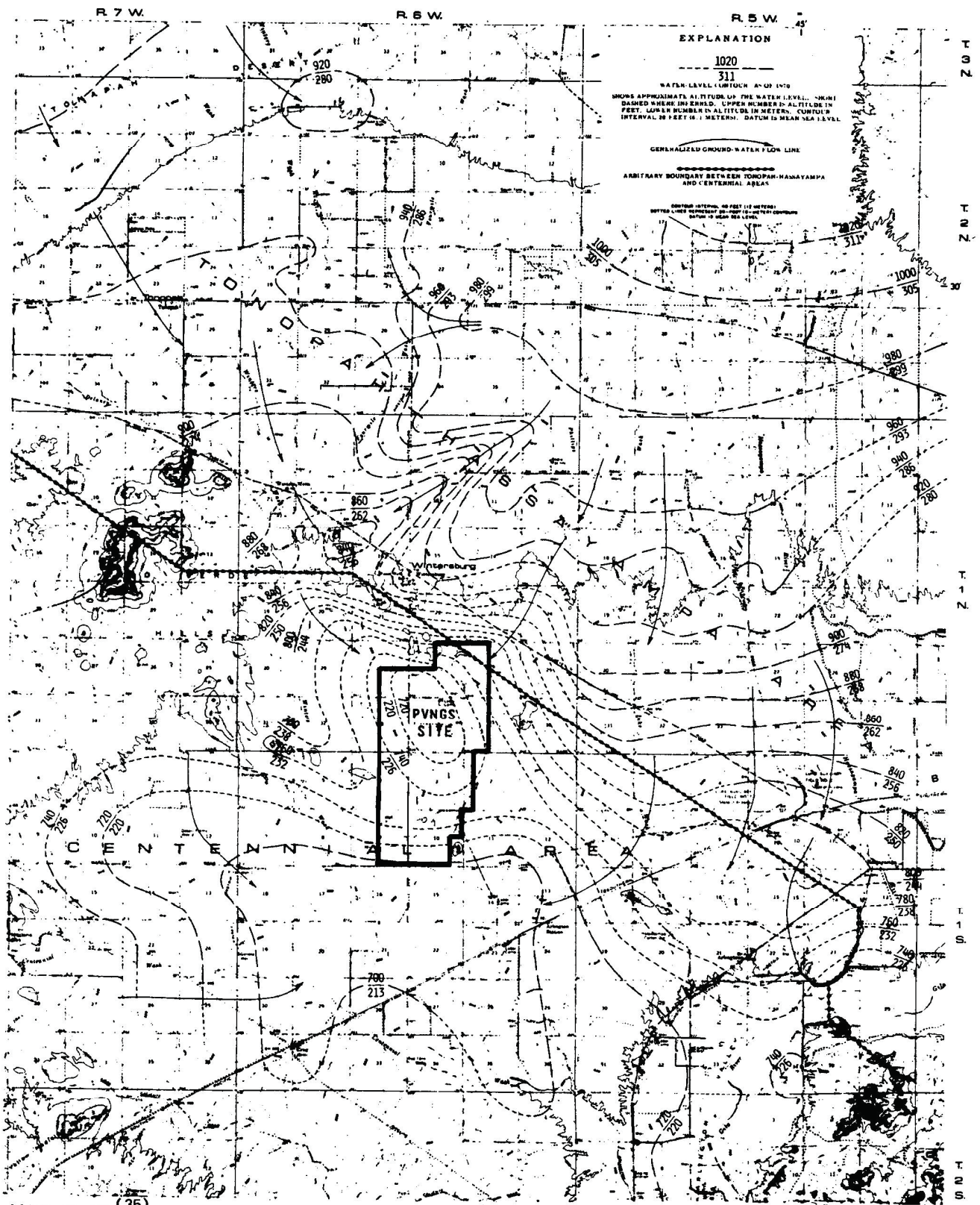


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

STRUCTURE CONTOUR MAP TOP OF MIDDLE FINE  
 GRAINED UNIT (AQUITARD)

FIGURE 2.4-28

JUNE 2011 REVISION 16



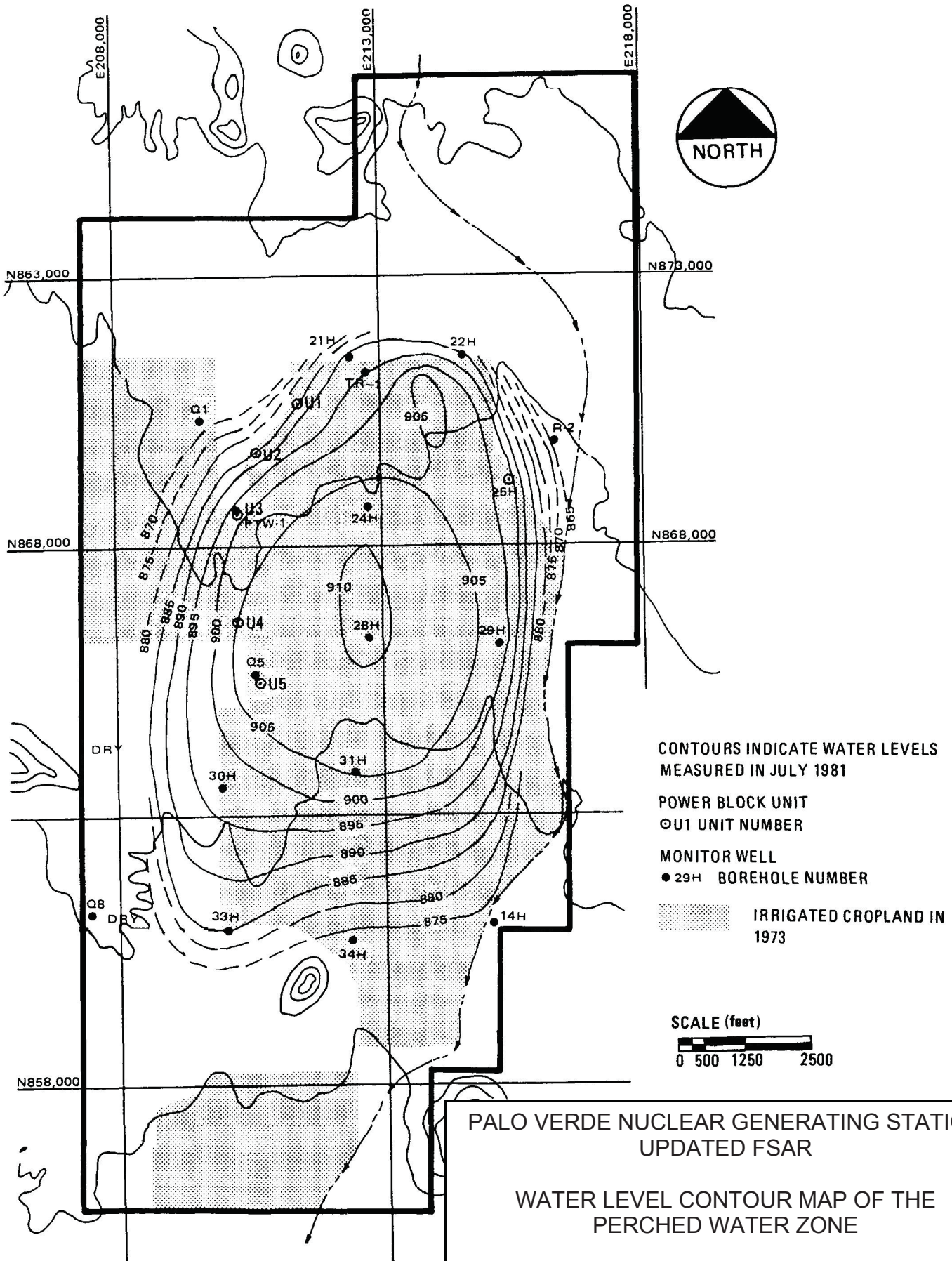
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

WATER LEVEL CONTOUR MAP OF THE  
REGIONAL AQUIFER

FIGURE 2.4-29

JUNE 2009

REVISION 15

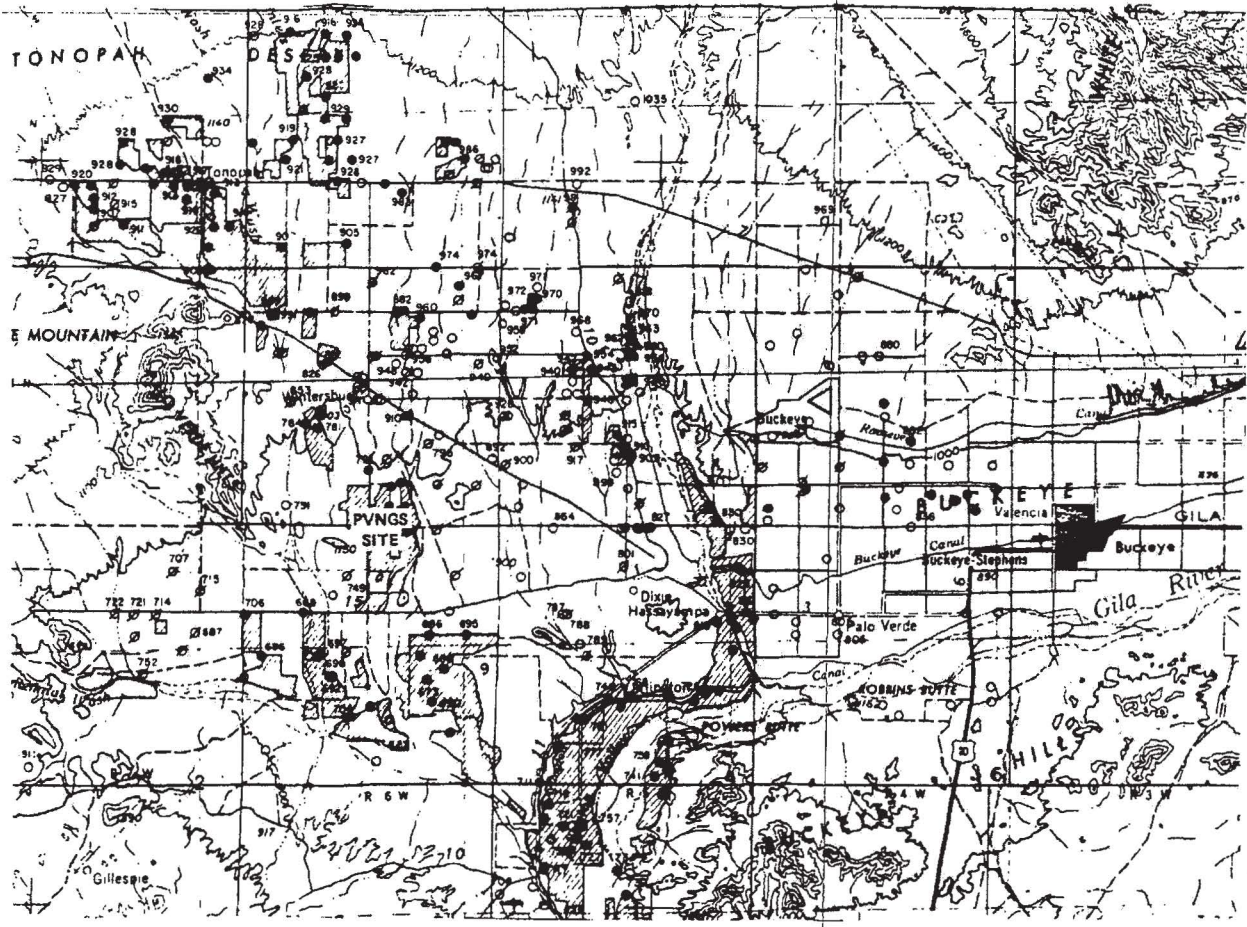


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

WATER LEVEL CONTOUR MAP OF THE  
 PERCHED WATER ZONE

FIGURE 2.4-30

JUNE 2009 REVISION 15

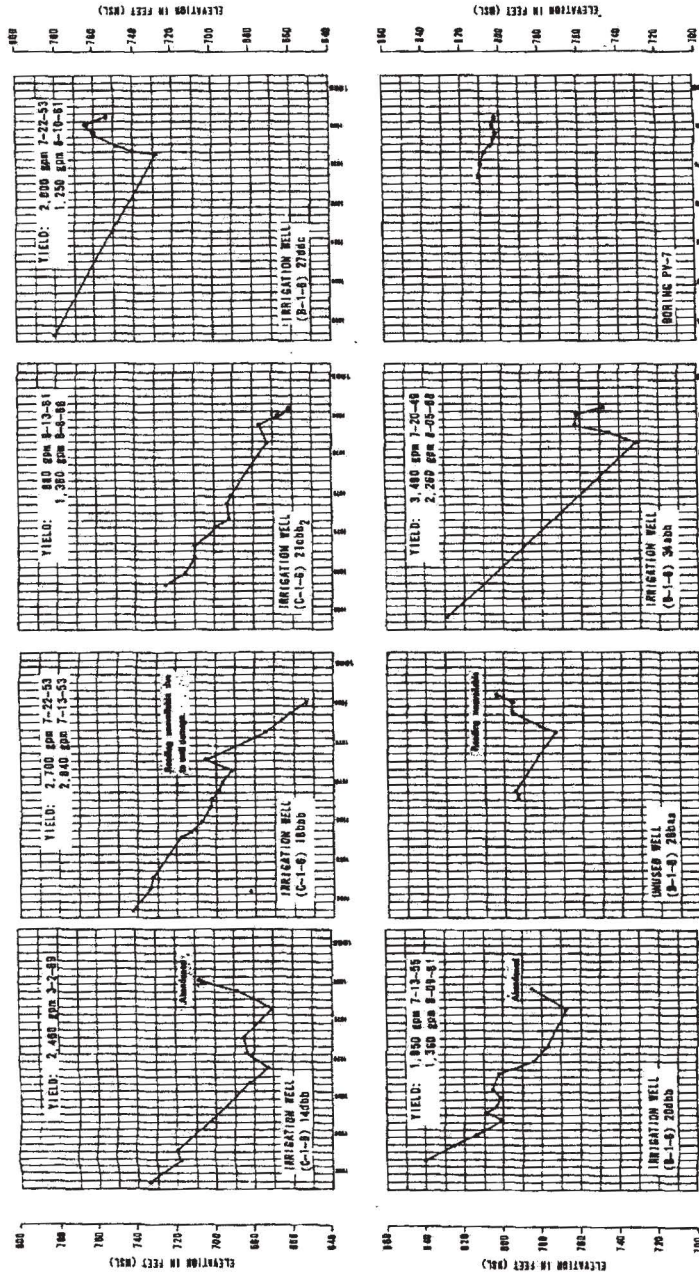


**LEGEND**

- WELLS**
- 870 IRRIGATION  
NUMBER INDICATES WATER LEVEL  
IN FEET ABOVE MSL (1980 - 1973)
  - STOCK, DOMESTIC
  - ⊗ UNUSED, DESTROYED
  - ▲ STREAM GAGING STATION
  - △ CREST-STAGE GAGING STATION
  - ▨ IRRIGATED CROPLAND IN 1970



