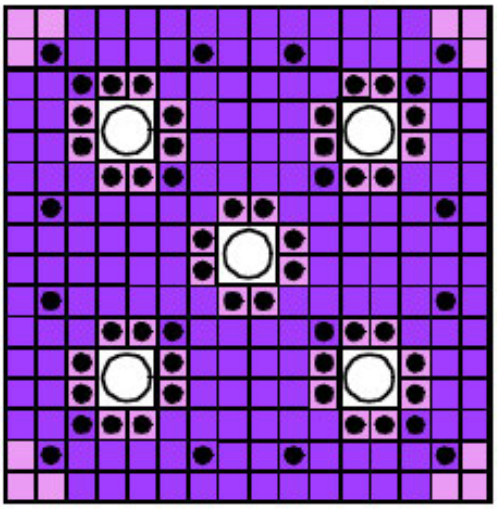
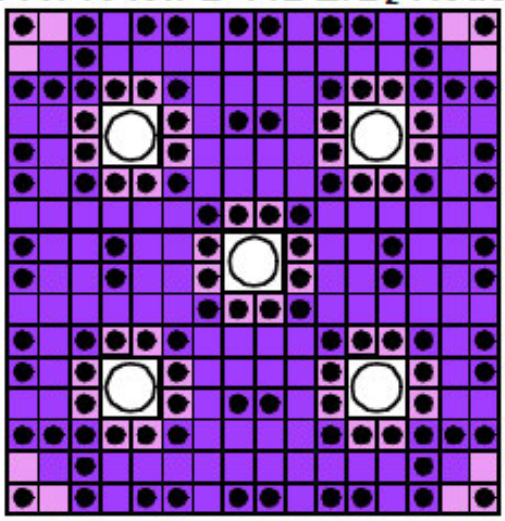
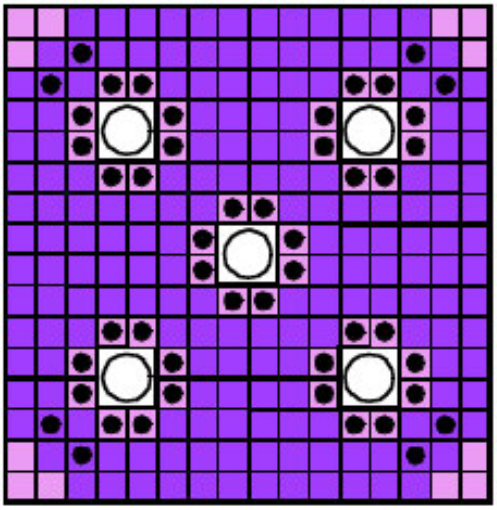
Region EA
PAT1633IFB 60 ZrB_2 Rods



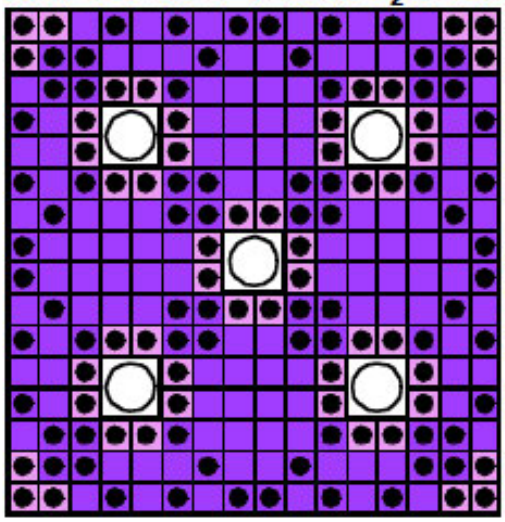
Region EB and ED
PAT1649IFB 112 ZrB_2 Rods



