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（開示制限）

「ふげん」プルトニウム燃料集合体のSGHWRにおける照射試験

(Ⅳ) SGHWR TYPE－D燃料集合体の照射履歴

An Irradition Program of「FUGEN」PuO_2–UO_2 Fuel Assembly in the SGHWR

(Ⅳ) Irradition History Data of SGHWR TYPE-D

1981年5月

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—An Irradition Program of「FUGEN」PuO_2－UO_2 Fuel Assembly in the SGHWR—

(Ⅳ) Irradition History Data of SGHWR TYPE－D S／A

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期間 1975年10月～1981年3月

目的 新型転換炉「ふげん」初装荷プルトニウム燃料のSGHWR照射試験

要旨

「ふげん」初装荷プルトニウム燃料集合体の製造開始に当り，プルトニウム燃料部第2開発室ATRラインで製作される燃料集合体の照射特性および健全性を確認するため，SGHWRにおける28本組クラスタのPuO_2－UO_2燃料集合体（Type－D）の照射試験が実施された。この報告書は，本照射試験の照射履歴に関する事項についてまとめたものである。

本集合体の照射は昭和50年10月26日から約18ケ月間順調に続けられ，昭和52年4月29日に終了した。この期間中に達成された照射条件は以下のようであった。

最大集合体出力		2.9 MW
最大線出力		490 W／*cm*
最大燃焼度	ペレット最高	10,570 MWd／tM
	集合体平均	6,420

また，照射有効日数（EFPD）は約360日におよび，この間50回程の出力サイクルが繰返された。

本燃料集合体は，照射終了後，約9ケ月間冷却され，その後ウィンズケールの照射後試験施設で一連の照射後試験（PIE）が実施された。

＊ プルトニウム燃料部設計課
＊＊ 新型転換炉開発本部

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1. 概　　要

本照射試験は，新型転換炉「ふげん」初装荷用PuO_2-UO_2混合酸化物燃料（MOX燃料）の照射試験をSGHWRにおいて実施し，プルトニウム燃料部の製造加工施設で製作される製品の炉内健全性および照射特性を確認することを目的として実施された。

照射試験用燃料集合体の設計は50年4月までに完了し，引き続き製作を始め，同年8月に製作を終了しSGHWRサイトへの輸送をおこない50年10月より照射を開始した。この間の集合体設計，製造および現地での集合体とシュラウドとの組立についてはすでに参考文献に掲げた資料により報告されている。[1),2),3)]

50年10月より開始された照射試験は順調に進み，ほぼ照射半ばの51年5月から実施されたSGHWRの定期検査時に照射位置を変えて再び51年10月より照射を開始し，52年4月に照射を終了した。照射有効日数は360日におよびこの間燃料集合体は健全性を保ち，燃料として何ら不都合なことはおこらなかった。

照射中のSGHWR炉心およびTYPE－D集合体に関するデータは，毎月UKAEAよりPNCにAEEW－R 1037レポートとして報告されている。AEEW－R1037レポートはPart 1からPart 20（Final Report）まで20冊におよんでいる。

また原子炉出力，集合体出力，燃料要素線出力また燃焼度等の詳細なデータについては磁気テープおよび計算機アウトプットとしてUKAEAより入手している。

磁気テープに納められたデータを使用に便利な形で整理するため，データ処理コードとしてTRID－Sコードを作成し，これによりデータ処理およびプロッターによる作図を行った。

TRID－Sコードおよびこれにより整理したデータについては付録に集録した。

TYPE－D集合体は52年4月に照射を終了した後，5月に炉心から取り出され，9月にウインズケールでおこなわれる照射後試験のために送り出されるまでプール内で冷却された。

この冷却の間にプール内で集合体の外観について調べたが上部ハウジング，下部ハウジングおよびシュラウド管には何ら異常は認められなかった。

ウインズケールで行われた照射後試験[4),5)]に関しては次の報告に委ね，ここでは照射期間中に得られたデータについて報告する。

2. 照　射　条　件

2.1　SGHWRの概要

SGHWRは，電気出力100MWの圧力管構造，沸騰軽水冷却（冷却材圧力67気圧），重水減速炉であり，ATR「ふげん」の設計と極めて類似している。炉心は104本のジルカロイ製圧力管が正方格子に配列され，燃料チャンネルを形成し，燃料集合体は36本の燃料要素をクラスタ状に束ねたもので，燃料スタック長は3,660㎜である。以下に定常状態における運転条件を示す。

炉出力（定格全熱出力）		292 MW
冷却水圧力（入口）		6.68 MN／m^2
冷却水流量		1,960 kg／s
冷却水入口温度		275 ℃
冷却水出口温度		281 ℃
最大熱出力	標準チャンネル	4 MW
	テストチャンネル	5 MW
	テストループチャンネル	6.5 MW
出口蒸気重量率（標準チャンネル最大）		11 wt％

SGHWR炉心はドライバー燃料の入る標準チャンネルの他に特殊な照射試験の目的のために使う特別なチャンネルが設けられている。それらの概要は次の通りである。

Standard Channels（Boiling Channel）

それぞれのチャンネルに計装が付けられているため，どのチャンネルでも照射試験に使用することができる。（今回の照射試験にはこのS07とS17チャンネルが使用された。）

Boosted Channels

4つのスタンダード・チャンネルが循環ポンプに連結されており，冷却材流量を増加させることができる。

Cluster Loop

炉心中央部のチャンネルのうちの1つが，独立した外部の廃熱ループに連結されている。

Interlattice Position

圧力管のまわり以外にも，格子間に11本のカランドリア管があり，他の実験のために利用できる。

Two Element Loop

上で述べた格子間カランドリア管のうちの2本は，PWRの条件下での運転を行うための独立したループに連結されている。この装置はまだ完成していないので，利用することはできない。

Fig 2－1にSGHWRの炉心の構成を示す。

2.2 照射位置

TYPE－D燃料集合体は標準チャンネルS07の位置で照射されたが，その後さらに燃焼度を増すため照射を継続することとなり，S17の位置に移され再び照射された。

TYPE－Dの照射位置をFig.2－1に示す。

2.3 集合体内の燃料棒配列

TYPE－D燃料集合体に含まれる燃料棒28本は全て同一仕様で製作されている。燃料棒の番号付けはFig.2－2に示すように内層燃料棒A1～A4，中間層燃料棒B1～B8，外層C1～C12としている。更にSGHWR側ではデータバンクの都合上28本の燃料棒に1～28の番号付けを行っている。

各燃料棒の集合体内での相対位置と炉心中心に対する集合体の向きはS07とS17の照射位置で同一である。

2.4 炉出力履歴

TYPE－D集合体は昭和50年10月21日にSGHWR S07位置に装荷され，同10月26日から照射が開始された。

原子炉出力は定核熱出力292MWで，原子炉停止時の冷却材条件は30℃，大気圧である。照射期間中，原子炉はほぼ定核出力に保たれた。定格出力時の出力変動はほぼ5％程度である。

照射試験は順調に進行し，最高燃焼度が5920MWd／tMに達した時点（昭和51年5月7日）で定期点検のため一時照射が停止された。炉停止期間中にTYPE－D集合体はS07からS17の位置に移し変えられた。51年9月8日に再照射が開始され，52年4月29日に原子炉がシャットダウンされるまでの間，原子炉はほぼ定格出力で運転された。

また，照射試験中には約18回の原子炉シャットダウンを経験し，50％以上の出力変動9回，50％以内の出力変動23回を経験している。

照射期間中の90MWe以上の炉出力での運転日数，90MWe以下の運転日数および炉停止日数をTable 2－1に，原子炉の運転出力履歴をFig.2－3に示す。

Table 2－1 Summary of power generation levels

Date year	month	Greater than 90 MW (e)	Less than 90 MW (e)	Zero power
1975	10	5	1	25
	11	26	2	2
	12	30	1	0
1976	1	28	2	1
	2	26	2	1
	3	27	3	1
	4	27	1	2
	5	6	1	24
	6 *	0 (定検)	0	30
	7	0 (〃)	0	31
	8 **	0 (〃)	0	31
	9	8	13	9
	10	15	3	13
	11	9	3	18
	12	22	2	7
1977	1	31	0	0
	2	25	2	1
	3	25	4	2
	4	23	5	2
Sum 19		333 Days	45 Days	187 Days

* TYPE－D was removed from S07 to cooling pond.

** TYPE－D was reloaded in the S17 position

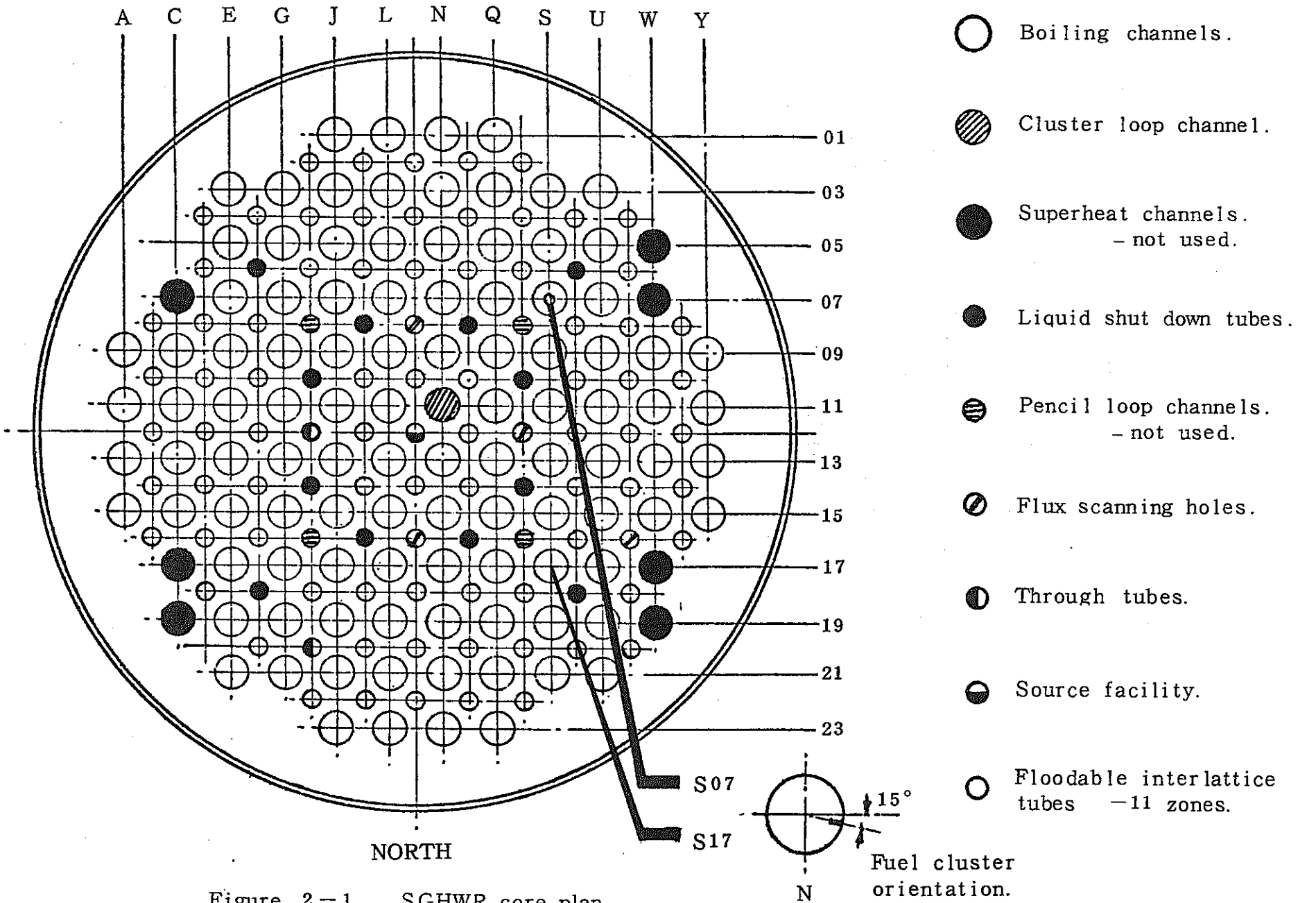


Figure. 2 — 1 SGHWR core plan

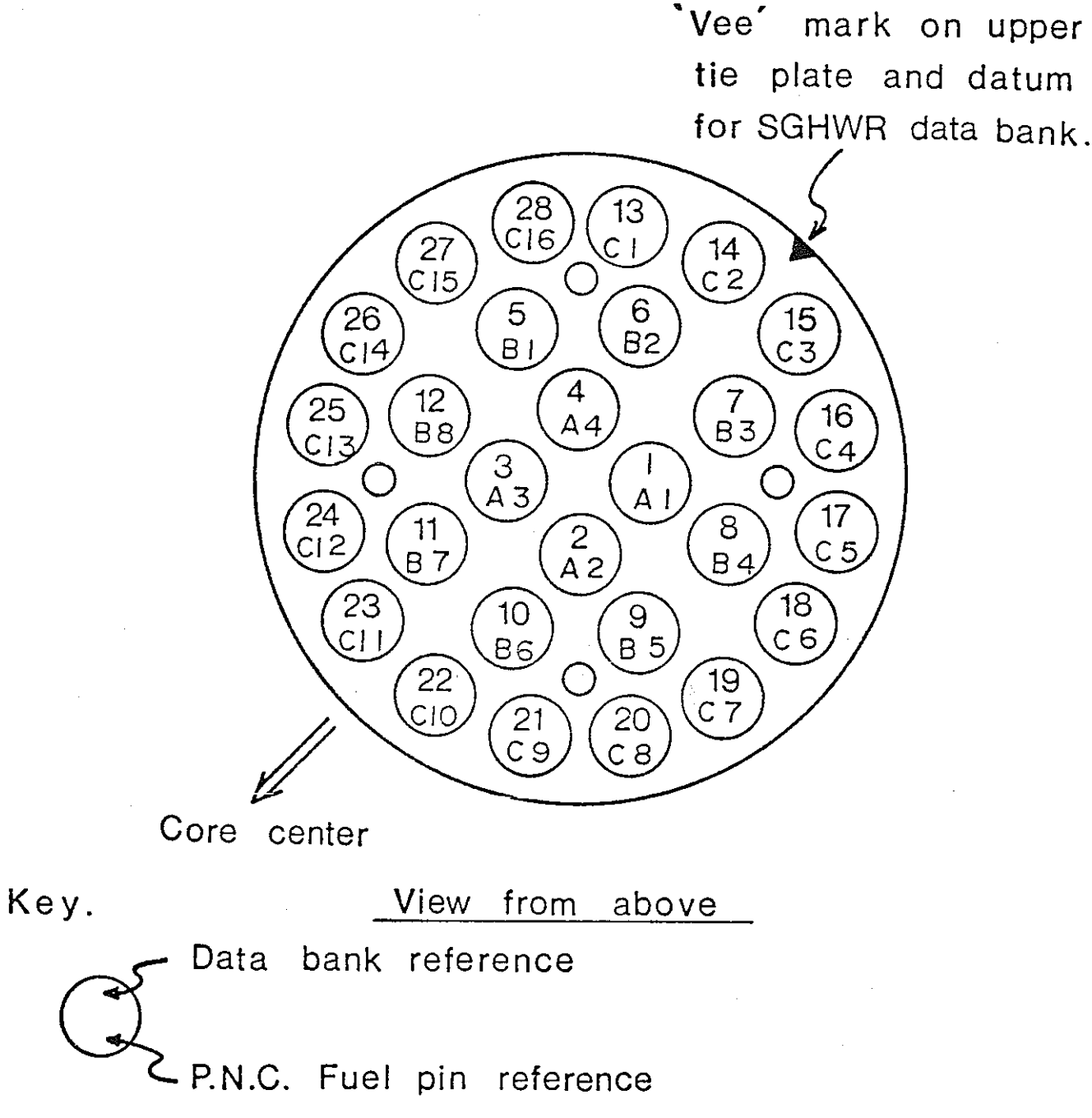


Figure 2 – 2 Fuel pin references & cluster location.

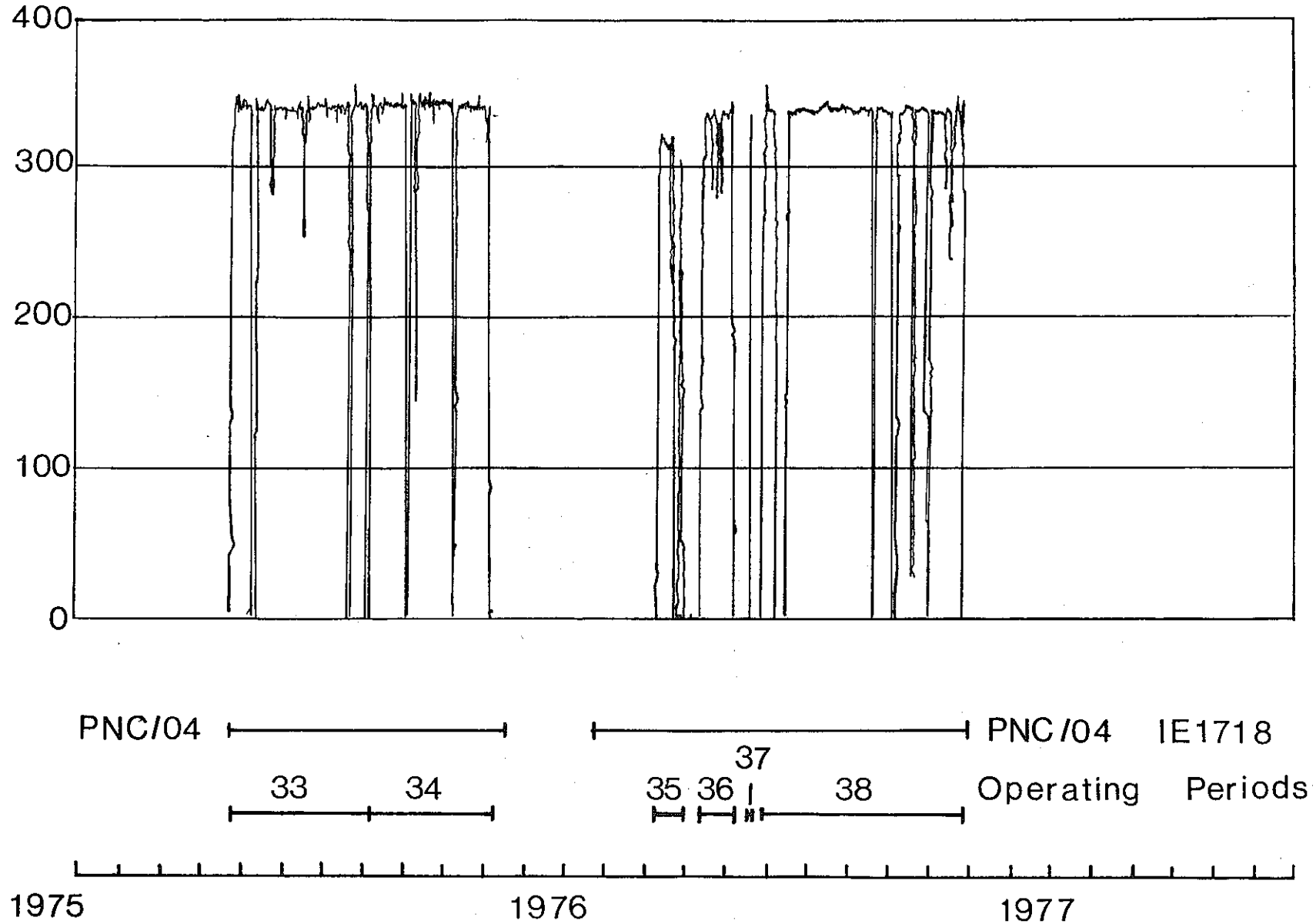


Figure 2－3 Reactor operating power during irradiation

2.5 熱水力条件

SGHWRは重水減速軽水冷却炉であり，集合体は圧力管の軽水流れにより冷却される。照射期間中の冷却材条件として以下の4項目が実測されている。

(1) チャンネル流量

(2) 一次系圧力（南側蒸気ドラム）

(3) チャンネル入口サブクーリング

(4) 冷却材の化学的性質

2.5.1 チャンネル流量

チャンネル流量は毎週一回の測定結果が報告されている。設計流量15.5 kg／secに対し14.5～17.5 kg／secの範囲で変動している。測定結果をFig.2－4に示す。このチャンネル流量はバイパス流（計算値で1.3 kg／sec）を含んでいる。

2.5.2 一次系圧力

一次系圧力は南側蒸気ドラムで毎日測定され，報告されている。測定結果をFig.2－5に示す。蒸気ドラム圧力は定格運転中ほぼ6.55 MN／m^2の一定圧力に保たれている。ただし，原子炉出力に原子炉停止等の大巾な変化があった場合にはドラム圧力もこれに伴なって変動している。

2.5.3 チャンネル入口サブクーリング

チャンネル入口サブクーリングは定格運転中ほぼ42 KJ／kg（42～44程度の変動）の一定値に保たれていた。測定値は1回／週で報告されている。入口サブクーリングの測定値をFig.2－6に示す。

2.5.4 冷却材の化学的性質

一次冷却材の化学的分析結果として月毎に電気伝導度とCl，Si，Cu，Fe，Oの5元素の濃度について報告されている。その結果をTable 2－2およびFig.2－7並びにFig.2－8に示す。

Table 2 – 2 Summary of primary circuit coolant chemistry conditions

Month	IMPURITY											
	Conductivity $\mu\Omega^{-1}$ m^{-1}		Chloride mg tonne^{-1}		Silica mg tonne^{-1}		Copper mg tonne^{-1}		Iron mg tonne^{-1}		Oxygen cc kg^{-1}	
	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max
October 1975	39	69	30	70	580	920	24.1	47.5	62.5	390		
November	31	60	20	40	470	650	24.9	34	40	151		
December	25	70	20	70	430	590	31.5	43.2	46.9	68.5		
January 1976	24	70	20	30	510	950	27.4	31.3	40.3	54		
February	24	35	20	70	365	510	26.7	32.8	47.0	144		
March	30	68	20	40	330	480	23.3	28.7	101*	890*		
April	26	73	20	40	310	550	20.7	36.5	32.5	115		
May	21	31	20		250	260	19.5	21.2	46.8	87.9		
June												
July												
August												
September	39	87	20	20	800	1600	24.5	34.4	71.3	192	0.044	0.06
October	11		20	20	500	650	21.4	29.8	30.5	88	0.049	0.055
November	31	49	20	20	360	430	29.2	35.4	25.0	33.2	0.07	
December	25	32	20	20	330	400	24.0	33.2	33.4	87.2	0.034	
January 1977	34	140	20	50	400	470	29.1	84.2	53.4	663	0.066	
February	45	160	30	60	475	800	26.6	37.5	40.0	229	0.06	
March	37	160	20	80	750	3500	25.9	36.9	93.3	715	0.07	
April	24	43	20	20	360	450	17.5	120.0	58.6	102	0.075	