PALO VERDE NUCLEAR GENERATING STATION UPDATED FSAR  
 LOCATION MAP OF WELLS IN THE LOWER  
 HASSAYAMPA CENTENNIAL AREA  
 FIGURE 2.4-31  
 JUNE 2001  
 REVISION 11



NOTES:  
 ▲ WELL DATA PRIOR TO 1972 FROM PUBLIC USE  
 ▼ WELL DATA AFTER 1972 OBTAINED  
 BY FSAR, INC.  
 ▲ THE LOCATION OF THESE WELLS ARE KNOWN  
 IN FIGURE 2.4-1

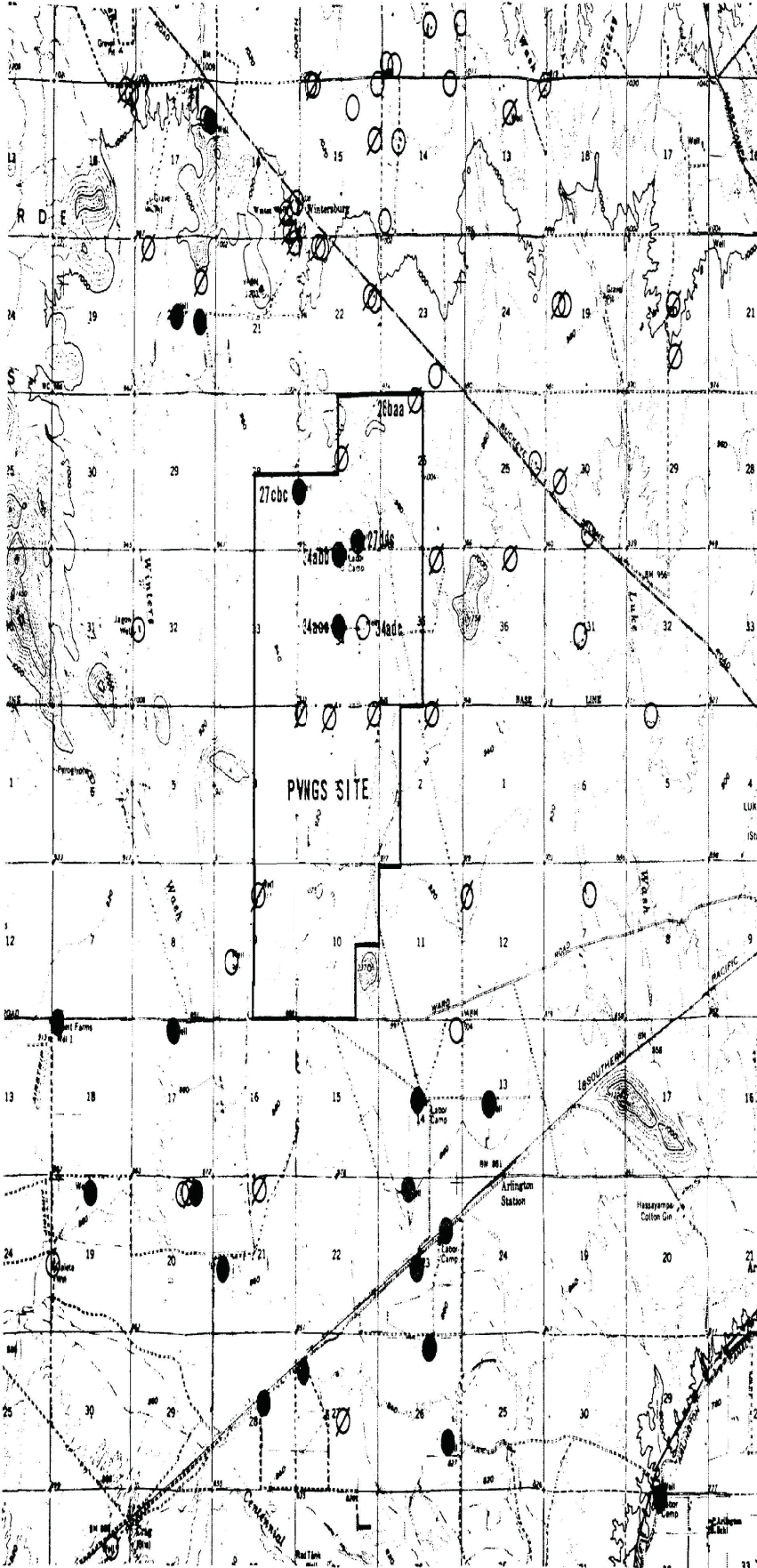
PALO VERDE NUCLEAR GENERATING STATION UPDATED FSAR

HYDROGRAPHS OF DEEP WELLS  
 IN THE SITE AREA

FIGURE 2.4-32

JUNE 2001

REVISION 11



NOTE: ALL ON-SITE WELLS EXCEPT 34abb, 27ddc, 27cbc AND 26baa WERE ABANDONED IN 1977 AND SEALED OFF BY FILLING WITH CEMENT GROUT.

- EXPLANATION
- IRRIGATION
  - STOCK, DOMESTIC
  - ∅ UNUSED DESTROYED

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

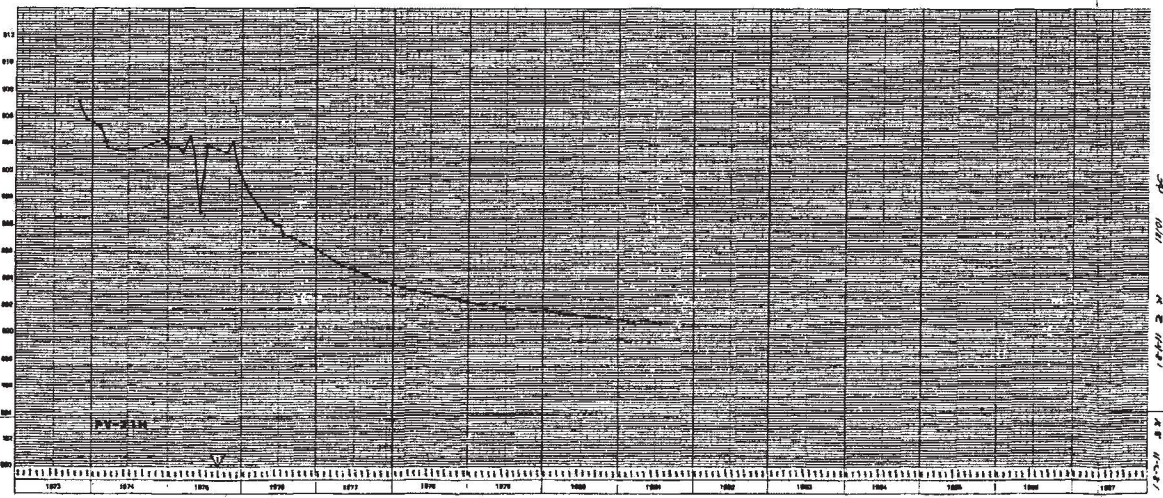
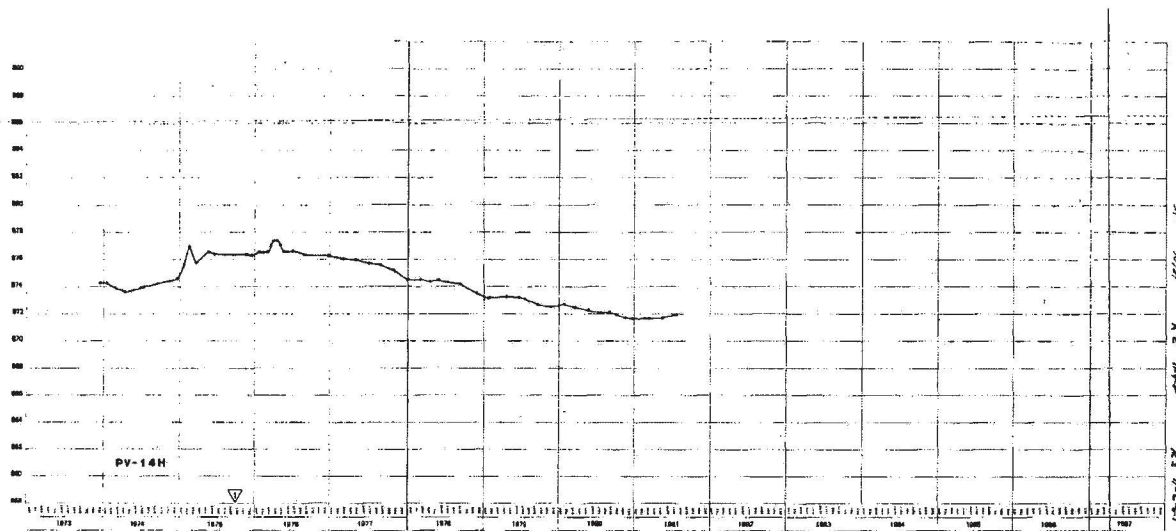
LOCATION MAP OF WELLS IN THE SITE AREA

FIGURE 2.4-33

JUNE 2009

REVISION 15





NOTES:

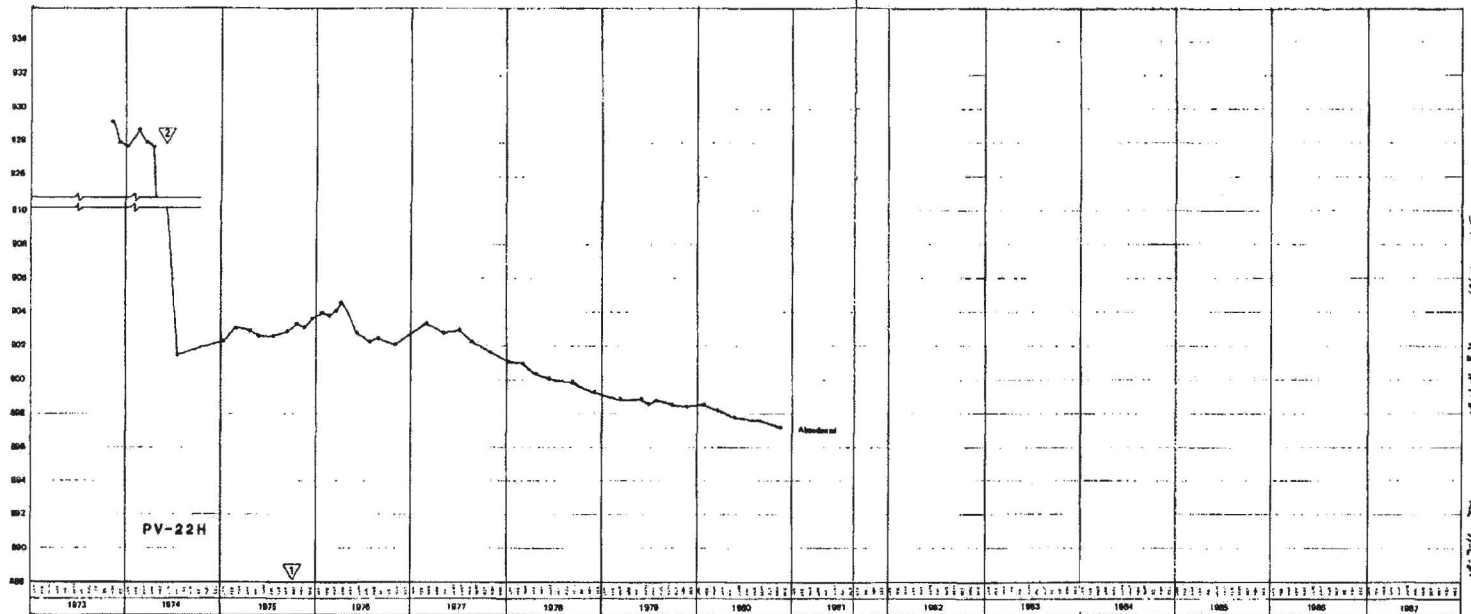
- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
  - ▽ WELL RESPONSE TO FLUSHING.
  - ▽ IRRIGATION WELL B-1-8-34ecc, LOCATED AT A DISTANCE OF 214' FROM PV-24H AND 1/2 MILE FROM PV-25H, WAS SEALED BY GROUTING IN JULY 1976. THE SUDDEN RISE IN THE MEASURED WATER LEVELS INDICATES THAT THESE WELLS WERE LOCATED WITHIN THE CONE OF DEPRESSION CAUSED BY PERCHED WATER CASCADING THROUGH THE IRRIGATION WELL.
- ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP A - NORTHERN HALF)

FIGURE 2.4-34 Sheet 1 of 3

JUNE 2001 REVISION 11



NOTES:

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
- ▽ WELL RESPONSE TO FLUSHING.
- ▽ IRRIGATION WELL B-1-6-34acc, LOCATED AT A DISTANCE OF 214' FROM PV-24H AND ½ MILE FROM PV-25H, WAS SEALED BY GROUTING IN JULY 1976. THE SUDDEN RISE IN THE MEASURED WATER LEVELS INDICATES THAT THESE WELLS WERE LOCATED WITHIN THE CONE OF DEPRESSION CAUSED BY PERCHED WATER CASCADING THROUGH THE IRRIGATION WELL.

ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

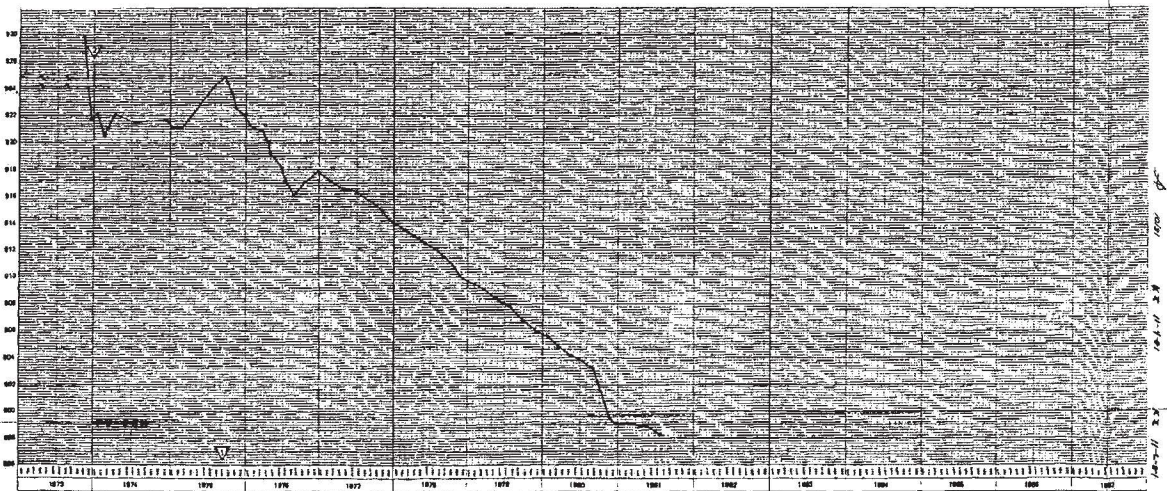
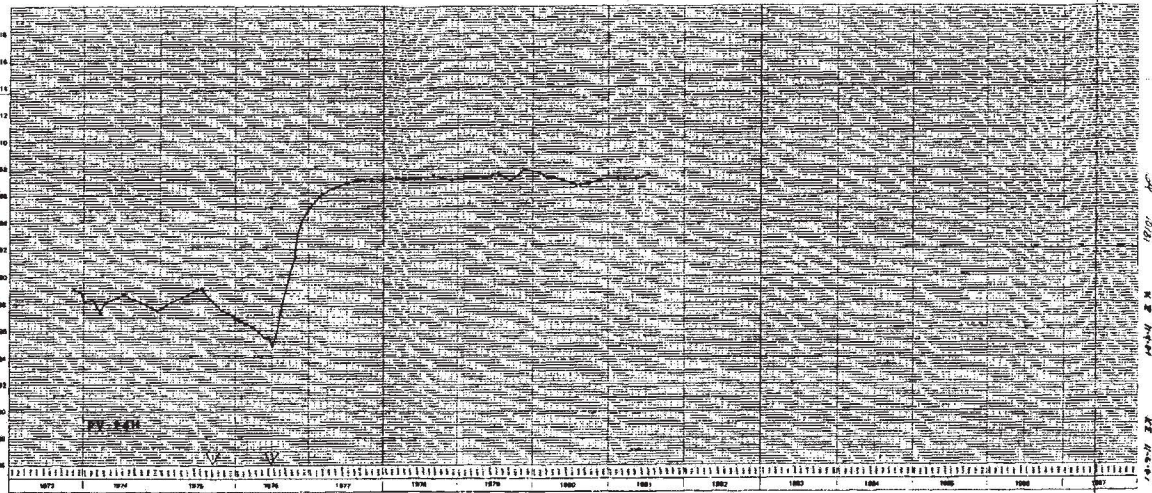
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
IN THE PERCHED WATER ZONE  
(GROUP A - NORTHERN HALF)

FIGURE 2.4-34 Sheet 2 of 3

JUNE 2001

REVISION 11

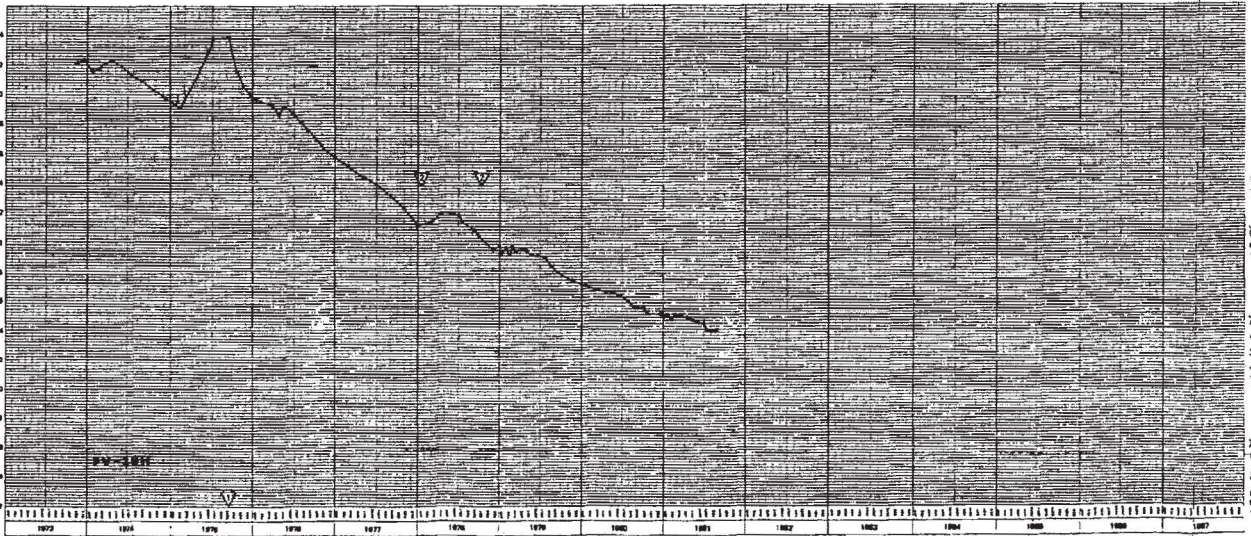
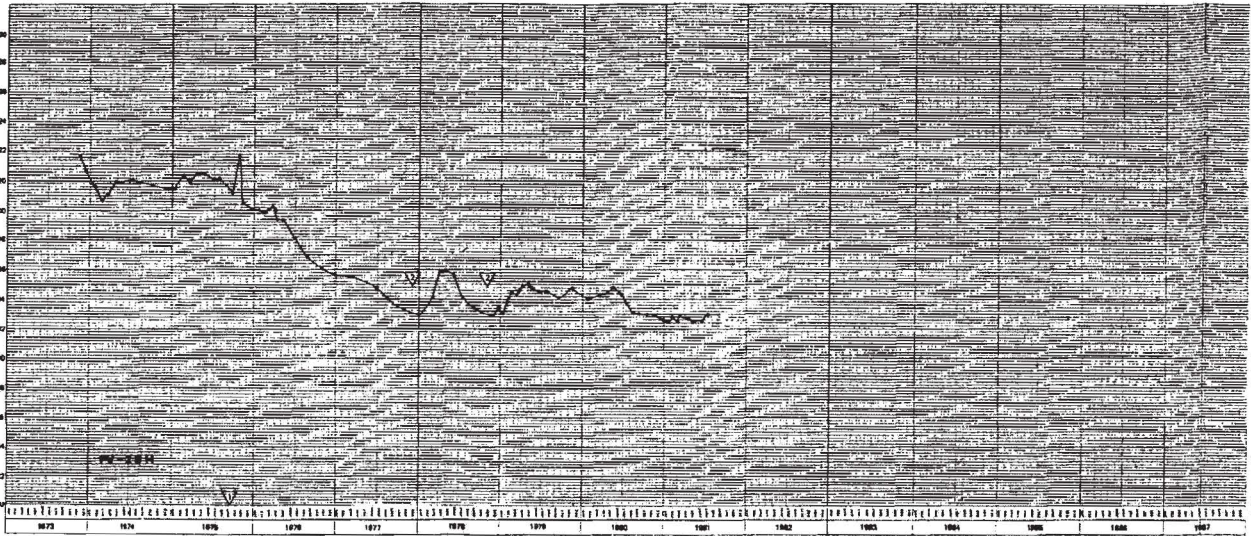


NOTES:

- T<sup>1</sup> ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
- '77 WELL RESPONSE TO FLUSHING.
- '80 IRRIGATION WELL B-1-6-34acc, LOCATED AT A DISTANCE OF 214' FROM PV-24H AND 1/2 MILE FROM PV-25H, WAS SEALED BY GROUTING IN JULY 1976. THE SUDDEN RISE IN THE MEASURED WATER LEVELS INDICATES THAT THESE WELLS WERE LOCATED WITHIN THE CONE OF DEPRESSION CAUSED BY PERCHED WATER CASCADING THROUGH THE IRRIGATION WELL.

ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE (GROUP A - NORTHERN HALF)  
 FIGURE 2.4-34 Sheet 3 of 3  
 JUNE 2001 REVISION 11



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

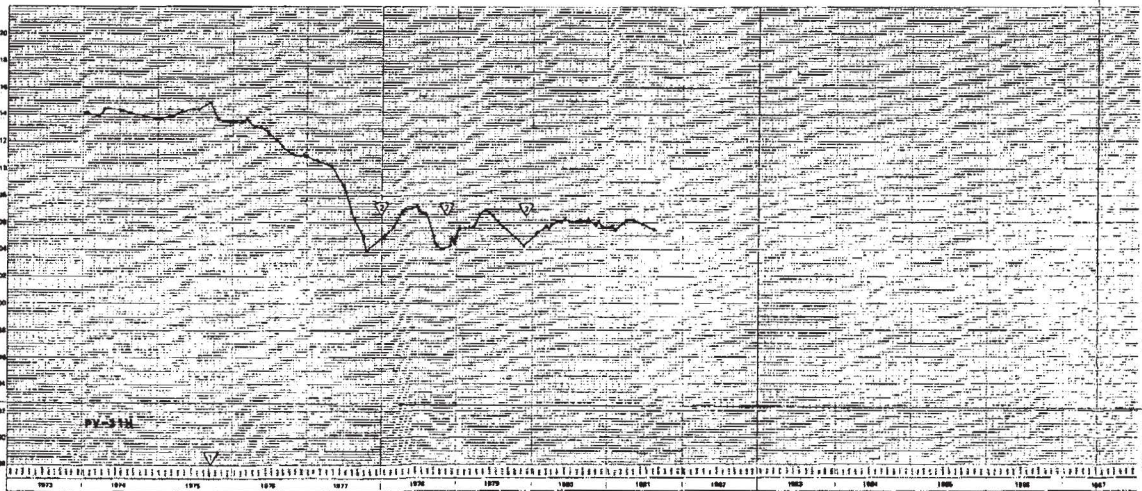
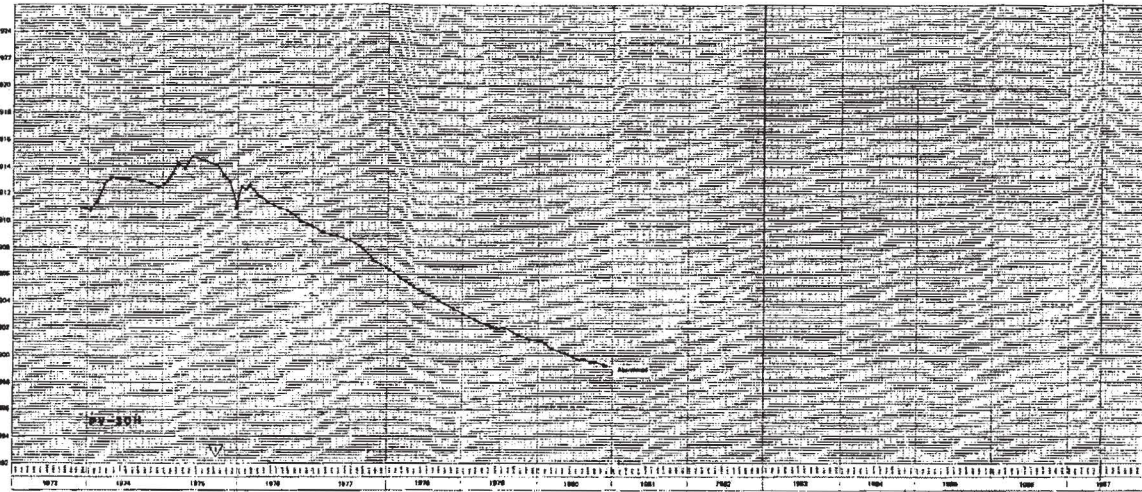
HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP A - SOUTHERN HALF)

FIGURE 2.4-35 Sheet 1 of 3

JUNE 2001 REVISION 11

NOTES:

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
  - ▽ CYCLIC SEASONAL VARIATIONS REFLECT RECHARGE FROM SEDIMENTATION BASIN LOCATED NEAR THE CENTER OF THE SITE. SURFACE RUNOFF WITHIN THE NORTHERN HALF OF THE SITE IS COLLECTED IN THE SEDIMENTATION BASIN.
- ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.



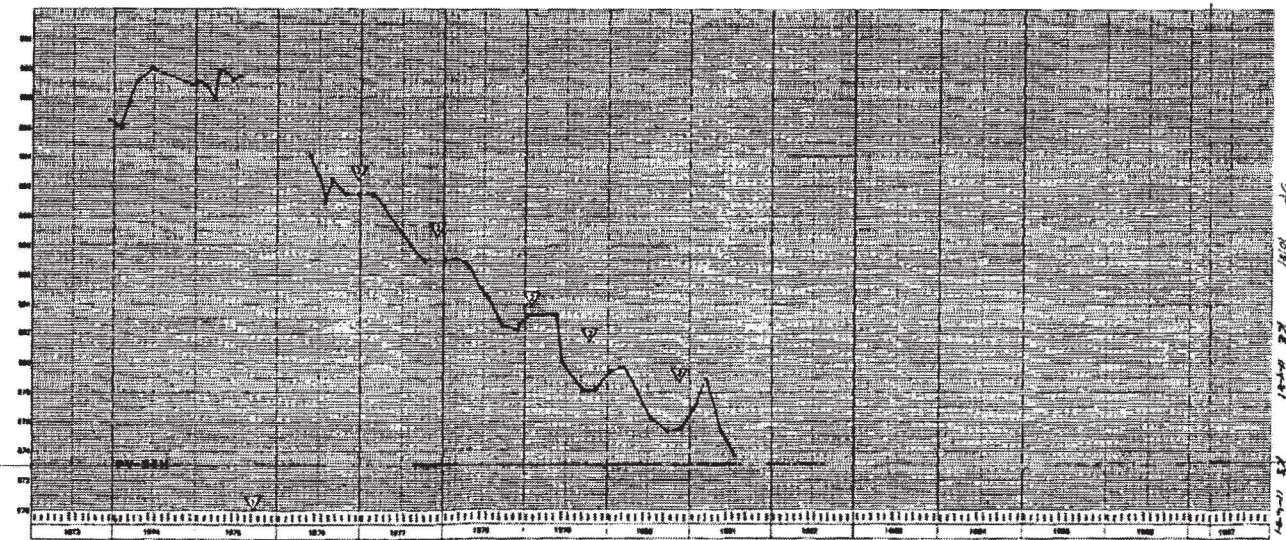
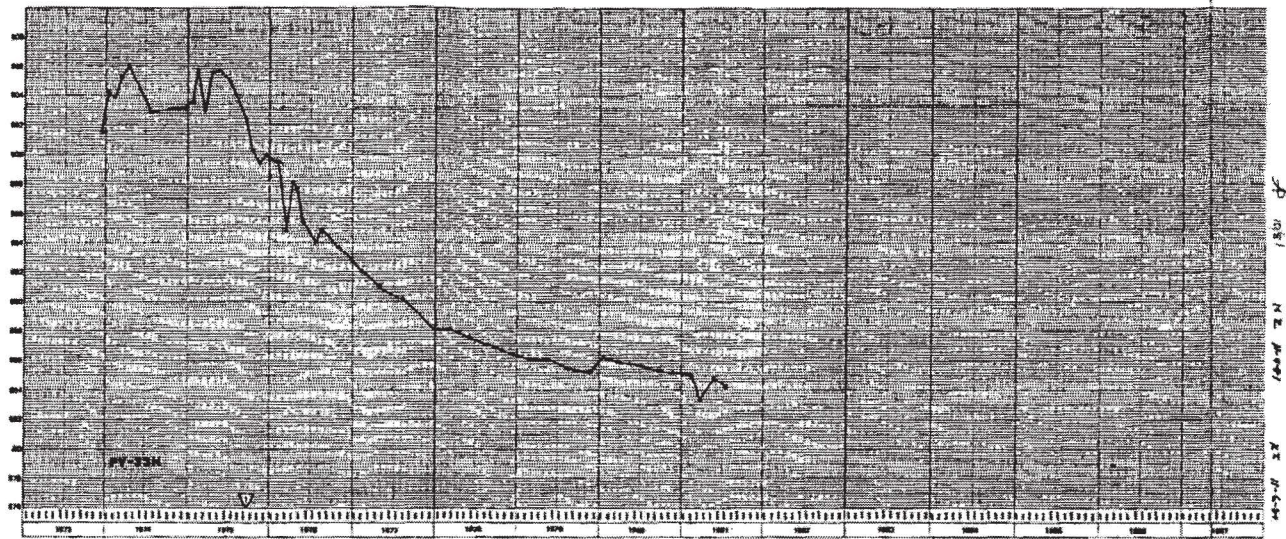
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP A - SOUTHERN HALF)

FIGURE 2.4-35 Sheet 2 of 3

JUNE 2001 REVISION 11

- NOTES:
- ① ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
  - ② CYCLIC SEASONAL VARIATIONS REFLECT RECHARGE FROM SEDIMENTATION BASIN LOCATED NEAR THE CENTER OF THE SITE. SURFACE RUNOFF WITHIN THE NORTHERN HALF OF THE SITE IS COLLECTED IN THE SEDIMENTATION BASIN.
- ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.