Region EC
PAT1632IFB 48 ZrB_2 Rods



Region EE
PAT1636IFB 124 ZrB_2 Rods



Low Enriched Fuel Rod with ZrB_2

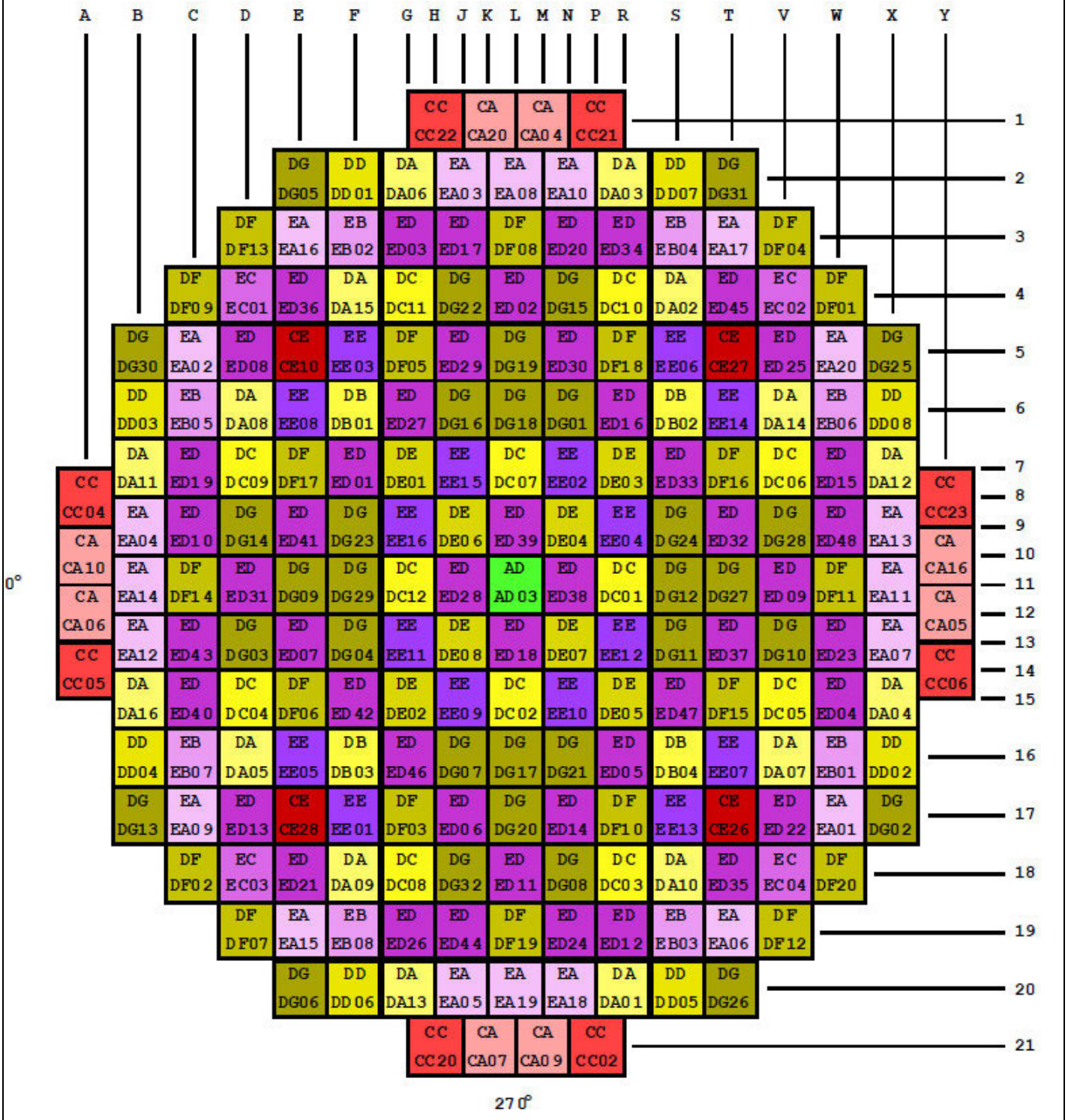
Low Enriched Fuel Rod

High Enriched Fuel Rod with ZrB_2

High Enriched Fuel Rod

Revision 309 (06/16)

Waterford Steam Electric Station #3	WATERFORD-3 CYCLE 21 INTEGRAL BURNABLE POISON SHIM AND ENRICHMENT ZONING PATTERNS	Figure 4.3A-1



Note: 0° indicates plant north.

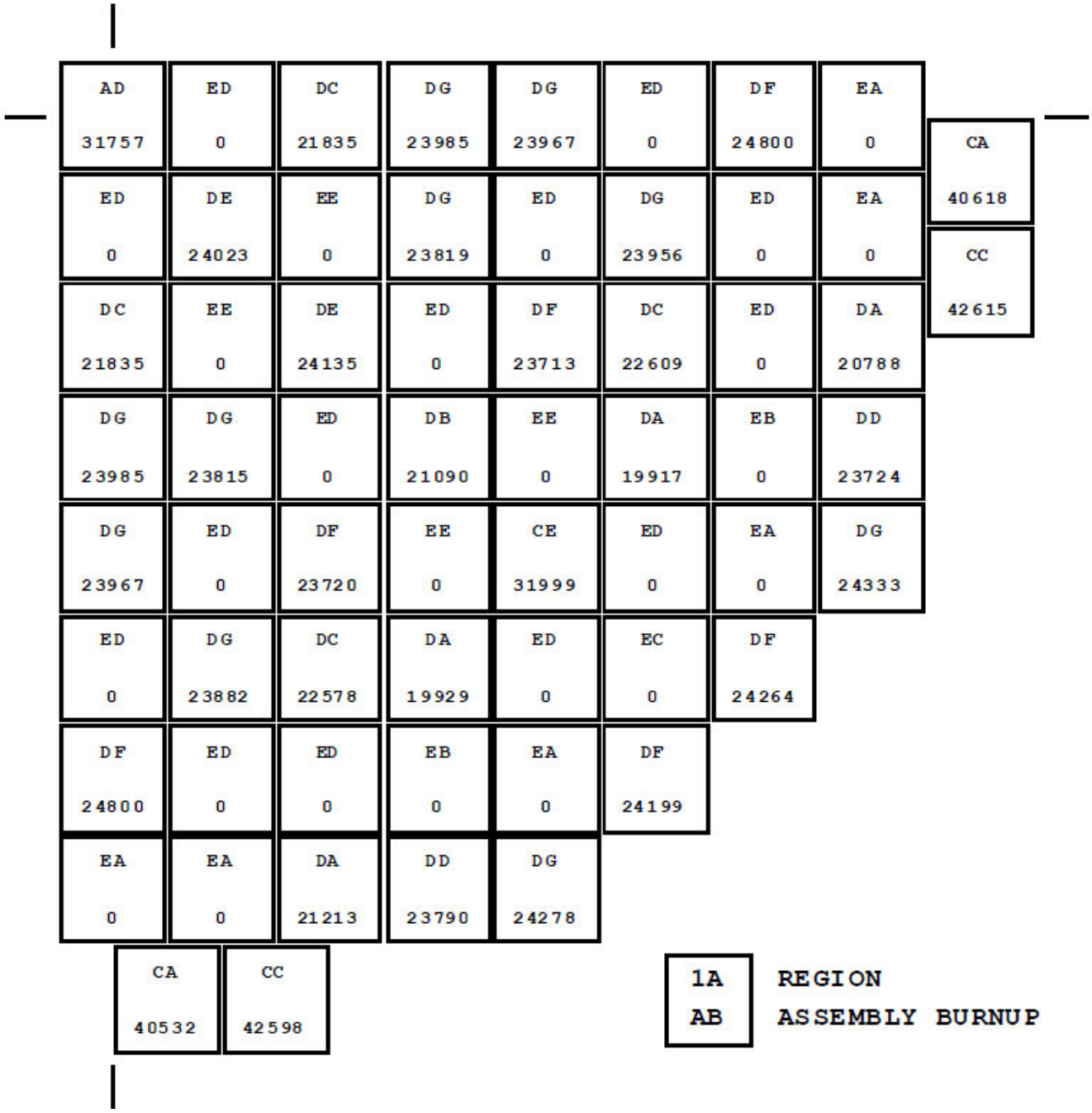
Revision 309 (06/16)