*Affected by taking Feedheater 2 off line

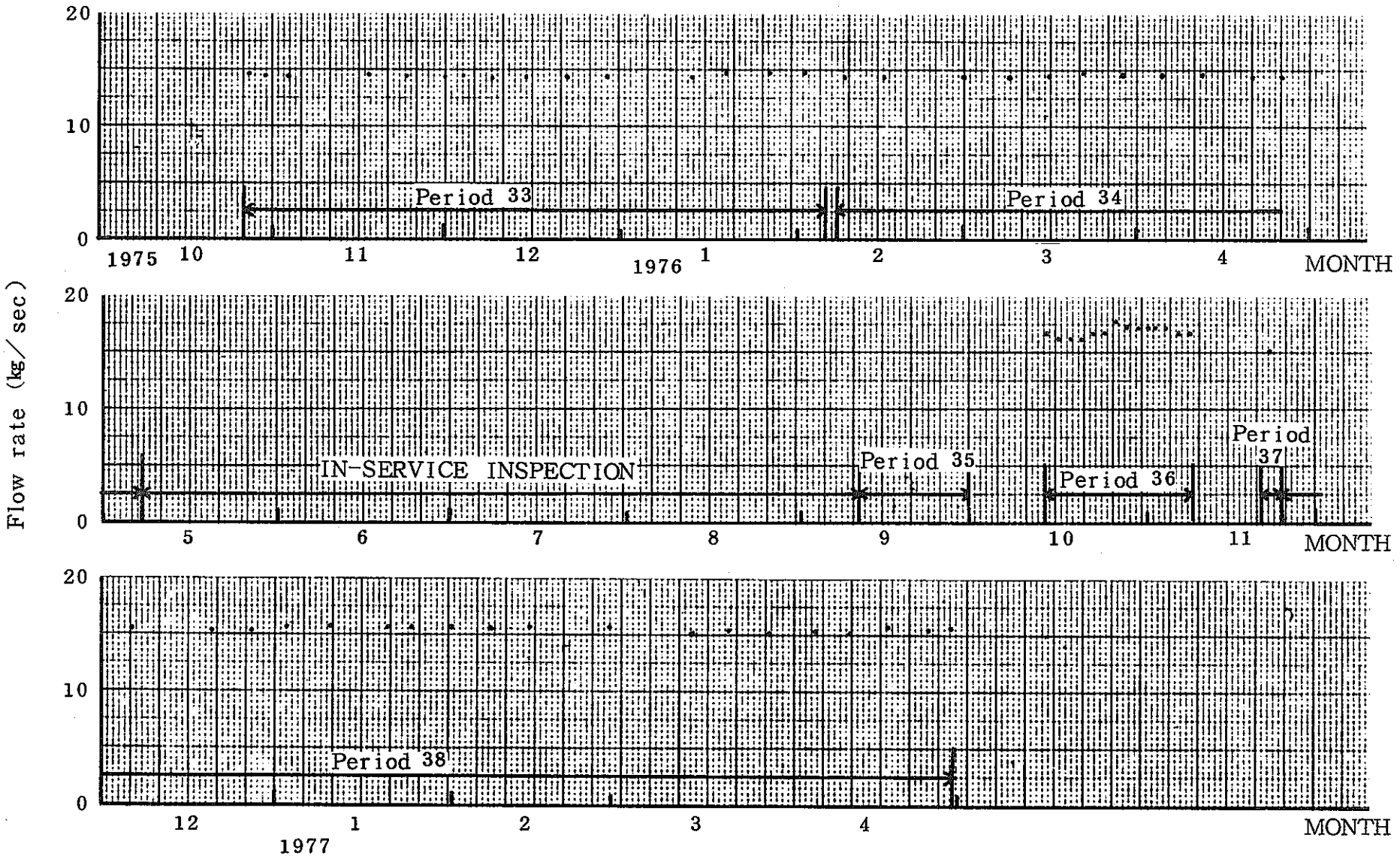


Figure 2－4 Channel flow rate (Channel S07／S17)

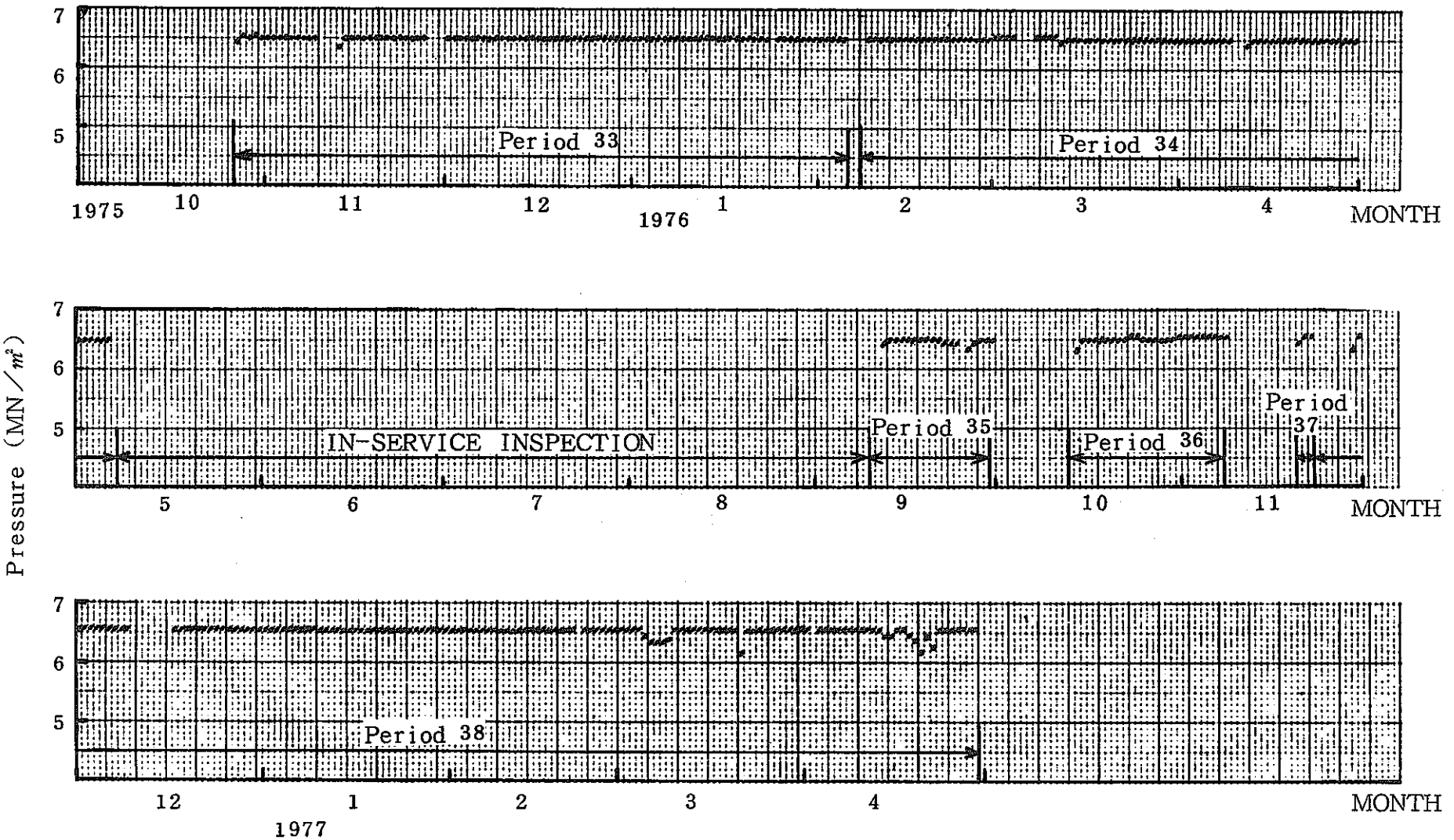


Figure 2－5 North drum steam pressure

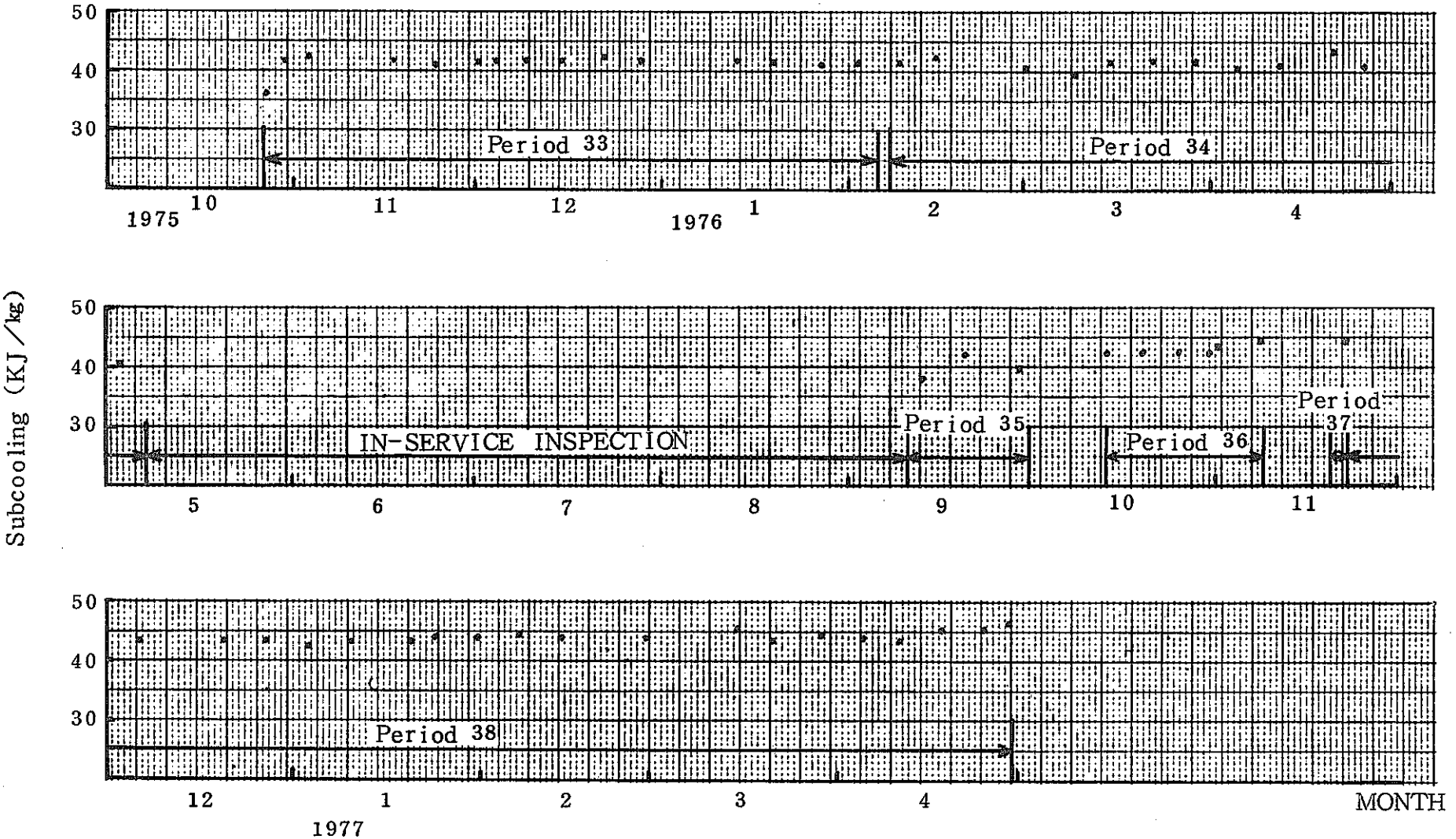


Figure 2－6 Subcooling at inlet

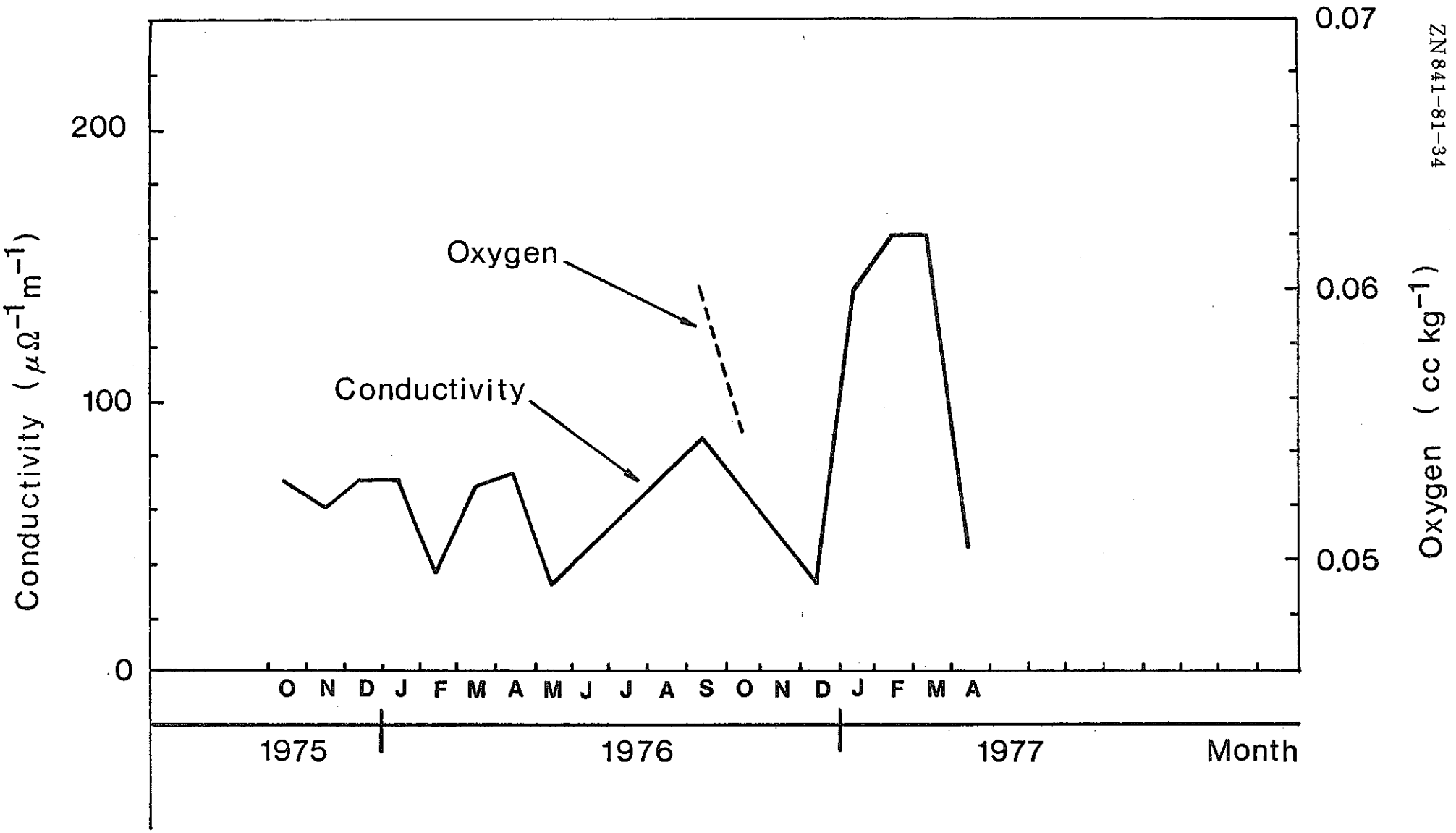


Figure 2－7 Primary circuit coolant chemistry condition－conductivity and oxygen concentration

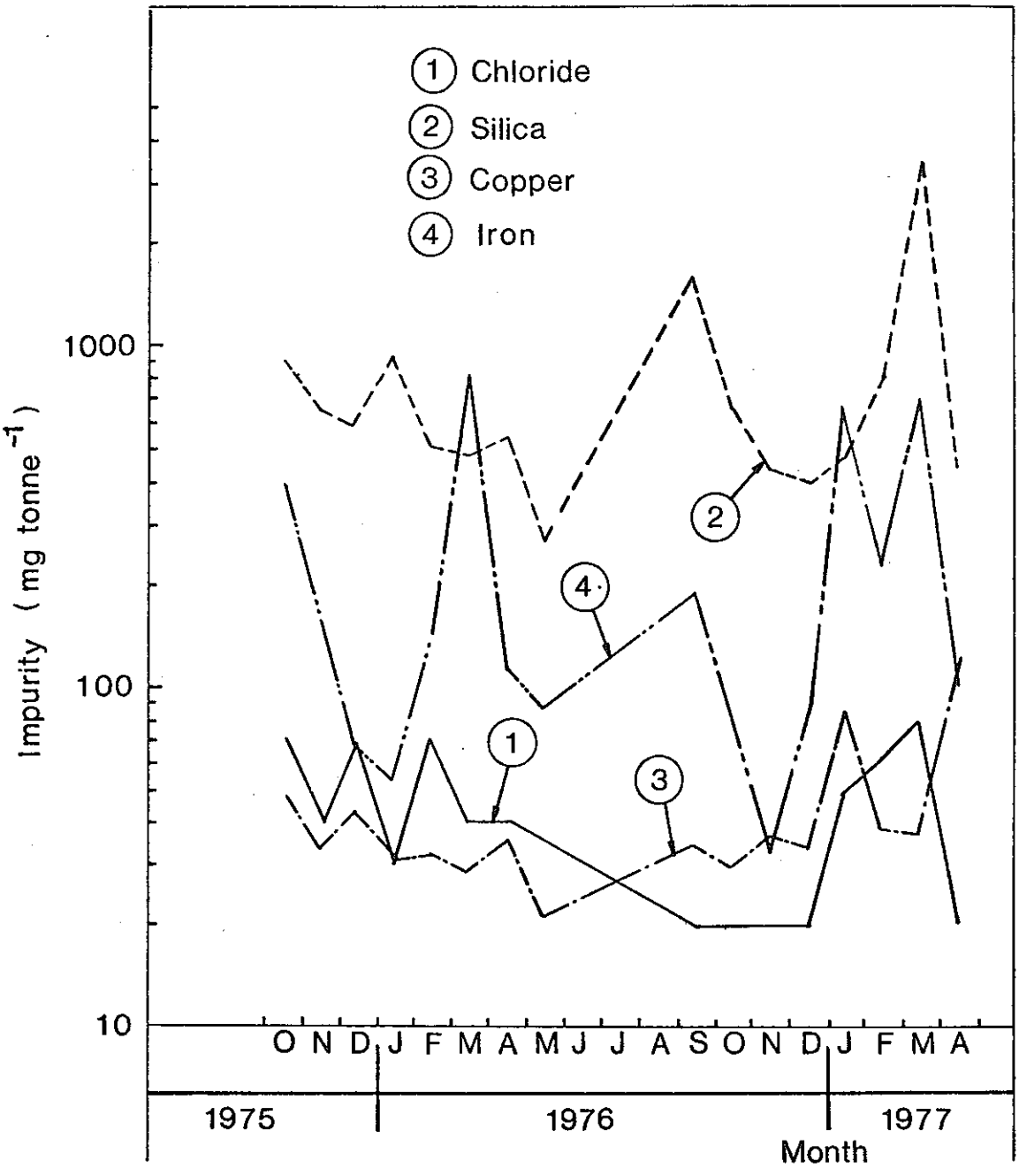


Figure 2 – 8 Summary of primary circuit coolant chemistry conditions

3. 燃料照射履歴

3.1 出力履歴

3.1.1 集合体出力

燃料集合体出力（チャンネル出力）は1回／週の頻度でクオリティメータ測定結果として報告されている。

この結果を照射期間にわたってFig.3－1に示す。チャンネル出力は照射初期において約2.75MWのレベルであったが，燃焼とともに少しづつ減少し，S17位置での照射期間では約2.25MWの出力レベルを保っている。

このチャンネル出力測定は±4％（1σ）の測定誤差を含んでいる。

また，チャンネル出力として，核分裂出力（Pf），被覆管を通して熱の形で冷却材に伝わる出力（Pc）およびクオリティメータ測定による出力（Pq）があるが，SGHWRでは上記3つの量の間に以下の関係のあることがわかっている。

$$Pf / Pq = 1.044$$

$$Pf / Pq = 0.988$$

3.1.2 集合体内チルト・ファクタ

(1) クラスタ・チルト（Cluster Tilt）

S07およびS17はSGHWR炉心中心より3列目に位置し，ここでは若干の中性子束の炉心半径方向勾配があり，炉心中心に近い側の燃料要素は反対側の燃料要素に比し出力が大き目になっている。このような燃料集合体を横切る中性子束勾配（発熱勾配）をクラスタ・チルトと呼んでいる。このクラスタ・チルトをCORE STATE* 毎にTable3－1およびFig.3－2に示す。クラスタ・チルトは集合体断面で最も大きい線出力燃料要素の出力と断面平均線出力との比で表わされている。

(2) チルト・ファクタ（Tilt Facter）

集合体の一断面内における平均線出力に対する各燃料要素の線出力の比を各燃料要素のチルト・ファクタとして定義しSGHWRでペリオド毎に算出しした結果が報告されている。これを28本全燃料要素に関しTable 3－2に示す。

またペリオド33に関しチルト・ファクタをFig.3－3にも示した。Table 3－2から照射期間中最も出力レベルの高かった燃料要素は23番（C11）ピンであったことがわかる。

3.1.3 出力ピーキング係数

軸方向出力ピーキング係数およびローカルピーキング係数（Local Peaking係数）についてCORE STATE毎に報告されている。これらをTable 3－1にクラスタ・チルトと共

＊ 附録……参照

に示す。またこれらの時間変化をFig. 3 － 2(1)に示す。

また更に線出力履歴とチルト・ファクタから逆算して求めたローカル・ピーキング係数をTable 3 － 3およびFig. 3 － 2(2)に示す。

軸方向出力ピーキング係数はS 07 位置で1.294 から1.240 まで減少したがS 17 位置に移してから再び1.288 まで増大し，S 07 位置と同じ傾向で減少している。