NOTES:

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
  - ▽ CYCLIC SEASONAL VARIATIONS REFLECT RECHARGE FROM SEDIMENTATION BASIN LOCATED NEAR THE CENTER OF THE SITE. SURFACE RUNOFF WITHIN THE NORTHERN HALF OF THE SITE IS COLLECTED IN THE SEDIMENTATION BASIN.
- ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

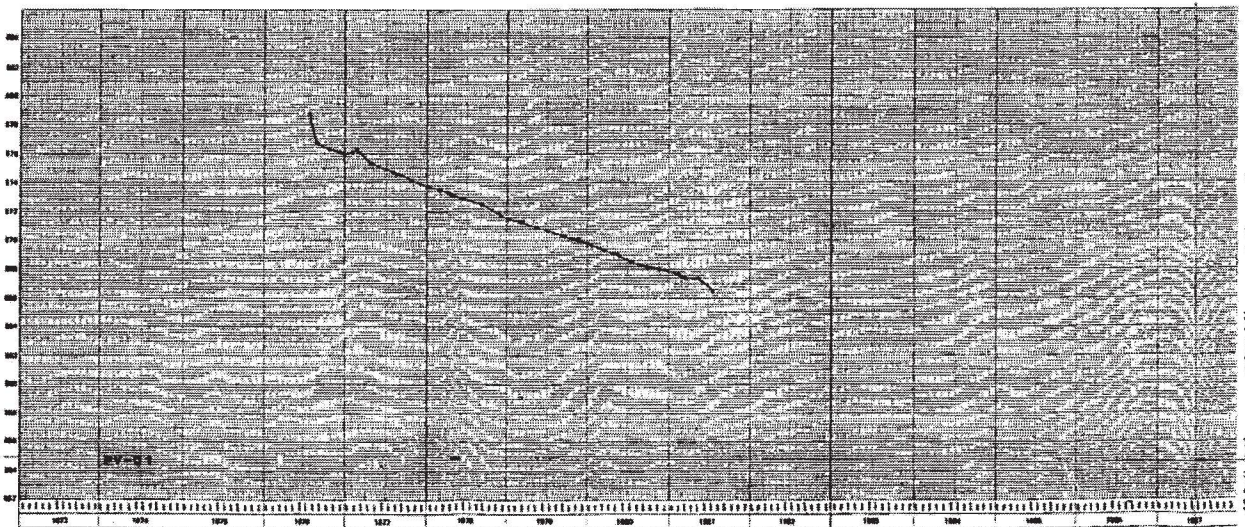
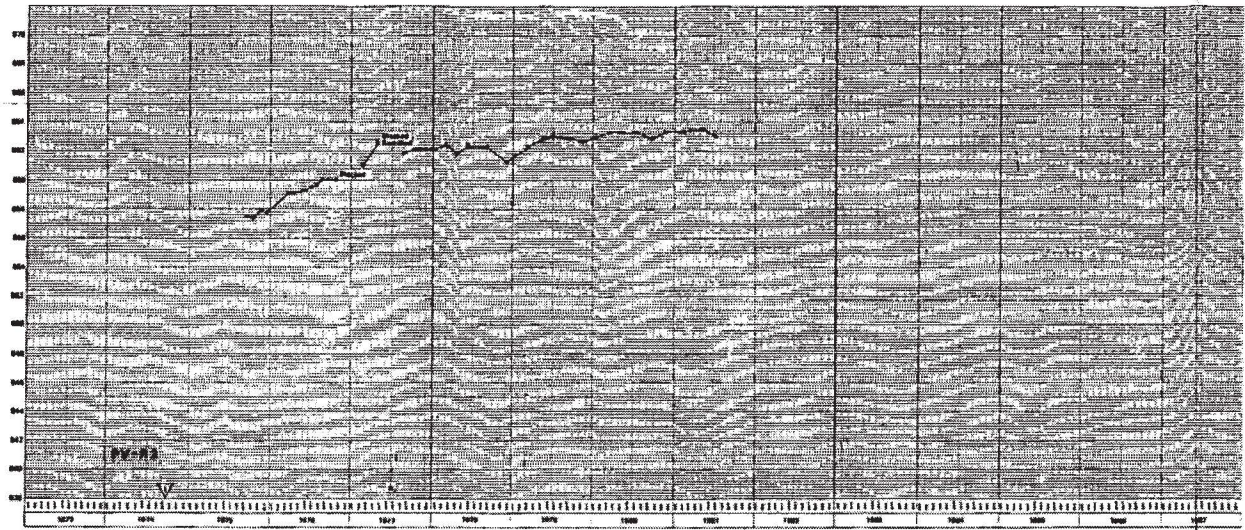
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP A - SOUTHERN HALF)

FIGURE 2.4-35 Sheet 3 of 3

JUNE 2001

REVISION 11



**NOTES.**

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1976.
- ▽ OBSERVATION WELL U3-PTW-1, LOCATED NEAR THE CENTER OF UNIT 3, WAS ABANDONED IN OCTOBER 1977 BECAUSE OF THE POWER BLOCK EXCAVATION. MONITORING OF WATER LEVELS IN THE AREA WAS CONTINUED IN WELL PV-03, INSTALLED AT THE EDGE OF THE EXCAVATION IN JANUARY 1978. THE STEEP DECLINE OF WATER LEVELS OBSERVED IN PV-03 REFLECTS THE LOCALIZED EFFECT OF DEWATERING IN THE EXCAVATION.

ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

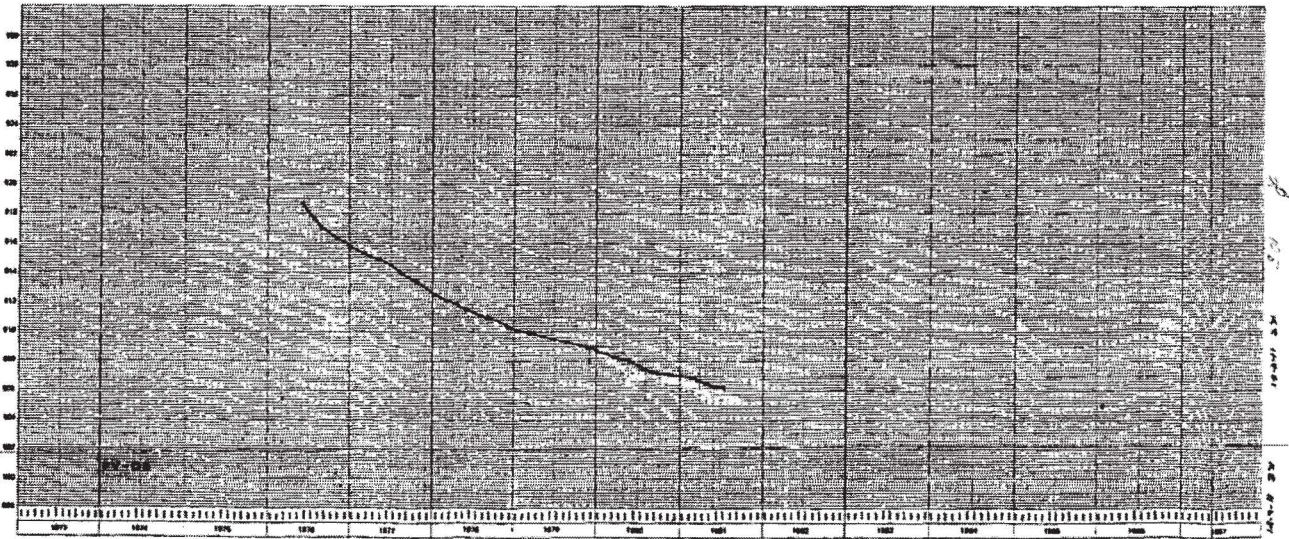
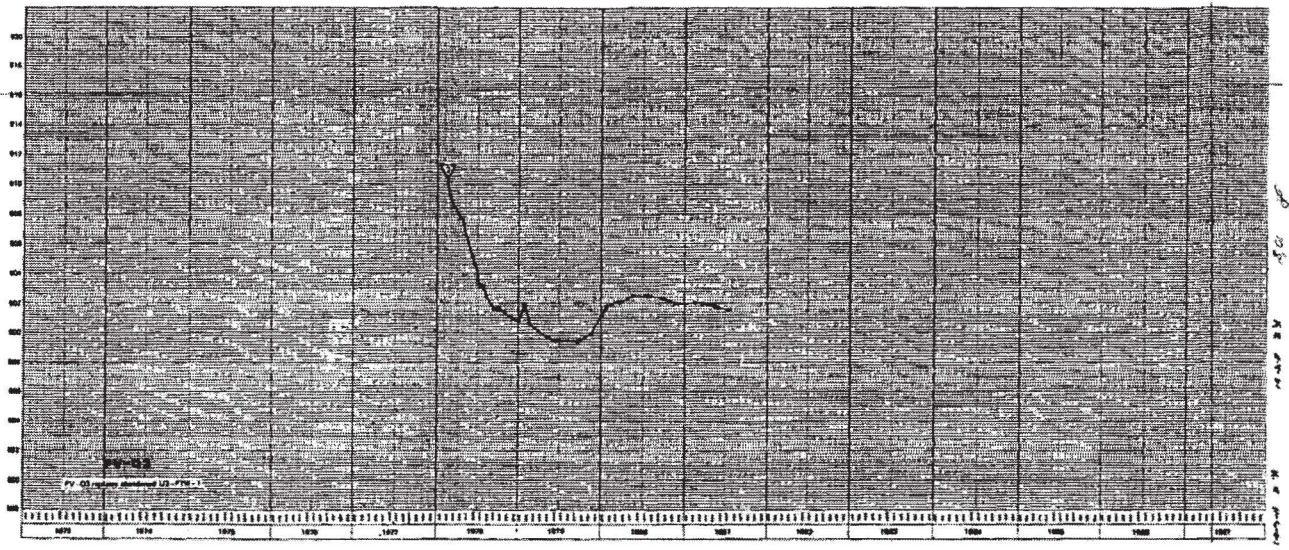
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
IN THE PERCHED WATER ZONE  
(GROUP B and C)

FIGURE 2.4-36 Sheet 1 of 4

JUNE 2001

REVISION 11



**NOTES:**

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
- ▽ OBSERVATION WELL U3-PTW-1, LOCATED NEAR THE CENTER OF UNIT 3, WAS ABANDONED IN OCTOBER 1977 BECAUSE OF THE POWER BLOCK EXCAVATION. MONITORING OF WATER LEVELS IN THE AREA WAS CONTINUED IN WELL PV-03, INSTALLED AT THE EDGE OF THE EXCAVATION IN JANUARY 1978. THE STEEP DECLINE OF WATER LEVELS OBSERVED IN PV-03 REFLECTS THE LOCALIZED EFFECT OF DEWATERING IN THE EXCAVATION.

ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

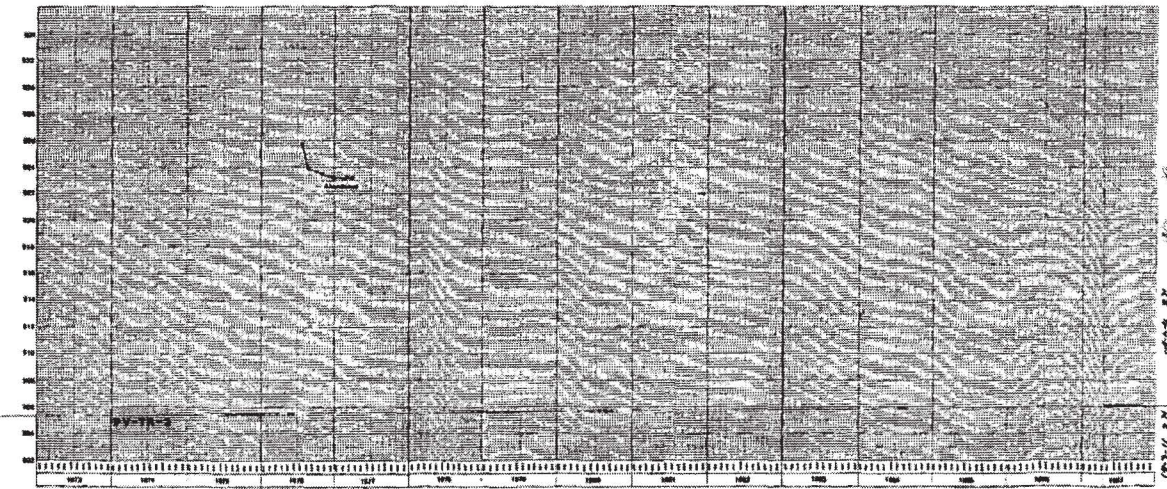
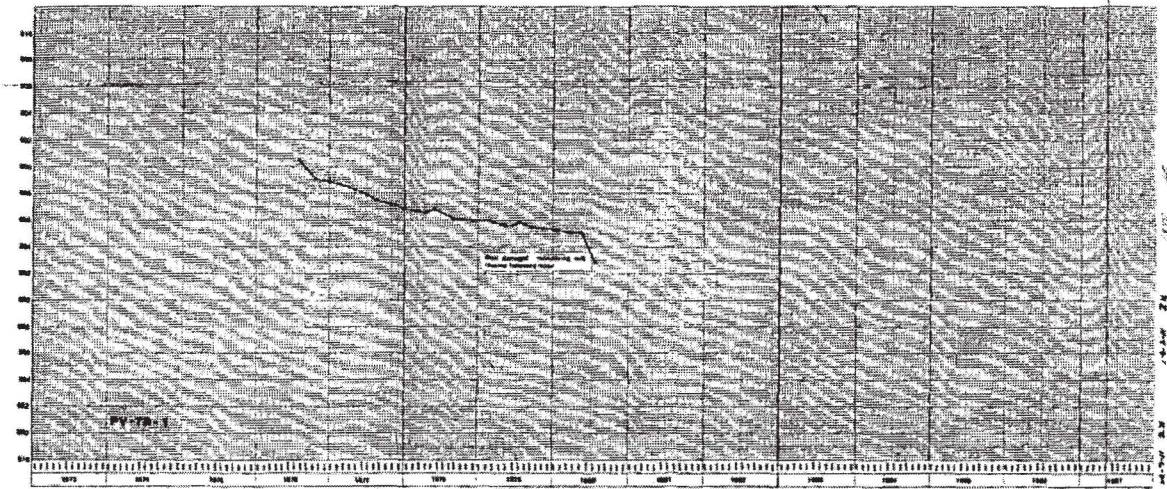
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP B and C)

FIGURE 2.4-36 Sheet 2 of 4

JUNE 2001 REVISION 11





**NOTES:**

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
- ▽ OBSERVATION WELL U3--PTW-1, LOCATED NEAR THE CENTER OF UNIT 3, WAS ABANDONED IN OCTOBER 1977 BECAUSE OF THE POWER BLOCK EXCAVATION. MONITORING OF WATER LEVELS IN THE AREA WAS CONTINUED IN WELL PV-03, INSTALLED AT THE EDGE OF THE EXCAVATION IN JANUARY 1978. THE STEEP DECLINE OF WATER LEVELS OBSERVED IN PV-03 REFLECTS THE LOCALIZED EFFECT OF DEWATERING IN THE EXCAVATION.

ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

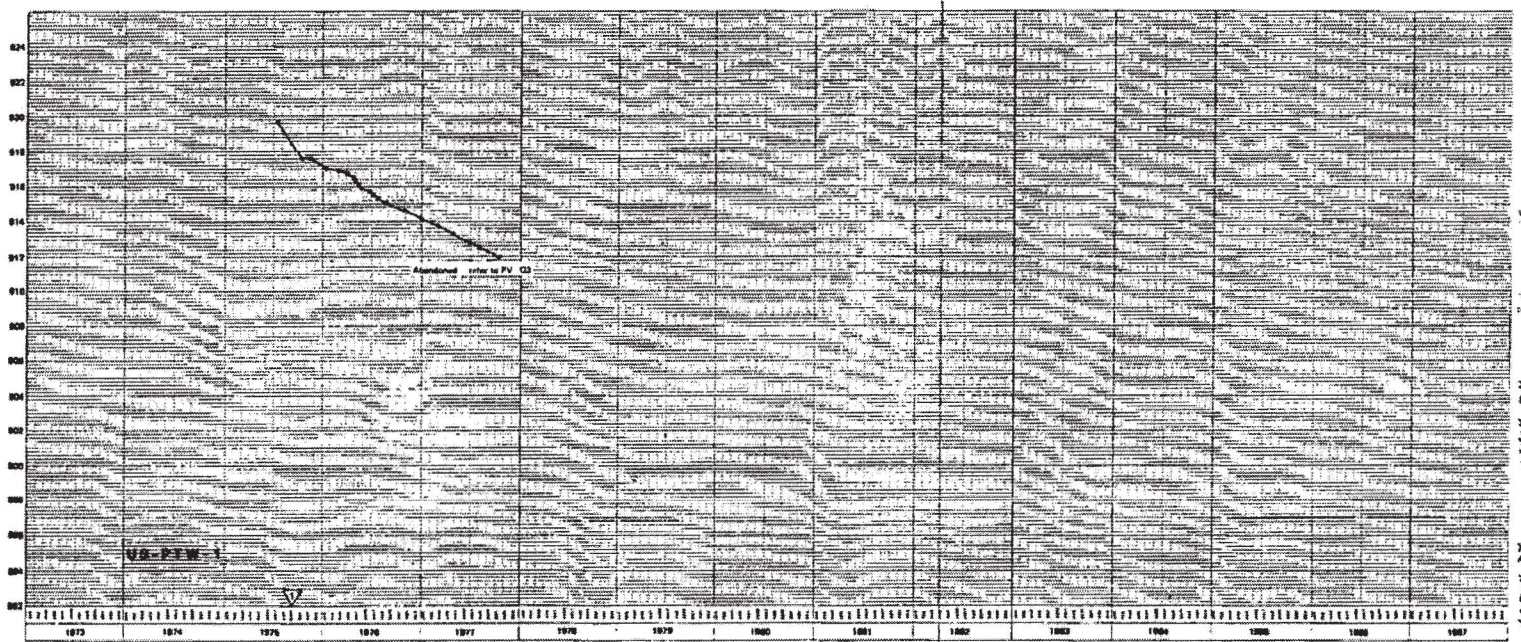
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
IN THE PERCHED WATER ZONE  
(GROUP B and C)

FIGURE 2.4-36 Sheet 3 of 4

JUNE 2001

REVISION 11



**NOTES:**

- ▽ ON SITE IRRIGATION CEASED SEPTEMBER, 1975.
- ▽ OBSERVATION WELL PV-03-PTW-1, LOCATED NEAR THE CENTER OF UNIT 3, WAS ABANDONED IN OCTOBER 1977 BECAUSE OF THE POWER BLOCK EXCAVATION. MONITORING OF WATER LEVELS IN THE AREA WAS CONTINUED IN WELL PV-03, INSTALLED AT THE EDGE OF THE EXCAVATION IN JANUARY 1978. THE STEEP DECLINE OF WATER LEVELS OBSERVED IN PV-03 REFLECTS THE LOCALIZED EFFECT OF DEWATERING IN THE EXCAVATION.

ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

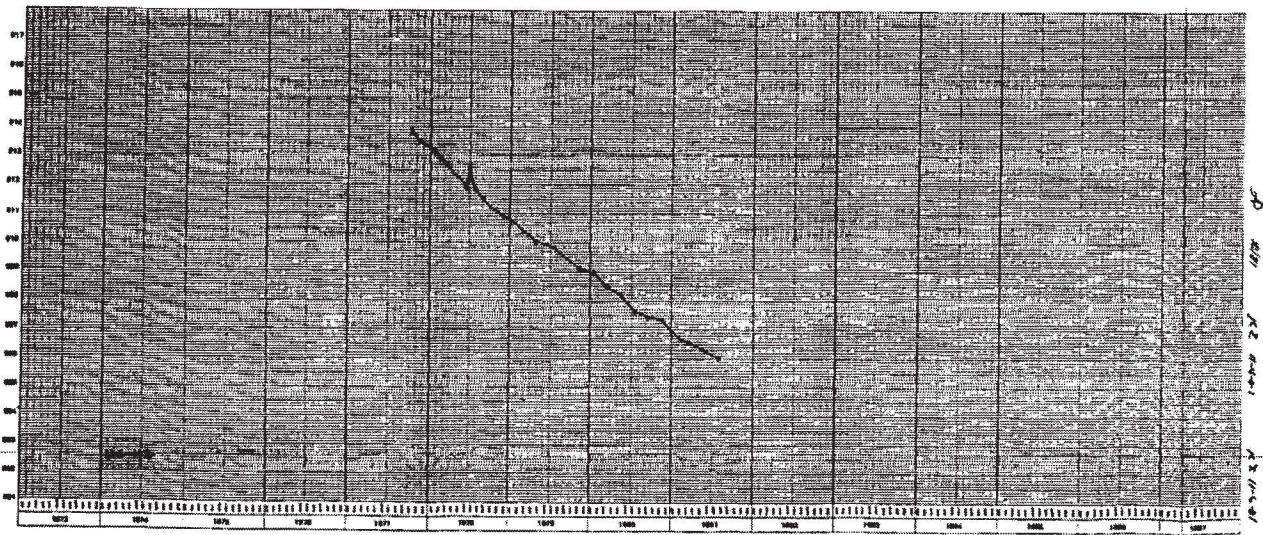
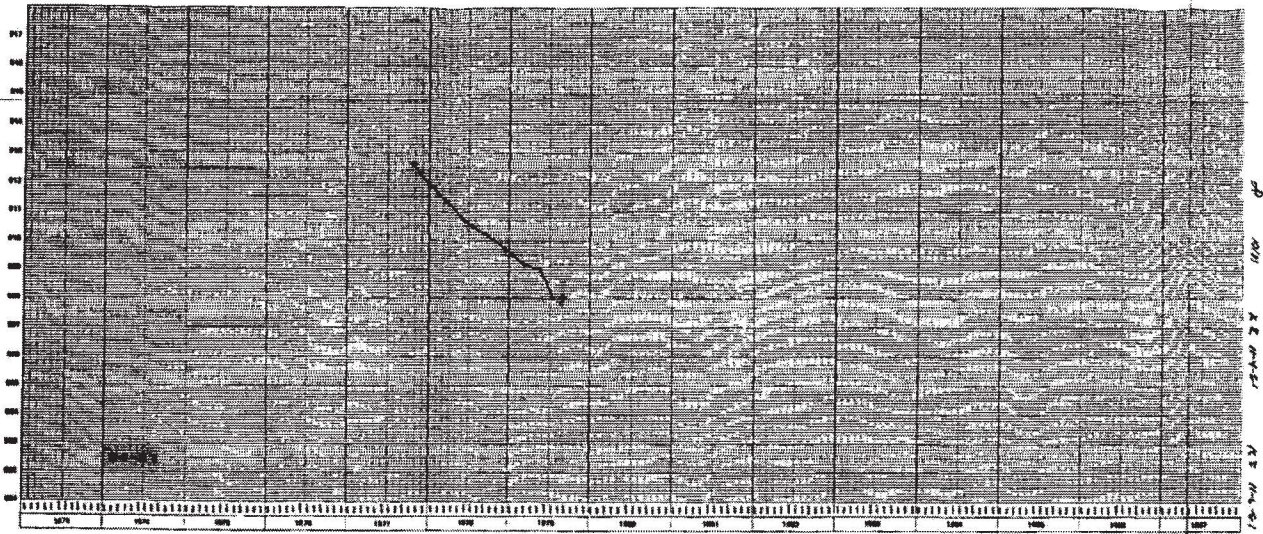
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
IN THE PERCHED WATER ZONE  
(GROUP B and C)

FIGURE 2.4-36 Sheet 4 of 4

JUNE 2001

REVISION 11



NOTES:

- ♦ MONITORING DISCONTINUED JULY 1978; WELL ON STANDBY.

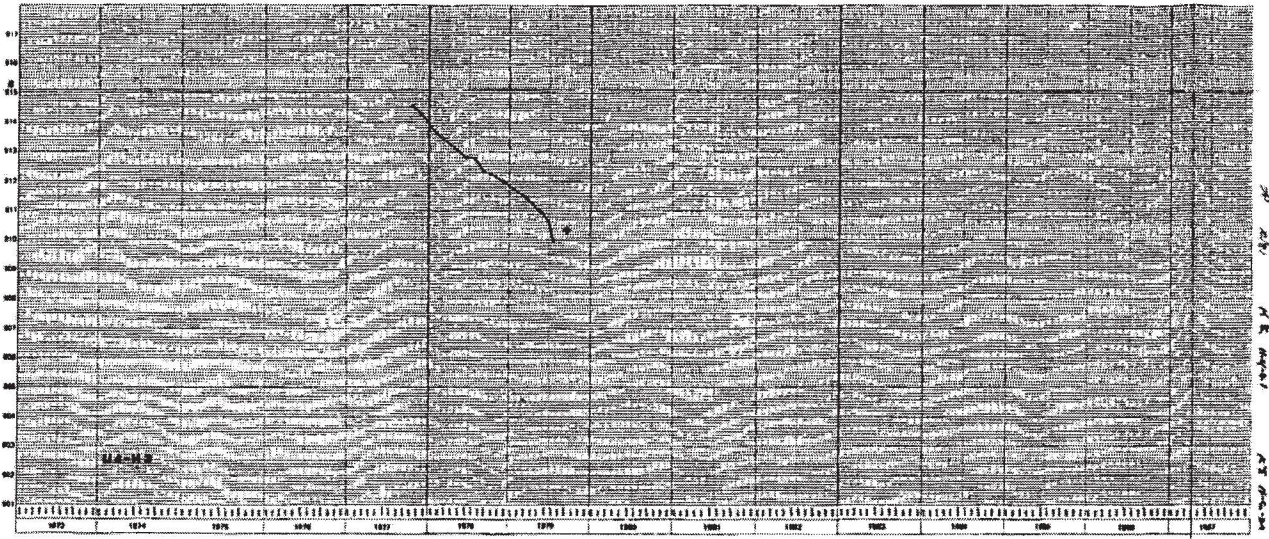
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
IN THE PERCHED WATER ZONE  
(GROUP D)

