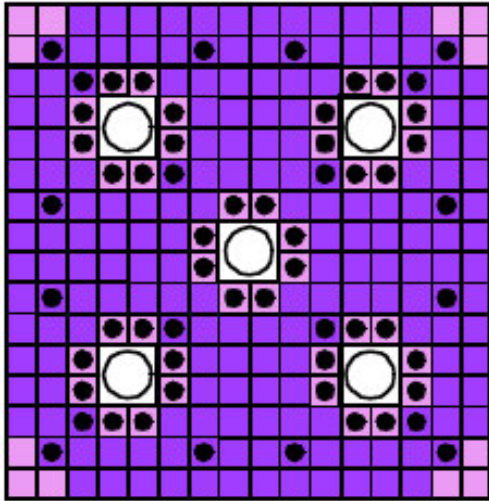
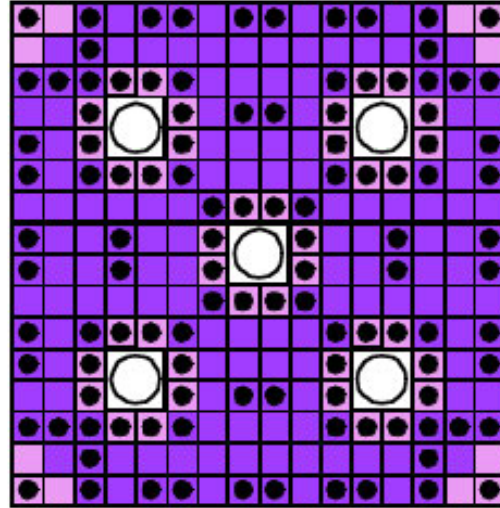


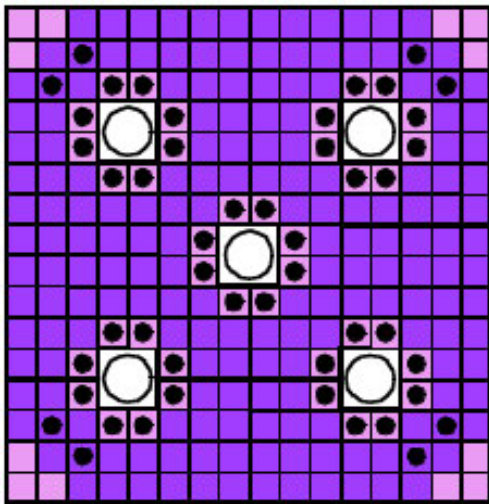
Region EA
PAT1633IFB 60 ZrB₂ Rods



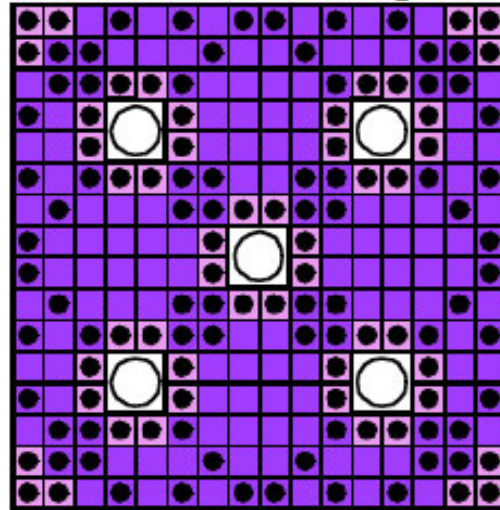
Region EB and ED
PAT1649IFB 112 ZrB₂ Rods



