

A B C D E F G H J K L M N P R S T V W X Y																		
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							6	C C		AC	in the second							
CC CA CC CC22 CA20 CA04 CC21											1							
					DG	DD	DA	EA	EA	EA	DA	DD	DG		_		_	2
				DF	DG05 EA	DD 01 EB	DA06 ED	EAU 3	EA08 DF	EA10	DA0 3 ED	DD07 EB	DG31 EA	DF	ı İ			
				DF13	EA16	EB 02	ED03	ED1 7	DF08	ED20	ED34	EB04	EA17	DF04	+			3
			DF	EC	ED	DA	DC	DG	ED	DG	DC	DA	ED	EC	DF	-		4
		DG	EA EA	EC01 ED	ED36 CE	DA15 EE	DCII	DG2 2 ED	ED 02 DG	ED	DC10 DF	EE	CE CE	EC02	DF01 EA	DG		
		DG30	EA0 2	ED08	CE10	EE 03	DF05	ED2 9	DG19	ED30	DF1 8	EE06	CE27	ED 25	EA20	DG2 5		5
		DD	EB	DA	EE	DB	ED	DG	DG	DG	ED	DB	EE	DA	EB	DD		6
		DD03 DA	EB0 5	DA08 DC	DF	DB 01 ED	ED27 DE	DGI 6	DG18 DC	DGU1	ED16 DE	ED ED	DF	DA14 DC	EB06	DD08		
	cc	DA11	and the second	D C 0 9		ED 01		EE1 5	DC 07	and the second	DE0 3	at the	DF16		ED15	DA12	CC	- 7 - 8
	CC 04	EA	ED	DG	ED	DG	EE	DE	ED	DE	EE	DG	ED	DG	ED	EA	CC23	9
	CA CA10	EA04 EA	ED10 DF	DG14 ED	ED41 DG	DG23 DG	DC	DE0 6 ED	ED 39 AD	DE04 ED	EE04 DC	DG24 DG	ED32 DG	DG28 ED	ED48 DF	EA13 EA	CA CA16	10
0°	CA	EA14	DF1 4	and the second	DG09	DG29		ED2 8	AD 03	and the second		D G12		ED 09		EA11	CA	- 11
	CA06	EA	ED	DG	ED	DG	EE	DE	ED	DE	EE	DG	ED	DG	ED	EA	CA05	- 12 - 13
	CC	EA12	ED43		ED07	DG04		DE0 8	ED 18	DE07	EE1 2		ED37	DG10	ED23	EA07	CC	- 14
	CC 05	DA DA16	ED ED40	DC DC04	DF DF06	ED ED 42	DE DE02	EE EE0 9	DC DC 02	EE EE10	DE DE05	ED ED47	DF DF15	DC DC05	ED ED04	DA DA04	CC06	- 15
		DD	EB	DA	EE	DB	ED	DG	DG	DG	ED	DB	EE	DA	EB	DD		16
		DD04	EB0 7	DA05	EE05	DB 03	ED46	DG0 7	DG17	DG21	ED05	D B04	EE07	DA07	EB01	DD02		
		DG DG13	EA EAO 9	ED ED13	CE CE28	EE EE 01	DF	ED ED0.6	DG DG20	ED ED14	DF DF10	EE EE13	CE CE26	ED 22	EA EA01	DG DG0 2		17
		2013	DF	EC	ED	DA	DC	DG	ED	DG	DC	DA	ED	EC	DF	2002		
			DF0 2	EC03	21	DA 09					DC0 3	8 8		EC 04	DF20			18
				DF DF07	EA EA15	EB EB 08	ED ED26	ED ED44	DF DF19	ED ED24	ED ED12	EB EB03	EA EA06	DF DF12	_			19
				5107	DG	DD	DA	EA	EA	EA	DA	DD	DG	51 12				
					DG06	DD 06	DA13	EA0 5	EA19	EA18	DA01	D D 05		_				20
								a second a second			C		X					21
	CC 20 CA07 CA0 9 CC02																	
Not	e: 0° ind	licates	plant i	north.					27 0°									
																Revis	ion 30	9 (06/16)
	Waterford SteamWATERFORD-3 CYCLE 21Electric Station #3FUEL MANAGEMENT SCHEME											Figure 4.3A-2						