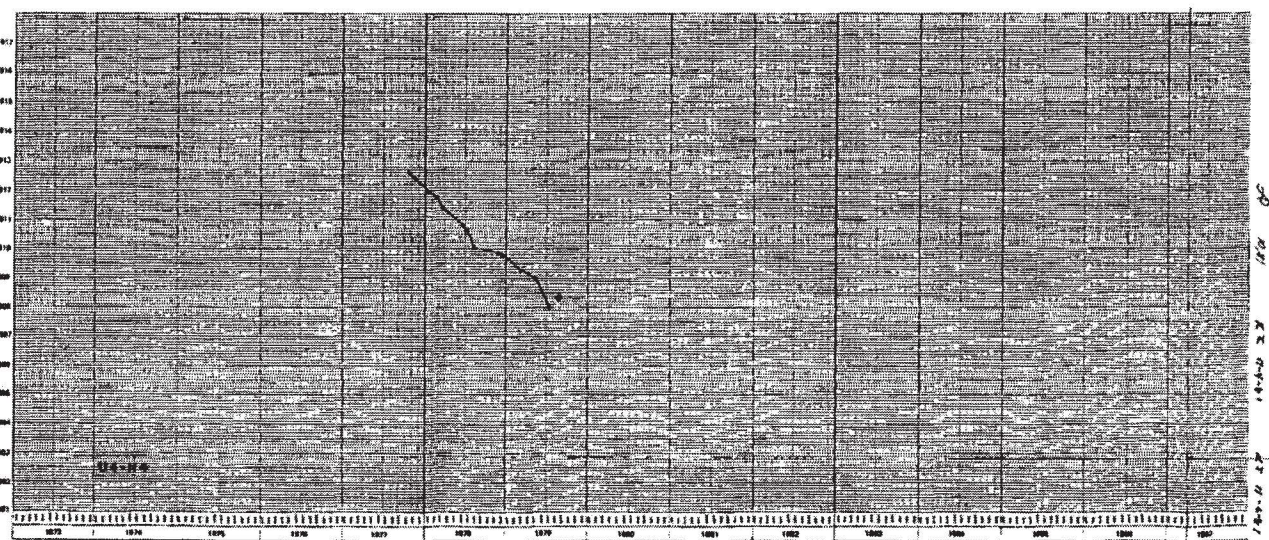
FIGURE 2.4-37 Sheet 1 of 4

JUNE 2001

REVISION 11



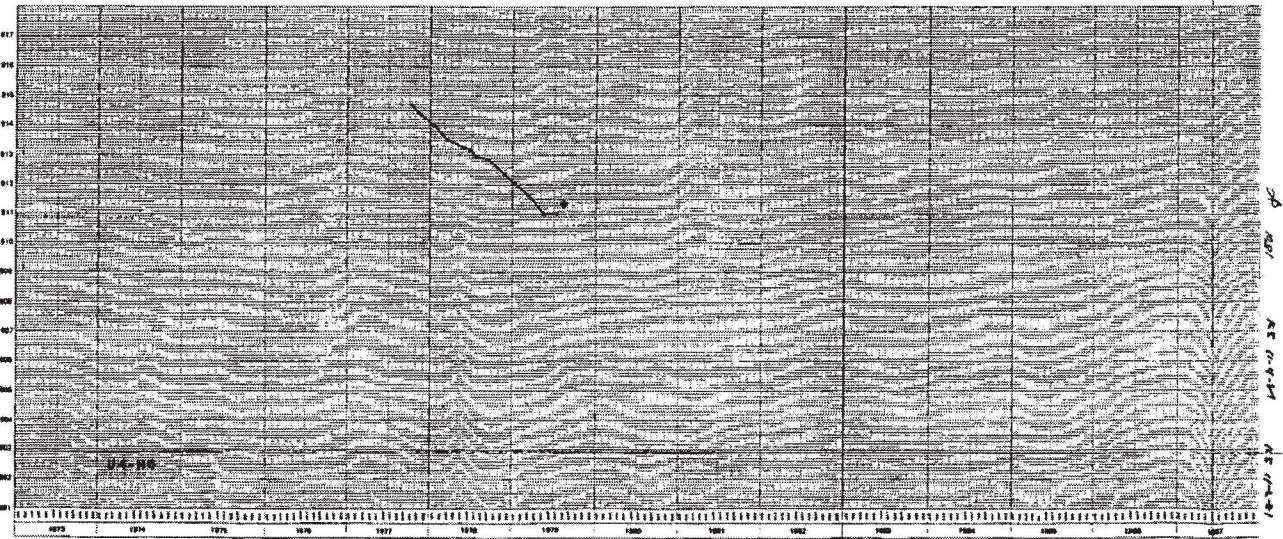
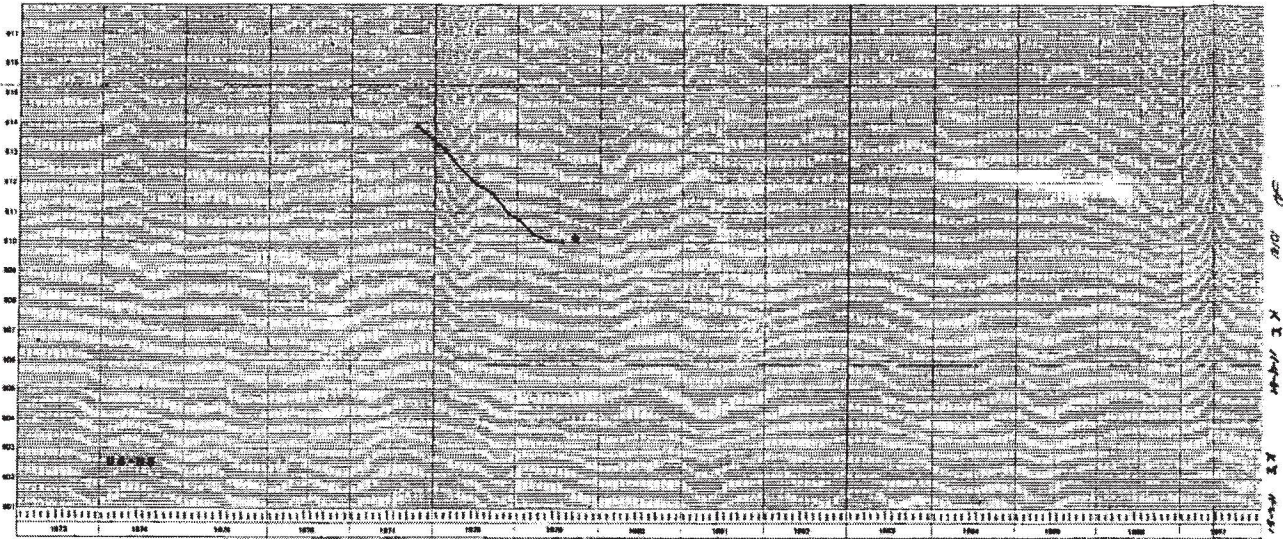
21A-34B  
N.R. 4-1-81  
AT 11-4-81



21A-34C  
N.R. 4-1-81  
AT 11-4-81

NOTES:  
 ● MONITORING DISCONTINUED JULY 1979; WELL ON  
 STANDBY.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)  
 FIGURE 2.4-37 Sheet 2 of 4  
 JUNE 2001 REVISION 11



NOTES:

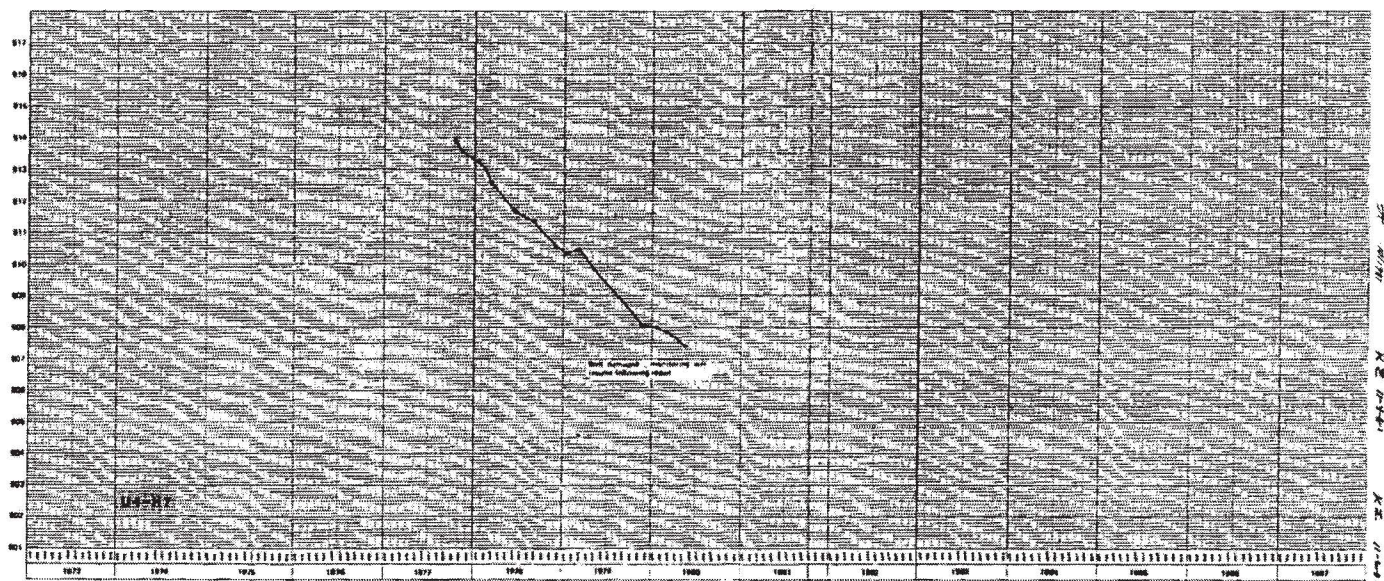
- ◆ MONITORING DISCONTINUED JULY 1979; WELL ON STANDBY.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)

FIGURE 2.4-37 Sheet 3 of 4

JUNE 2001 REVISION 11



**NOTES:**

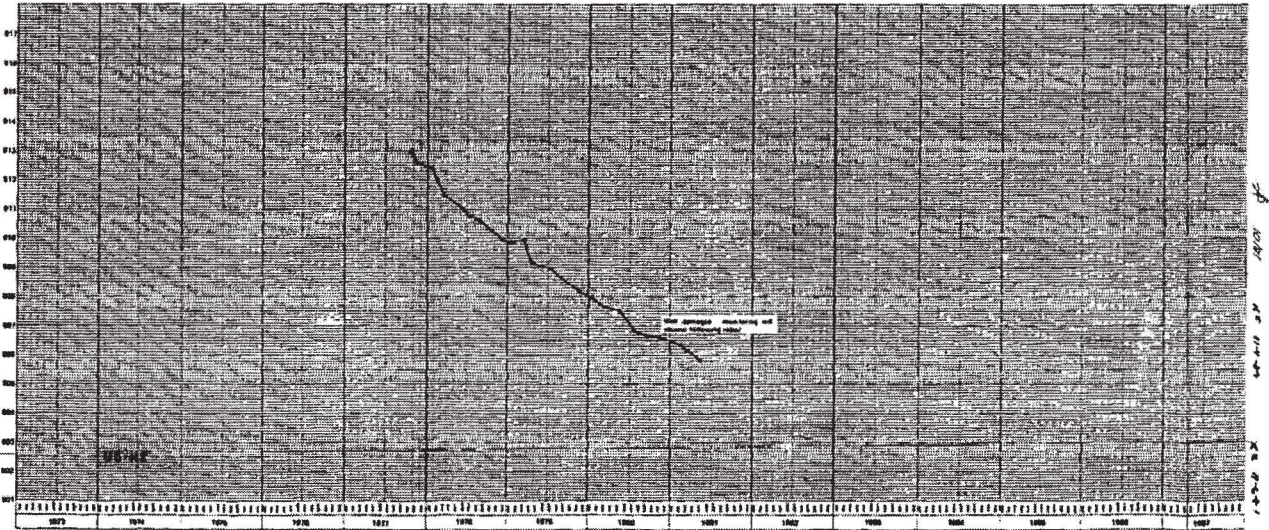
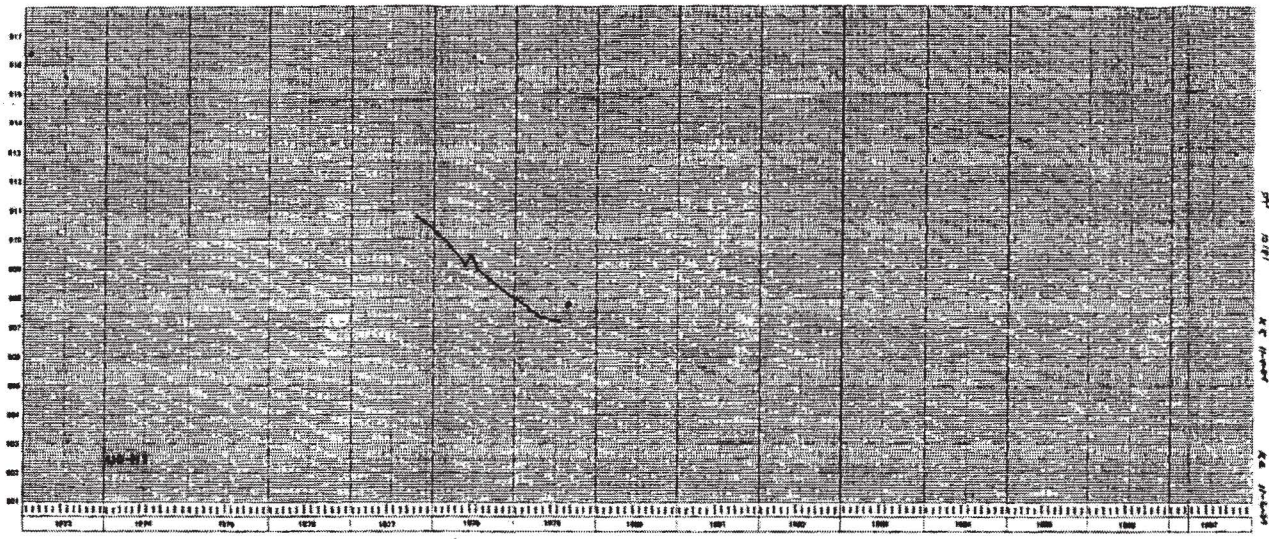
- ◆ MONITORING DISCONTINUED JULY 1979; WELL ON STANDBY.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)

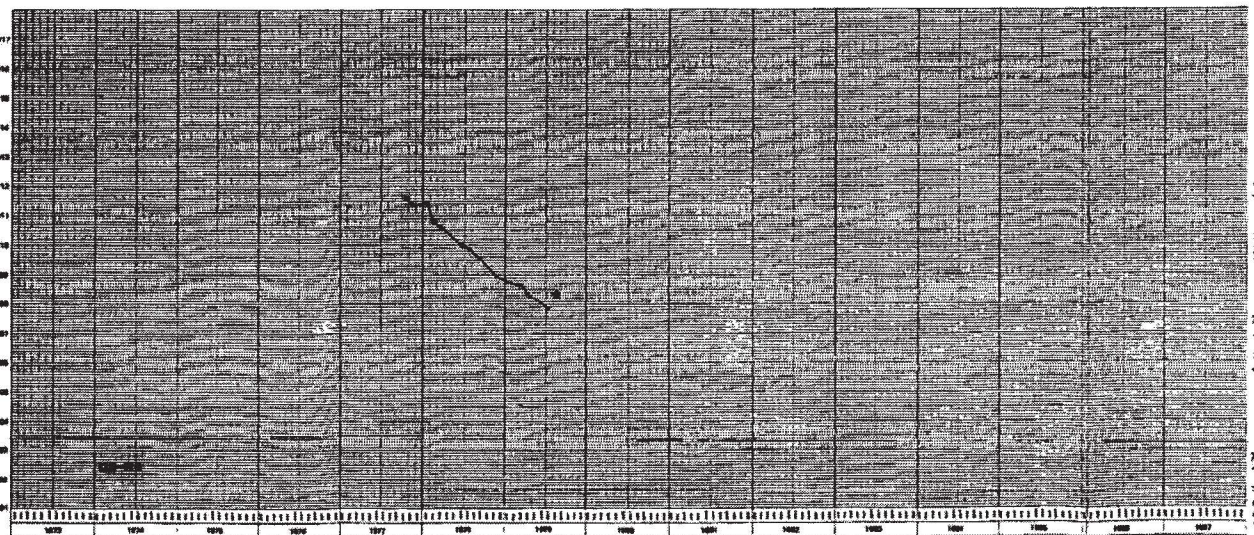
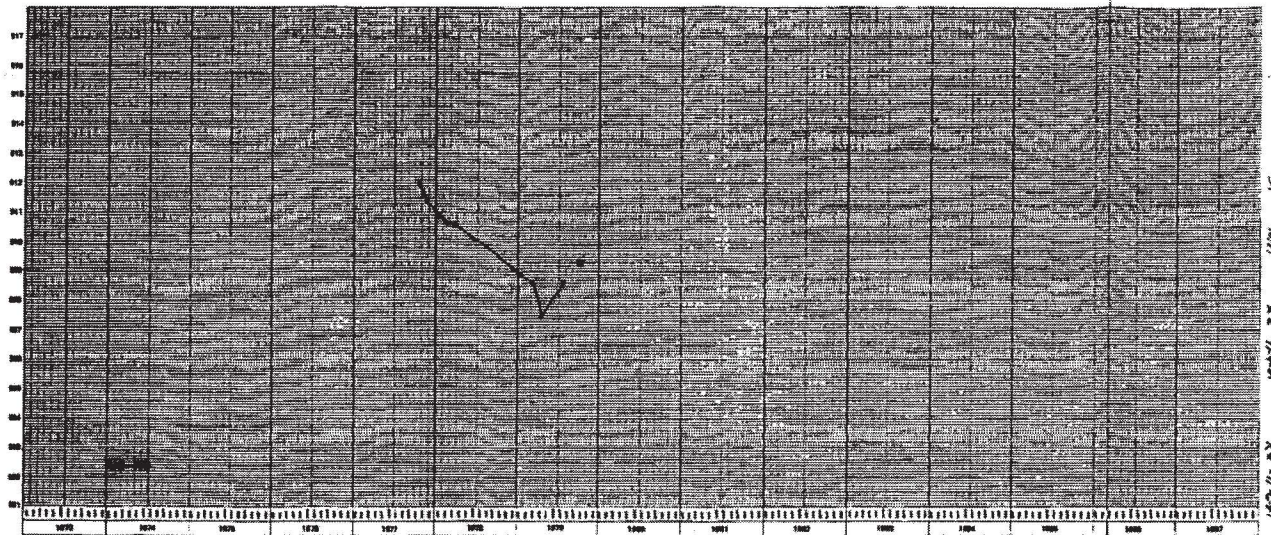
FIGURE 2.4-37 Sheet 4 of 4