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

→(EC-9533, R302)

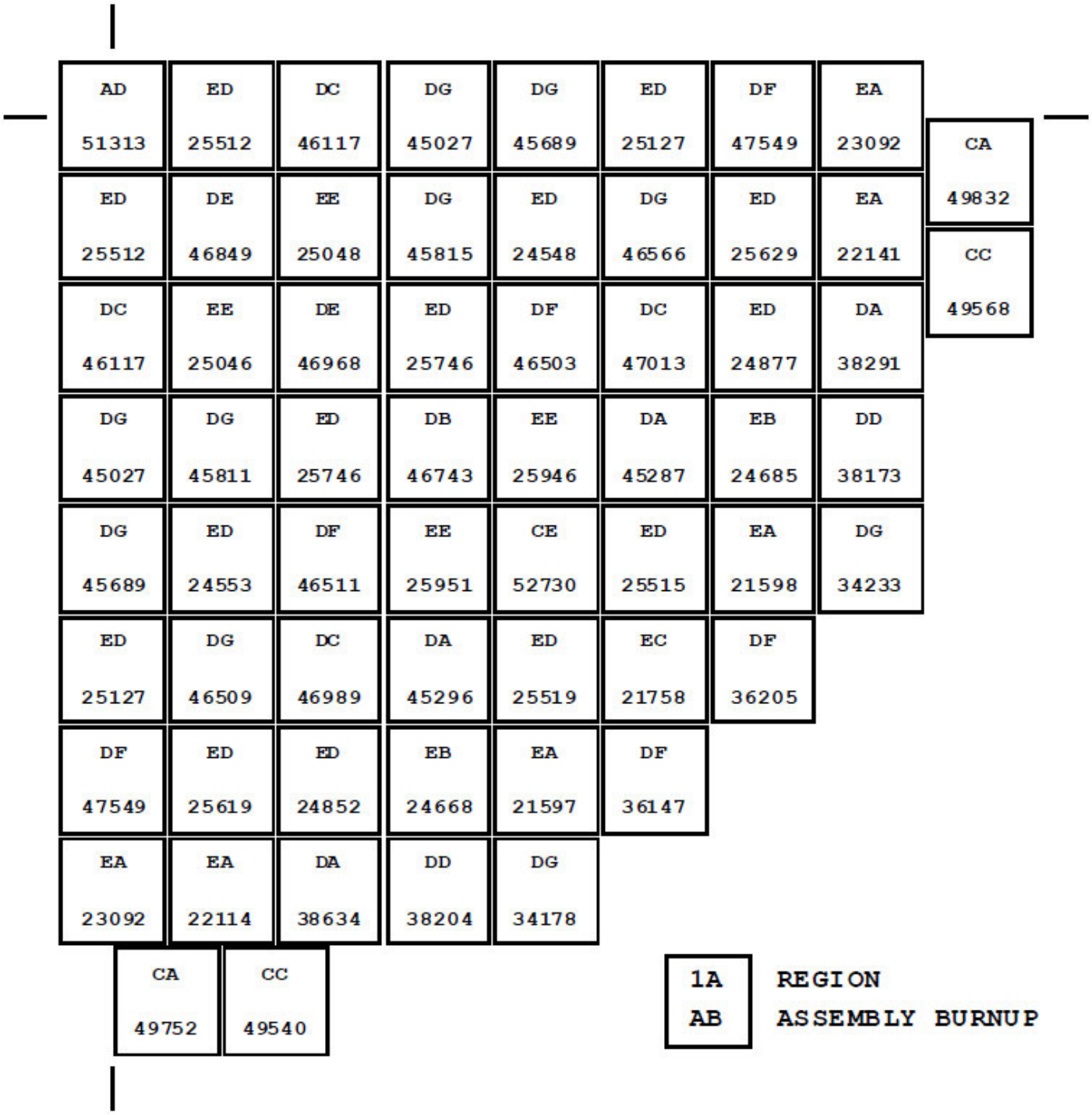
Figure 4.3A-3 has been intentionally deleted.