Region EC
PAT1632IFB 48 ZrB₂ Rods



Region EE
PAT1636IFB 124 ZrB₂ Rods



Low Enriched Fuel Rod with ZrB₂



Low Enriched Fuel Rod



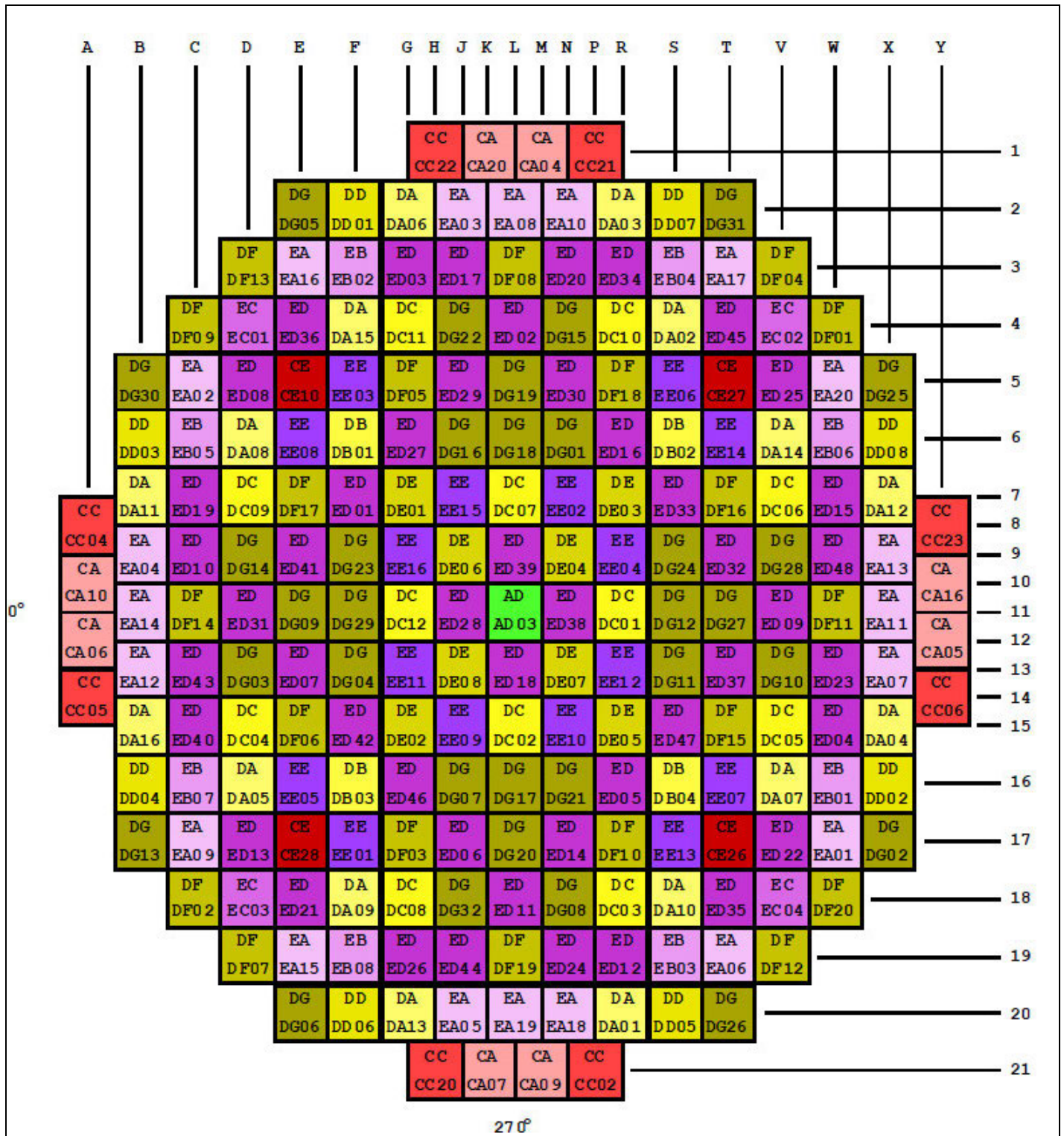
High Enriched Fuel Rod with ZrB₂



High Enriched Fuel Rod



Revision 309 (06/16)



Note: 0° indicates plant north.

Revision 309 (06/16)

Waterford Steam Electric Station #3	WATERFORD-3 CYCLE 21 FUEL MANAGEMENT SCHEME	Figure 4.3A-2
-------------------------------------	--	---------------

→(EC-9533, R302)

Figure 4.3A-3 has been intentionally deleted.

←(EC-9533, R302)

AD 31757	ED 0	DC 21835	DG 23985	DG 23967	ED 0	DF 24800	EA 0	CA 40618
ED 0	DE 24023	EE 0	DG 23819	ED 0	DG 23956	ED 0	EA 0	CC 42615
DC 21835	EE 0	DE 24135	ED 0	DF 23713	DC 22609	ED 0	DA 20788	
DG 23985	DG 23815	ED 0	DB 21090	EE 0	DA 19917	EB 0	DD 23724	
DG 23967	ED 0	DF 23720	EE 0	CE 31999	ED 0	EA 0	DG 24333	
ED 0	DG 23882	DC 22578	DA 19929	ED 0	EC 0	DF 24264		
DF 24800	ED 0	ED 0	EB 0	EA 0	DF 24199			
EA 0	EA 0	DA 21213	DD 23790	DG 24278				

CA 40532	CC 42598
-------------	-------------

1A	REGION
AB	ASSEMBLY BURNUP

Revision 309 (06/16)

Waterford Steam Electric Station #3	WATERFORD-3 CYCLE 21 BEGINNING OF CYCLE FROM SHORT ENDPOINT OF PREVIOUS CYCLE (BOCS) ASSEMBLY AVERAGE BURNUP	Figure 4.3A-3a
-------------------------------------	--	----------------

AD 51313	ED 25512	DC 46117	DG 45027	DG 45689	ED 25127	DF 47549	EA 23092
ED 25512	DE 46849	EE 25048	DG 45815	ED 24548	DG 46566	ED 25629	EA 22141
DC 46117	EE 25046	DE 46968	ED 25746	DF 46503	DC 47013	ED 24877	DA 38291
DG 45027	DG 45811	ED 25746	DB 46743	EE 25946	DA 45287	EB 24685	DD 38173
DG 45689	ED 24553	DF 46511	EE 25951	CE 52730	ED 25515	EA 21598	DG 34233
ED 25127	DG 46509	DC 46989	DA 45296	ED 25519	EC 21758	DF 36205	
DF 47549	ED 25619	ED 24852	EB 24668	EA 21597	DF 36147		
EA 23092	EA 22114	DA 38634	DD 38204	DG 34178			