3.1.4　燃料要素線出力

燃料要素28本中で最も高い出力を経験したC11 ピン（No.23）の線出力履歴をFig.3 － 4に示す。出力は集合体出力と同様に，燃焼と共に減少しており，S17 位置では出力は更に低下している。C11 ピンが照射初期に経験した最大線出力は490 Watts／*cm*であった。

内，中および外層燃料要素から炉心に近い側の燃料としてそれぞれA2（No.2），B6(No.10)およびC11（No.23)を選び，これら燃料要素の軸方向出力分布をS 07照射での最初（Period 33，step 1）と最後（Period 34，step 17）およびS17 照射での最初（Period 35，step 1）と最後（Period 38, step 28）についてFig.3 － 5からFig.3－11までに示した。

またこれら内層，中間層および外層を代表するA2, B6, C11 の線出力履歴の比較をFig. 3 － 12に示す。

Table 3 － 4にはA 2, B 6およびC 11 ピンの線出力とローカル・ピーキング係数より求めた各リングの平均線出力（軸方向ピーク位置）と集合体平均線出力を示す。

3.1.5　出力上昇パターン

SGHWR の運転の出力上昇パターンについて2時間毎の運転データからまとめた。各Periodのスタートアップ時における出力上昇とPeriod の途中の出力上昇とに分けてそれぞれFig. 3 － 13およびFig.3 － 14 に示す。

Period のスタートマップ時に関し特に出力の一番大きかったピンC 11 （No.23）の出力上昇速度をFig. 3 － 15 に示した。

TYPE－D燃料集合体が経験した出力上昇速度はおよそ以下の通りである。

Period	33	スタートアップ時～	1.3	kW／ft／hr	（0～13	kW／ft）
〃	34	〃	～4.2	〃	（0～13	〃 ）
〃	35	〃	～0.5	〃	（0～ 8	〃 ）
〃	36	〃	～1.3	〃	（0～ 9	〃 ）
〃	37	〃	～0.9	〃	（0～11	〃 ）
〃	38	〃	～2.6	〃	（0～ 9	〃 ）

「ふげん」炉運転に関するPCIOMRは出力レベルを3種類に分け以下のように出力上昇の制限を課している。

(1) 低出力領域（8 Kw／ft 以下）　　0.075 Kw／ft／*min* 以下

(2) 中間出力領域（8 Kw／ft ～ 12 Kw／ft） 0.06 Kw／ft／hr以下

(3) 高出力領域（12 Kw／ft 以上） 0.04 Kw／ft／hr以下

この「ふげん」での出力上昇率制限をSGHWR出力上昇率と比較するためにFig 3 －15に記入した。8 Kw／ft 以下では「ふげん」の制限値以内の出力上昇率であるが8 ～ 12 Kw／ft の中間出力領域については明らかに「ふげん」の制限値を上まわっている。最高では～3.3Kw／ft／hrにまで達している。12Kw／ft以上の高出力領域でも0.5～1.0 Kw／ft／hrの出力上昇率がみうけられ「ふげん」の制限値を大巾に上まわった照射試験となっている。

TYPE －D燃料集合体が経験した出力上昇速度はおよそTable 3 － 5 に示す通りである。

3.2 燃 焼 度

集合体燃焼度およびペレットピーク燃焼度の履歴をFig. 3－16 に示す。燃焼度は先に述べた核分裂出力（Pf）に基づいて算出されている。

集合体燃焼度	S07 位置	3,590 MWd／tM
	S17 〃	2,830 MWd／tM
	合 計	6,420 MWd／tM
燃料ペレット最	S07 位置	5,920 MWd／tM
高燃焼度(C11)		4,650 MWd／tM
	合 計	10,570 MWd／tM

集合体内各燃料要素の照射終了時燃焼度の軸方向分布をTable 3－6 に示す。またA2, B6およびC11 ピンに関しこの燃焼度分布をFig. 3 － 17 に示す。

Table 3 - 1 Form factors. (peak/mean values)

Core state		Axial	Radial	Cluster tilt
(s07)	64	1.294	1.243	1.027
	65	1.275	1.231	1.027
	66	1.261	1.225	1.027
	67	1.255	1.218	1.022
	68	1.250	1.212	1.022
	69	1.240	1.206	1.022
(s17)	70	1.288	1.202	1.023
	71	1.291	1.196	1.019
	72	1.283	1.194	1.019
	73	1.301	1.187	1.012
	74	1.289	1.184	1.012
	75	1.278	1.177	1.012
	76	1.268	1.171	1.012
	77	1.257	1.167	1.012
	78	1.248	1.161	1.012

Table 3－2 Tilt factor of each pin

燃料要素番号	Period No.					
	33	34	35	36	37	38
1	0.9938	0.9946	0.9999	0.9948	0.9955	1.0033
2	1.0042	1.0030	1.0063	1.0012	0.9974	1.0006
3	1.0062	1.0054	1.0001	1.0052	1.0045	0.9967
4	0.9958	0.9970	0.9937	0.9938	1.0026	0.9994
5	0.9978	0.9994	0.9875	1.0027	1.0096	0.9956
6	0.9854	0.9886	0.9873	0.9924	1.0007	1.0021
7	0.9834	0.9862	0.9935	0.9885	0.9937	1.0059
8	0.9918	0.9922	1.0061	0.9909	0.9885	1.0071
9	1.0022	1.0006	1.0125	0.9973	0.9904	1.0044
10	1.0146	1.0114	1.0127	1.0076	0.9993	0.9979
11	1.0166	1.0138	1.0065	1.0115	1.0063	0.9941
12	1.0082	1.0078	0.9939	1.0091	1.0115	0.9929
13	0.9809	0.9857	0.9776	0.9921	1.0059	1.0002
14	0.9751	0.9803	0.9809	0.9861	0.9988	1.0048
15	0.9731	0.9779	0.9871	0.9821	0.9918	1.0086
16	0.9752	0.9788	0.9952	0.9809	0.9861	1.0111
17	0.9810	0.9830	1.0041	0.9827	0.9825	1.0119
18	0.9898	0.9898	1.0123	0.9870	0.9815	1.0109
19	1.0001	0.9981	1.0187	0.9933	0.9834	1.0083
20	1.0104	1.0067	1.0222	1.0007	0.9878	1.0043
21	1.0191	1.0143	1.0224	1.0079	0.9941	0.9998
22	1.0249	1.0197	1.0191	1.0139	1.0012	0.9952
23	1.0269	1.0221	1.0129	1.0179	1.0082	0.9914
24	1.0248	1.0212	1.0048	1.0191	1.0139	0.9889
25	1.0190	1.0170	0.9959	1.0173	1.0175	0.9881
26	1.0102	1.0102	0.9877	1.0130	1.0185	0.9891
27	0.9999	1.0019	0.9813	1.0067	1.0166	0.9917
28	0.9896	0.9933	0.9778	0.9993	1.0122	0.9957

The values in period 33 were shown again in Figure 3－3

Table 3 – 3 Local peaking factor

	Period No.											
	33		34		35		36		37		38	
	B *	E **	B	E	B	E	B	E	B	E	B	E
Inner ring	0.586	0.617	0.622	0.651	0.661	0.661	0.662	0.662	0.662	0.662	0.689	0.717
Intermedidte ring	0.709	0.749	0.742	0.759	0.764	0.764	0.777	0.777	0.784	0.784	0.801	0.802
Outer ring	1.249	1.220	1.222	1.210	1.203	1.203	1.199	1.199	1.192	1.192	1.180	1.171

* B : Biginning of period

** E : End of period

Table 3 – 4 Average linear heat rating of each ring

(Axial peak linear heat rate podition)

	Period No.											
	33		34		35		36		37		38	
	B*	E**	B	E	B	E	B	E	B	E	B	E
A 2	225	220	225	230	180	180	190	190	190	190	215	210
Inner. ring. ave.	224	219	224	229	179	179	190	190	190	190	215	210
B 6	275	270	270	270	210	210	225	225	225	225	250	235
Interm. ring. ave.	271	266	267	267	207	207	223	223	225	225	250	235
C 11	490	445	450	435	330	330	350	350	345	345	365	340
Outer. ring. ave.	477	433	440	426	326	326	344	344	342	342	368	343
Assembly. ave.	382	355	360	352	271	271	287	287	287	287	312	293

* B : Beginning of period

** E : End of period

Table 3－5 Up－rating of linear heat ratings (Pin C11)

*	Up ratings of linear heat ratings (kW/ft/hr)			
	Total	0～8.0	8.0～12.0	＞12.0
Period 33 start up	(0～13.0 kW/ft) 1.3	1.1	1.8	0.4
34	(5～13.0 kW/ft) 0.92	4.2	4.2	0.04
35	(0～8.0 kW/ft) 0.5	0.5	—	—
36	(0～9.0 kW/ft) 1.3	1.3	0.6	—
37	(0～11.0 kW/ft) 0.9	1.42	0.38	—
38	(0～9.0 kW/ft) 2.6	2.7	2.5	—

* Range of linear heat rating (kW/ft)

Table 3 – 6 Cluster burn up distribution at discharge

IRRADIATION DISTRIBUTION (MWD/TONNE HEAVY METAL OXIDE)

	PIN NUMBER 1	2	3	4	5	6	7
SEGMENT							
1	1553.54	1561.15	1561.03	1553.47	1810.32	1801.39	1801.43
2	3141.96	3157.15	3156.90	3141.71	3657.20	3639.50	3639.69
3	4037 45	4056.31	4056.39	4037.04	4699.72	4677.22	4677.55
4	4455.44	4476.62	4476.07	4454.89	5197.08	5172.42	5172.37
5	4599.11	4620.83	4620.18	4598.46	5384.91	5359.54	5360.05
6	4614.51	4636.32	4635.67	4613.88	5418.06	5392.50	5393.02
7	4441.98	4463.05	4462.47	4441.41	5228.46	5203.70	5204.16
8	4023.92	4048.10	4047.63	4028.45	4753.23	4730.61	4731.00
9	3233.51	3248.96	3248.62	3233.16	3825.87	3807.58	3807 86
10	1888.74	1897.85	1897.69	1888.58	2243.36	2232.53	2232.65
MEAN	3599.51	3616.68	3616.27	3599.10	4221.82	4201.70	4202.03

	8	9	10	11	12	13	14
SEGMENT							
1	1810.42	1819.39	1828.31	1828.27	1819.28	3060.51	3054.30
2	3657.76	3675.66	3693.36	3693.17	3675.10	5967.48	5955.19
3	4700.70	4723.56	4746.07	4745.74	4722.57	7511.71	7496.18
4	5198.43	5223.56	5248.22	5247.77	5222.20	8211.08	8194.21
5	5386.49	5412.43	5437.81	5437.29	5410.84	8452.89	8435.71
6	5419.63	5445.73	5471.29	5470.77	5444.15	8468.36	8451.22
7	5229.85	5255.09	5279.86	5279.39	5253.69	8169.29	8152.84
8	4754.37	4777.33	4800.00	4799.62	4776.24	7463.62	7448.69
9	3626.68	3845.26	3863.55	3863.28	3844.44	6085.64	6073.91
10	2243.72	2254.69	2265.52	2265.40	2254.32	3659.55	3652.42
MEAN	4222.30	4243.27	4263.40	4263.07	4242.28	6705.04	6691.46

Table 3 – 6 Continued

IRRADIATION DISTRIBUTION (MWD/TONNE HEAVY METAL OXIDE)

	PINN UMBER						
	15	16	17	18	19	20	21
SEGMENT							
1	3054.02	3059.92	3070.90	3085.37	3101.11	3115.73	3127.01
2	5954.71	5966.11	5987.64	6016.05	6046.99	6075.75	6097.99
3	7495.54	7509.92	7537.12	7573.02	7612.11	7848.43	7678.58
4	8193.61	8209 37	8239.09	8278.26	8320.88	8360.51	8391.08
5	8435.20	8451.45	8482.00	8522.17	8565.86	8606.41	8637.68
6	8450.73	8467.05	8497.60	8537.76	8581.42	8621.23	8653.12
7	8152.43	8168.13	8197.53	8236.18	8278.18	8317.14	8347.14
8	7443.34	7462.67	7489.43	7524.68	7562.93	7598.39	7625.66
9	6073.70	6085.36	6107.13	6135.66	6166.84	6195.35	6217.39
10	3652.36	3659.37	3672.38	3689.41	3707.87	3724.25	3738.04
MEAN	6691.07	6703.93	6728.07	6759.85	6794.39	6826.45	6851.16
	22	23	24	25	26	27	28
SEGMENT							
1	3133.22	3133.43	3127.60	3116.62	3102.15	3086.41	3071.79
2	6110.27	6110.75	6099.36	6077.82	6049.42	6018.46	5989.70
3	7692.13	7692.76	7678.36	7651.16	7615.27	7576.18	7539.80
4	8407.96	8408.55	8392.79	8363.07	8323.91	8281.27	8241.65
5	8654.88	8655.39	8639.12	8608.59	8568.43	8524.71	8484.15
6	8670.27	8670.71	8654.41	8623.88	8583.72	8540.07	8499.55
7	8363.59	8364.02	8348.31	8318.90	8280.23	8238.22	8199.25
8	7640.63	7640.96	7626.63	7599.81	7564.62	7526.36	7490.92
9	6229.43	6229.64	6217.97	6196.20	6167.66	6136.69	6103.00
10	3745.16	3745.23	3738.22	3725.21	3708.18	3889.72	3672.64
MEAN	6864.73	6865.13	6852.27	6828.11	6796.35	6761.80	6729.73

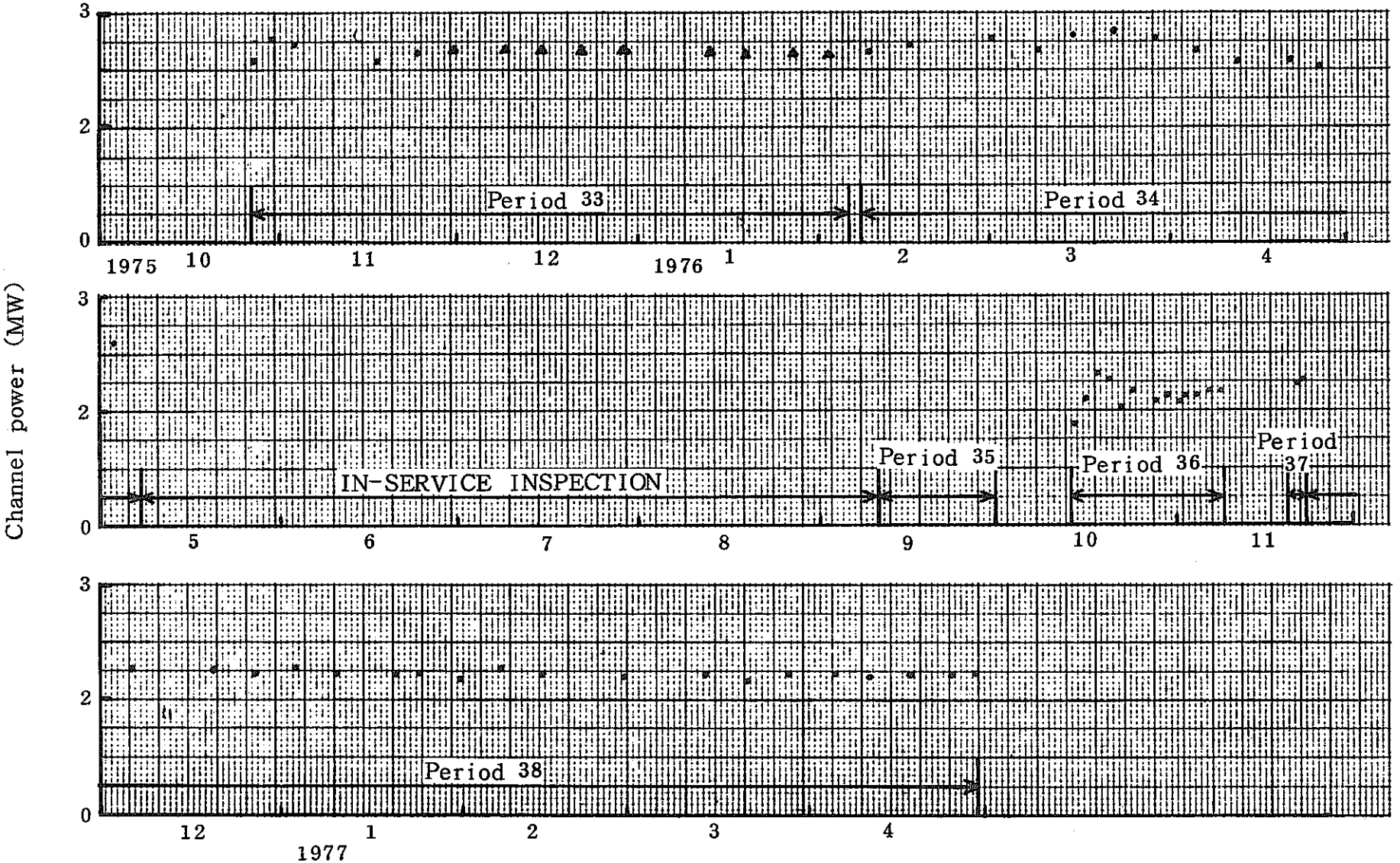


Figure 3 – 1 Channel power (Assembly power)*

*Valve measured with quality meater

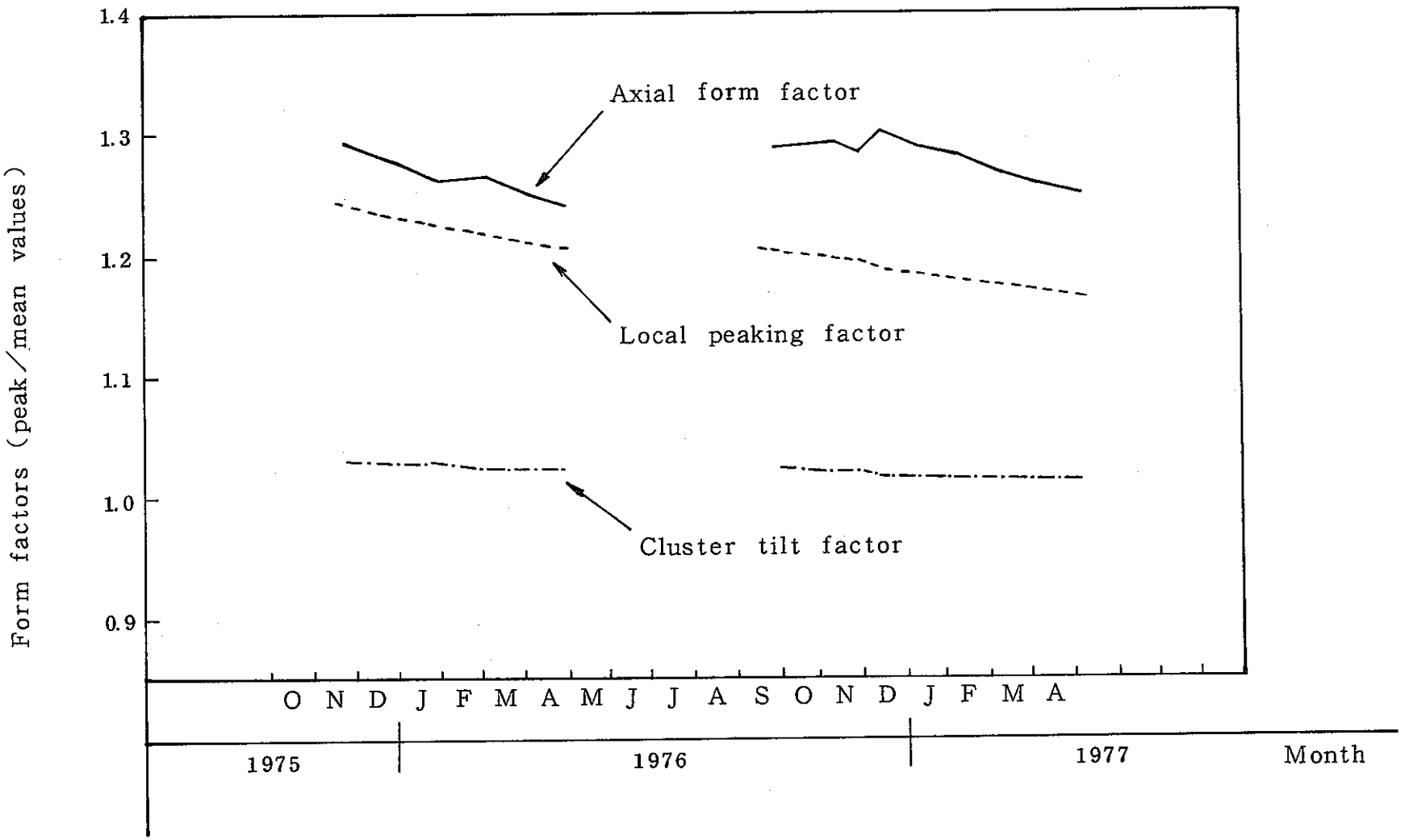


Figure 3 — 2(1) Distribution of peaking factors.