WSES-FSAR-UNIT-3

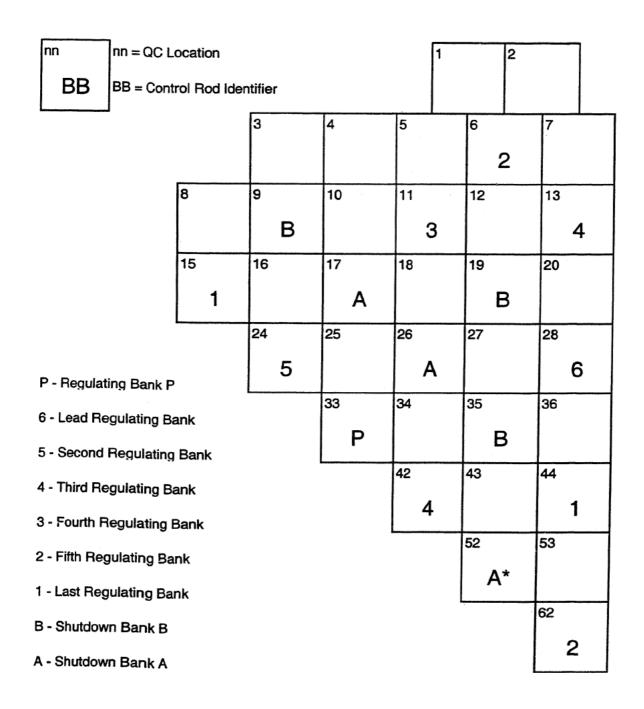
→(EC-9533, R302)

Figure 4.3A-3 has been intentionally deleted.

←(EC-9533, R302)

	1									
	AD	ED	DC	DG	DG	ED	DF	EA		
_	31757	0	21 83 5	23985	23967	0	24800	0	CA	
	ED	DE	EE	DG	ED	DG	ED	EA	40618	
	0	24023	0	23819	0	23956	0	0	CC	
	DC	EE	DE	ED	DF	DC	ED	DA	42615	
	21835	0	24135	0	23713	22609	O	20788		
	DG	DG	ED	DB	EE	DA	EB	DD		
	23985	23815	0	21090	0	19917	0	23724		
	DG	ED	DF	EE	CE	ED	EA	DG		
	23967	O	23720	0	31999	0	O	24333		
	ED	DG	DC	DA	ED	EC	DF			
	0	2 38 82	22 57 8	19929	0	0	24264			
	DF	ED	ED	EB	EA	DF				
	24800	0	0	0	0	24199				
	EA	EA	DA	DD	DG					
	0	0	21 21 3	23790	24278					
	C.	A C	с			1.	AND SECOND	GION		
	405	32 425	98			A	B AS	SEMBLY	BURNUI	2
									vision 309 (06/16)
	Waterford S Electric Stat		FRO	M SHORT I	CYCLE 21 ENDPOINT SEMBLY A	OF PREVI	OUS CYCL		Figure 4.3A-3a	