CA 49832
CC 49568

CA 49752	CC 49540
-------------	-------------

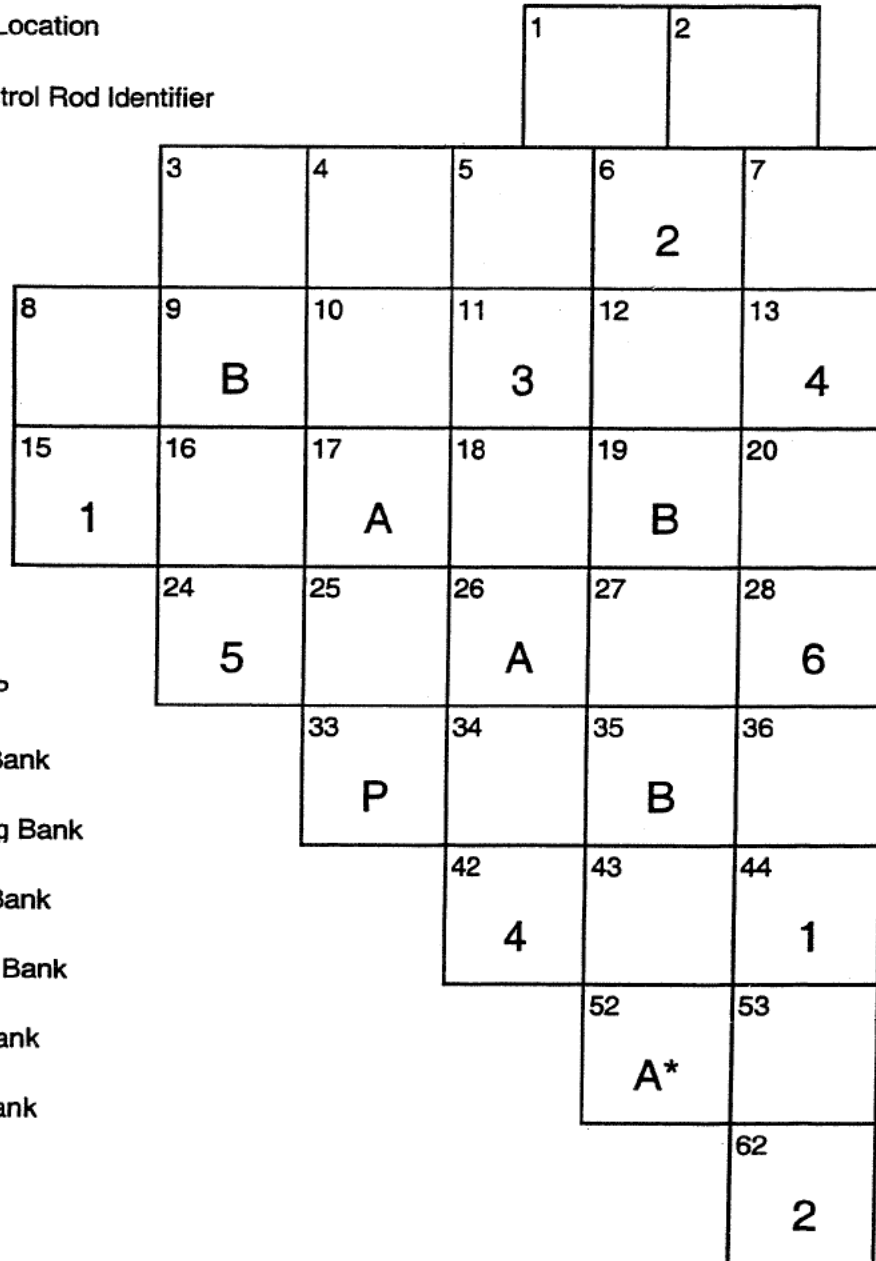
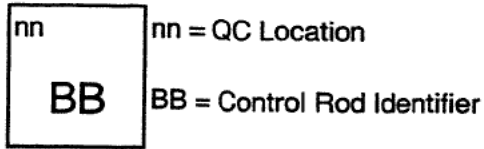
1A	REGION
AB	ASSEMBLY BURNUP

Revision 309 (06/16)

Waterford Steam
Electric Station #3

WATERFORD-3 CYCLE 21 END OF CYCLE FROM
LONG ENDPOINT OF PREVIOUS CYCLE (EOCL)
ASSEMBLY AVERAGE BURNUP

Figure
4.3A-3b



- P - Regulating Bank P
- 6 - Lead Regulating Bank
- 5 - Second Regulating Bank
- 4 - Third Regulating Bank
- 3 - Fourth Regulating Bank
- 2 - Fifth Regulating Bank
- 1 - Last Regulating Bank
- B - Shutdown Bank B
- A - Shutdown Bank A