←(EC-9533, R302)



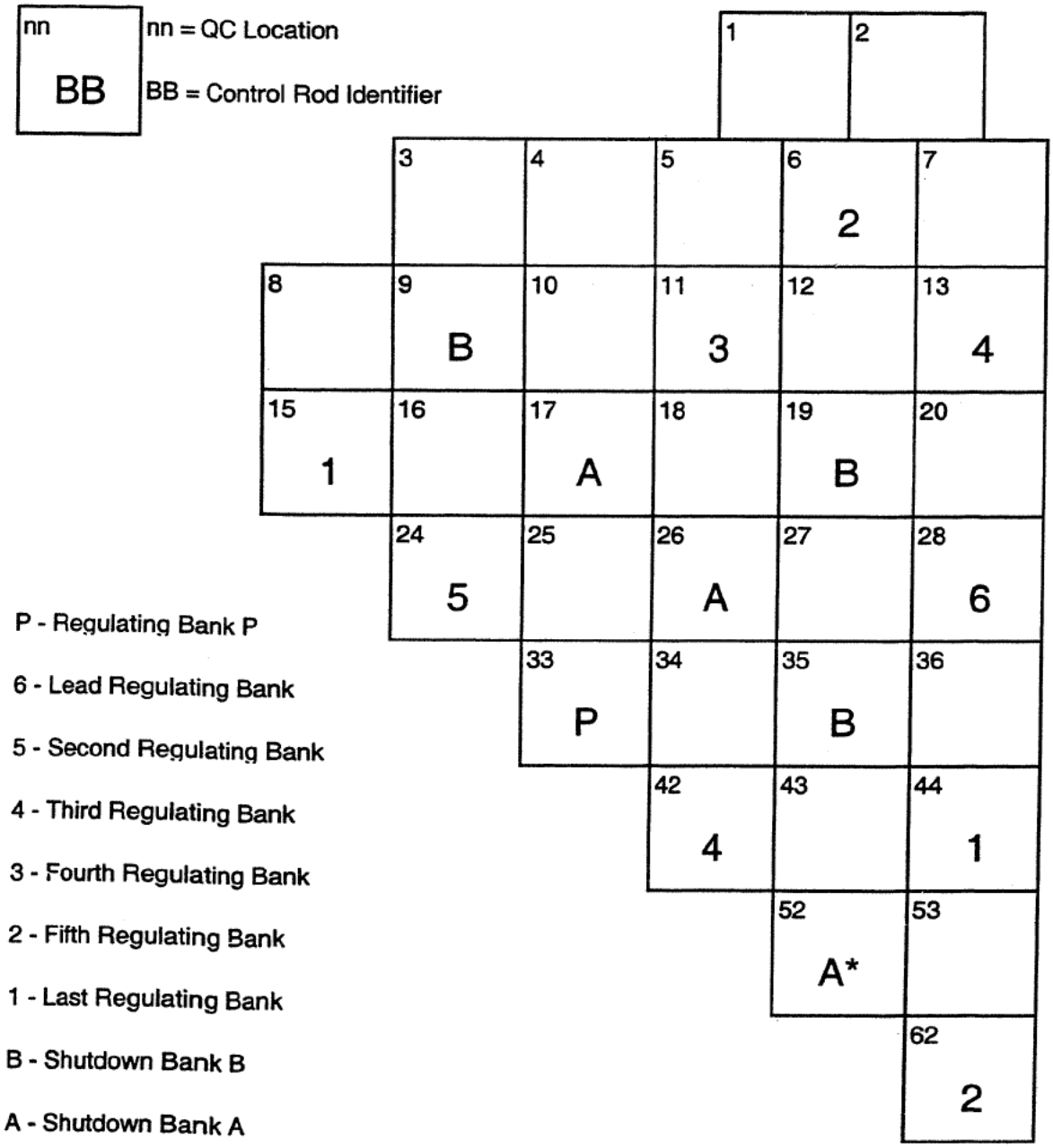
Revision 309 (06/16)