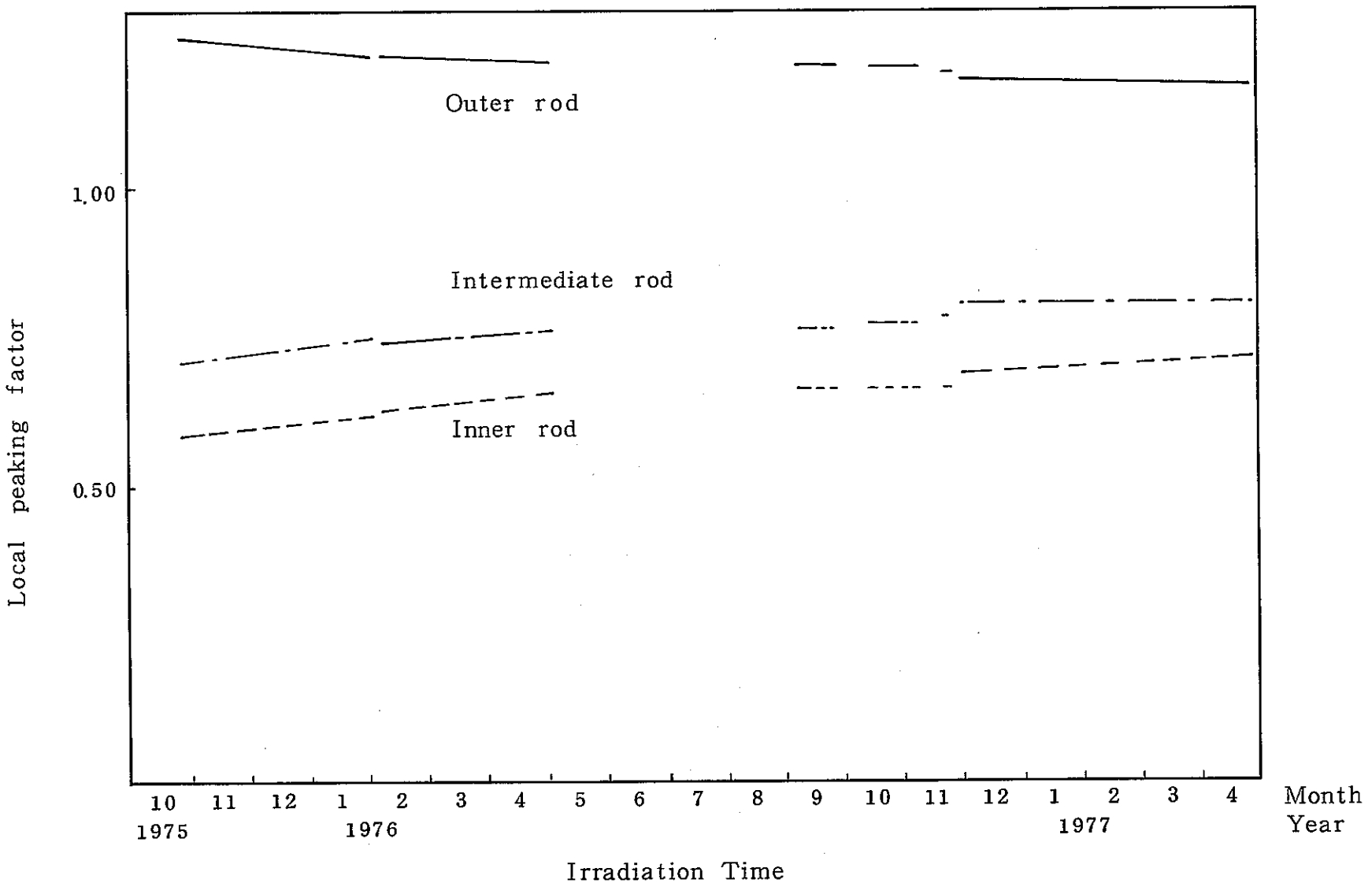


Figure 3 – 2(2) Local peaking factor change with irradiation time.

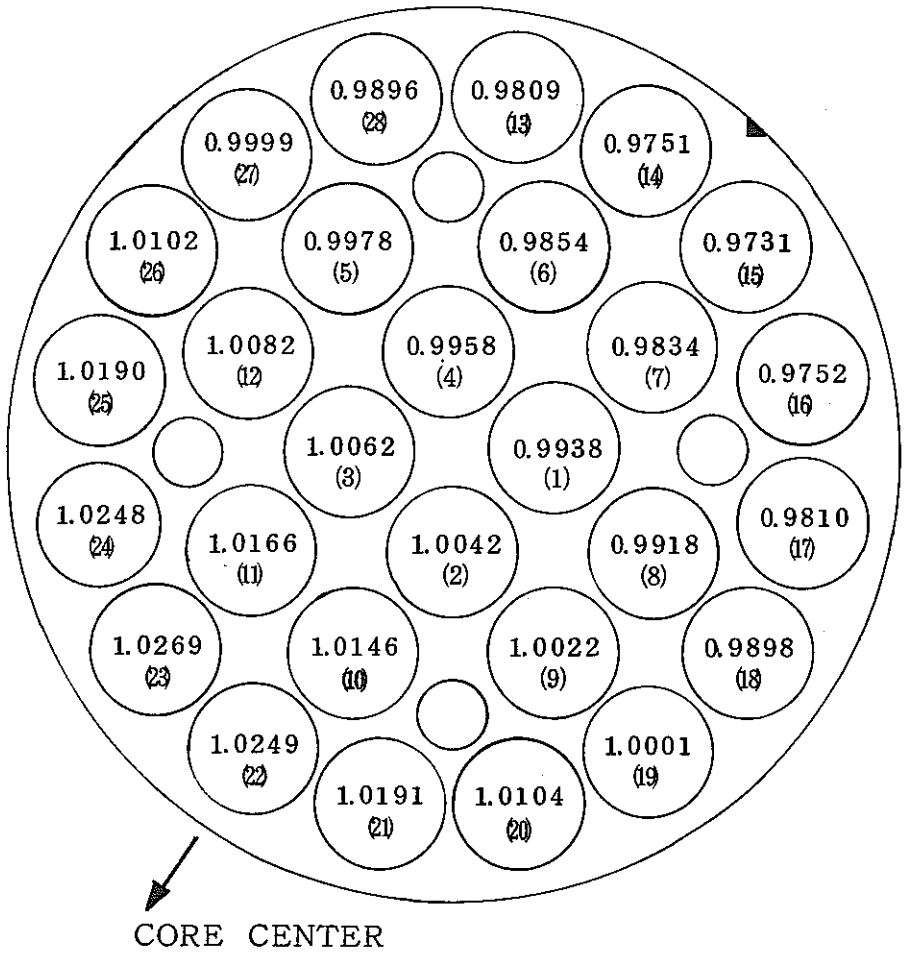


Figure 3－3 Tilt factor of each fuel element (Period 33)

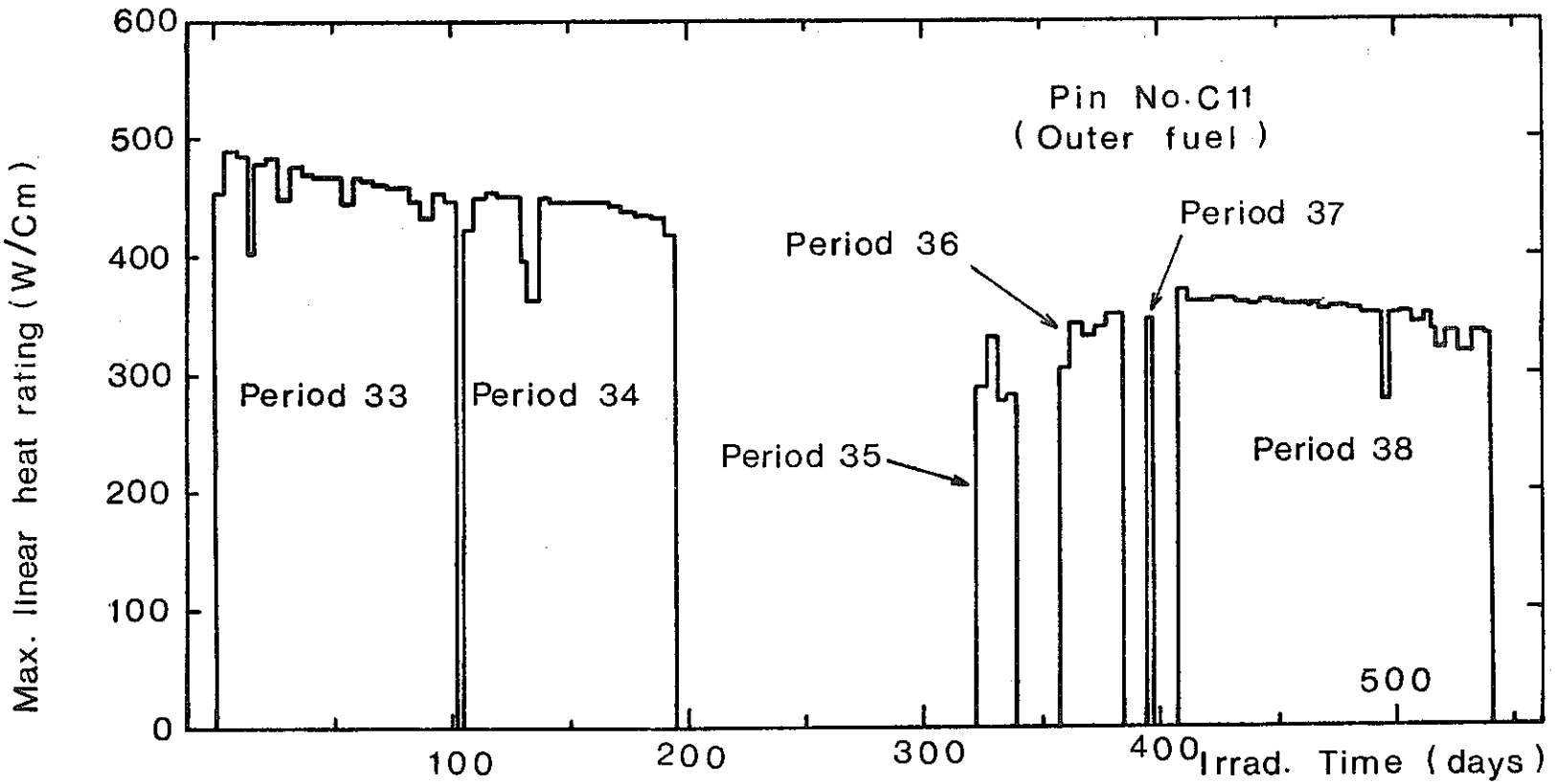


Figure 3 – 4 Peak linear heat rating of Pin No C11 (Outer fuel rod)

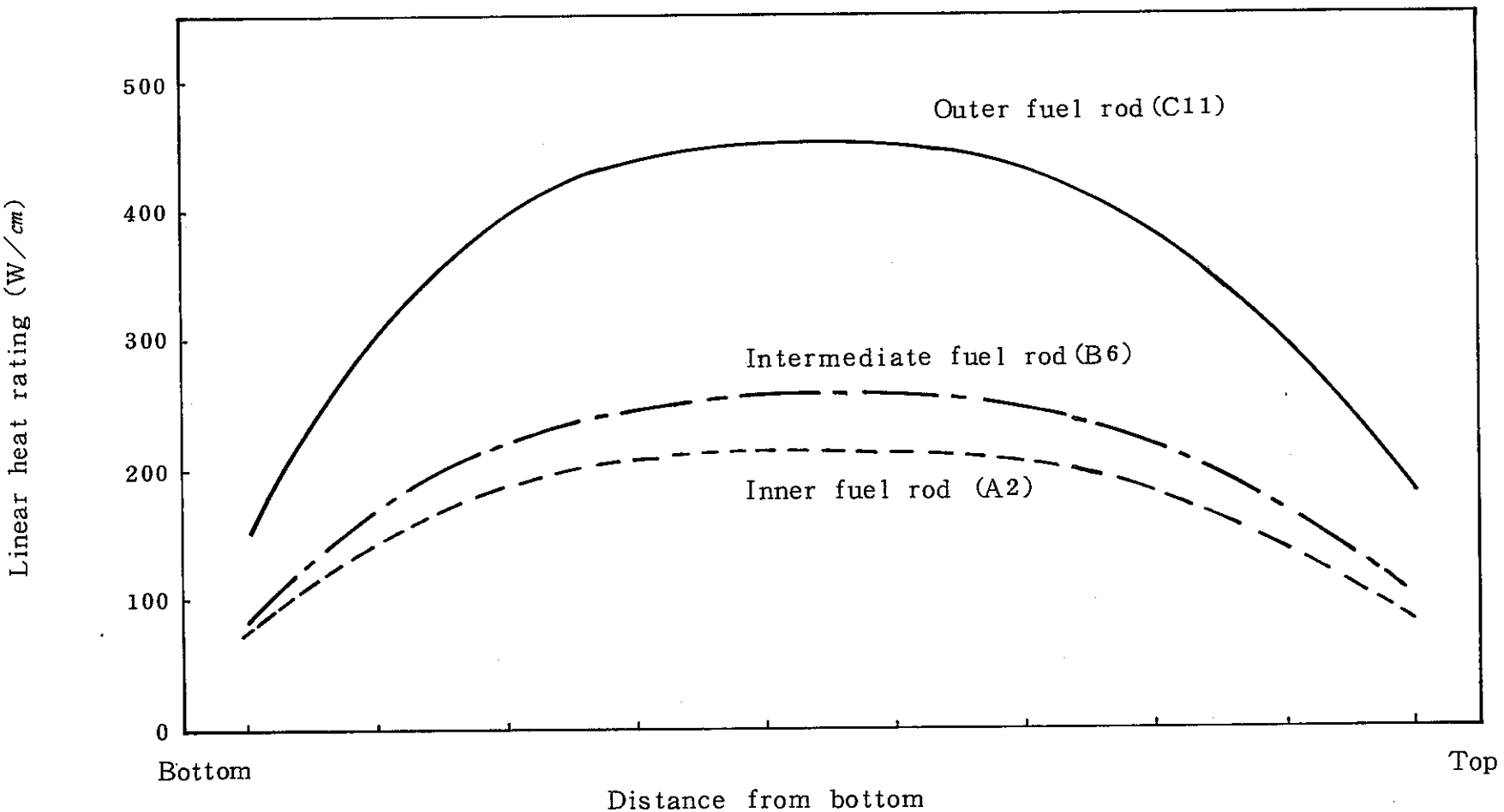


Figure 3 – 5 Axial linear heat rating distribution ($\begin{matrix}\text{period } 33\\ \text{step } 1\end{matrix}$)

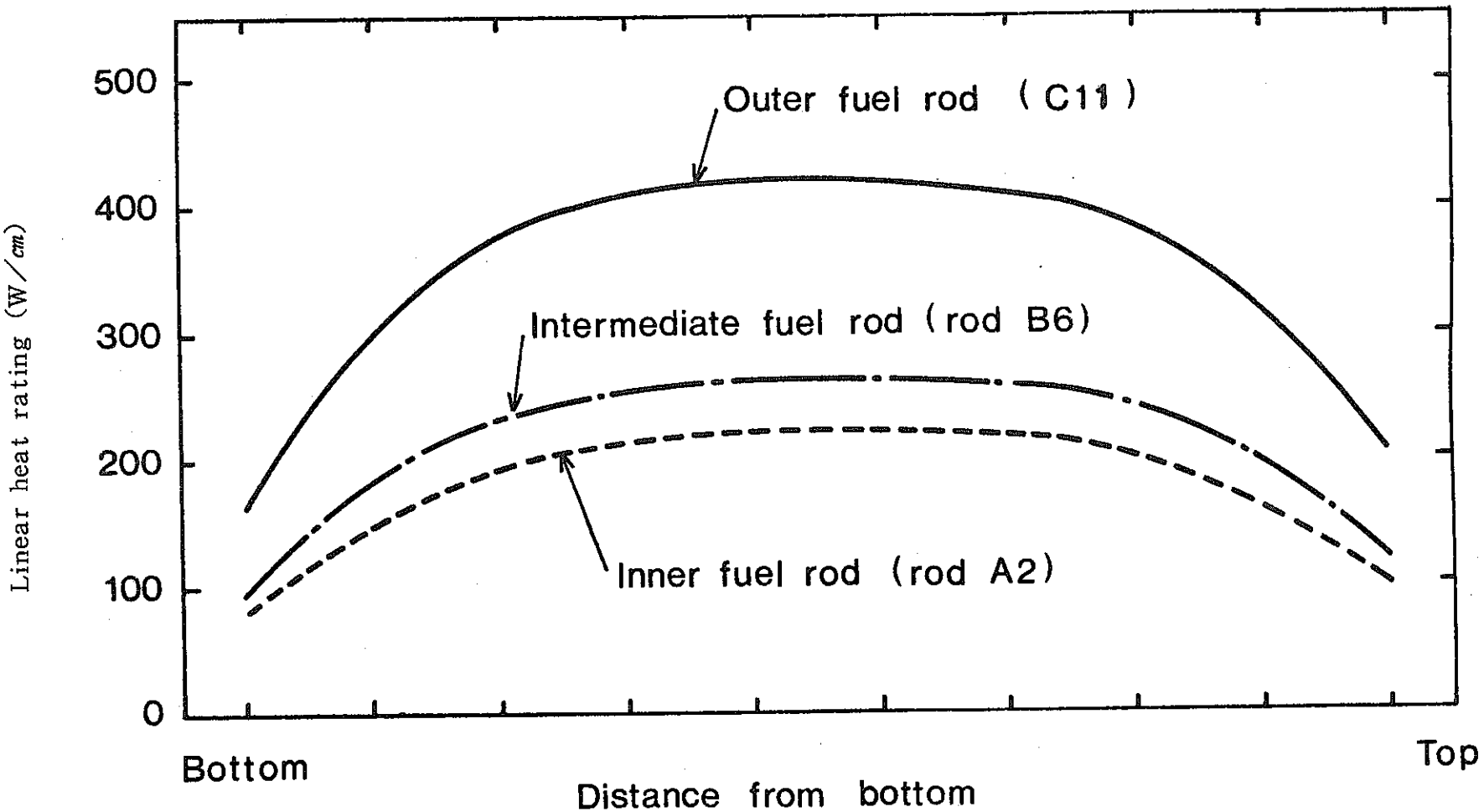


Figure 3 – 6 Axial linear heat rating distribution (period 34 step 17)

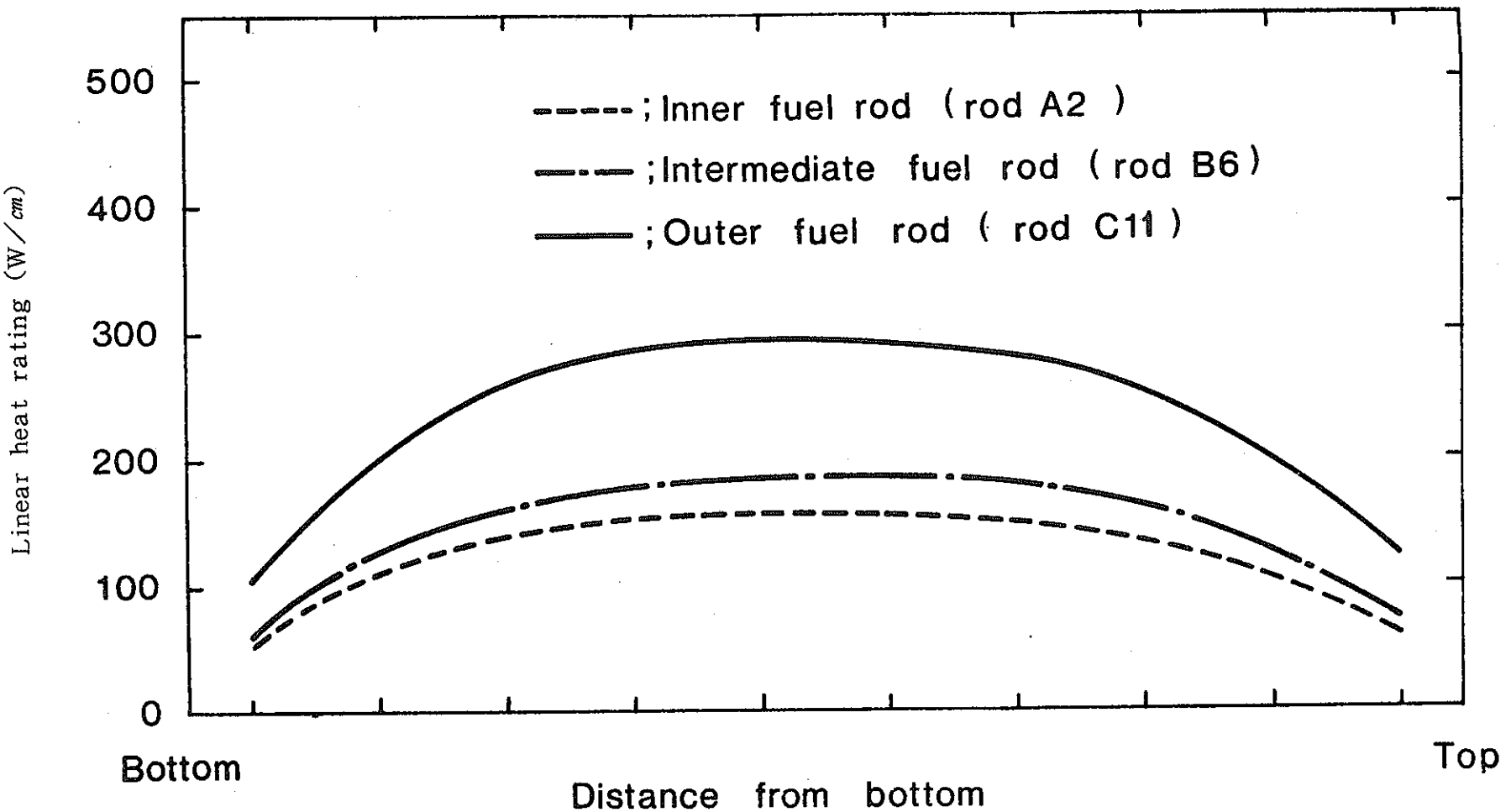


Figure 3 – 7 Axial linear heat rating distribution ($^{\text{period}\ 35}_{\text{step}\ \ 1}$)