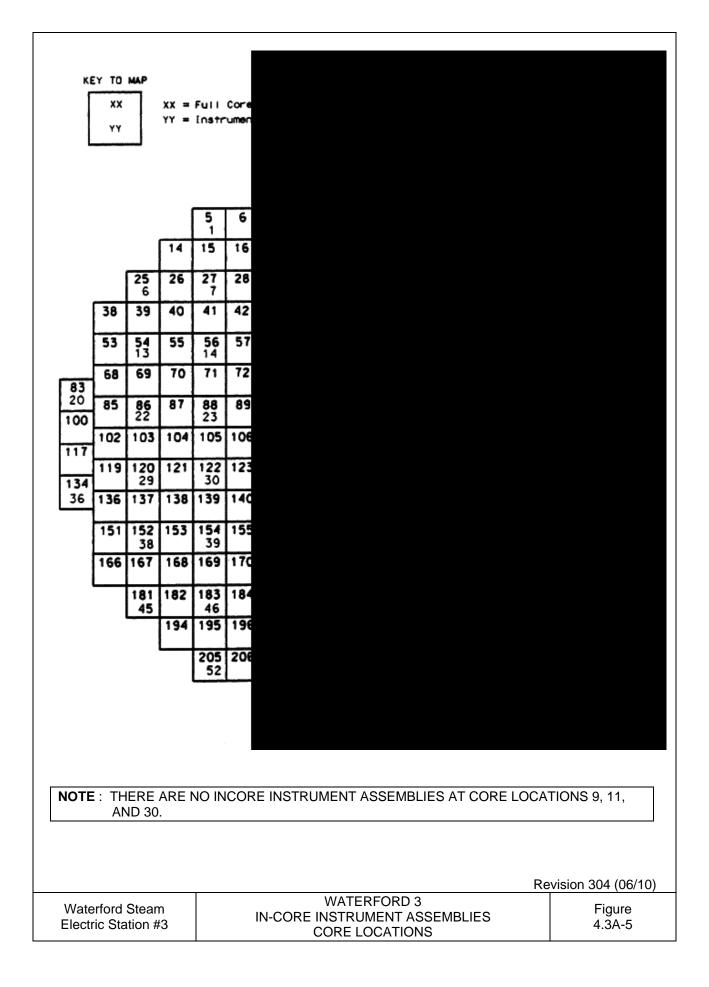
	I									
	AD	ED	DC	DG	DG	ED	DF	EA		
_	51313	25512	46117	45027	45689	25127	47549	23092	CA	
	ED	DE	EE	DG	ED	DG	ED	EA	49832	
	25512	46849	25048	45815	24548	46566	25629	22141	CC	
	DC	EE	DE	ED	DF	DC	ED	DA	49568	
	46117	25046	46968	25746	46503	47013	24877	38291		
	DG	DG	ED	DB	EE	DA	EB	DD		
	45027	45811	25746	46743	25946	45287	24685	38173		
	DG	ED	DF	EE	CE	ED	EA	DG		
	45689	24553	46511	25951	52730	25515	21598	34233		
	ED	DG	DC	DA	ED	EC	DF			
	25127	46509	46989	45296	25519	21758	36205	8		
	DF	ED	ED	EB	EA	DF				
	47549	25619	24852	24668	21597	36147	9			
	EA	EA	DA	DD	DG					
	23092	22114	38634	38204	34178					
	C.	A C	С			1.	1752935-	GION		
	49752 49540 AB ASSEMBLY BURNUP									
			I						evision 309 (06/16)
	Waterford Electric St			ATERFORD ONG ENDP ASSI		REVIOUS C	YCLE (EOC		Figure 4.3A-3b	