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



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



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

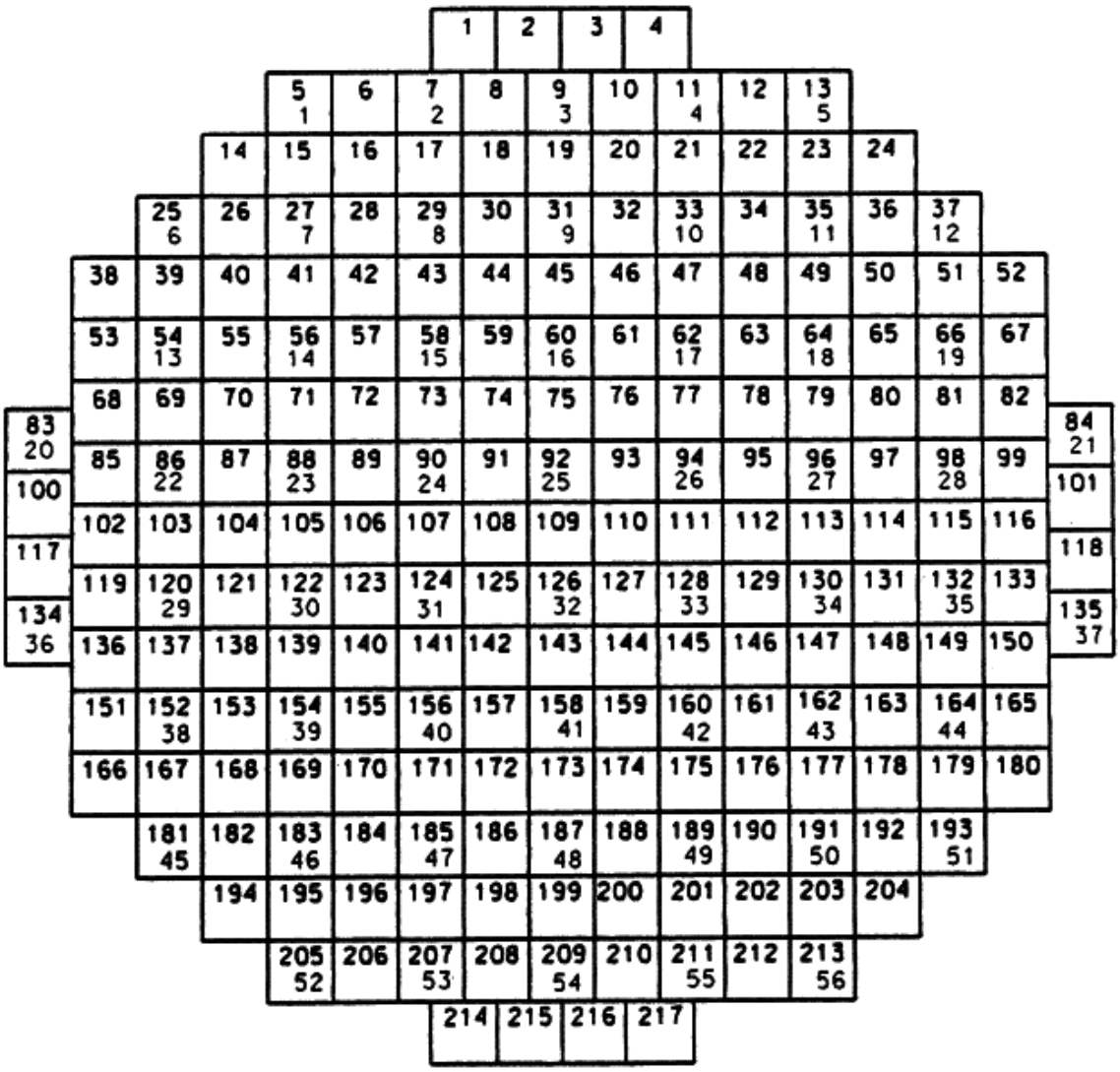
Revision 12 (10/02)

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

KEY TO MAP

XX YY

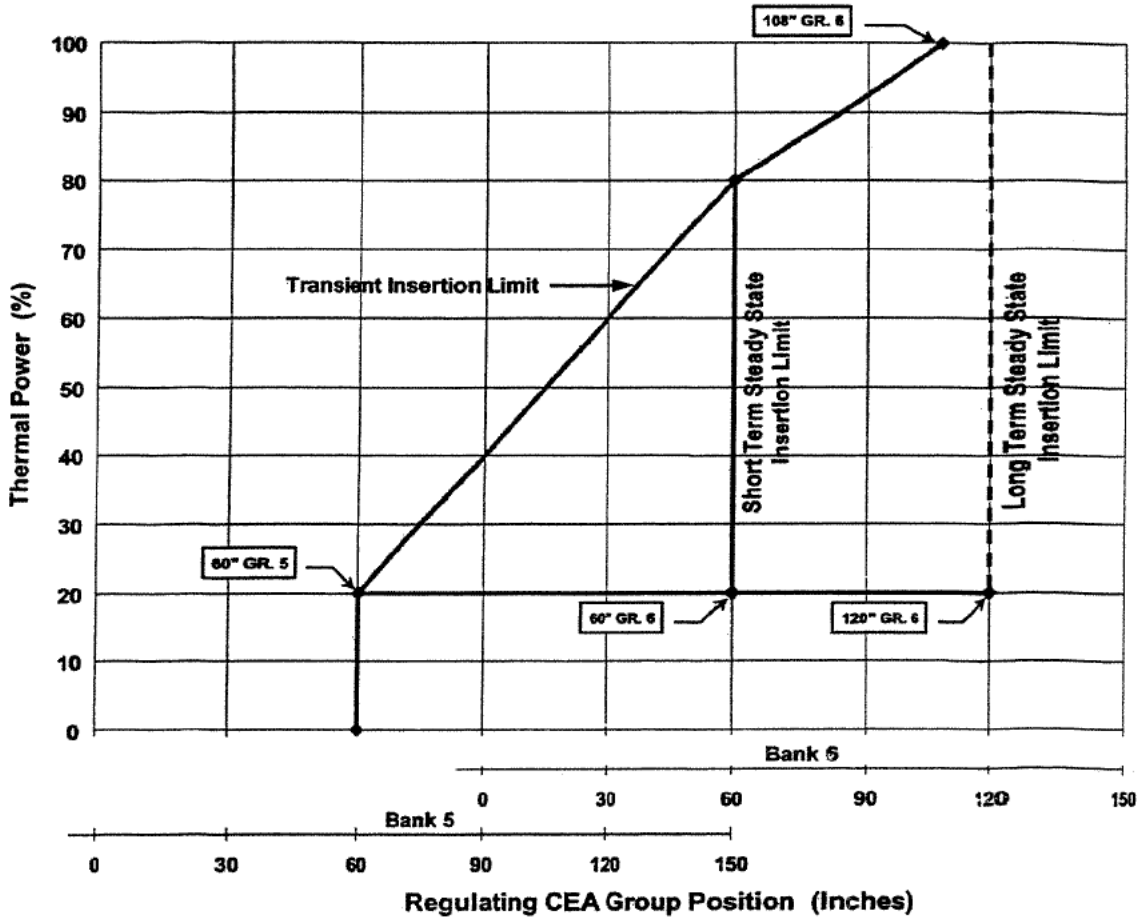
XX = Full Core Assembly Location
YY = Instrument Assembly Location