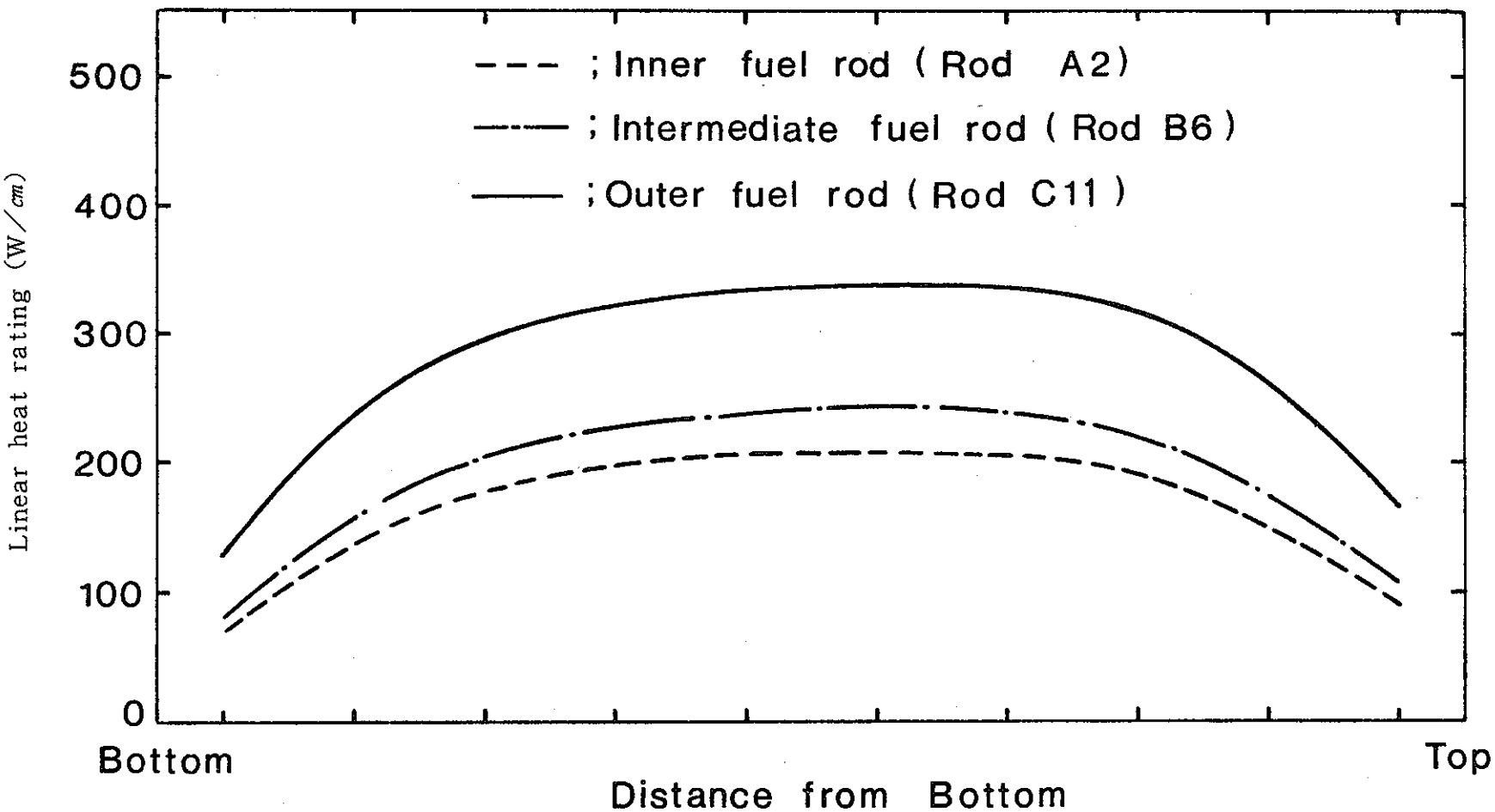


Figure 3 – 8 Axial linear heat rating distribution ($\begin{matrix}\text{period } 38\\ \text{step } 28\end{matrix}$)

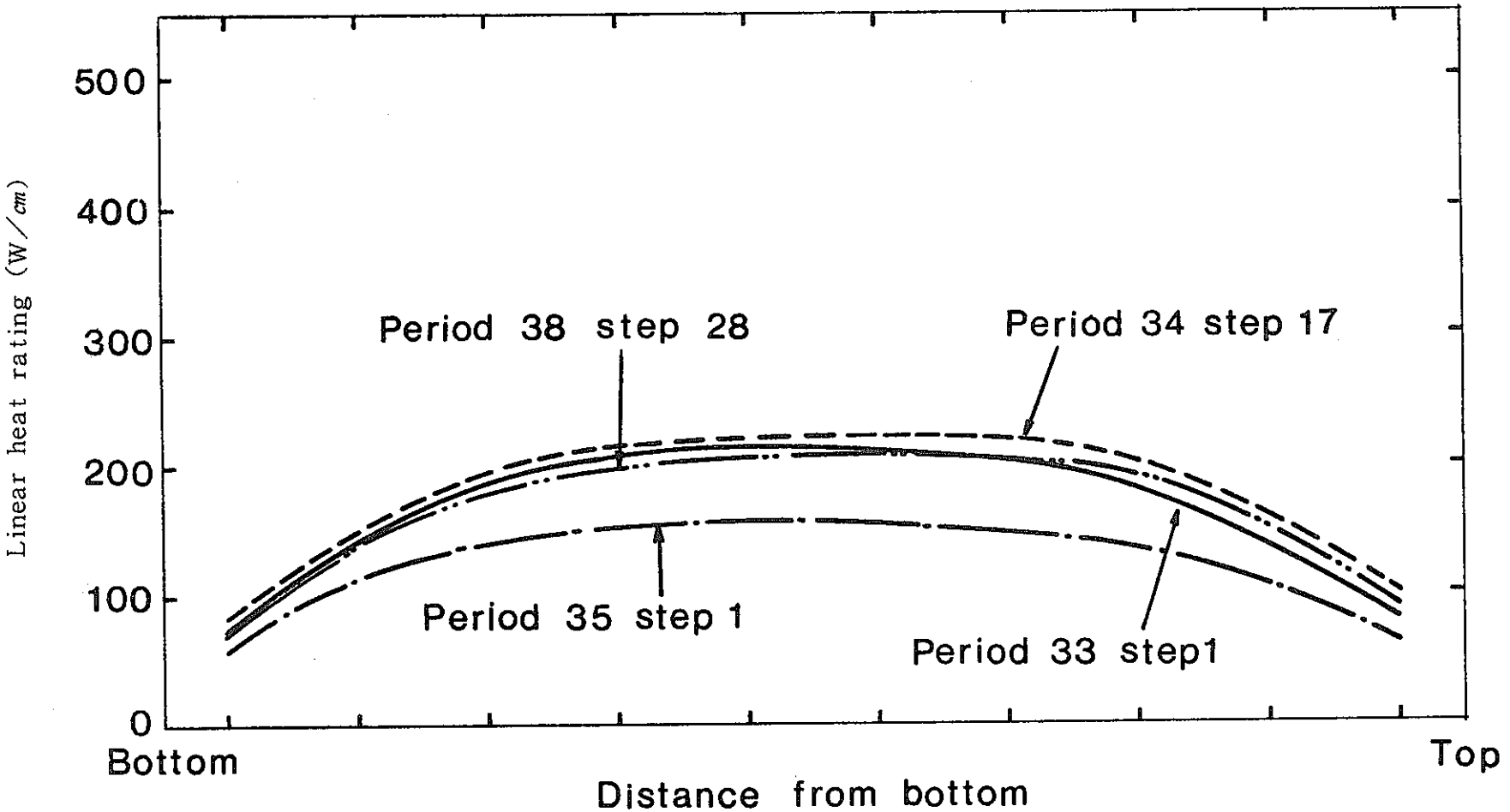


Figure 3 – 9 Axial linear heat rating distribution ($^{\text{Inner fuel}}_{\text{Rod A2}}$)

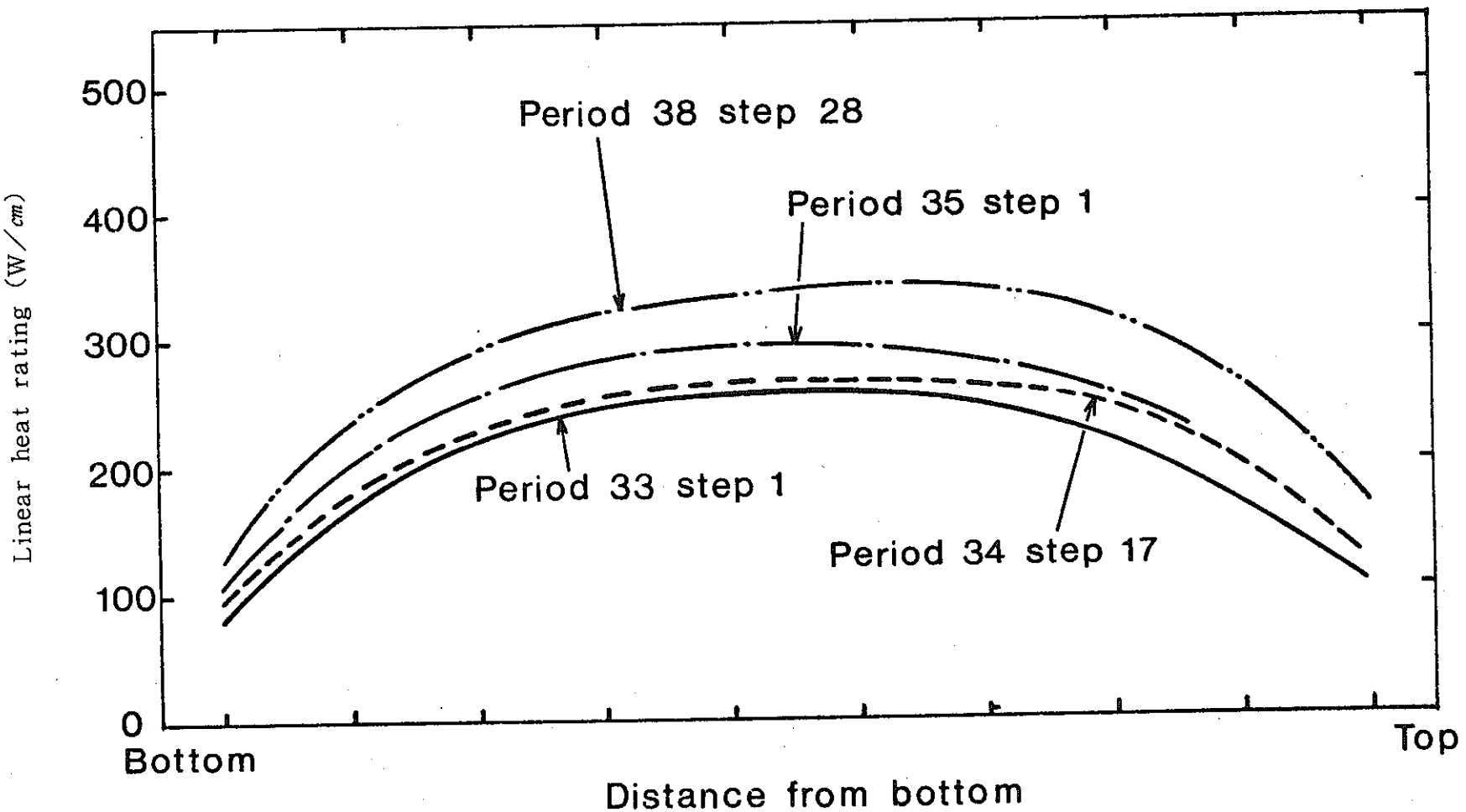


Figure 3 – 10 Axial linear heat rating distribution (Intermediat fuel Rod B6)

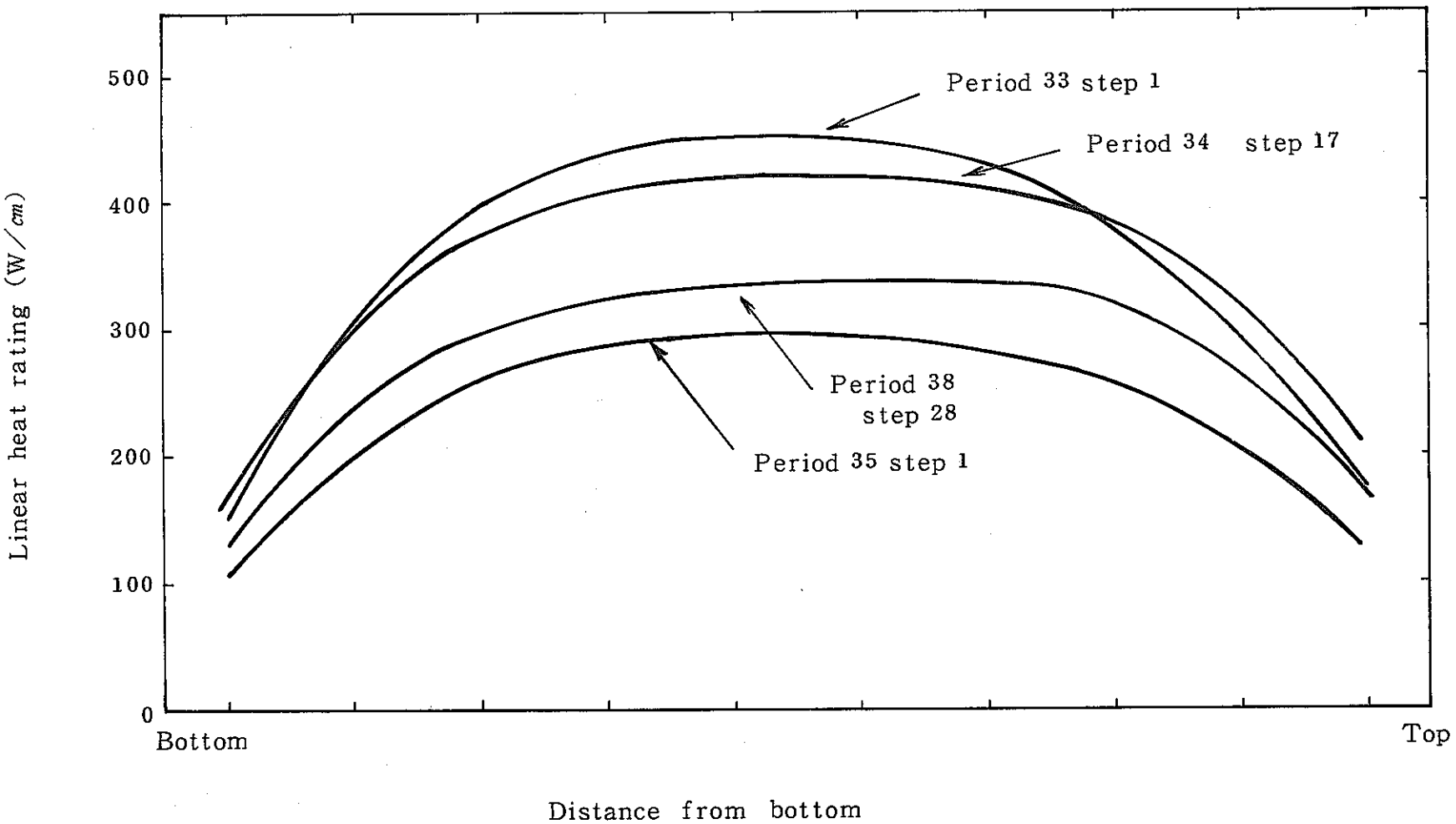
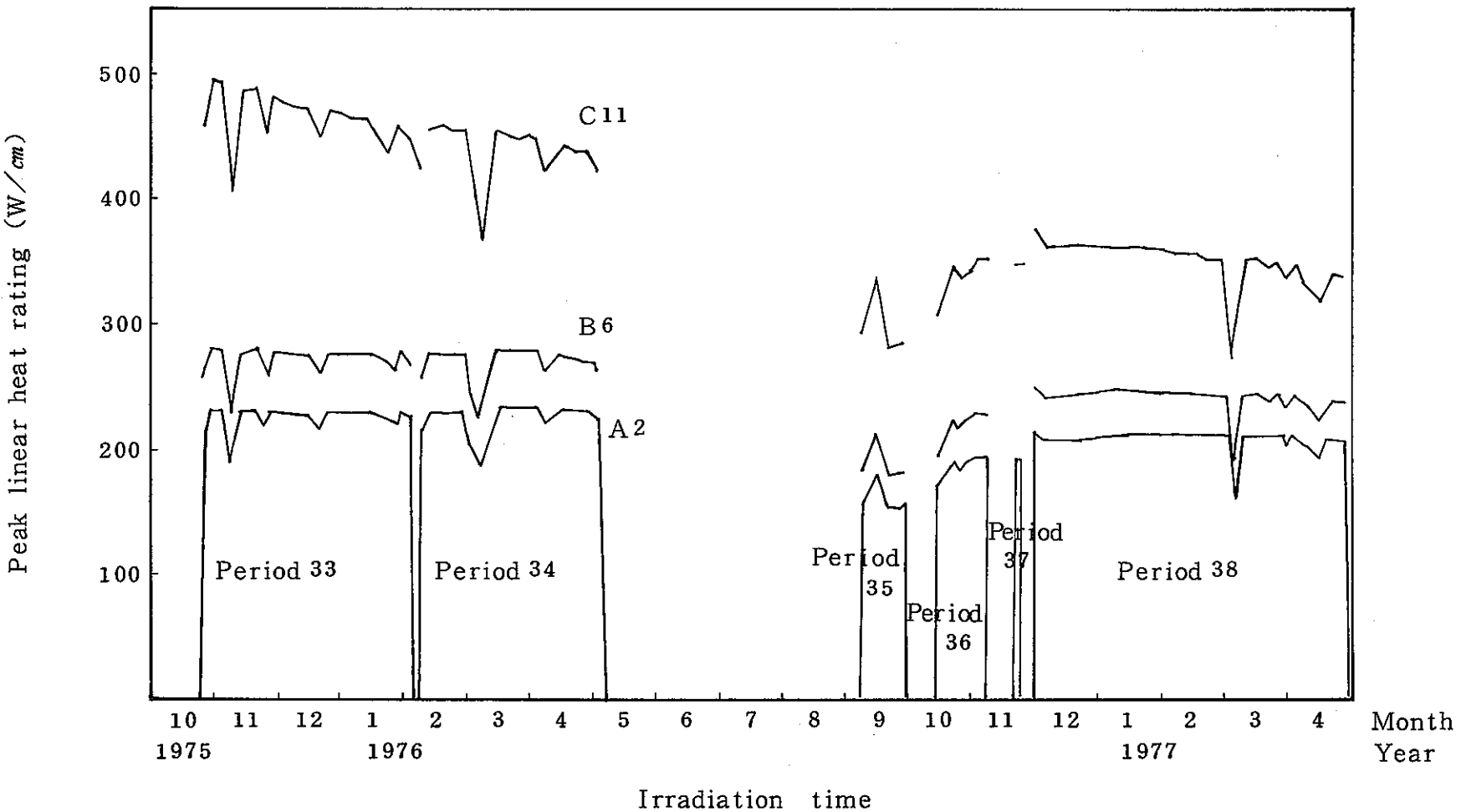


Figure 3 – 11 Axial linear heat rating distributior (Outer fuel C11)



Fignre 3－12 Peak linear heat ratings of Pin №A2, B6 and C11

① ● : Period 33 (1975. 10. 26)
② △ : 〃 34 (1976. 2. 8)
③ ■ : 〃 35 −① (1976. 9. 10)
④ ⊟ : 〃 35 −② (1976. 9. 11)
⑤ ⊗ : Period 36 (1976. 10. 14)
⑥ ⧋ : 〃 37 (1976. 11. 20)
⑦ ● : 〃 38 (1976. 11. 30)

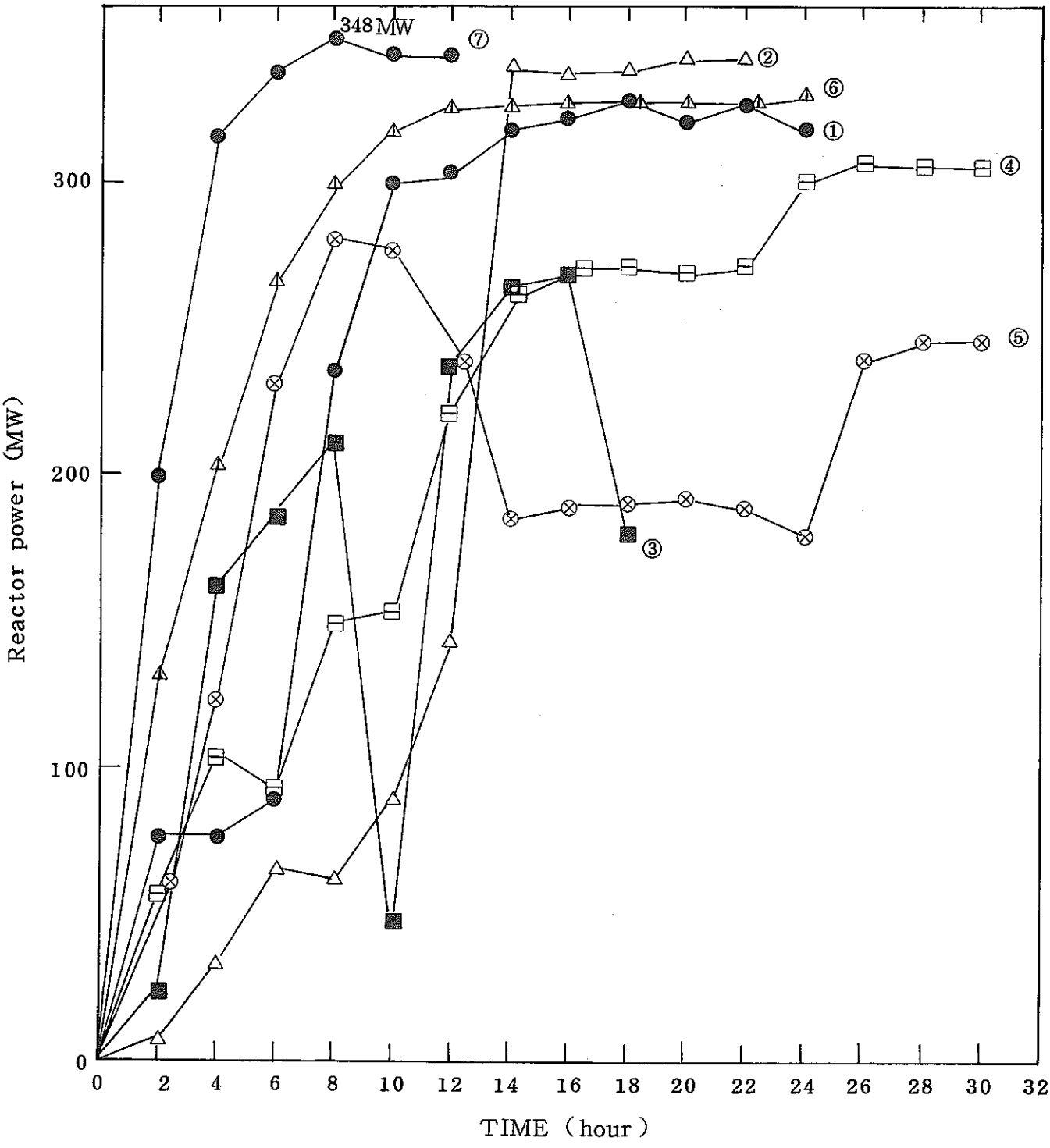


Figure 3 − 13 SGHWR power increase (Start up of each period)