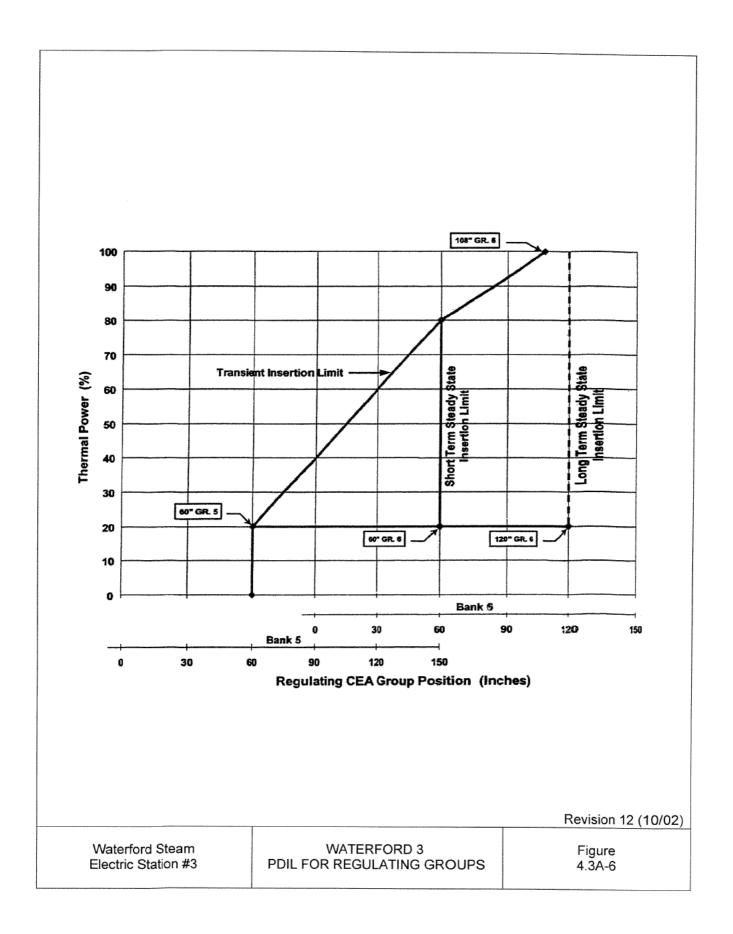


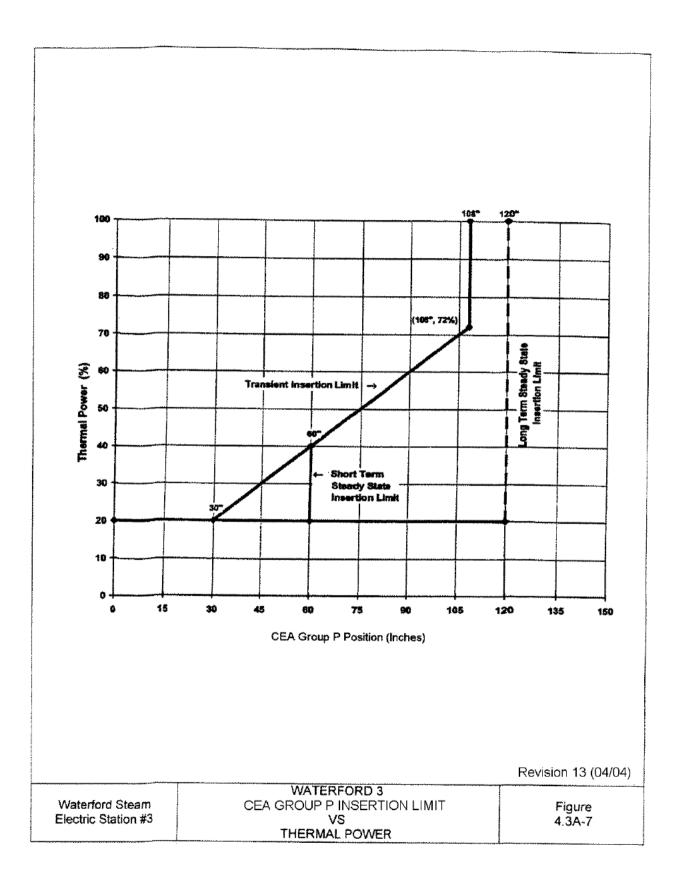
* Shutdown rod in position 52 is available for only two diagonally opposite core quadrants.