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

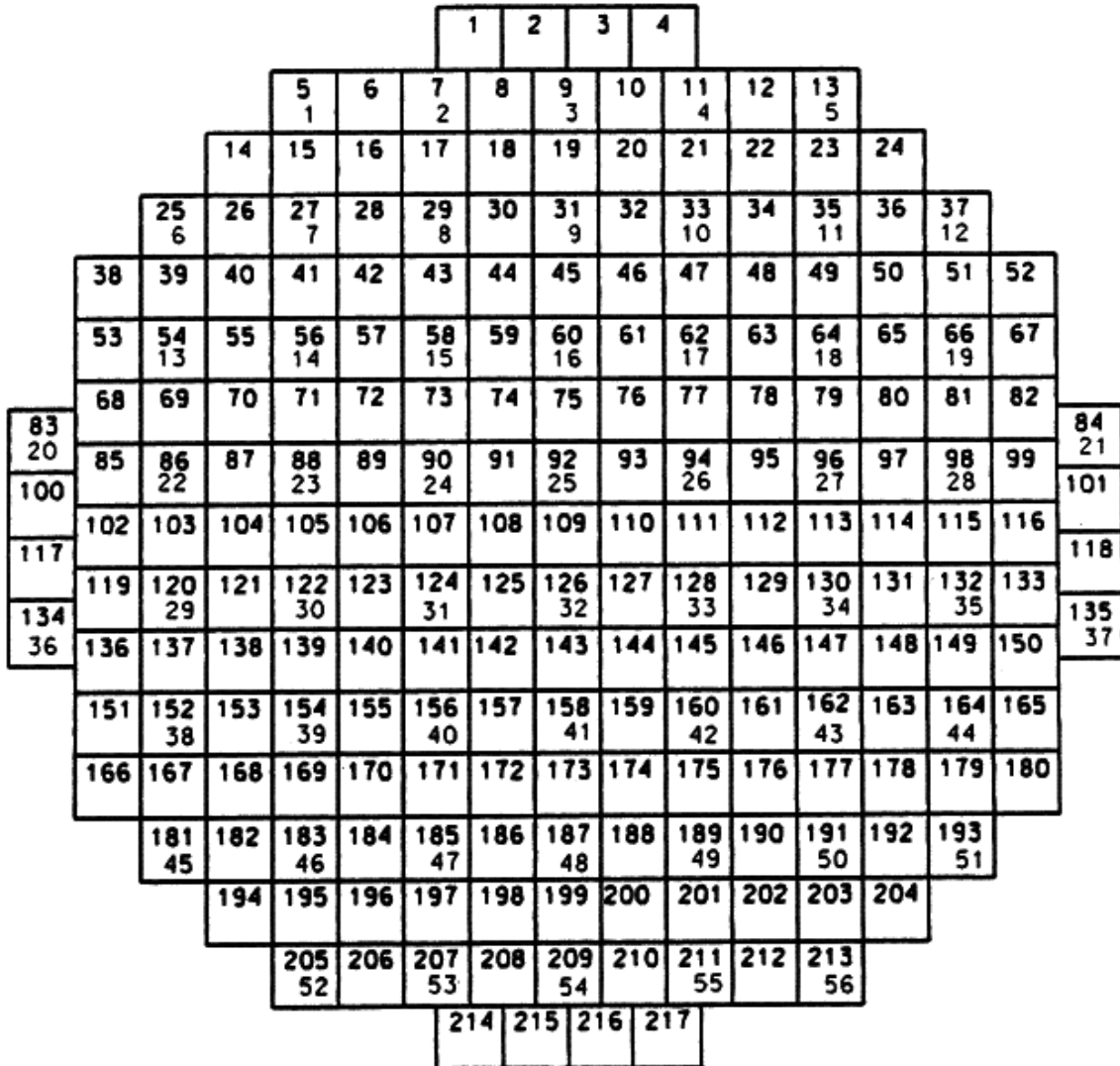
Revision 12 (10/02)