① ● : 1975. 11. 13 (BOL)
② △ : 1976. 1. 25 (1 day)
③ □ : 1976. 3. 7 (2 day after)
④ ○ : 1976. 4. 12 (2 day after)
⑤ ■ : 1976. 11. 20 (11 day after)
⑥ ⊗ : 1976. 12. 17 (7 day after)
⑦ ▲ : 1977. 2. 23 (2 day)

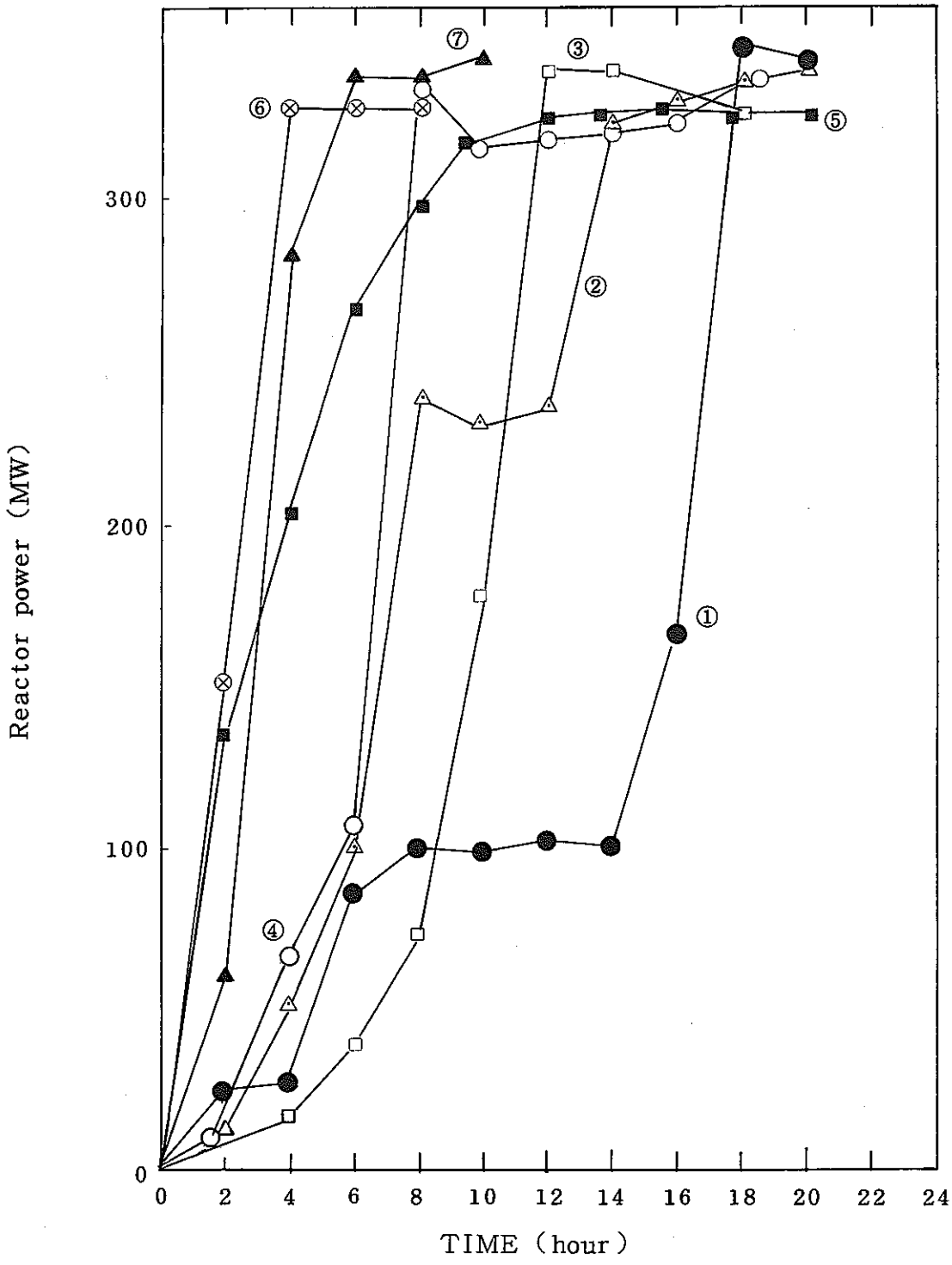


Figure 3 − 14 SGHWR power increase
(Intermediate of each period)

① ○ : Period 33 (1975. 10. 26) ④ ⊗ : Period 36 (1976. 10. 14)
② △ : 〃 34 (1976. 2. 8) ⑤ ⧋ : 〃 37 (1976. 11. 20)
③ ⊟ : 〃 35 (1976. 9. 11) ⑥ ◎ : 〃 38 (1976. 11. 30)

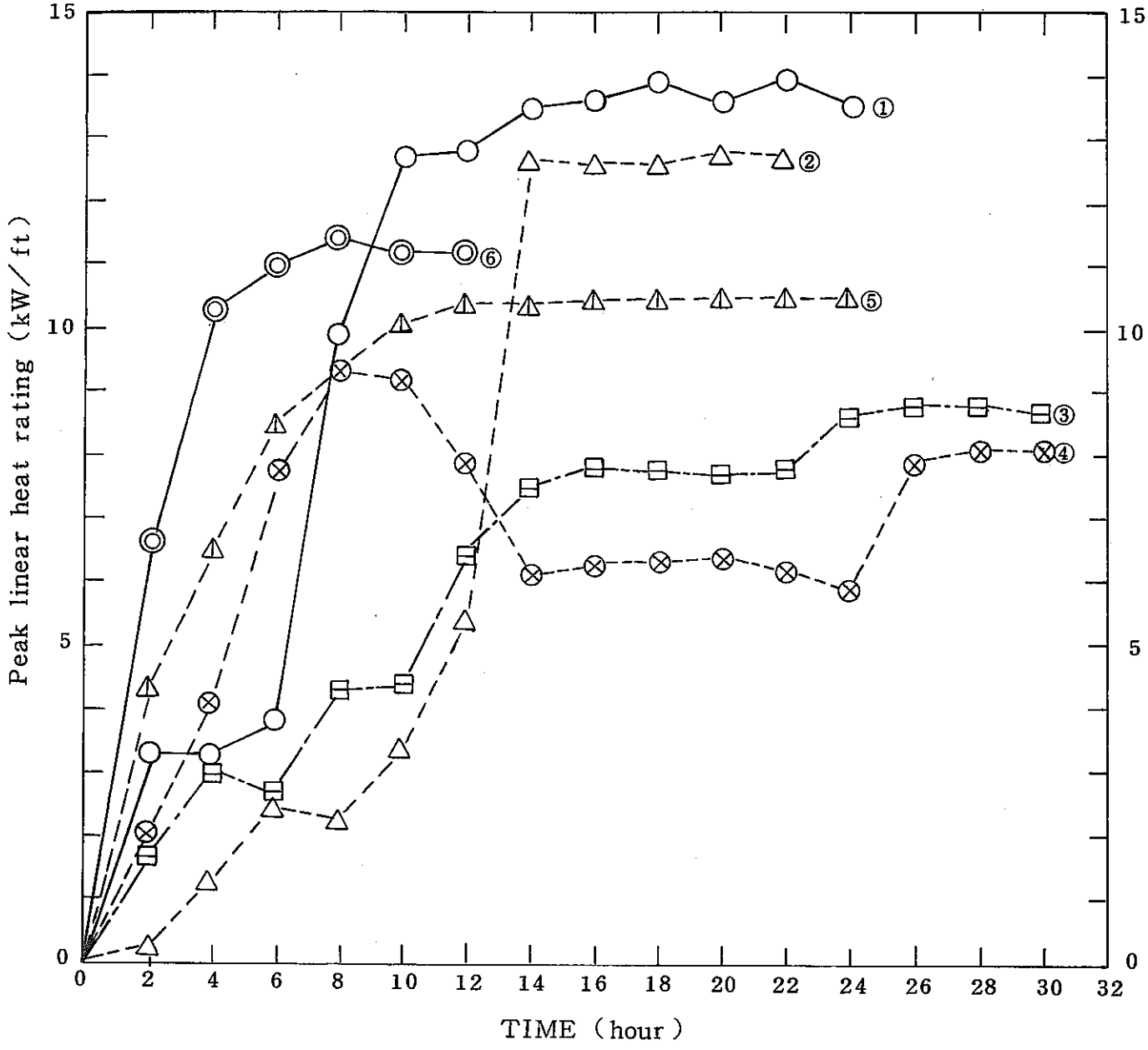


Figure 3 – 15 SGHWR Type – D power increase rate of Pin C11
(Start up of each period)

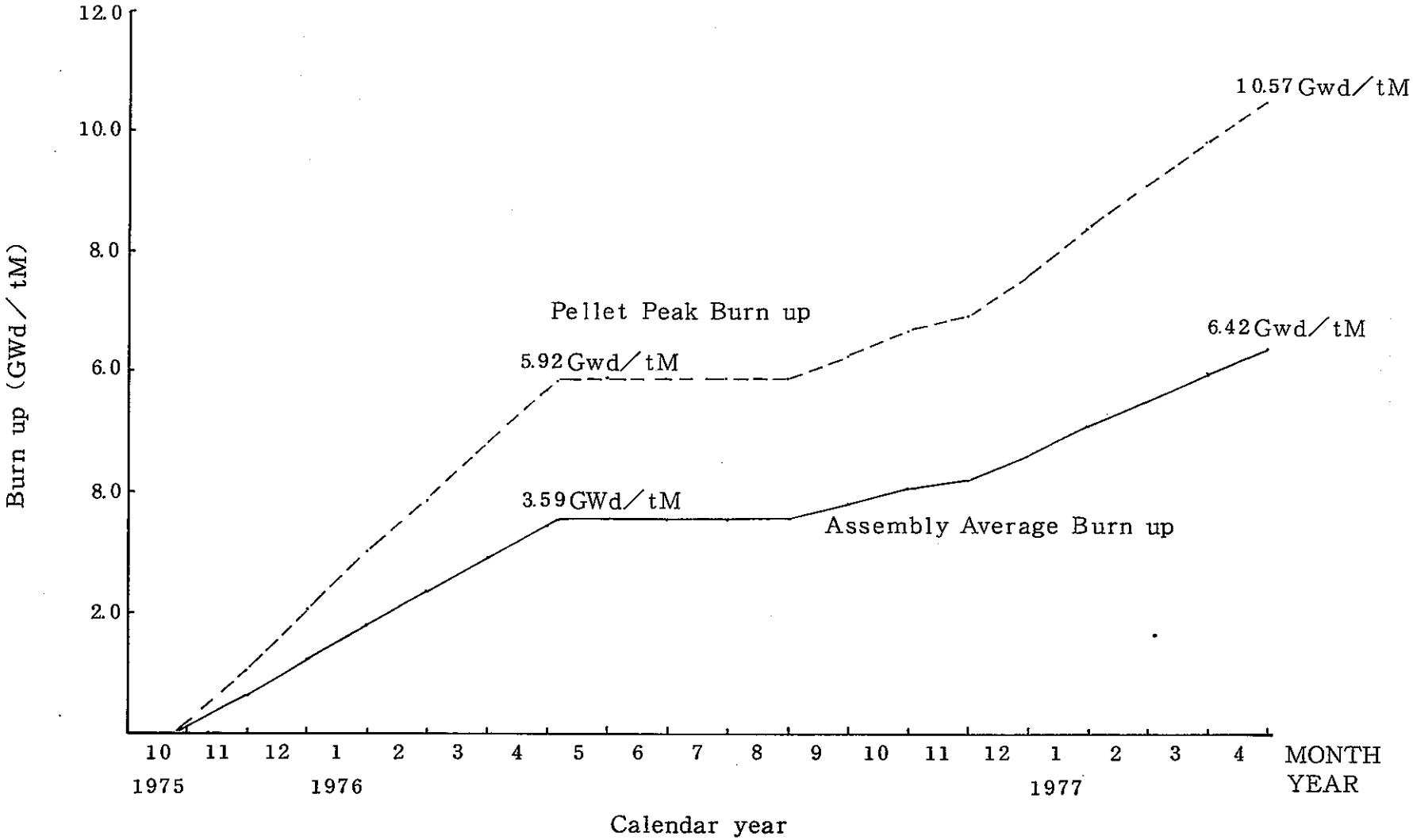


Figure 3－16 Assembly average and pellet peak burn up

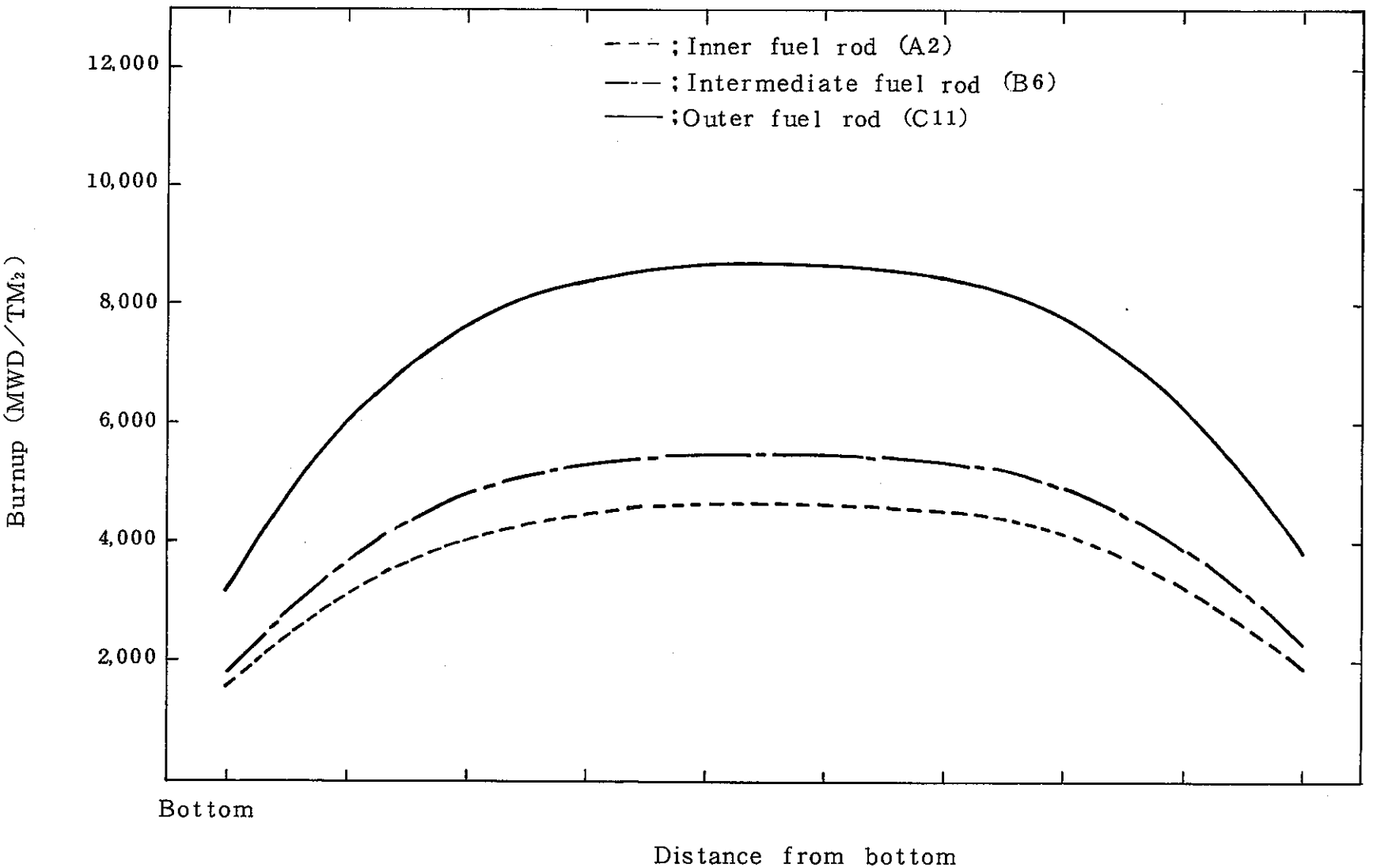


Figure 3 – 17 Axial burnup distribution

4. ま と め

SGHWR TYPE－Dの照射はほぼ計画された通りに進行し，主要パラメータの照射目標値に対する達成度はTable 4－1に示す通り満足すべきものであった。

Table 4－1 Comparisons of fuel irradiation conditions between designed and achieved

Items	Designed	Achieved
Channel Power (MWt)	3.0	2.82
Max. L. H. R of Fuel Rod (w／cm)	520	490
Burn up, Peak Pellet (MWD／TM)	9,600	10,570
Channel Flow (kg／sec)	15.8	14.4～17.0
Coolant Press. (kg／cm²)	67	68
Coolant Inlet Temp. (℃)	275	276

5. 参 考 文 献

1) ZN841-75-30 (1975年9月)
「ふげん」プルトニウム燃料集合体のSGHWRにおける照射試験
(I) PuO_2－UO_2燃料集合体の設計および照射特性解析

2) ZN841-76-06 (1976年2月)
「ふげん」プルトニウム燃料集合体のSGHWRにおける照射試験
(II) TYPE－D集合体の製造・加工・検査および出荷

3) SN860-76-01 (1976年1月)
「ふげん」プルトニウム燃料集合体のSGHWRにおける照射試験
(III) SGHWR照射集合体 (TYPE－D) の組立および照射前検査の立合

4) ZN860-78-03 (1978年4月)
「ふげん」プルトニウム燃料集合体のSGHWRにおける照射試験
(IV) 集合体 (TYPE－D) の照射後試験非破壊検査立会い。
(海外出張報告書)

5) SN860-78-05 (1978年5月)
「ふげん」プルトニウム燃料集合体のSGHWRにおける照射試験
(V) TYPE－D集合体の照射後試験 (破壊試験) 立会い。

6) AEEW-R1037
Part 1～Part 20 (Final Report)
WINFRITH SGHWR－IRRADIATION EXPERIMENT IE. 1718
THE IRRADIATION OF A FUEL ASSEMBLY ON BEHALF DEVELOPMENT CORPORAION OF JAPAN

付　録　1

SGHWR運転管理に関するDate，Operating Periods, Steps及びCore Statesの関係

附録　1

SGHWR運転管理に関する

Date, Operating Periods, Steps及びCore States の関係

Date	Operating Periods	Steps		Core States
		Step No.	Beginning Date	
1975／10／26	33	1	1975／10／26	
		2	／30	
		3	11／ 4	
		4	／ 9	
		5	／14	64
		6	／19	
		7	／24	
		8	／29	
		9	12／ 4	
		10	／ 9	
		11	／14	
		12	／19	
		13	／24	
		14	／29	65
		15	1976／ 1／ 3	
		16	／ 8	
		17	／13	
		18	／18	
		19	／23	66
		20	／29	
		21	／ 3	
1976／ 2／ 6			／ 6 まで	
1976／ 2／ 8	34	1	1976／ 2／ 8	
		2	／13	
		3	／18	
		4	／23	
		5	／28	67
		6	3／ 4	
		7	／ 9	
		8	／14	
		9	／19	
		10	／24	

Date	Operating Periods	Steps		Core States
		Step No.	Beginning Date	
1976／ 2／		11	1976／ 3／29	68
		12	4／ 4	
		13	／10	
		14	／16	
		15	／22	69
		16	／28	
		17	5／ 3	
1976／ 5／ 7			／ 7 まで	
1976／ 9／10	35	1	1976／ 9／10	
		2	／15	
		3	／20	70
		4	／25	
1976／ 9／30			／30 まで	
1976／10／14	36	1	1976／10／14	
		2	／19	
		3	／24	
		4	／29	71
		5	11／ 3	
1976／11／ 8			／ 8	
1976／11／20	37	1	1976／11／20	72
1976／11／22			／22 まで	
1976／11／30	38	1	1976／11／30	
		2	12／ 5	73
		3	／10	
		4	／22	
		5	／27	74
		6	1977／ 1／ 1	
		7	／ 6	
		8	／12	
		9	／17	
		10	／22	
		11	／27	75
		12	2／ 1	
		13	／ 6	
		14	／11	

Date	Operating Periods	Steps		Core State
		Step No.	Beginning Date	
		15	1977／ 2／17	
		16	／22	
		17	／28	76
		18	3／ 5	
		19	／10	
		20	／15	
		21	／20	
		22	／25	77
		23	／30	
		24	4／ 6	
		25	／11	
		26	／16	
		27	／21	
		28	／26	78
1977／ 4／29			／29	

付　録　2

照射履歴データ処理プログラム
TRID－S

(1) MANUAL

(2) PROGRAM LIST

T R I D － S

M A N U A L

54 年 2 月 19 日

1. コード名　「TRIDS」
2. 機　　種　CDC6600／cyber－74
3. 言　　語　FORTRAN
4. 目　　的　SGHWR－Type Dの照射データを処理するためのコードである。またプロッターの使用によりそれらを整理する。
5. 内　　容　必要なデータを入力し次のものをプリント出力およびプロッター出力する。

1) プリント出力

- 原子炉出力

  2時間毎，1日の平均，ペリオド平均，全平均出力

- 集合体出力

  2時間毎，1日の平均，ペリオド平均，全平均出力

- ステップ毎集合体平均出力・線出力・燃焼度
- 燃料要素出力，軸方向線出力分布・平均線出力・最大線出力，最高燃焼度（ステップ毎）
- ペリオド34の末期および照射終了時における軸方向燃焼度分布・平均燃焼度