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

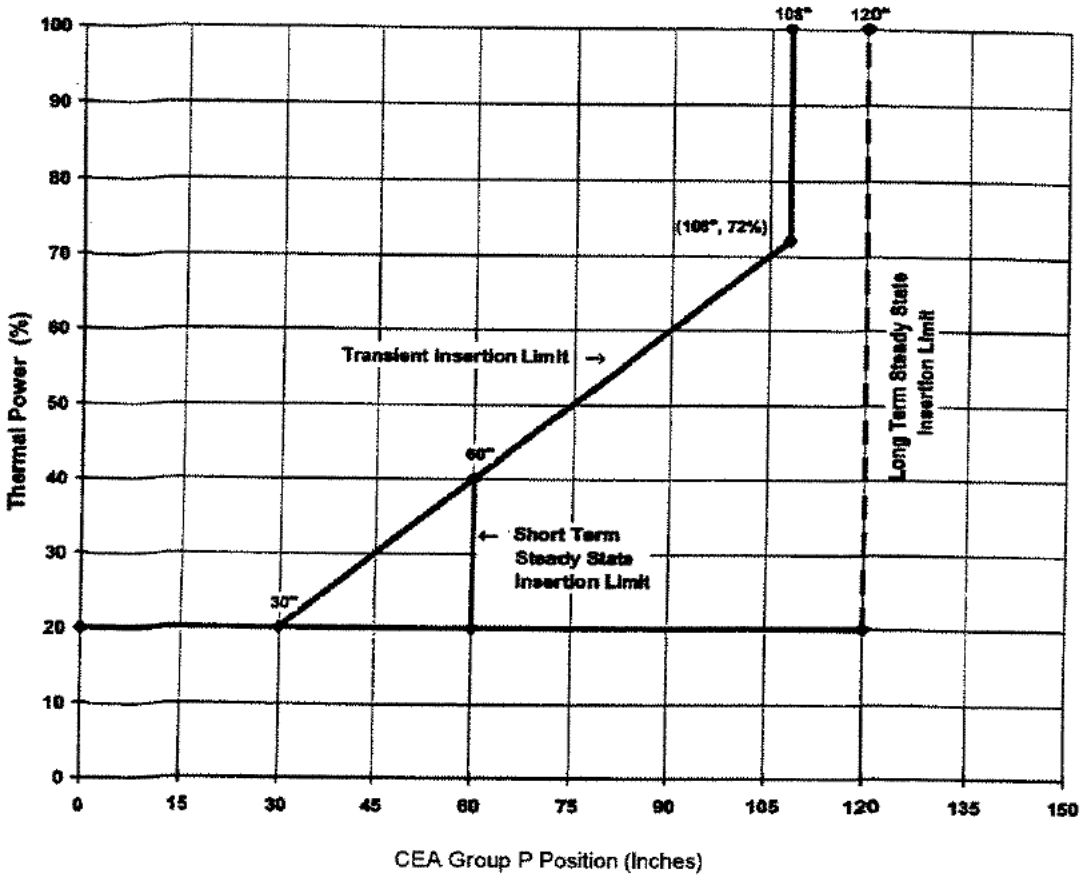
Revision 304 (06/10)

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



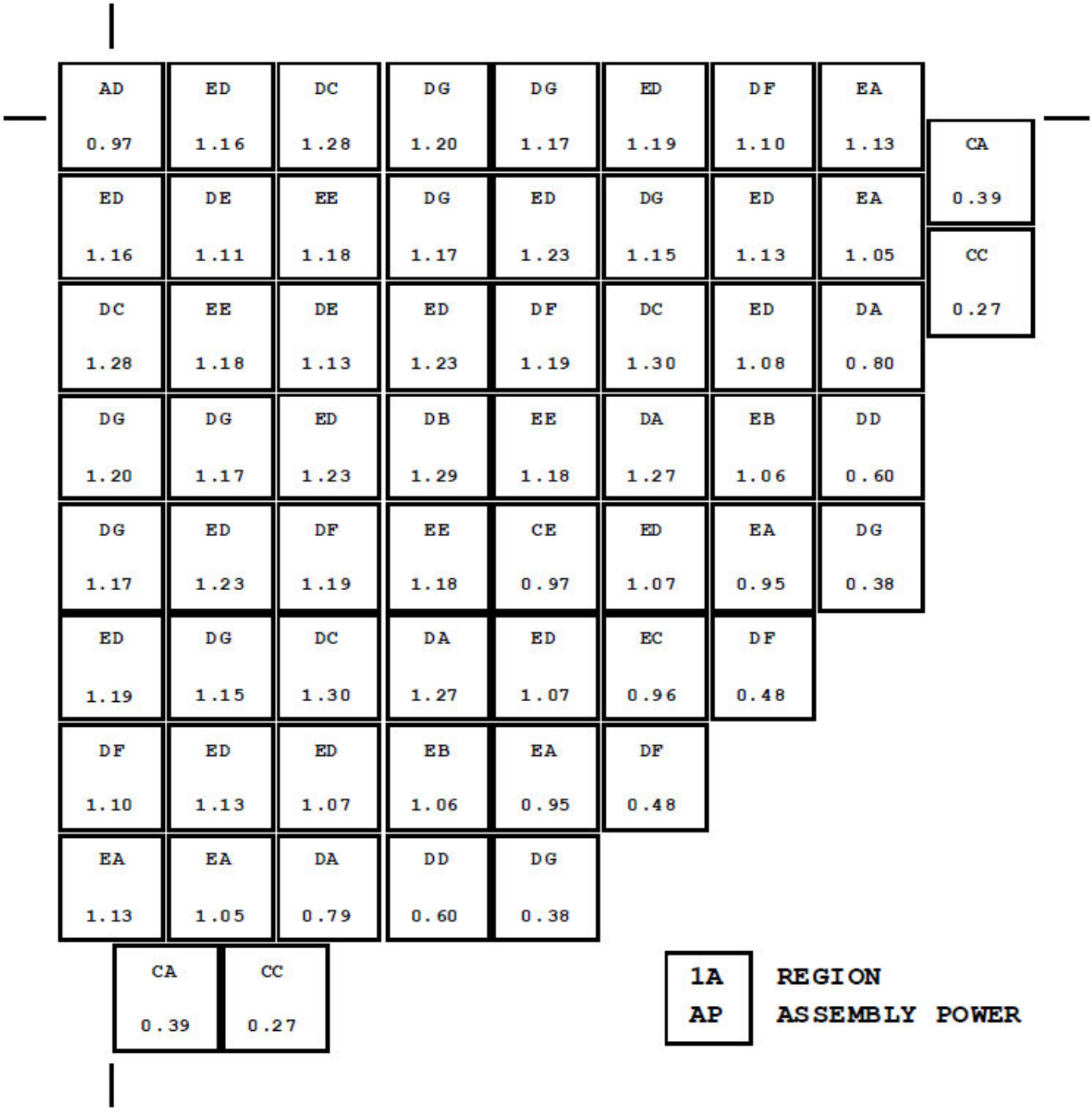
Revision 12 (10/02)