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

KEY TO MAP

XX
YY

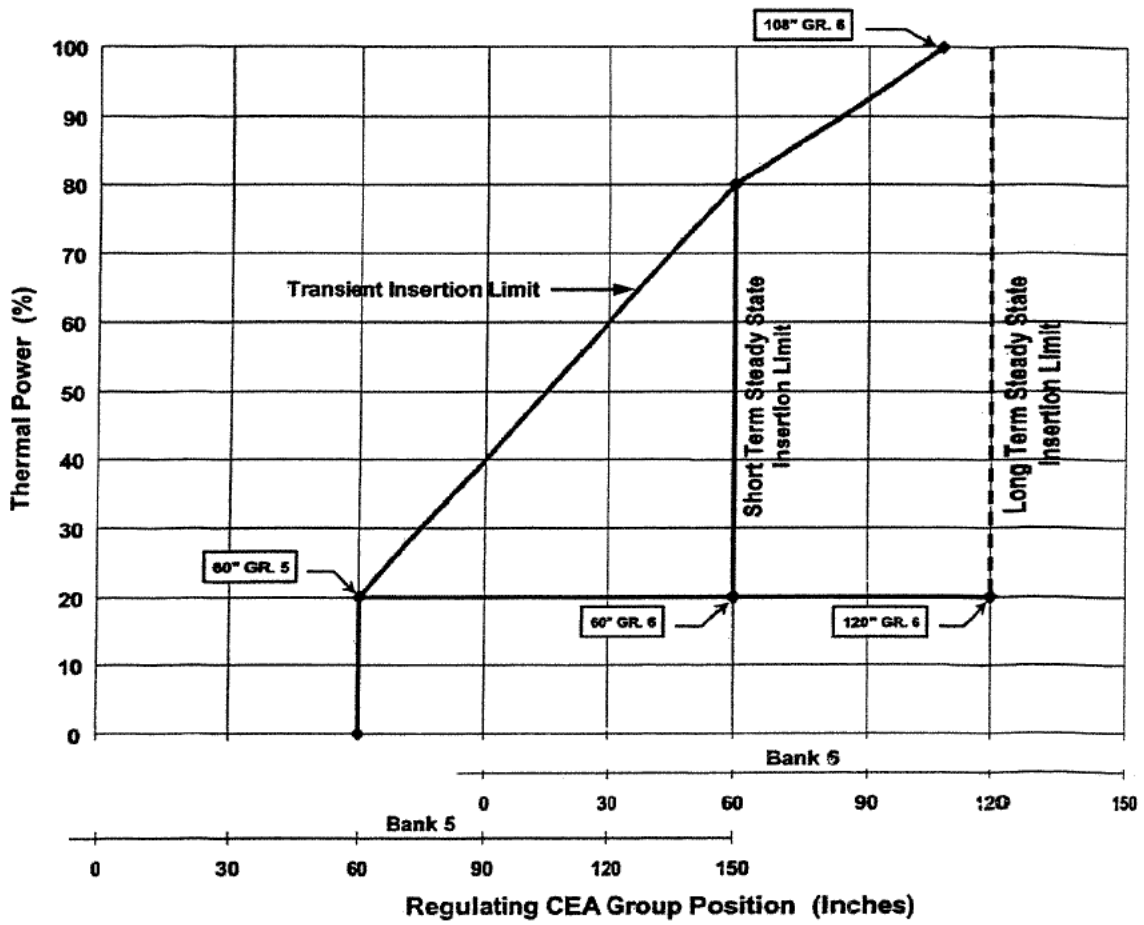
XX = Full Core Assembly Location
 YY = Instrument Assembly Location



NOTE : THERE ARE NO INCORE INSTRUMENT ASSEMBLIES AT CORE LOCATIONS 9, 11, AND 30.

Revision 304 (06/10)

Waterford Steam Electric Station #3	WATERFORD 3 IN-CORE INSTRUMENT ASSEMBLIES CORE LOCATIONS	Figure 4.3A-5
-------------------------------------	--	------------------

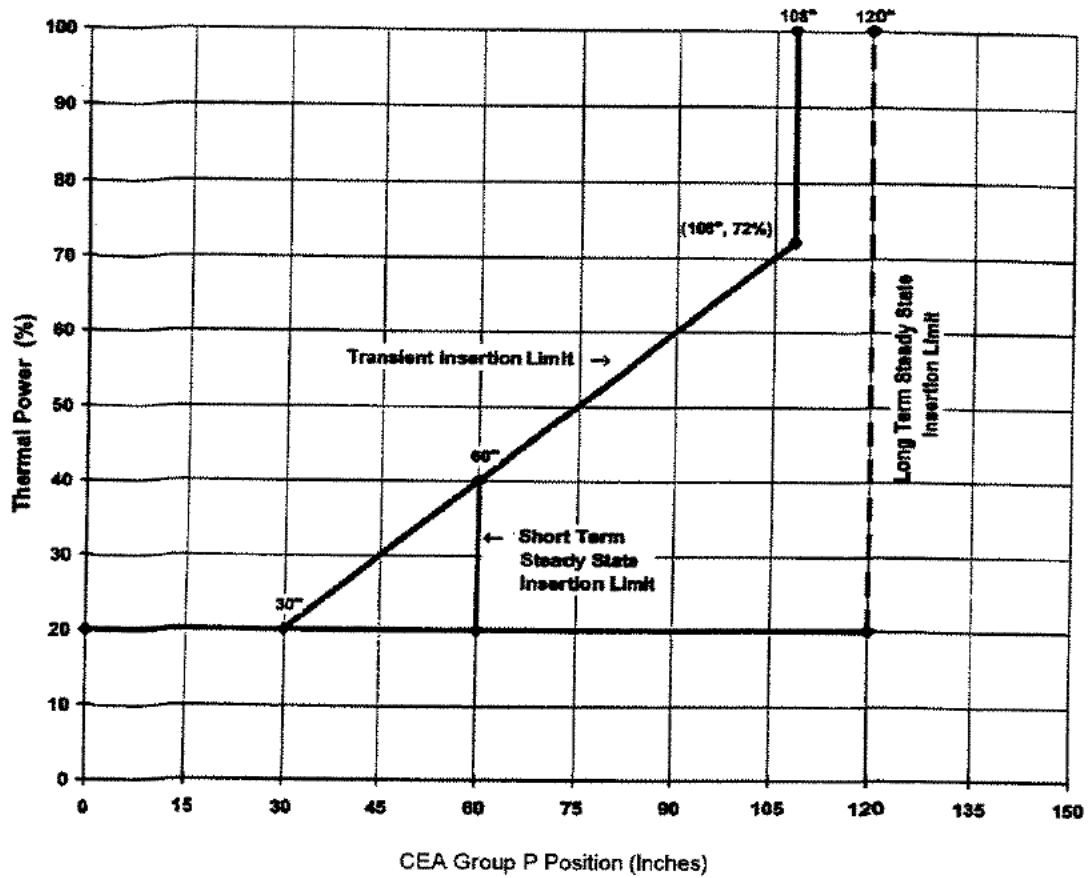


Revision 12 (10/02)