2) プロッター

- 原子炉出力

  2時間毎の出力を各月毎にプロット

  1日の平均出力を全期間にわたりプロッナ

- 集合体出力・平均燃焼度・平均線出力

  ステップ毎の平均出力・燃焼度を全期間にわたりプロット

  ステップ毎の平均線出力を全期間にわたりプロット

- 燃料要素最大線出力・最高燃焼度（全期間）
- 燃料要素出力・平均線出力（全期間）
- 軸方向線出力分布

  指定したペリオド・ステップにおける軸方向線出力分布をプロット

- 軸方向燃焼度分布

  ペリオド34の末期における軸方向燃焼度分布をプロット

  照射終了時における軸方向燃焼度分布をプロット

6. 計算式

- 集合体出力

  集合体出力＝原子炉出力×比例定数（0.00789）

- 平均出力

  1日の平均出力＝$\sum_{1日}$2時間毎の出力／12

ペリオド平均出力＝$\sum_{ペリオド}$ 2時間毎の出力／ペリオド内のデータ数

全平均出力＝$\sum_{全データ}$ 2時間毎の出力／全データ数

○燃料要素出力

ノード線出力（W／cm）＝ノード線出力（MW／T－H.M.O）×16.7284

燃料要素平均出力＝$\sum_{軸方向}$ ノード線出力／10

燃料要素出力＝燃料要素平均出力×351×10^{-3}

7. 入力形式

	カラム	変数名	フォーマット	
A	1～80	TITL	8A10	タイトル80文字
B	1～ 5	IPRI	I5	プリント・オプション ≒0 プリント
	6～10	IPLR	I5	原子炉出力プロット・オプション ＝0 プロットしない ＝1 全期間を1図にプロット ＝2 月毎にプロット ＝3 全期間および月毎
	11～15	IPLA	I5	集合体プロット・オプション ＝0 プロットしない ＝1 出力・燃焼度を全期間プロット ＝2 〃 および線出力
	16～20	IPLM	I5	燃料要素最大線出力・最高燃焼度 ≒0 全期間にわたりプロット
	21～25	IPLP	I5	燃料要素出力・平均線出力 ≒0 全期間にわたりプロット
	26～30	IPLS	I5	軸方向線出力分布をプロットするステップ数
C	1～ 3	KSTP（I）	I3	軸方向線出力分布をプロットするステップ番号
	4～ 5		I2	ステップ番号
	6～10	KPIN（J, I）	I5	ペレット番号（1～5本）
	〃		〃	（IPLS枚入力）
D	1～ 5	LPIN（I, 2）	14I5	ペリオド34末期における軸方向燃焼度分布をプロットするペレット番号（0～28本） 14本以下でも2枚の入力が必要（2枚入力）
	66～70			

	カラム	変数名	フォーマット	
E	1～5 ⟆ 66～70	LPIN (I, 2)	14I5	照射終了時における軸方向燃焼度分布をプロットするペレット番号（0～28本） （2枚入力）
F	1～3	PER	A3	PER
			5×	ペリオド番号
	9～10	IPERI (K)	I2	ペリオド番号
	11～20	JDATE	I10	ペリオドの最初の日付 11 15 20 ␣␣␣26 10 75（1975年10月26日） 日 月 年
	21～25	NUMD	I5	ペリオド内の日数
	26～30	NUMS	I5	ペリオド内のステップ数
G	1～10 ⟆ 61～70	REAP (J, I), J＝1, 12	7F10.0	2時間毎の原子炉出力 1日につき2枚 日付が変わるごとに次のカードにうつる
	1～10 ⟆ 41～50		5F10.0	（2×NUMD枚入力）
H	1～3	PER	A3	CLU
I	1～10	JDATS	I10	ステップの区切り 1 8 10 ␣␣␣␣␣␣␣5 12（5日目の12番目のデータまでが1ステップ） 日 時
	11～20	ASSP (I)	F10.0	ステップ平均集合体出力
	21～30	ASSR (I)	F10.0	集合体平均線出力
	31～40	ASSI (I)	F10.0	集合体平均燃焼度 （NUMS枚入力）
J	1～3	PER	A3	PIN
	9～10		5×	
	9～10	IPIN (I)	I2	ペレット番号

	カラム	変数名	フォーマット	
K	1～10 〃 61～70 1～10 〃 21～30 31～40 41～50	PAXIR(L, J, I), L＝1, 10 PEAKR (J, I) PEAKI (J, I)	7F10.0 3F10.0 F10.0 F10.0	ステップ毎の軸方向線出力分布 ペレット最大線出力 ペレット最高燃焼度 (2×NUMS枚入力)
カードJ, Kの組を5本のペレットについて入力 カードF～Kを各ペリオド毎にくり返し入力				
L	1～ 3	PER	A3	END 全ペリオドの終了を示す
M	1～10 61～70 1～10 〃 41～50	PAXII(J, I, 1), J＝1, 10, I＝1, 28	7F10.0 5F10.0 	ペリオド34の末期における軸方向燃焼度分布 28本のペレットについて入力 ペレット毎に次のカードにうつる (2×28枚入力)
N	1～10 〃 61～70 1～10 〃 41～50	PAXII(J, I 2), J＝1, 10, I＝1, 28	7F10.0 5F10.0 	照射終了時における軸方向燃焼度分布 28本のペレットについて入力 (2×28枚入力)

8. 使用法

1) MT (7 track, 556BPI)

- テープ番号　P3711
- ラベル名　「TRIDS＊LG＊DATA」
- 内　容

1. 相対番地目的プログラム (LGO)

2. UPDATA形式プログラム（OLDPL）
3. UPDATE形式データ

○プログラムにおけるファイルの定義

1. INPUT
2. OUTPUT
3. TAPE 1（プロット出力）
4. TAPE 5＝INPUT
5. TAPE 6＝OUTPUT

2) JCL例

○プログラム修正なし，データをカードより入力する場合

```
JOB, MTI, P4.
SIDA, チャージ番号, ユーザー名.
LABEL, A, R, L=TRIDS*LG*UP*DATA, VSN=P3711.
COPYBF, A, LGO.
UNLOAD, A.
LGO.
REWIND, TAPE1.
LABEL, A, W, L=PLOT, T=2.
COPYBF, TAPE1, A.
UNLOAD, A.
7/8/9
  データ
6/7/8/9
```

○プログラム修正なし，データをテープより入力する場合

```
JOB, ……
SIDA, ……
LABEL, A, R, L=TRIDS*LG*UP*DATA, VSN=P3711.
COPYBF, A, LGO.
SKIPF, A, 1, 17, B.
COPYBF, A, OLDD.
UNLOAD, A,
UPDATE, P=OLDD, C=DATA, D.
LGO, DATA.
```

```
REWIND, TAPE.
LABEL, A, W, L=PLOT, T=2.
COPYBF, TAPE1, A.
UNLOAD, A.
7/8/9
  データのUPDATE指示カード
6/7/8/9
```

○プログラム修正，データをテープより入力する場合

```
JOB, ……
SIDA, ……
LABEL, A, R, L=TRIDS*LG*UP*DATA, VSN=P3711.
COPYBF, A, LGO.
COPYBF, A, OLDPL.
COPYBF, A, OLDD.
UNLOAD, A.
FTN, I, B=LGR.
REWIND, LGO, LGR.
COPYL, LGO, LGR, LGN, A.
UPDATE, P=OLDD, C=DATA, D.
LGN, DATA.
REWIND, TAPE1.
LABEL, A, W, L=PLOT, T=2.
COPYBF, TAPE1, A.
UNLOAD, A.
7/8/9
  プログラムのUPDAE指示カード
7/8/9
  データのUPDATE指示カード
6/7/8/9
```

```
      PROGRAM   TRIDS   (INPUT   ,OUTPUT  ,TAPE1   ,TAPE5   =INPUT   , TRIDS     2
     -          TAPE6   =OUTPUT  )                                      TRIDS     3
      COMMON/SGHWR/REAP  ( 12,500),REAPD  (     500),ASSP   (     100), SGHCOM    2
     -          ASSR    (     100),ASST   (     100),PAXIP  (10,100,5), SGHCOM    3
     -          PEAKP   (100,   5),PEAKT  (100,   5),PINP   (100,   5), SGHCOM    4
     -          FINP    (100,   5),PAXIT  (10,28,2)                     SGHCOM    5
      COMMON/INDEX/IDATE (     500),IPERT  (      10),NSTEP  (      10), INDCOM    2
     -          NDATP   (      10),NDATS  (     100),IPIN   (       5), INDCOM    3
     -          K                                                      INDCOM    4
      COMMON/TITLE/TITLE (       8),SPOW   (       3),SPOWK  (       3), TITCOM    2
     -          SRAT    (       3),SFUP   (       3)                    TITCOM    3
      COMMON/CONST/ND    ,NF      ,NA      ,CONR    ,CONL    ,CONP    , CONCOM    2
     -          MONT    (      12),MODM    ,MODY                        CONCOM    3
      COMMON/OPTIN/IPRT  ,IPLP    ,IPLA    ,IPLM    ,IPLF    ,IPLS    , OPTCOM    2
     -          KSTP    (      30),KPIN   (  5, 10),LPIN   ( 28,   2)   OPTCOM    3
      COMMON/PLOTX/XPEP  (      10),XSTP   (     100),XSTB   (     100)   PLOCOM    2
      CNAME = 8H TRID-S                                                 TRIDS    10
      CALL      MESAGE  (CNAME   )                                      TRIDS    11
      CALL      DATATN                                                  TRIDS    12
      CALL      PEAK                                                    TRIDS    13
      CALL      PRINT                                                   TRIDS    14
      CALL      PLOTG                                                   TRIDS    15
      STOP                                                              TRIDS    16
      END                                                               TRIDS    17
```

```
      SUBROUTINE  DATAIN                                                        DATAIN     2
      COMMON/SGHWR/READ   ( 12,500),READP   (    500),ASSP    (    100), SGHCOM     2
     -             ASSP   (   100),ASST    (    100),PAXIP  (10,100,5), SGHCOM     3
     -             PEAKP  (100,  5),PEAKT  (100,  5),PINP   (100,  5), SGHCOM     4
     -             PINR   (100,  5),PAXTI  (10,28,2)                    SGHCOM     5
      COMMON/INDEX/IDATE  (   500),IPERT  (     10),NSTEP  (     10), INDCOM     2
     -             NDATP  (    10),NDATS  (    100),IPIN   (      5), INDCOM     3
     -             K                                                    INDCOM     4
      COMMON/TITLE/TITLE  (     8),SPOW   (      3),SPOWK  (      3), TITCOM     2
     -             SPAT   (     3),SPUP   (      3)                   TITCOM     3
      COMMON/CONST/NB     ,NP     ,NA     ,CONP    ,CONL    ,CONP    , CONCOM     2
     -             MONT   (    12),MODM   ,MODY                        CONCOM     3
      COMMON/OPTIN/IPRI   ,IPLP   ,IPLA   ,IPLM    ,IPLP    ,IPLS    , OPTCOM     2
     -             KSTP   (    30),KPIN   (  5, 10),LPIN   ( 28,  2)  OPTCOM     3
      READ(5,5000) TITLE                                                    DATAIN     8
      WRITE(6,6000) TITLE                                                   DATAIN     9
      READ(5,5100) IPRI, IPLR, IPLA, IPLM, IPLP, IPLS                       DATAIN    10
      IF(IPLS.LE.0)                        GO TO 110                        DATAIN    11
      DO 100 I=1,IPLS                                                       DATAIN    12
      READ(5,5100) KSTP(I), (KPIN(II,I),II=1,NP)                            DATAIN    13
  100 CONTINUE                                                              DATAIN    14
  110 CONTINUE                                                              DATAIN    15
      READ(5,5100) (LPIN(II,1),II=1,28)                                     DATAIN    16
      READ(5,5100) (LPIN(II,2),II=1,28)                                     DATAIN    17
      K = 1                                                                 DATAIN    18
      IE = 0                                                                DATAIN    19
      ID = 0                                                                DATAIN    20
  200 CONTINUE                                                              DATAIN    21
      READ(5,5300) PER, IPERT(K), JDATE, NUMD, NUMS                         DATAIN    22
      IF(PER.NE.3HPER)                     GO TO 600                        DATAIN    23
      IL = IE*100                                                           DATAIN    24
      IB = IE+1                                                             DATAIN    25
      IE = IE+NUMD                                                          DATAIN    26
      DO 300 I=IB,IE                                                        DATAIN    27
      READ(5,5200) (READP(II,I),II=1,NB)                                    DATAIN    28
  300 CONTINUE                                                              DATAIN    29
      READ(5,5300) PER                                                      DATAIN    30
      IF(PER.NE.3HCLU)                     GO TO 990                        DATAIN    31
      IC = ID+1                                                             DATAIN    32
      ID = ID+NUMS                                                          DATAIN    33
      DO 400 I=IC,ID                                                        DATAIN    34
      READ(5,5400) JDATS, ASSP(I), ASSR(I), ASSI(I)                         DATAIN    35
      NDATS(I) = JDATS+IL                                                   DATAIN    36
  400 CONTINUE                                                              DATAIN    37
      DO 500 J=1,NP                                                         DATAIN    38
      READ(5,5300) PER, IPIN(J)                                             DATAIN    39
      IF(PER.NE.3HPIN)                     GO TO 990                        DATAIN    40
      DO 500 I=IC,ID                                                        DATAIN    41
      READ(5,5200) (PAXIR(II,I,J),II=1,NA), PEAKR(I,J), PEAKT(I,J)          DATAIN    42
  500 CONTINUE                                                              DATAIN    43
      NDATP(K) = IE                                                         DATAIN    44
      NSTEP(K) = ID                                                         CATAIN    45
      CALL        STDATE   (JDATE   ,NUMD    ,IDATE(IB)        )           DATAIN    46
      K = K+1                                                               DATAIN    47
      GO TO 200                                                             DATAIN    48
  600 CONTINUE                                                              DATAIN    49
      IF(PER.NE.3HEND)                     GO TO 990                        DATAIN    50
```

```
      K = K-1                                                          DATAIN     51
      DO 700 J=1,2                                                     DATAIN     52
60    DO 700 I=1,28                                                    DATAIN     53
      READ(5,5200) (PAXIT(II,I,J),IT=1,NA)                             DATAIN     54
  700 CONTINUE                                                         DATAIN     55
      WRITE(6,6200) K, NSTEP(K), NDATP(K), (IPIN(II),II=1,NP)          DATAIN     56
      CALL      PRIOPT                                                 DATAIN     57
65    RETURN                                                           DATAIN     58
  990 CONTINUE                                                         DATAIN     59
      WRITE(6,6100) K, PER                                             DATAIN     60
      STOP                                                             DATAIN     61
 5000 FORMAT(8A10)                                                     DATAIN     62
70    5100 FORMAT(14I5)                                                DATAIN     63
 5200 FORMAT(7F10.2)                                                   DATAIN     64
 5300 FORMAT(A3,5X,I2,I10,10I5)                                        DATAIN     65
 5400 FORMAT(I10,6F10.0)                                               DATAIN     66
 6000 FORMAT(1H1,8A10)                                                 DATAIN     67
75    6100 FORMAT(1H0,15H  ** WARNING **/                              DATAIN     68
     -       6X,15HDATA ERORS   IN,I3,11H TH. PERIOD,5X,A3)           DATAIN     69
 6200 FORMAT(17H0  * DATA INPUT */                                     DATAIN     70
     -       25H0      NUMBER OF PERIODS ,I4/                         DATAIN     71
     -       25H0      NUMBER OF STEPS   ,I4/                         DATAIN     72
80   -       25H0      NUMBER OF DAYS    ,I4/                         DATAIN     73
     -       25H0      PIN NUMBERS       ,28I4/)                      DATAIN     74
      END                                                              DATAIN     75
```

```
            SUBROUTINE  STDATE  (JDATE    ,NUMD     ,KDATE    )                    STDATE      2
            COMMON/CONST/MD      ,NP       ,NA       ,CONP     ,CONL     ,CONP    , CONCOM      2
           -              MONT     (        12),MODM     ,MODY                      CONCOM      3
            DIMENSION   KDATE    (         1)                                       STDATE      4
            NDATE(ID,IM,IY) = ID*MCOM+IM*MODY+IY                                    STDATE      5
            CALL        SEPD       (JDATE    ,ID       ,IM       ,IY       )        STDATE      6
            N = 0                                                                   STDATE      7
        100 CONTINUE                                                                STDATE      8
            IE = MONT(IM)                                                           STDATE      9
            IF(IM.EQ.2)    IE = IE+IURUU(IY)                                        STDATE     10
        200 CONTINUE                                                                STDATE     11
            N = N+1                                                                 STDATE     12
            KDATE(N) = NDATE(ID,IM,IY)                                              STDATE     13
            IF(N.GE.NUMD)    RETURN                                                 STDATE     14
            ID = ID+1                                                               STDATE     15
            IF(ID.LE.IE)                          GO TO 200                         STDATE     16
            ID = 1                                                                  STDATE     17
            IM = IM+1                                                               STDATE     18
            IF(IM.LE.12)                          GO TO 100                         STDATE     19
            IM = 1                                                                  STDATE     20
            IY = IY+1                                                               STDATE     21
            GO TO 100                                                               STDATE     22
            END                                                                     STDATE     23
```

```
      SUBROUTINE PRIOPT                                                 PRIOPT      2
      COMMON/INDEX/ICATE  (   500),TPERT  (    10),NSTEP  (    10), INDCOM      2
     -             NDATP  (    10),NDATS  (   100),TPIN   (     5), INDCOM      3
     -             K                                                  INDCOM      4
      COMMON/CONST/NO     ,NP     ,NA     ,CONR   ,CONL   ,CONP    , CONCOM      2
     -             MONT   (    12),MODM   ,MODY                      CONCOM      3
      COMMON/OPTIN/IPRI   ,IPLP   ,IPLA   ,IPLM   ,IPLO   ,IPLS    , OPTCOM      2
     -             KSTP   (    36),KPIN   (  5, 10),LPTN   ( 28,  2) OPTCOM      3
      DATA          LON    / 3H ON /,LOF    / 3HOFF /                 PRIOPT      6
      I1 = LON                                                        PRIOPT      7
      I2 = LON                                                        PRIOPT      8
      I3 = LON                                                        PRIOPT      9
      IF(IPRI.LE.0)   I1 = LOF                                        PRIOPT     10
      IF(IPLM.LE.0)   I2 = LOF                                        PRIOPT     11
      IF(IPLP.LE.0)   I3 = LOF                                        PRIOPT     12
      IF(IPLR.GT.3)   IPLR = 3                                        PRIOPT     13
      IF(IPLA.GT.2)   IPLA = 2                                        PRIOPT     14
      WRITE(6,6300) I1, IPLR, IPLA, I2, I3                            PRIOPT     15
      IF(IPLS.LE.0)                         GO TO 210                 PRIOPT     16
      WRITE(6,6400)                                                   PRIOPT     17
      DO 200 J=1,IPLS                                                 PRIOPT     18
      I1 = KSTP(J)/100                                                PRIOPT     19
      I2 = KSTP(J)-I1*100                                             PRIOPT     20
      DO 100 I=1,NP                                                   PRIOPT     21
      IF(KPIN(I,J).LE.0)                    GO TO 110                 PRIOPT     22
  100 CONTINUE                                                        PRIOPT     23
  110 CONTINUE                                                        PRIOPT     24
      I = I-1                                                         PRIOPT     25
      WRITE(6,6410) I1, I2, (KPIN(II,J),II=1,I)                       PRIOPT     26
  200 CONTINUE                                                        PRIOPT     27
      GO TO 220                                                       PRIOPT     28
  210 CONTINUE                                                        PRIOPT     29
      WRITE(6,6400) LOF                                               PRIOPT     30
  220 CONTINUE                                                        PRIOPT     31
      DO 300 I=1,28                                                   PRIOPT     32
      IF(LPTN(I,1).LE.0)                    GO TO 310                 PRIOPT     33
  300 CONTINUE                                                        PRIOPT     34
  310 CONTINUE                                                        PRIOPT     35
      I = I-1                                                         PRIOPT     36
      DO 400 J=1,28                                                   PRIOPT     37
      IF(LPTN(J,2).LE.0)                    GO TO 410                 PRIOPT     38
  400 CONTINUE                                                        PRIOPT     39
  410 CONTINUE                                                        PRIOPT     40
      J = J-1                                                         PRIOPT     41
      IF(I+J.EQ.0)                          GO TO 420                 PRIOPT     42
      WRITE(6,6500)                                                   PRIOPT     43
      I1 = 34                                                         PRIOPT     44
      IF(I.GT.0)                                                      PRIOPT     45
     -WRITE(6,6510) I1, (LPTN(II,1),II=1,I)                           PRIOPT     46
      IF(J.GT.0)                                                      PRIOPT     47
     -WRITE(6,6510) TPERT(K), (LPTN(II,2),II=1,J)                     PRIOPT     48
      RETURN                                                          PRIOPT     49
  420 CONTINUE                                                        PRIOPT     50
      WRITE(6,6500) LOF                                               PRIOPT     51
      RETURN                                                          PRIOPT     52
 6300 FORMAT(20H0    PRINT OPTION    ,6X,A3/                        PRIOPT     53
     -       16H0    PLOT OPTION/                                    PRIOPT     54
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 SUBROUTINE PRIOPT     74/74   OPT=1                    FTN 4.6+428      12/07/79  13.35.07      PAGE     2

                -       20H0      REACTOR POWER,6X,I3,5X,                                  PRIOPT     55
                -       38H(0/1/2/3 = NO/ALL/MONTHLY/ALL,MONTHLY)/                       PRIOPT     56
60              -       20H0      ASSEMBLY MEAN,6X,I3,5X,                                PRIOPT     57
                -       46H(0/1/2 = NO/POWER,BURNUP/POWER,BURNUP,RATINGS)/               PRIOPT     58
                -       20H0      ROD PEAK      ,6X,A3/                                  PRIOPT     59
                -       20H0      ROD POWER     ,6X,A3)                                  PRIOPT     60
             6400 FORMAT(26H0      AXIAL POWER DIST.  ,A3)                              PRIOPT     61
65           6410 FORMAT(9X,6HPERIOD,I4,7H   STEP,I4,10H   PIN NO.,20I4)                PRIOPT     62
             6500 FORMAT(26H0      AXIAL BURNUP DIST. ,A3)                              PRIOPT     63
             6510 FORMAT(9X,17HTHE END OF PERIOD,I4,10H   PIN NO.,20I4)                  PRIOPT     64
                  END                                                                   PRIOPT     65
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      SUBROUTINE  PRINT                                                      PRINT       2
      COMMON/CONST/NC      ,NP       ,NA       ,CONR     ,CONL     ,CONP     , CONCOM    2
     -             MONT    (     12),MODM     ,MODY                           CONCOM    3
      COMMON/SGHWP/PEAP    ( 12,500),PEAPO    (    500),ASSP    (    100), SGHCOM    2
     -             ASSP    (    100),ASST     (    100),PAXIP   (10,100,5), SGHCOM    3
     -             PEAKP   (100,  5),PEAKT    (100,  5),PINP    (100,  5), SGHCOM    4
     -             PINR    (100,  5),PAXIT    (10,28,2)                       SGHCOM    5
      COMMON/INDEX/IDATE   (    500),IPERI    (     10),NSTEP   (     10), INDCOM    2
     -             NDATP   (     10),NDATP    (    100),IPIN    (      5), INDCOM    3
     -             K                                                          INDCOM    4
      COMMON/TITLE/TITLE   (      8),SPOW     (      3),SPOWK   (      3), TITCOM    2
     -             SPAT    (      3),SPUP     (      3)                      TITCOM    3
      COMMON/OPTIN/IPRI    ,IPLP     ,IPLA     ,IPLM     ,IPIP     ,IPLS     , OPTCOM    2
     -             KSTP    (     30),KPIN     (  5, 10),LPIN    ( 28,  2)  OPTCOM    3
      DIMENSION      DUMM(12)                                                 PRINT       8
      IF(IPRI.EQ.0)    RETURN                                                 PRINT       9
      CONS = 0.00789                                                          PRINT      10
      IA = 0                                                                  PRINT      11
      ID = 0                                                                  PRINT      12
      IE = 0                                                                  PRINT      13
      JB = 0                                                                  PRINT      14
      JE = K                                                                  PRINT      15
      LE = 1                                                                  PRINT      16
      IF(IPRI.EQ.2)    LE = K                                                 PRINT      17
      DO = 1.                                                                 PRINT      18
      TAVE = 0.                                                               PRINT      19
      DAVE = 0.                                                               PRINT      20
      IPAGE = 1                                                               PRINT      21
      DO 600 L=1,LE                                                           PRINT      22
      JB = JB+1                                                               PRINT      23
      IF(IPRI.EQ.2)    JE = JB                                                PRINT      24
      DO 300 J=JB,JE                                                          PRINT      25
      IB = IE+1                                                               PRINT      26
      IE = NDATP(J)                                                           PRINT      27
      AVE = 0.                                                                PRINT      28
      LINE = 60                                                               PRINT      29
      DO 200 I=IB,IE                                                          PRINT      30
      IF(LINE.LT.52)                    GO TO 150                             PRINT      31
      WRITE(6,6000) TITLE, IPAGE                                              PRINT      32
      WRITE(6,6100) IPERI(J)                                                  PRINT      33
      WRITE(6,6200) (II,II=2,24,2)                                            PRINT      34
      IPAGE = IPAGE+1                                                         PRINT      35
      LINE = 0                                                                PRINT      36
  150 CONTINUE                                                                PRINT      37
      CALL      SEPD      (IDATE(I),I1      ,I2       ,I3       )           PRINT      38
      WRITE(6,6210) I1, I2, I3, (REAP(II,I),II=1,NC), REAPO(I)                PRINT      39
      LINE = LINE+1                                                           PRINT      40
      AVE = AVE+REAPO(I)                                                      PRINT      41
  200 CONTINUE                                                                PRINT      42
      TAVE = TAVE+AVE                                                         PRINT      43
      AVE = AVE/FLOAT(IE-IB+1)                                                PRINT      44
      WRITE(6,6220) AVE                                                       PRINT      45
  300 CONTINUE                                                                PRINT      46
      TAVE = TAVE/FLOAT(IE)                                                   PRINT      47
      WRITE(6,6230) TAVE                                                      PRINT      48
      DO 340 J=JB,JE                                                          PRINT      49
      IB = IA+1                                                               PRINT      50
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      IA = NDATP(J)                                                     PRINT   51
      AVE = 0.                                                          PRINT   52
60    LINE = 60                                                         PRINT   53
      DO 330 I=IB,IA                                                    PRINT   54
      IF(LINE.LT.52)                          GO TO 310                 PRINT   55
      WRITE(6,6000) TITLE, IPAGE                                        PRINT   56
      WRITE(6,6100) IPERT(J)                                            PRINT   57
65    WRITE(6,6201) (II,II=2,24,2)                                      PRINT   58
      IPAGE = IPAGE+1                                                   PRINT   59
      LINE = 0                                                          PRINT   60
  310 CONTINUE                                                          PRINT   61
      CALL      SFPO      (IDATE(I),T1       ,I2       ,I3       )    PRINT   62
70    DUMA = 0.                                                         PRINT   63
      DO 320 N=1,ND                                                     PRINT   64
      DUMM(N) = REAP(N,I)*CONS                                          PRINT   65
      DUMA = DUMA+DUMM(N)                                               PRINT   66
  320 CONTINUE                                                          PRINT   67
75    DUMA = DUMA/FLOAT(ND)                                             PRINT   68
      WRITE(6,6211) I1, I2, I3, (DUMM(II),II=1,ND), DUMA                PRINT   69
      LINE = LINE+1                                                     PRINT   70
      AVE = AVE+DUMA                                                    PRINT   71
  330 CONTINUE                                                          PRINT   72
80    DAVE =DAVE+AVE                                                    PRINT   73
      AVE =AVE/FLOAT(IA-IB+1)                                           PRINT   74
      WRITE(6,6221) AVE                                                 PRINT   75
  340 CONTINUE                                                          PRINT   76
      DAVE =DAVE/FLOAT(IA)                                              PRINT   77
85    WRITE(6,6231) DAVE                                                PRINT   78
      LINE = 60                                                         PRINT   79
      DO 400 J=JB,JE                                                    PRINT   80
      IB = ID+1                                                         PRINT   81
      ID = NSTEP(J)                                                     PRINT   82
90    IS = ID-IB+2                                                      PRINT   83
      LINE = LINE+IS                                                    PRINT   84
      IF(LINE.LT.55)                          GO TO 350                 PRINT   85
      WRITE(6,6000) TITLE, IPAGE                                        PRINT   86
      WRITE(6,6300)                                                     PRINT   87
95    IPAGE = IPAGE+1                                                   PRINT   88
      LINE = IS                                                         PRINT   89
  350 CONTINUE                                                          PRINT   90
      WRITE(6,6100) IPERT(J)                                            PRINT   91
      IS = 0                                                            PRINT   92
100   DO 400 I=IB,ID                                                    PRINT   93
      IS = IS+1                                                         PRINT   94
      I1 = NDATS(I)/100                                                 PRINT   95
      DS = FLOAT(I1)+FLOAT(NDATS(I)-I1*100)/12.                         PRINT   96
      DD = DS-DD                                                        PRINT   97
105   WRITE(6,6310) IS, ASSP(I), ASSP(I), ASSI(I), DD                   PRINT   98
      DD = DS                                                           PRINT   99
  400 CONTINUE                                                          PRINT  100
      DO 600 J=JB,JE                                                    PRINT  101
      IB = IC+1                                                         PRINT  102
110   IC = NSTEP(J)                                                     PRINT  103
      LINE = 60                                                         PRINT  104
      IS = 0                                                            PRINT  105
      DO 600 I=IB,IC                                                    PRINT  106
      LINE = LINE+NP+2                                                  PRINT  107
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      IF(LINE.LT.54)                    GO TO 450                                  PRINT  108
      WRITE(6,6000) TITLE, IPAGE                                                   PRINT  109
      WRITE(6,6100) IPERI(J)                                                       PRINT  110
      WRITE(6,6400) (II,II=1,NA)                                                   PRINT  111
      IPAGE = IPAGE+1                                                              PRINT  112
      LINE = NP                                                                    PRINT  113
  450 CONTINUE                                                                     PRINT  114
      IS = IS+1                                                                    PRINT  115
      WRITE(6,6410) IS                                                             PRINT  116
      DO 600 N=1,NP                                                                PRINT  117
      WRITE(6,6420) IPIN(N), PINP(I,N), FINR(I,N),                                 PRINT  118
     -              (PAXIP(II,I,N),II=1,NA), PEAKP(I,N), PEAKI(I,N)               PRINT  119
  600 CONTINUE                                                                     PRINT  120
      IS = 34                                                                      PRINT  121
      DO 800 I=1,2                                                                 PRINT  122
      WRITE(6,6000) TITLE, IPAGE                                                   PRINT  123
      WRITE(6,6500) IS, (II,II=1,NA)                                               PRINT  124
      IPAGE = IPAGE+1                                                              PRINT  125
      IS = IPERI(K)                                                                PRINT  126
      DO 800 N=1,28                                                                PRINT  127
      AVE = 0.                                                                     PRINT  128
      DO 700 J=1,NA                                                                PRINT  129
      AVE = AVE+PAXII(J,N,I)                                                       PRINT  130
  700 CONTINUE                                                                     PRINT  131
      AVE = AVE/FLOAT(NA)                                                          PRINT  132
      WRITE(6,6510) N, (PAXII(II,N,I),II=1,NA), AVE                                PRINT  133
  800 CONTINUE                                                                     PRINT  134
      RETURN                                                                       PRINT  135
 6000 FORMAT(1H1,8A10,45X,4HPAGE,I4/)                                              PRINT  136
 6100 FORMAT(6X,6HPERIOD,I4)                                                       PRINT  137
 6200 FORMAT(6X,13HREACTOR POWER//                                                 PRINT  138
     -       50X,18HREACTOR POWER (MW)//                                           PRINT  139
     -       6X,4HTIME,12(I5,3H:00),3X,7HAVERAGE/                                  PRINT  140
     -       2X,4HDATE)                                                            PRINT  141
 6201 FORMAT(6X,14HASSEMBLY POWER//                                                PRINT  142
     -       50X,19HASSEMBLY POWER (MW)//                                          PRINT  143
     -       6X,4HTIME,12(I5,3H:00),3X,7HAVERAGE/                                  PRINT  144
     -       2X,4HDATE)                                                            PRINT  145
 6210 FORMAT(2X,I2,2(1H/,I2),1X,12F8.2,F9.2)                                       PRINT  146
 6211 FORMAT(2X,I2,2(1H/,I2),1X,12F8.4,F9.4)                                       PRINT  147
 6220 FORMAT(1H0,88X,17H** PERIOD AVERAGE,F10.2)                                   PRINT  148
 6221 FORMAT(1H0,88X,17H** PERIOD AVERAGE,F10.4)                                   PRINT  149
 6230 FORMAT(1H0,88X,17H*** TOTAL AVERAGE,F10.2)                                   PRINT  150
 6231 FORMAT(1H0,88X,17H*** TOTAL AVERAGE,F10.4)                                   PRINT  151
 6300 FORMAT(6X,13HASSEMBLY MEAN/                                                  PRINT  152
     -       35X,6HLINEAR/                                                         PRINT  153
     -       22X,40H    POWER    RATINGS   BURNUP      TIME  /                   PRINT  154
     -       22X,40H     (KW)     (W/CM)   (MWD/T)    (DAY) )                   PRINT  155
 6310 FORMAT(12X,4HSTEP,I4,2X,4F10.2)                                             PRINT  156
 6400 FORMAT(6X,9HROD POWER/                                                       PRINT  157
     -       65X,34HLINEAR RATINGS DISTRIBUTION (W/CM),31X,4HPEAK/                 PRINT  158
     -       20X,5HPOWER,14X,6HBOTTOM,70X,3HTOP,12X,6HBURNUP/                      PRINT  159
     -       21X,4H(KW),4X,7HAVERAGE,I7,9I8,6X,4HPEAK,5X,7H(MWD/T))                PRINT  160
 6410 FORMAT(7H0 *STEP,I3)                                                         PRINT  161
 6420 FORMAT(10X,3HFIN,I3,2F10.2,1X,10F8.2,F9.2,F10.2)                             PRINT  162
 6500 FORMAT(6X,17HTHE END OF PERIOD,I4/                                           PRINT  163
     -       47X,33HAXIAL BURNUP DISTRIBUTION (MWD/T)/                             PRINT  164
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     -        21X,6HBOTTOM,79X,3HTOP/                          PRINT      165
     -        16X,10I9,6X,7HAVERAGE/)                          PRINT      166
 6510 FORMAT(10X,3HFIN,I3,3X,10F9.2,2F10.2)                    PRINT      167
      END                                                      PRINT      168
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      SUBROUTINE  PEAK                                                    PEAK       2
      COMMON/SGHWR/REAR   ( 12,500),REAPD   (    500),ASSR   (   100), SGHCOM     2
     -           ASSP     (    100),ASST    (    100),PAXIR  (10,100,5), SGHCOM   3
     -           PEAKR    (100,  5),PEAKT   (100,  5),PINR   (100,  5), SGHCOM    4
     -           PINP     (100,  5),PAXIT   (10,28,2)                  SGHCOM     5
      COMMON/INDEX/IDATE  (    500),IPERI   (     10),NSTEP  (    10), INDCOM     2
     -           NDATP    (     10),NDATS   (    100),IPIN   (     5), INDCOM     3
     -           K                                                     INDCOM     4
      COMMON/CONST/NO       ,NP      ,NA      ,CONR    ,CONL    ,CONP  , CONCOM   2
     -           MONT     (     12),MODM    ,MODY                      CONCOM     3
      IE = NDATP(K)                                                    PEAK       6
      DO 200 J=1,IE                                                    PEAK       7
      TP = 0.                                                          PEAK       8
      DO 100 I=1,NO                                                    PEAK       9
      TP = TP+REAR(I,J)                                                PEAK      10
  100 CONTINUE                                                         PEAK      11
      REAPD(J) = TP/FLOAT(NO)                                          PEAK      12
  200 CONTINUE                                                         PEAK      13
      IE = NSTEP(K)                                                    PEAK      14
      DO 400 L=1,NP                                                    PEAK      15
      DO 400 J=1,IE                                                    PEAK      16
      TP = 0.                                                          PEAK      17
      DO 300 I=1,NA                                                    PEAK      18
      PA = PAXIR(I,J,L)*CONR                                           PEAK      19
      PAXIR(I,J,L) = PA                                                PEAK      20
      TP = TP+PA                                                       PEAK      21
  300 CONTINUE                                                         PEAK      22
      TP = TP/FLOAT(NA)                                                PEAK      23
      PINR(J,L) = TP                                                   PEAK      24
      PINP(J,L) = TP*CONL                                              PEAK      25
      PEAKR(J,L) = PEAKR(J,L)*CONP                                     PEAK      26
  400 CONTINUE                                                         PEAK      27
      DO 500 I=1,IE                                                    PEAK      28
      ASSR(I) = ASSR(I)*CONR                                           PEAK      29
  500 CONTINUE                                                         PEAK      30
      RETURN                                                           PEAK      31
      END                                                              PEAK      32
```