Revision 12 (10/02)

Waterford Steam	Waterford 3	Figure
Electric Station #3	CEA Bank Identification	4.3A-4





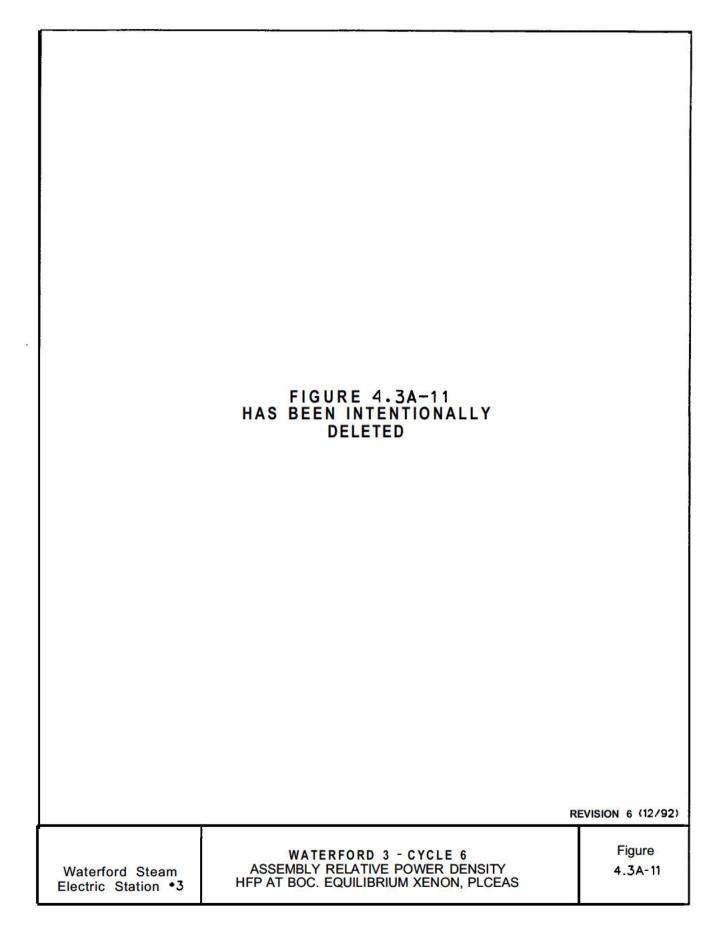


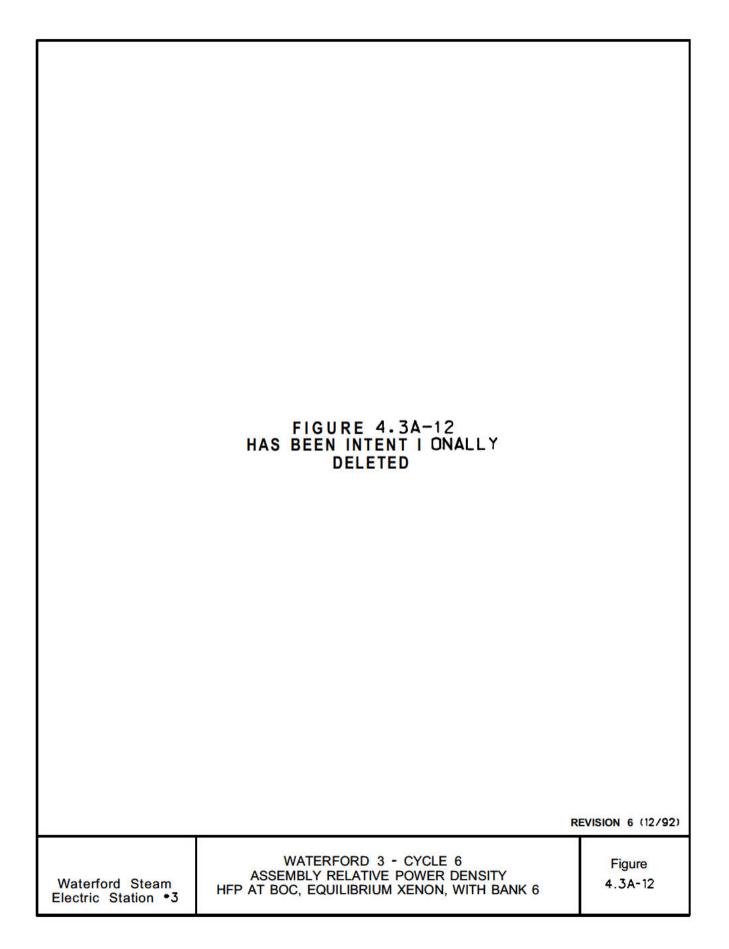
	Ι									
	AD	ED	DC	DG	DG	ED	DF	EA		
_	0.97	1.16	1.28	1.20	1.17	1.19	1.10	1.13	CA	
	ED	DE	EE	DG	ED	DG	ED	EA	0.39	
	1.16	1.11	1.18	1.17	1.23	1.15	1.13	1.05	cc	
	DC	EE	DE	ED	DF	DC	ED	DA	0.27	
	1.28	1.18	1.13	1.23	1.19	1.30	1.08	0.80		
	DG	DG	ED	DB	EE	DA	EB	DD		
	1.20	1.17	1.23	1.29	1.18	1.27	1.06	0.60		
	DG	ED	DF	EE	CE	ED	EA	DG		
	1.17	1.23	1.19	1.18	0.97	1.07	0.95	0.38		
	ED	DG	DC	DA	ED	EC	DF			
	1.19	1.15	1.30	1.27	1.07	0.96	0.48			
	DF	ED	ED	EB	EA	DF				
	1.10	1.13	1.07	1.06	0.95	0.48				
	EA	EA	DA	DD	DG					
	1.13	1.05	0.79	0.60	0.38					
	C.	A C	с			1	A RE	GION		
	Ο.	39 0.	27			A	P AS	SEMBLY	POWER	
	Maximum 1-Pin Peak (Fxy) = 1.426 in Full Core (FC) Assembly Number 189									
	Revision 309 (06/16) WATERFORD-3 CYCLE 21 Waterford Steam ASSEMBLY RELATIVE POWER DENSITY									
		Station #3			HOT FULL F		P), EQUILIE		Figu 4.3A	