Waterford Steam
Electric Station #3

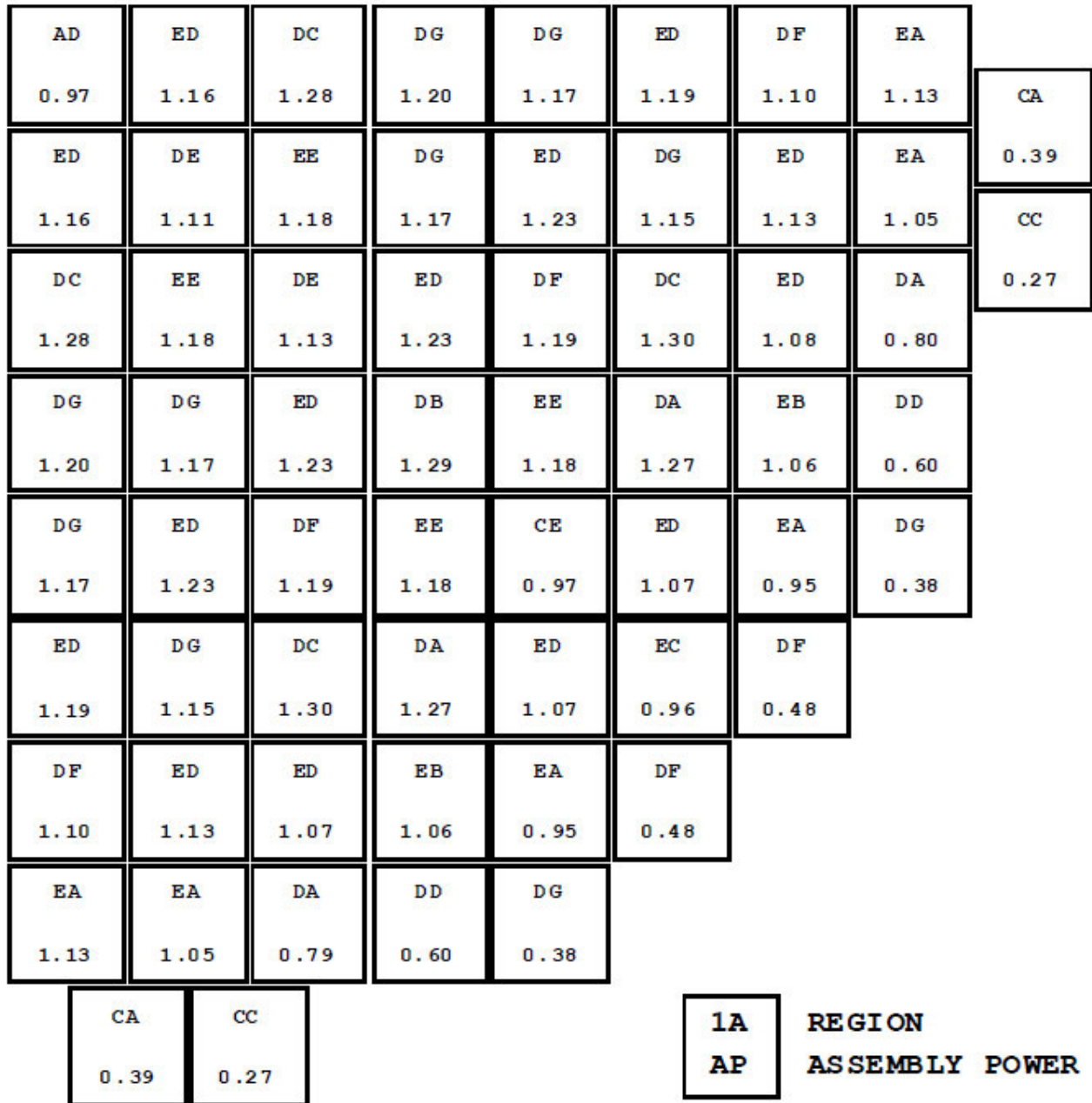
WATERFORD 3
PDIL FOR REGULATING GROUPS

Figure
4.3A-6



Revision 13 (04/04)

<p>Waterford Steam Electric Station #3</p>	<p>WATERFORD 3 CEA GROUP P INSERTION LIMIT VS THERMAL POWER</p>	<p>Figure 4.3A-7</p>
--	---	----------------------