Waterford Steam Electric Station #3	WATERFORD 3 PDIL FOR REGULATING GROUPS	Figure 4.3A-6



Revision 13 (04/04)

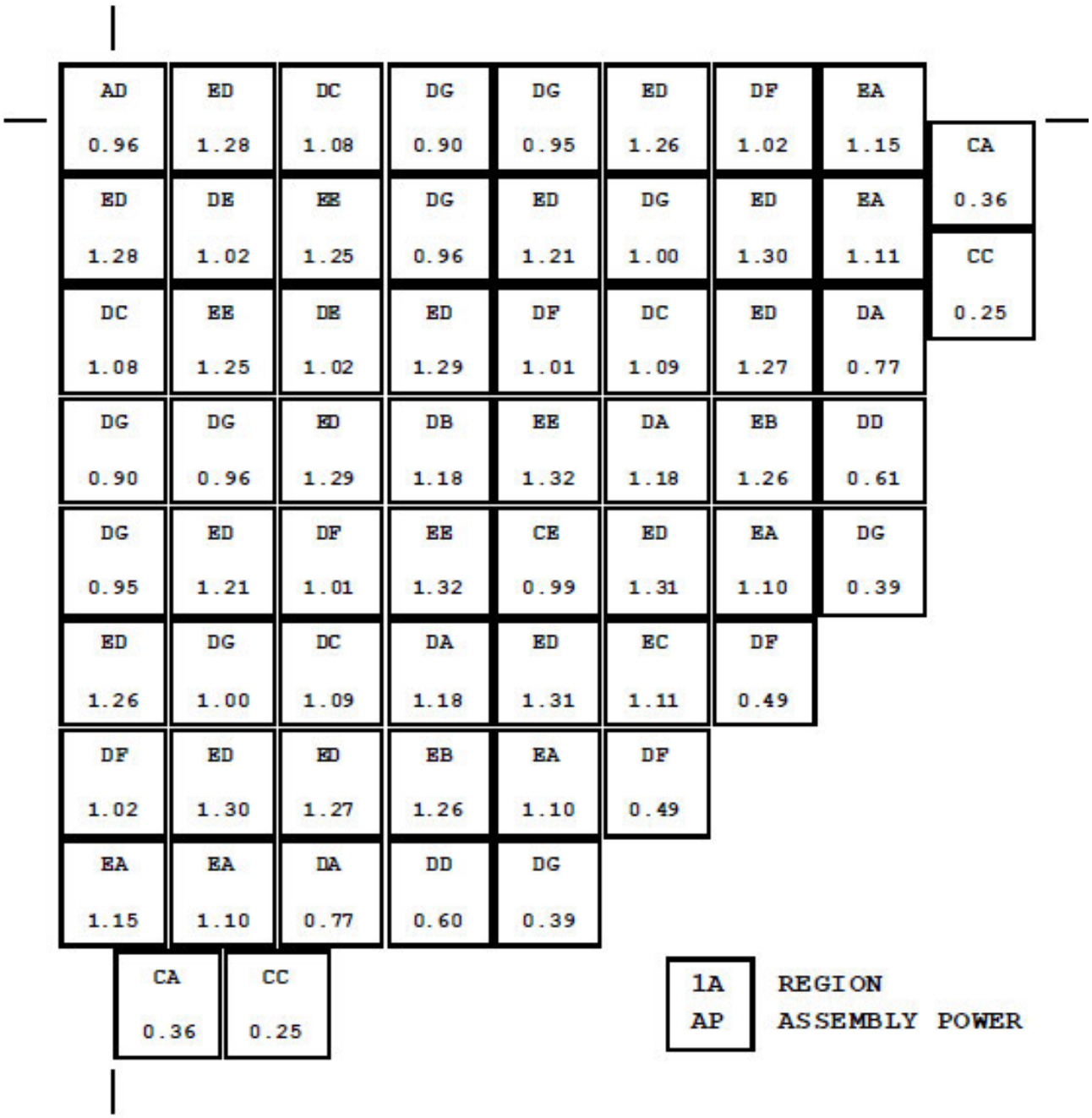
Waterford Steam Electric Station #3	WATERFORD 3 CEA GROUP P INSERTION LIMIT VS THERMAL POWER	Figure 4.3A-7