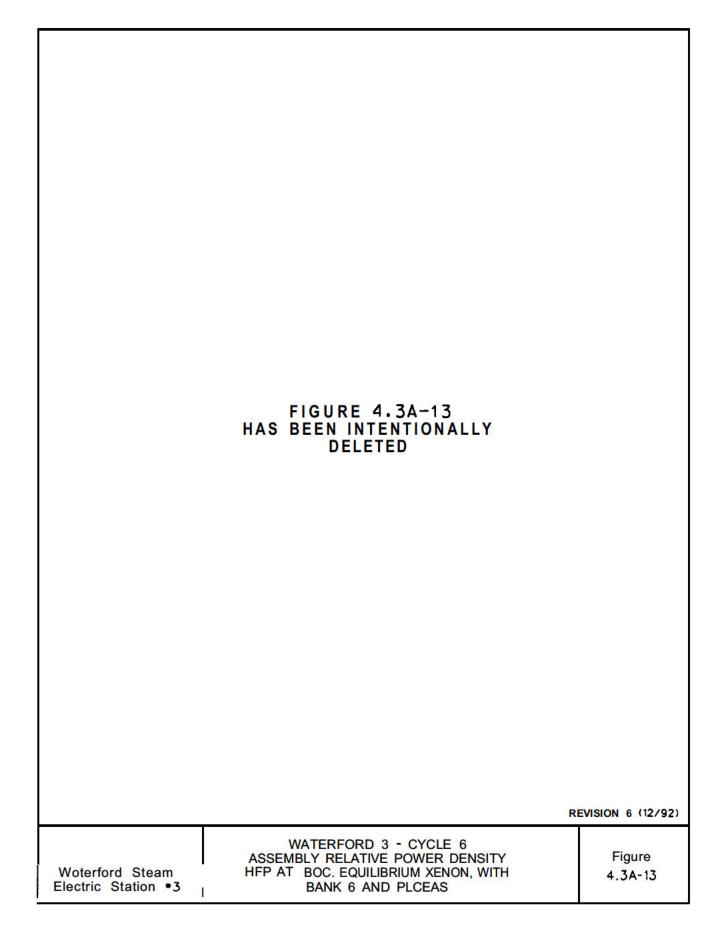
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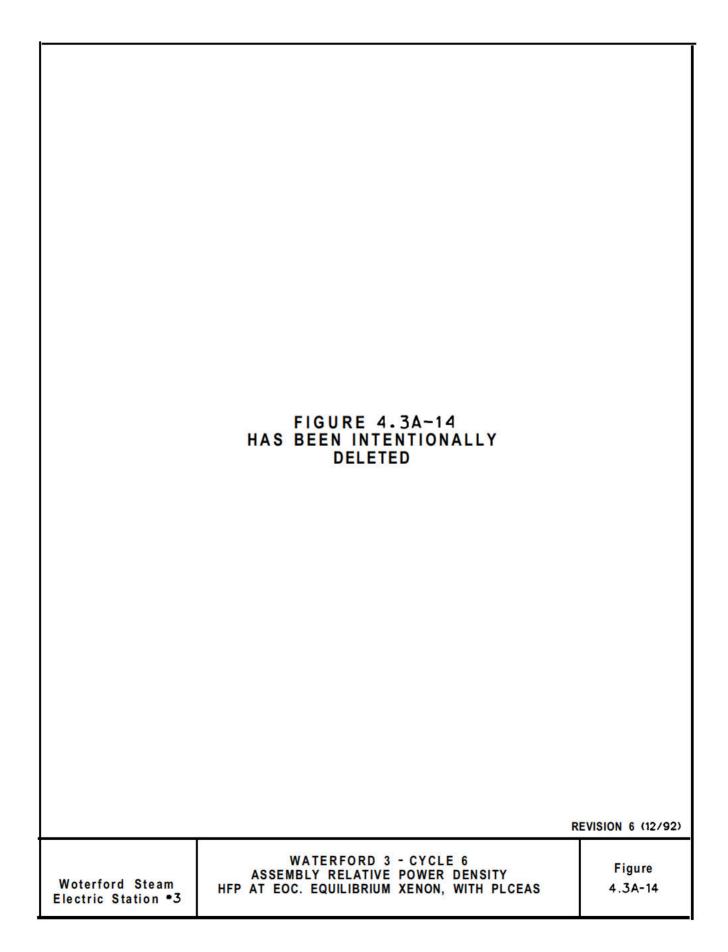
	Ĩ									
	AD	ED	DC	DG	DG	ED	DF	BA	1	
_	0.96	1.28	1.08	0.90	0.95	1.26	1.02	1.15	CA	
	ED	DE	KE	DG	ED	DG	ED	EA	0.36	
	1.28	1.02	1.25	0.96	1.21	1.00	1.30	1.11	CC	
	DC	EE	DE	ED	DF	DC	ED	DA	0.25	
	1.08	1.25	1.02	1.29	1.01	1.09	1.27	0.77		
	DG	DG	RD	DB	EE	DA	EB	DD]	
	0.90	0.96	1.29	1.18	1.32	1.18	1.26	0.61		
	DG	ED	DF	EE	CE	ED	EA	DG]	
	0.95	1.21	1.01	1.32	0.99	1.31	1.10	0.39		
	ED	DG	DC	DA	ED	BC	DF			
	1.26	1.00	1.09	1.18	1.31	1.11	0.49			
2.5	DF	ED	ED	EB	EA	DF				
	1.02	1.30	1.27	1.26	1.10	0.49	c			
	EA	EA	DA	DD	DG					
	1.15	1.10	0.77	0.60	0.39					
		A C 36 0.				1. A		GION SEMBLY	POWER	
	Maximum 1-Pin Peak (Fxy) = 1.455 in FC Assembly Number 164									
				WAT	ERFORD-3	CYCLE 2	1	F	Revision 309	(06/16)
	aterford Ste ctric Statio		MIDD	SSEMBLY	RELATIVE CLE FROM CLE (MOCL XENON,	POWER D LONG EN .), HFP, EG	ENSITY		Figure 4.3A-9	