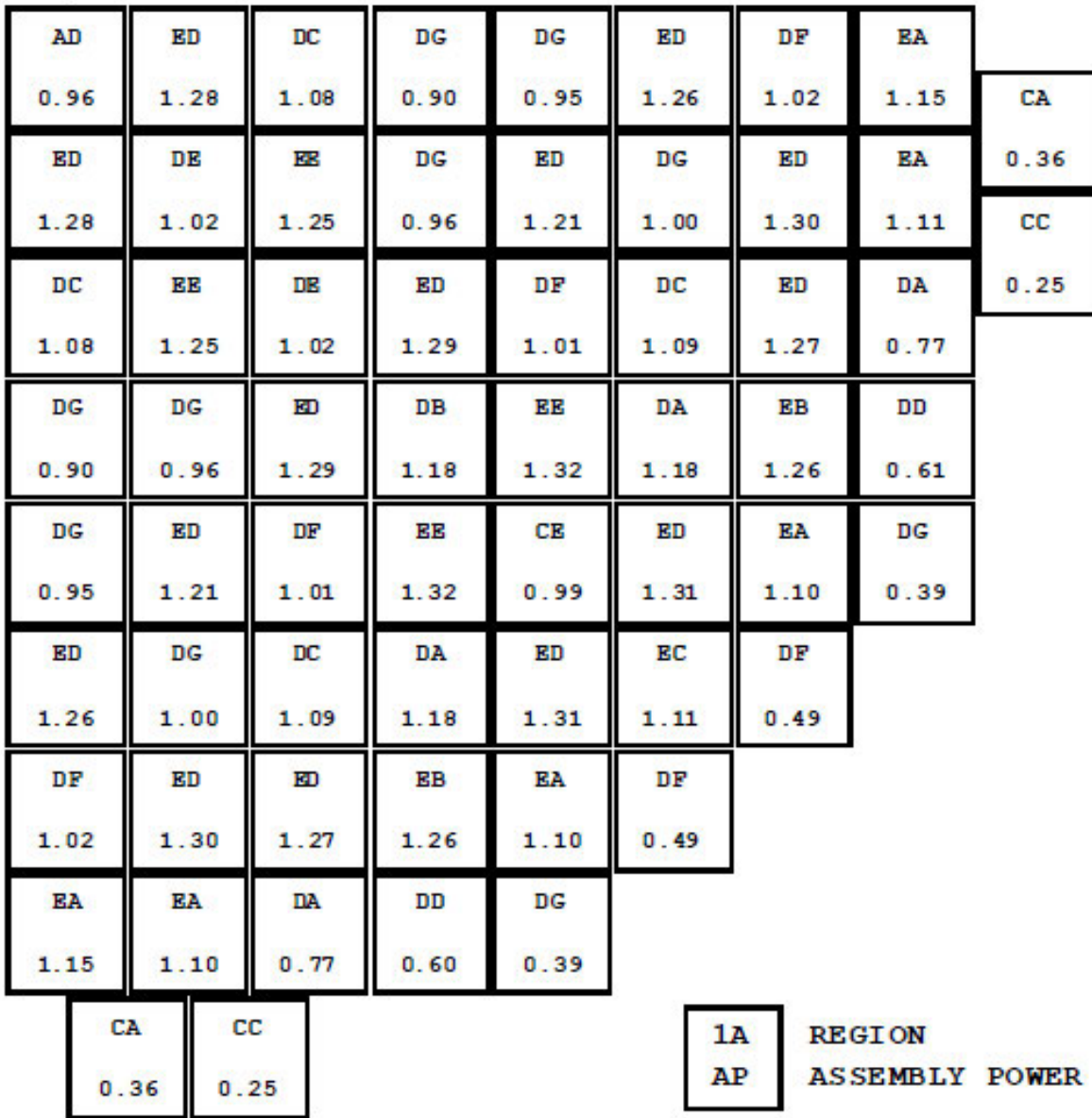
Maximum 1-Pin Peak (Fxy) = 1.426 in Full Core (FC) Assembly Number 189

Revision 309 (06/16)