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

Revision 309 (06/16)

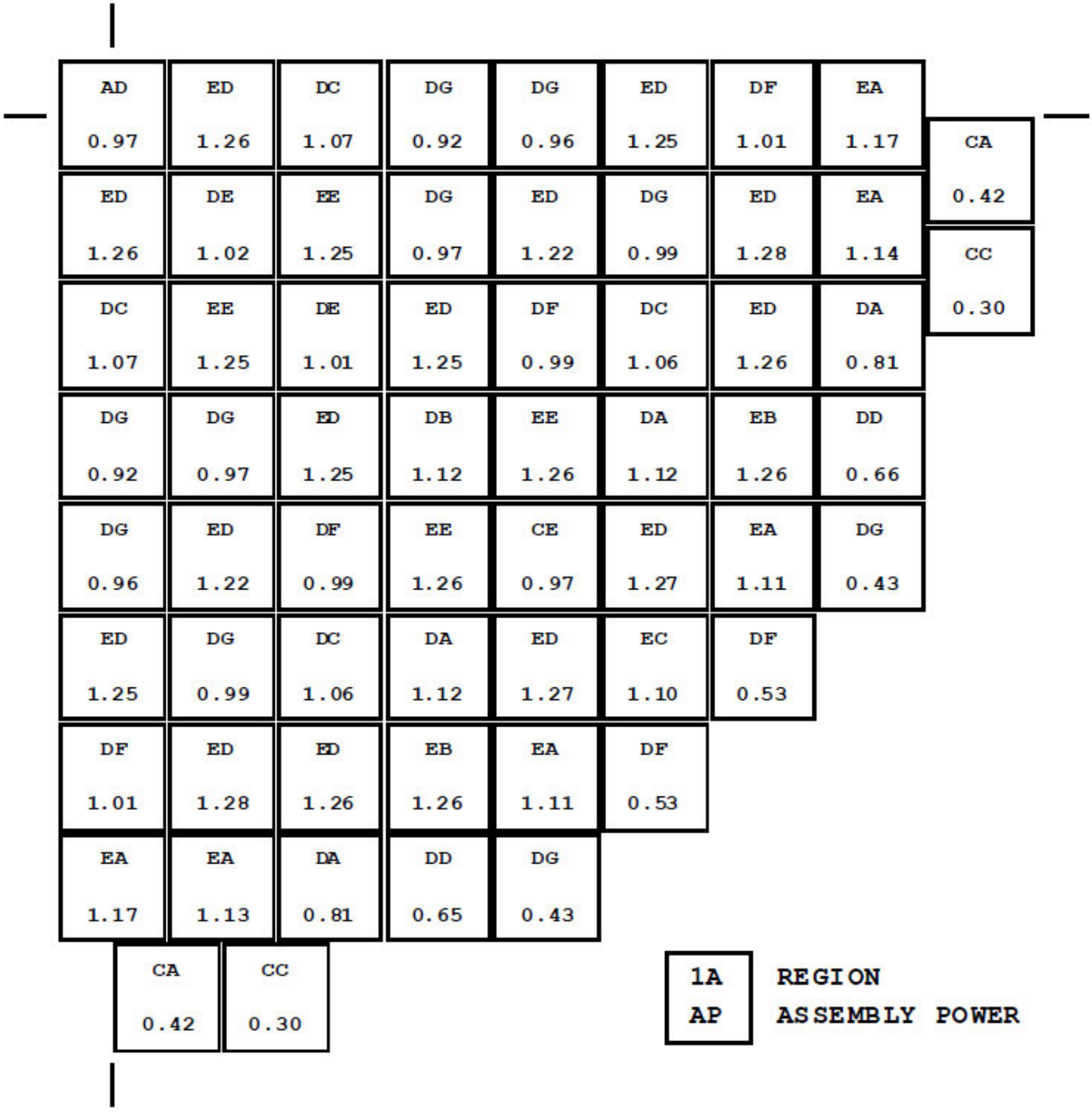
Waterford Steam Electric Station #3	WATERFORD-3 CYCLE 21 ASSEMBLY RELATIVE POWER DENSITY BOCS, HOT FULL POWER (HFP), EQUILIBRIUM XENON, ARO	Figure 4.3A-8



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)

Waterford Steam Electric Station #3	WATERFORD-3 CYCLE 21 ASSEMBLY RELATIVE POWER DENSITY EOCL, HFP, EQUILIBRIUM XENON, ARO	Figure 4.3A-10

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 INTENT I ONALLY
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)

Woterford 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)

Woterford 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)

Waterford Steam Electric Station ● 3	FUEL ROD DESIGNS	Figure 4.3A-18

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)

Waterford Steam Electric Station ● 3	POISON ROD DESIGNS	Figure 4.3A-19

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