	I										
5	AD	ED	DC	DG	DG	ED	DF	EA]		
	0.97	1.26	1.07	0.92	0.96	1.25	1.01	1.17	CA	ina di	
	ED	DE	EE	DG	ED	DG	ED	EA	0.42		
	1.26	1.02	1.25	0.97	1.22	0.99	1.28	1.14	СС		
	DC	EE	DE	ED	DF	DC	ED	DA	0.30		
	1.07	1.25	1.01	1.25	0.99	1.06	1.26	0.81			
	DG	DG	ED	DB	EE	DA	EB	DD	1		
8	0.92	0.97	1.25	1.12	1.26	1.12	1.26	0.66			
	DG	ED	DF	EE	CE	ED	EA	DG]		
	0.96	1.22	0.99	1.26	0.97	1.27	1.11	0.43			
	ED	DG	DC	DA	ED	EC	DF				
	1.25	0.99	1.06	1.12	1.27	1.10	0.53				
	DF	ED	ED	EB	EA	DF					
	1.01	1.28	1.26	1.26	1.11	0.53					
	EA	EA	DA	DD	DG						
	1.17	1.13	0.81	0.65	0.43						
	С	A C	С			1	A RE	GION			
	0.	42 0.	30			A	P AS	SEMBLY	POWER		
		Maximu	m 1-Pin F	eak (Fxv)	= 1.381 ir	n FC Asse	mblv Num	ber 202			
	Maximum 1-Pin Peak (Fxy) = 1.381 in FC Assembly Number 202										
									Devision 000		
	Waterfor	d Steam Station #3		ASSEM	BLY RELAT	RD-3 CYCL FIVE POWE	R DENSIT	Y	Revision 309 Figure 4.3A-1	9	
				EOCL,	HFP, EQUII	LIBRIUM XE	ENON, ARC		4.3A-1	U	









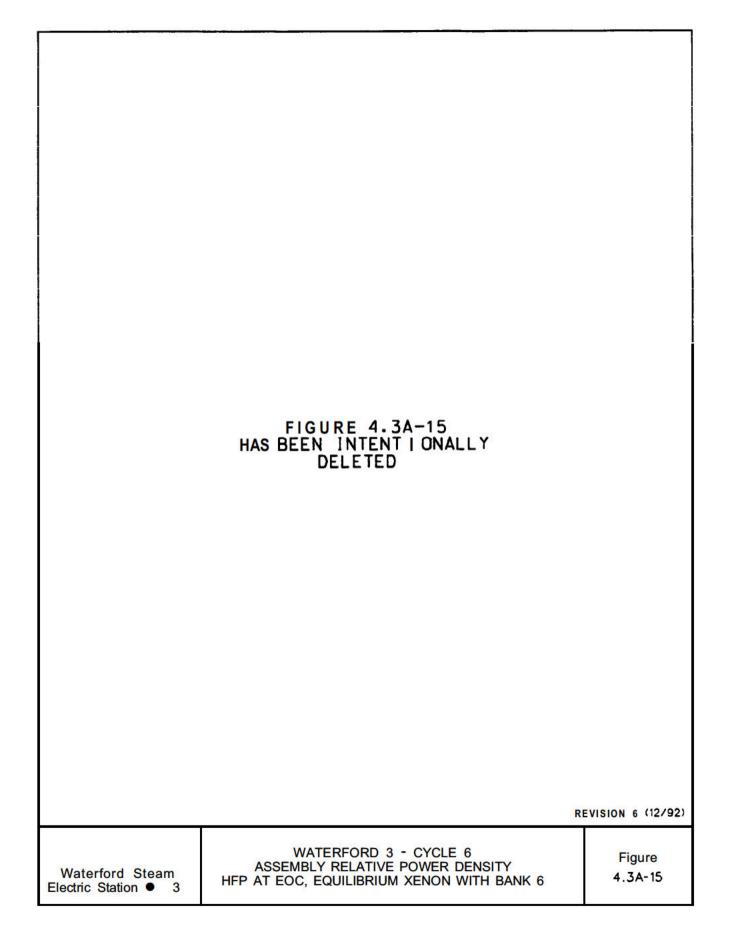


	FIGURE 4.3A-16 HAS BEEN INTENTIONALLY DELETED	R	EVISION 6 (12/92)
Waterford Steam Electric Station ● 3	WATERFORD 3 - CYCLE 6 ASSEMBLY RELATIVE POWER DENSITY HFP AT EOC,EQUILIBRIUM XENON, WITH BANK 6 AND PLCEAS		Figure 4.3A-16