Waterford Steam
Electric Station #3

WATERFORD-3 CYCLE 21
ASSEMBLY RELATIVE POWER DENSITY
BOCS, HOT FULL POWER (HFP), EQUILIBRIUM
XENON, ARO

Figure
4.3A-8



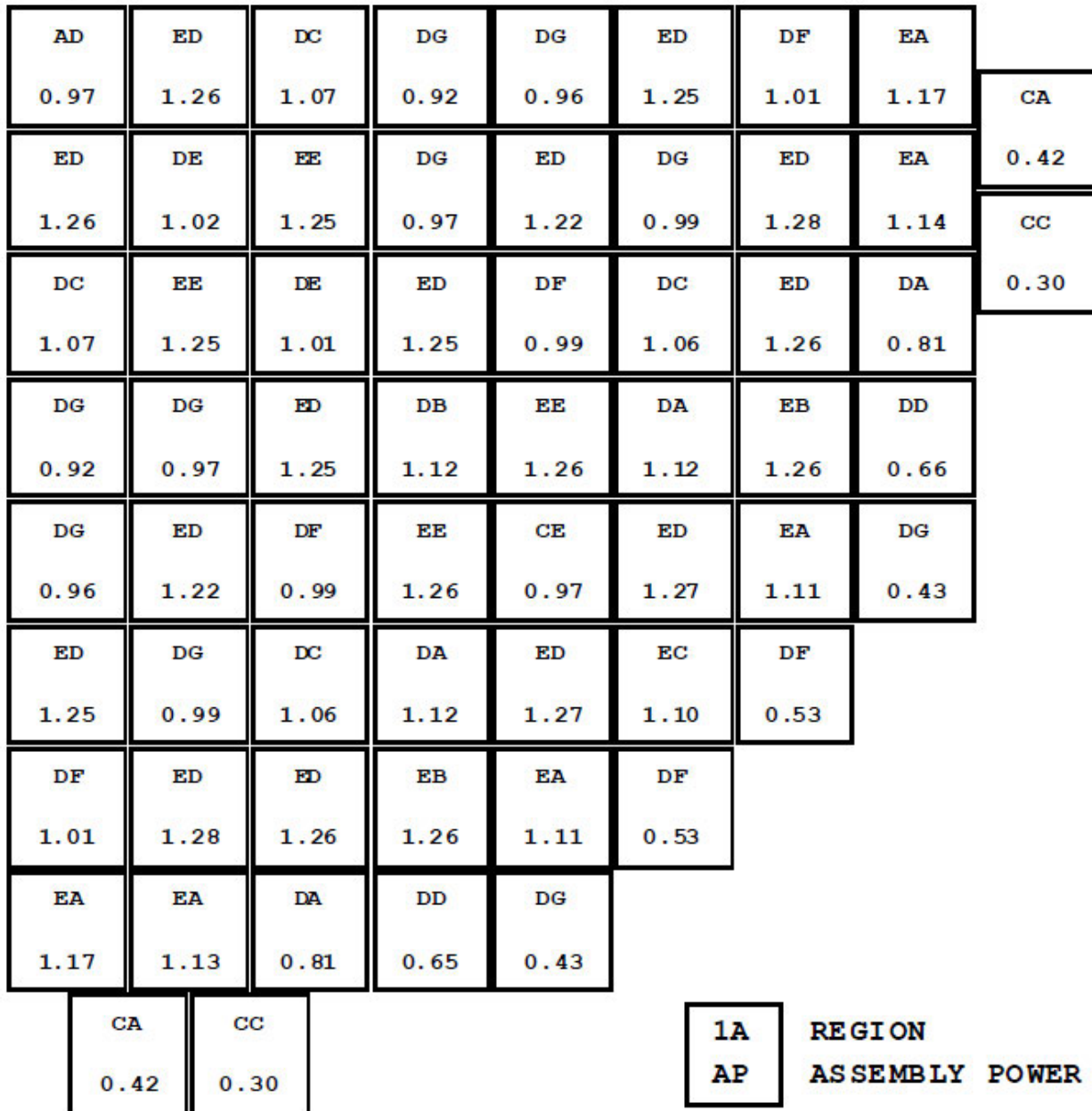
Maximum 1-Pin Peak (Fxy) = 1.455 in FC Assembly Number 164

Revision 309 (06/16)

Waterford Steam
Electric Station #3

WATERFORD-3 CYCLE 21
ASSEMBLY RELATIVE POWER DENSITY
MIDDLE OF CYCLE FROM LONG ENDPOINT OF
PREVIOUS CYCLE (MOCL), HFP, EQUILIBRIUM
XENON, ARO

Figure
4.3A-9



Maximum 1-Pin Peak (Fxy) = 1.381 in FC Assembly Number 202

Revision 309 (06/16)

**FIGURE 4.3A-11
HAS BEEN INTENTIONALLY
DELETED**

REVISION 6 (12/92)

Waterford Steam
Electric Station •3

**WATERFORD 3 - CYCLE 6
ASSEMBLY RELATIVE POWER DENSITY
HFP AT BOC. EQUILIBRIUM XENON, PLCEAS**

Figure
4.3A-11

FIGURE 4.3A-12
HAS BEEN INTENTIONALLY
DELETED

REVISION 6 (12/92)

Waterford Steam
Electric Station •3

WATERFORD 3 - CYCLE 6
ASSEMBLY RELATIVE POWER DENSITY
HFP AT BOC, EQUILIBRIUM XENON, WITH BANK 6

Figure
4.3A-12

FIGURE 4.3A-13
HAS BEEN INTENTIONALLY
DELETED

REVISION 6 (12/92)

Waterford Steam
Electric Station •3

WATERFORD 3 - CYCLE 6
ASSEMBLY RELATIVE POWER DENSITY
HFP AT BOC. EQUILIBRIUM XENON, WITH
BANK 6 AND PLCEAS

Figure
4.3A-13

**FIGURE 4.3A-14
HAS BEEN INTENTIONALLY
DELETED**

REVISION 6 (12/92)

Waterford Steam
Electric Station #3

WATERFORD 3 - CYCLE 6
ASSEMBLY RELATIVE POWER DENSITY
HFP AT EOC. EQUILIBRIUM XENON, WITH PLCEAS

Figure
4.3A-14

FIGURE 4.3A-15
HAS BEEN INTENTIONALLY
DELETED

REVISION 6 (12/92)

Waterford Steam
Electric Station ● 3

WATERFORD 3 - CYCLE 6
ASSEMBLY RELATIVE POWER DENSITY
HFP AT EOC, EQUILIBRIUM XENON WITH BANK 6

Figure
4.3A-15

FIGURE 4.3A-16
HAS BEEN INTENTIONALLY
DELETED

REVISION 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

Security Related Information
Figure Withheld Under 10 CFR 2.390

COMPARISON OF FUEL ROD DESIGNS

REVISION 8 (5/96)

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

COMPARISON OF POISON ROD DESIGNS

REVISION 8 (5/96)

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