JUNE 2001 REVISION 11



NOTES:  
 ♦ MONITORING DISCONTINUED JULY 1978; WELL ON STANDBY.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR  
 HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)  
 FIGURE 2.4-38 Sheet 1 of 6  
 JUNE 2001  
 REVISION 11



NOTES:

- ◆ MONITORING DISCONTINUED JULY 1979; WELL ON STANDBY.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

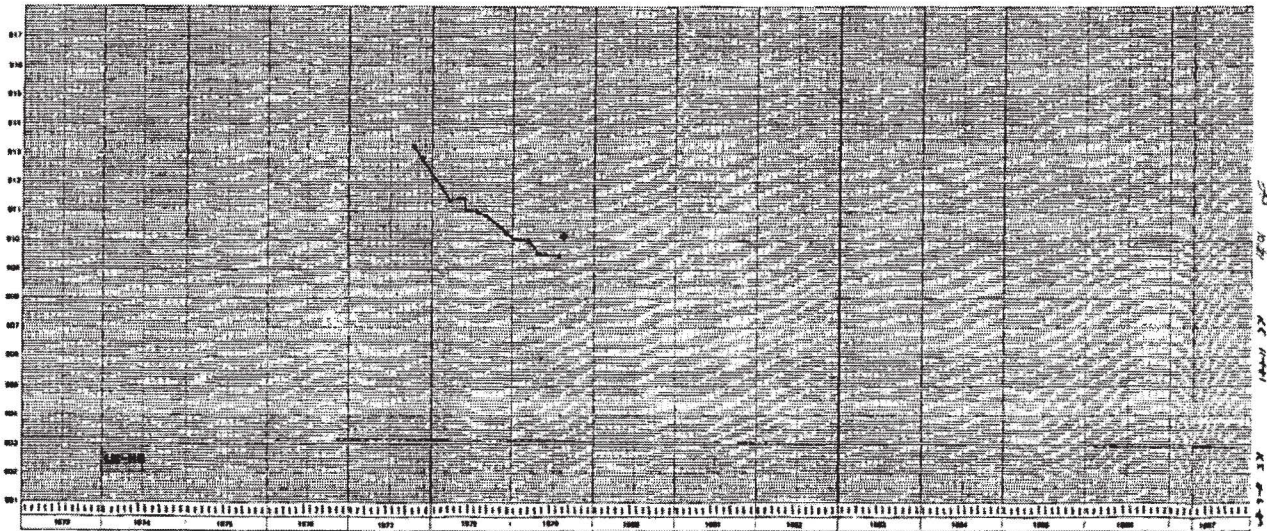
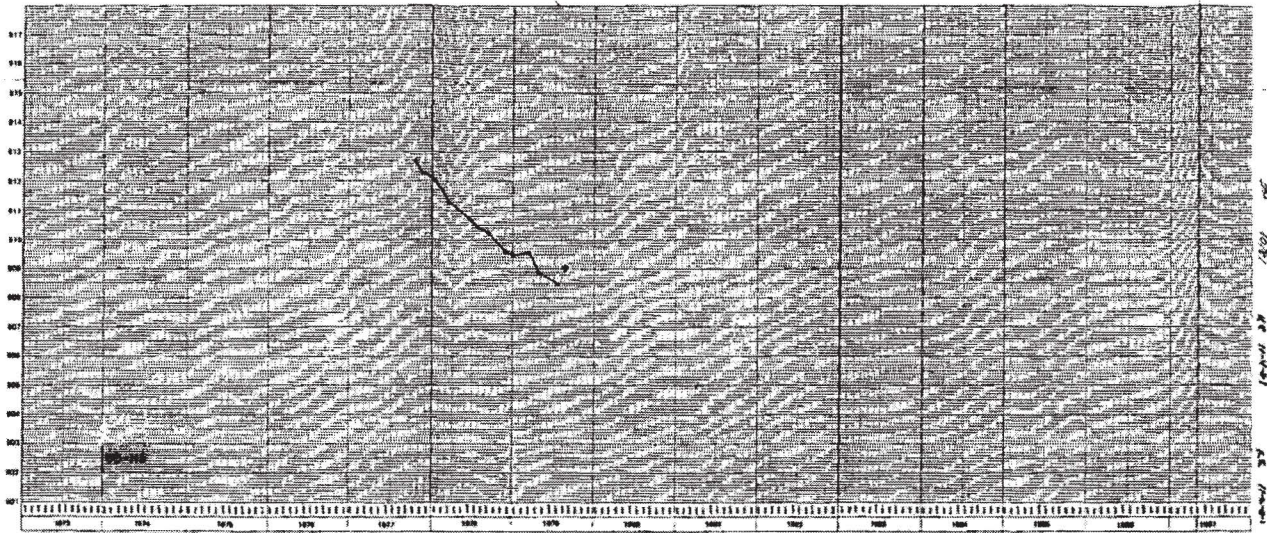
HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)

FIGURE 2.4-38 Sheet 2 of 6

JUNE 2001

REVISION 11





NOTES:

- ♦ MONITORING DISCONTINUED JULY 1979; WELL ON STANDBY.

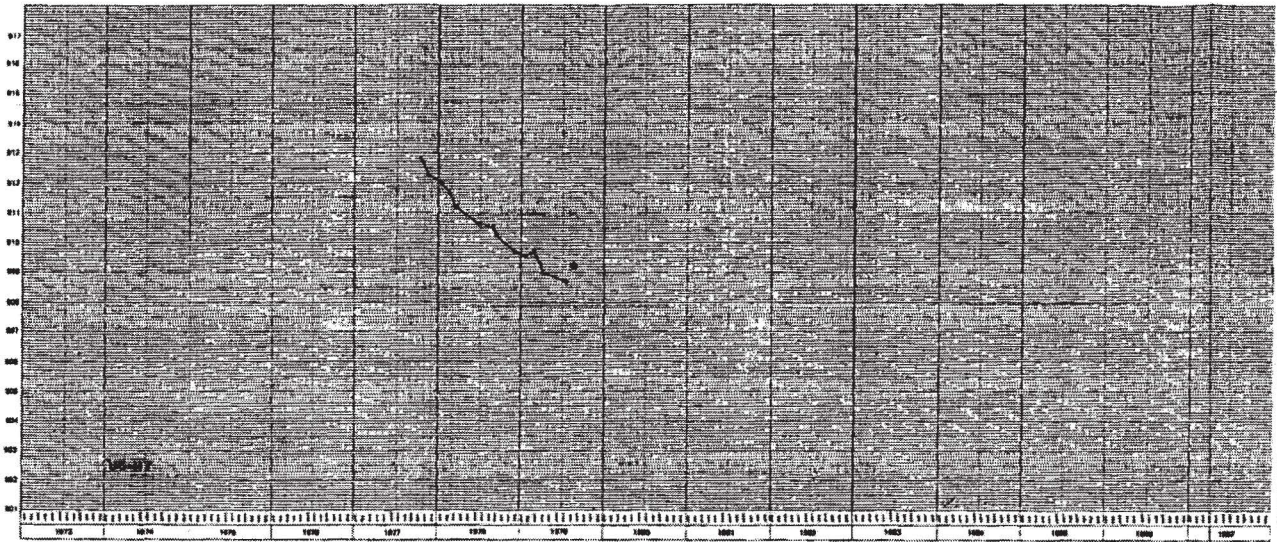
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)

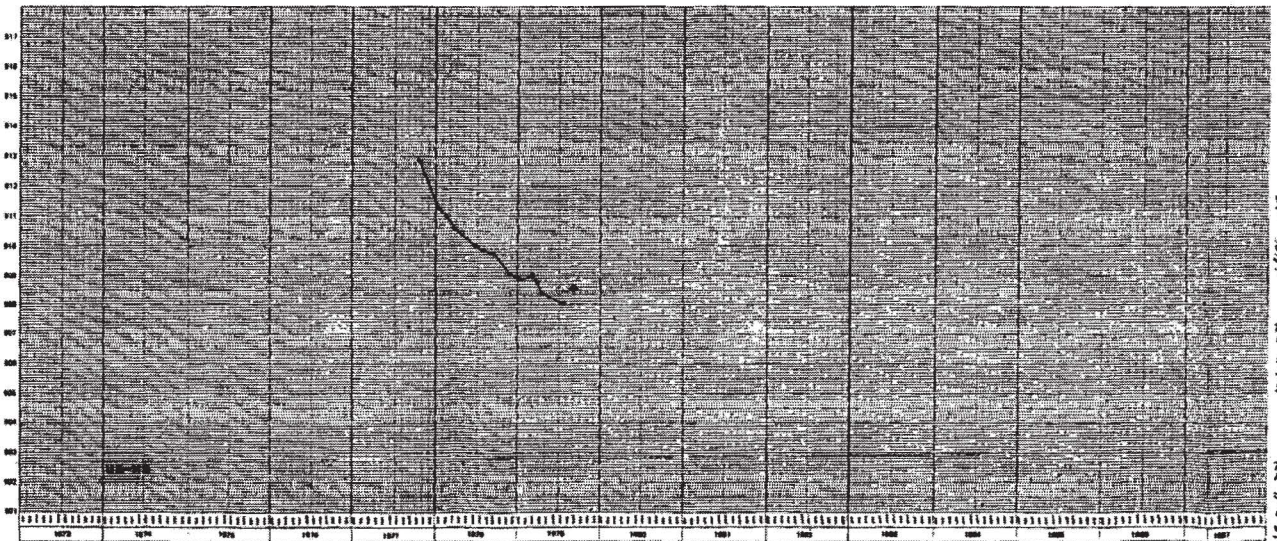
FIGURE 2.4-38 Sheet 3 of 6

JUNE 2001

REVISION 11



100-377  
 10/1/77  
 11/1/77  
 12/1/77



100-377  
 10/1/77  
 11/1/77  
 12/1/77

NOTES:

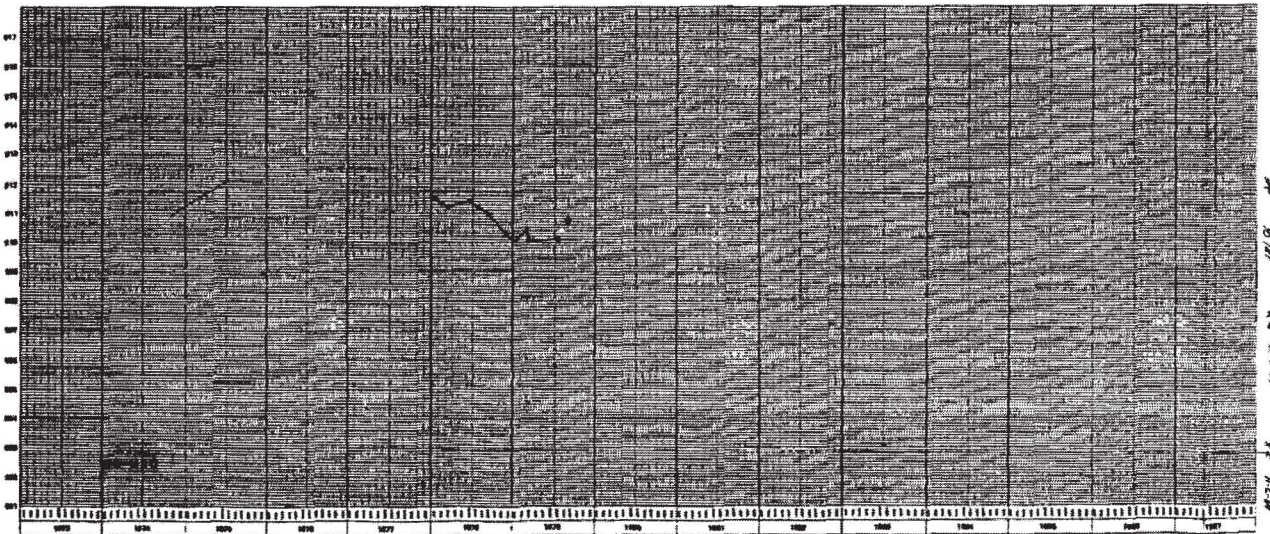
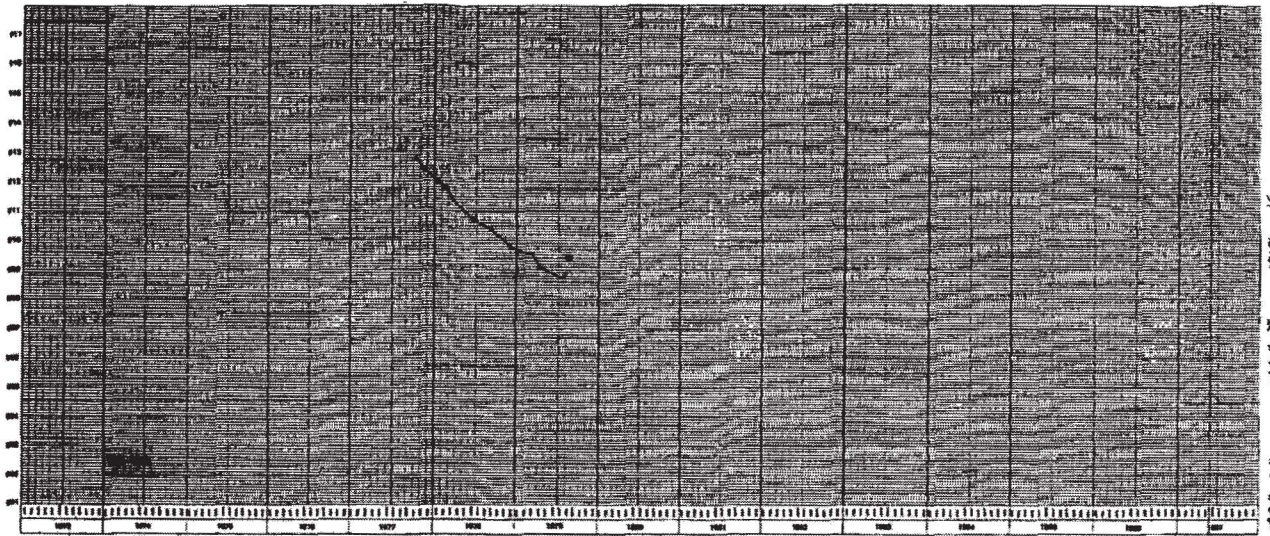
- ♦ MONITORING DISCONTINUED JULY 1978; WELL ON STANDBY.

PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)

FIGURE 2.4-38 Sheet 4 of 6

JUNE 2001 REVISION 11



NOTES:

- ◆ MONITORING DISCONTINUED JULY 1978; WELL ON STANDBY.

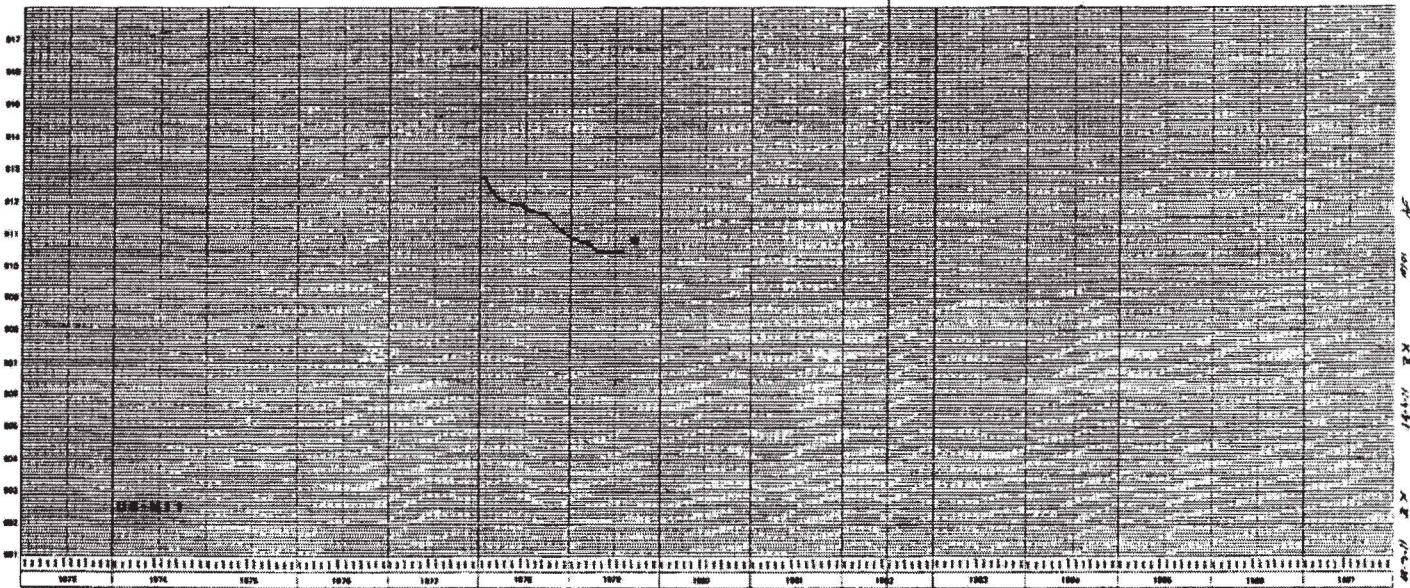
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
 IN THE PERCHED WATER ZONE  
 (GROUP D)

FIGURE 2.4-38 Sheet 5 of 6

JUNE 2001

REVISION 11



**NOTES:**

- ◆ MONITORING DISCONTINUED JULY 1979; WELL ON STANDBY.

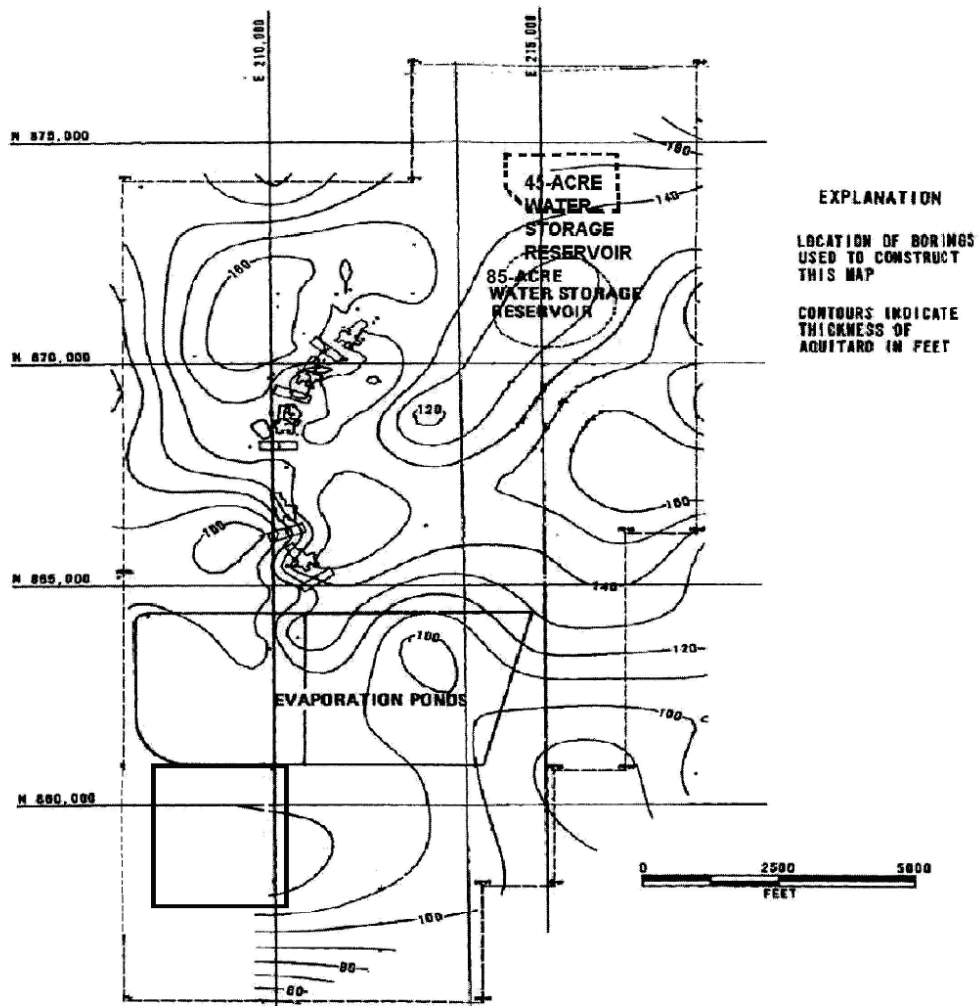
PALO VERDE NUCLEAR GENERATING STATION  
UPDATED FSAR

HYDROGRAPHS OF OBSERVATION WELLS  
IN THE PERCHED WATER ZONE  
(GROUP D)

FIGURE 2.4-38 Sheet 6 of 6

JUNE 2001

REVISION 11

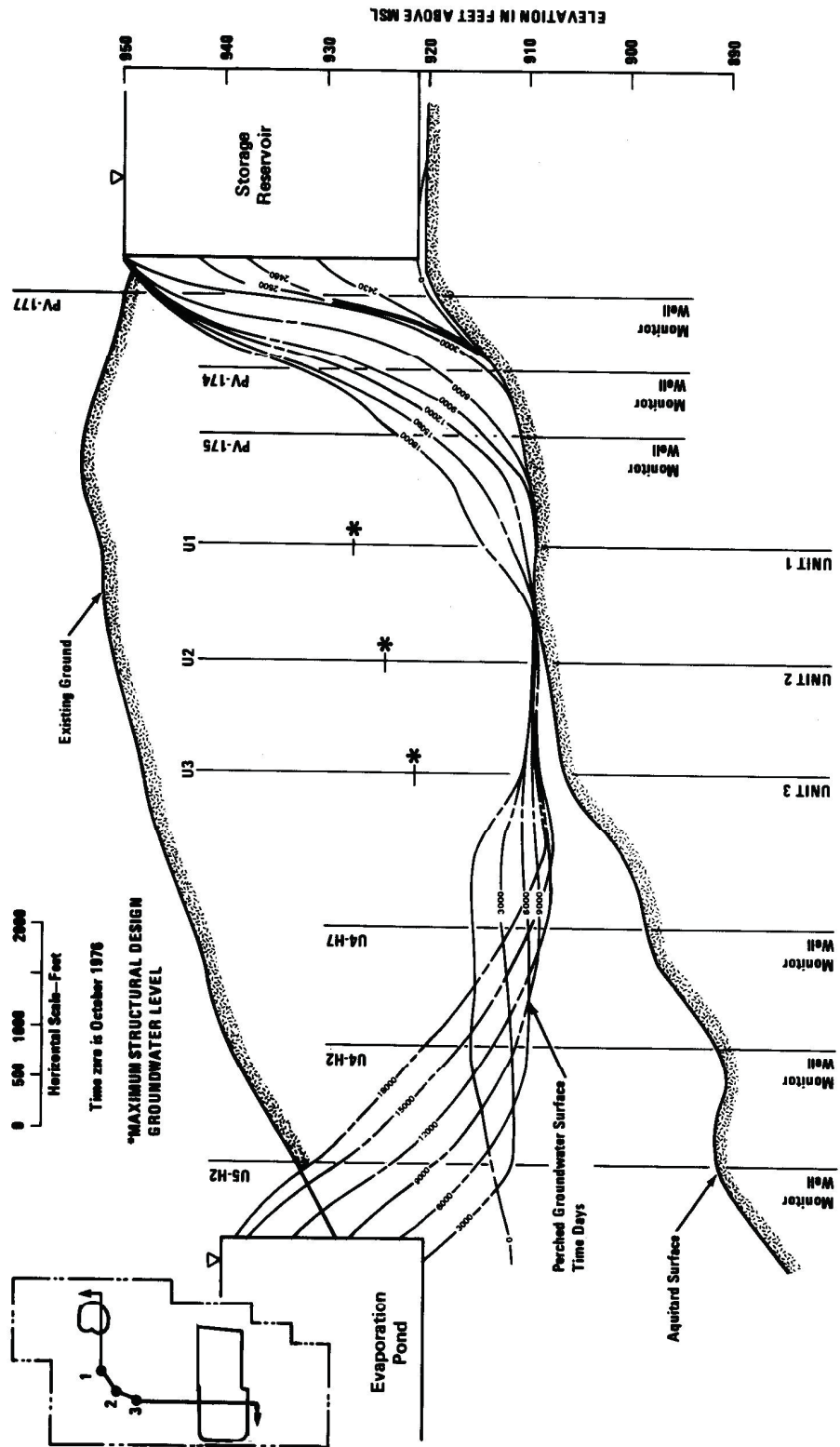


PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

AQUITARD THICKNESS COUNTOURS (ISOPACH)

FIGURE 2.4-39

JUNE 2011 REVISION 16



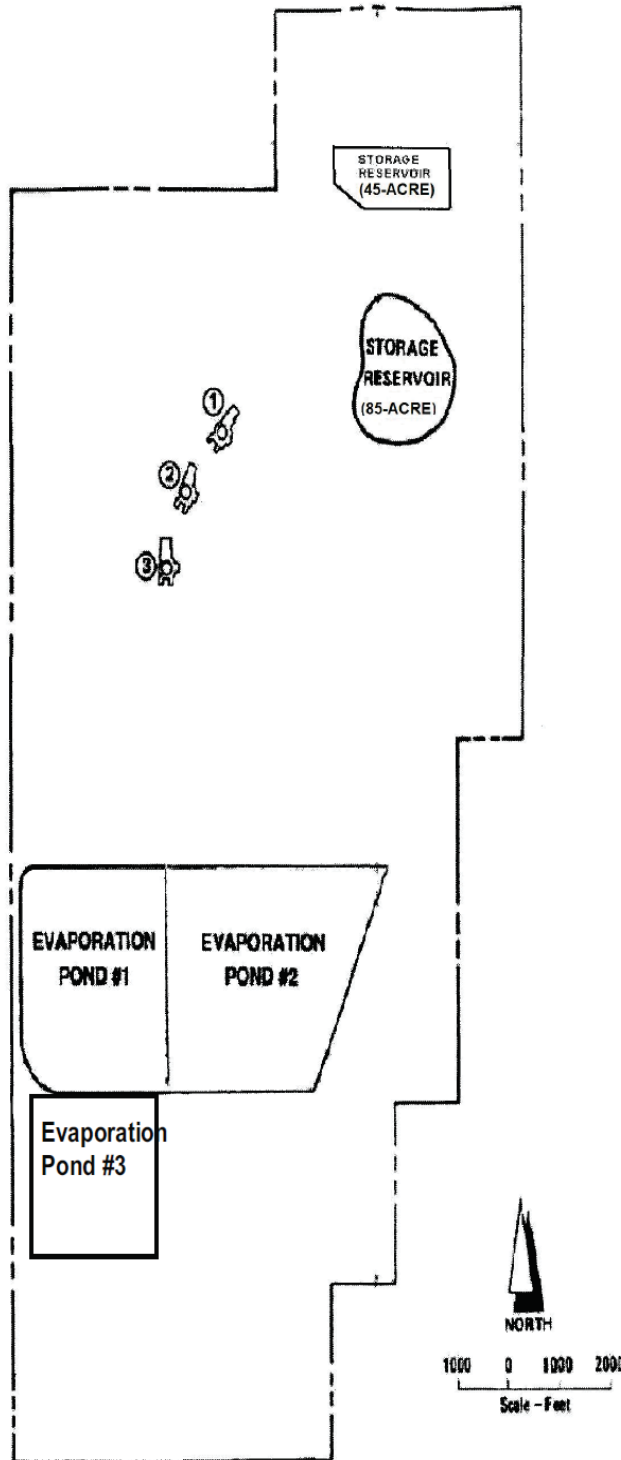
PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

PREDICTED CHANGES IN PERCHED  
 GROUNDWATER LEVELS

FIGURE 2.4-40

JUNE 2009

REVISION 15



PALO VERDE NUCLEAR GENERATING STATION  
 UPDATED FSAR

LOCATIONS OF STORAGE RESERVOIR AND  
 EVAPORATION PONDS

FIGURE 2.4-42