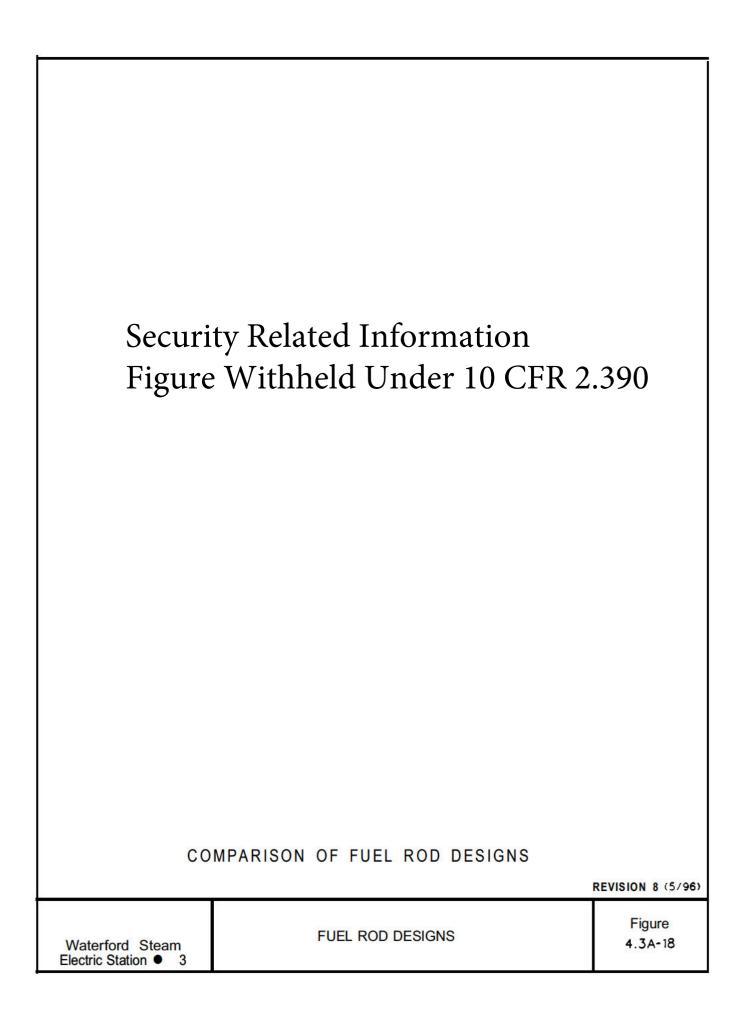
Security Related Information Figure Withheld Under 10 CFR 2.390

REVISION 6 (12/92)

Waterford Steam Electric Station •3 FUEL ROD AND LOWER END FITTING CHANGES

Figure 4.3A-17

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Security Related Information Figure Withheld Under 10 CFR 2.390

Revision 12 (10/02)

Waterford Steam Electric Station #3

Comparison of Urania Rod Assembly Features

Figure 4.3A-18a

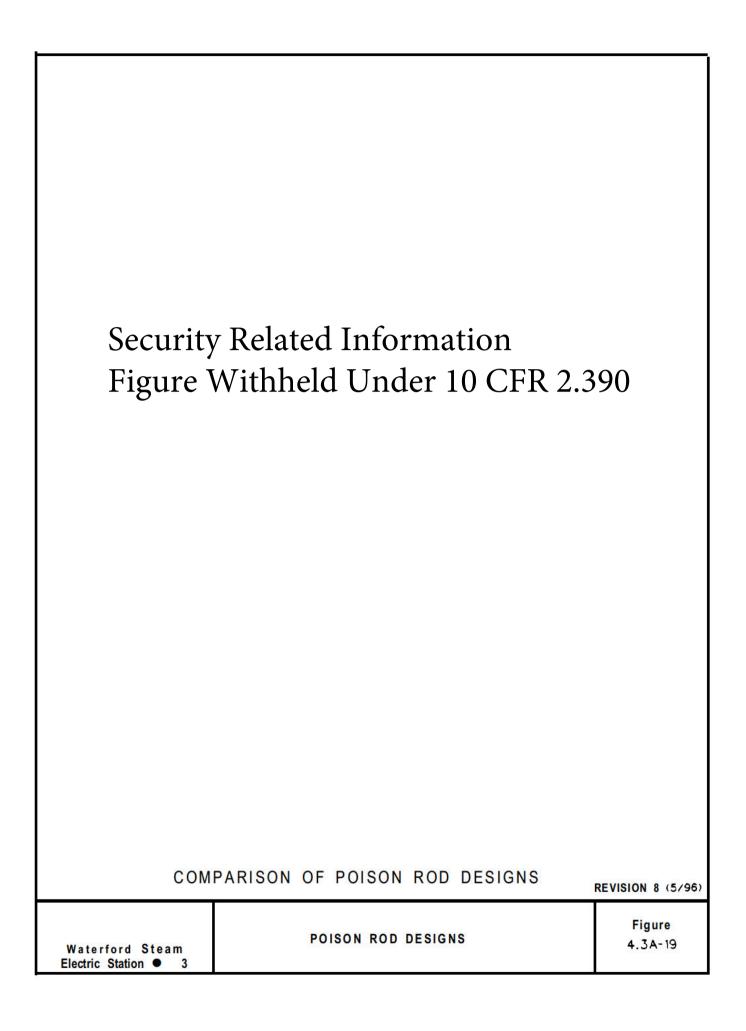
Security Related Information Figure Withheld Under 10 CFR 2.390

Revision 302 (12/08)

Waterford Steam Electric Station #3

Comparison of Urania Rod Assembly Features

Figure 4.3A-18b



Security Related Information Figure Withheld Under 10 CFR 2.390

Revision 304 (06/10)

Waterford Steam Electric Station #3

Comparison of Burnable Absorber Rods Figure 4.3A-19b