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      SUBROUTINE  PLCTG                                                 PLCTG       2
      DIMENSION   BUF      (    1000)                                   PLOTG       3
      CALL      FLOTS      (BUF      ,     1000,        1)              PLCTG       4
      CALL      F1136M                                                  PLOTG       5
      CALL      NEWPEN     (         1)                                 PLCTG       6
      CALL      PLOT       (20.      ,40.      ,       -3)              PLOTG       7
      CALL      PLAIL                                                   PLCTG       8
      CALL      AXOTST                                                  PLOTG       9
      CALL      PLOT       (-20.     ,-40.     ,      999)              PLCTG      10
      RETURN                                                            PLOTG      11
      END                                                               PLCTG      12
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      SUBROUTINE  PLALL                                                      PLALL       2
      COMMON/SGHWR/REAP   ( 12,500),REAPD   (     500),ASSP    (     100), SGHCOM      2
     -           ASSP    (     100),ASSI    (     100),PAXIR  (10,100,5), SGHCOM      3
     -           FEAKR   (100,   5),FEAKT   (100,   5),PINP   (100,   5), SGHCOM      4
     -           PINP    (100,   5),PAXII   (10,28,2)                     SGHCOM      5
      COMMON/INDEX/IDATE  (     500),IPERT   (      10),NSTEP  (      10), INDCOM      2
     -           NDATP   (      10),NDATS   (     100),IPIN   (       5), INDCOM      3
     -           K                                                        INDCOM      4
      COMMON/TITLE/TITLE  (       8),SPOW    (       3),SPOWK  (       3), TITCOM      2
     -           SPAT    (       3),SBUR    (       3)                    TITCOM      3
      COMMON/OPTIN/IPRI   ,IPLR     ,IPLA    ,IPLM    ,IPLP    ,IFLS    , OPTCOM      2
     -           KSTP    (      30),KPIN    (  5, 10),LPIN   ( 28,   2)  OPTCOM      3
      COMMON/PLOTX/XPER   (      10),XSTP    (     100),XSTB   (     100)  PLOCOM      2
      COMMON/CONST/ND     ,NF       ,NA      ,CONR    ,CONL    ,CONP    , CONCOM      2
     -           MONT    (      12),MODM    ,MODY                         CONCOM      3
      YY = 200.                                                           PLALL       9
      DELD = 1.                                                           PLALL      10
      IFIR = MOD(IDATE(1),MODM)*MODM                                      PLALL      11
      LAST = MOD(IDATE(NDATP(K)),MODM)                                    PLALL      12
      LAST = LAST+MONT(LAST/MODY)*MODM                                    PLALL      13
      LENG = NDAY(IFIR,LAST)                                              PLALL      14
      XX = DELD*FLOAT(LENG+1)                                             PLALL      15
      NFID = IDATE(1)                                                     PLALL      16
      LFID = 1                                                            PLALL      17
      IE = 0                                                              PLALL      18
      DO 100 J=1,K                                                        PLALL      19
      LENG = NDAY(IFIR,NFID)                                              PLALL      20
      NFID = IDATE(NDATP(J)+1)                                            PLALL      21
      XB = DELD*FLOAT(LENG)                                               PLALL      22
      XPER(J) = XB                                                        PLALL      23
      IB = IE+1                                                           PLALL      24
      IE = NSTEP(J)                                                       PLALL      25
      XP = XB                                                             PLALL      26
      DO 90 I=IB,IE                                                       PLALL      27
      LDAY = NDATS(I)/100                                                 PLALL      28
      XD = FLOAT(NDATS(I)-LDAY*100)/12.                                   PLALL      29
      XD = DELD*(FLOAT(LDAY-LFID)+XD)                                     PLALL      30
      XD = XD+XP                                                          PLALL      31
      XSTP(I) = 0.5*(XD+XB)                                               PLALL      32
      XSTB(I) = XD                                                        PLALL      33
      XB = XD                                                             PLALL      34
   90 CONTINUE                                                            PLALL      35
      LFID = NDATP(J)+1                                                   PLALL      36
  100 CONTINUE                                                            PLALL      37
      YMAX = 500.                                                         PLALL      38
      YDIV = 100.                                                         PLALL      39
      IF(IPLR.NE.1.AND.IPLR.NE.3)        GO TO 300                        PLALL      40
      YSCA = YY/YMAX                                                      PLALL      41
      CALL       GRAPH     (XX      ,YY      ,YMAX    ,YDIV    ,SPOW    , PLALL      42
     -           YMAX    ,YDIV    ,SPOW    ,IFIR    ,LAST    ,        0) PLALL      43
      CALL       SYMBOL    (200.    ,-25.    ,5.      ,                   PLALL      44
     -           21HREACTOR POWER HISTORY ,0.      ,       21)            PLALL      45
      XP = 0.5*DELD                                                       PLALL      46
      IE = 0                                                              PLALL      47
      LASD = IFIR                                                         PLALL      48
      DO 200 J=1,K                                                        PLALL      49
      IB = IE+1                                                           PLALL      50
```

```
      IE = NDATP(J)                                                    PLALL   51
      NFID = IDATE(IB)                                                 PLALL   52
   60 LENG = NDAY(LASD,NFID)                                           PLALL   53
      LASD = IDATE(IE)                                                 PLALL   54
      XP = XP+DELD*FLOAT(LENG)                                         PLALL   55
      YP = REAPD(IB)*YSCA                                              PLALL   56
      CALL      PLOT      (XP      ,YP      ,       3)                  PLALL   57
   65 IB = IB+1                                                        PLALL   58
      DO 200 I=IB,IE                                                   PLALL   59
      XP = XP+DELD                                                     PLALL   60
      YP = REAPD(I)*YSCA                                               PLALL   61
      CALL      PLOT      (XP      ,YP      ,       2)                  PLALL   62
   70 200 CONTINUE                                                     PLALL   63
      CALL      PLOT      (XX+50.  ,0.      ,      -3)                  PLALL   64
  300 CONTINUE                                                        PLALL   65
      IF(IPLR.GE.2)                                                    PLALL   66
     -CALL      PLMON     (YY      ,YMAX    ,YDIV    )                 PLALL   67
   75 IF(IPLA.EQ.0)                    GO TO 610                      PLALL   68
      YMAX = 4.                                                        PLALL   69
      YDIV = 1.                                                        PLALL   70
      YSCA = YY/YMAX                                                   PLALL   71
      YMAX2 = 10000.                                                   PLALL   72
   80 YDIV2 = 2500.                                                    PLALL   73
      YSCA2 = YY/YMAX2                                                 PLALL   74
      CALL      GRAPH     (XX      ,YY      ,YMAX    ,YDIV    ,SPOW    , PLALL   75
     -            YMAX2   ,YDIV2   ,SBOR    ,IFIR    ,LAST    ,       0) PLALL   76
      CALL      SYMPOL    (100.    ,-25.    ,5.      ,                   PLALL   77
   85 -            43HASSEMBLY POWER HISTORY AND BURNUP (AVERAGE)      , PLALL   78
     -            0.       ,      43)                                   PLALL   79
      YB = 0.                                                          PLALL   80
      IE = 0                                                           PLALL   81
      DO 500 J=1,K                                                     PLALL   82
   90 IB = IE+1                                                        PLALL   83
      IE = NSTEP(J)                                                    PLALL   84
      CALL      PLOT      (XPEP(J) ,YB      ,       3)                  PLALL   85
      DO 400 I=IB,IE                                                   PLALL   86
      YB = ASSI(I)*YSCA2                                               PLALL   87
   95 CALL      DASHPT    (XSTB(I) ,YB      ,1.0     )                 PLALL   88
  400 CONTINUE                                                        PLALL   89
      YP = ASSP(IB)*YSCA                                               PLALL   90
      CALL      PLOT      (XSTP(IB),YP      ,       3)                  PLALL   91
      DO 500 I=IB,IE                                                   PLALL   92
  100 YP = ASSP(I)*YSCA                                                PLALL   93
      CALL      PLOT      (XSTP(I) ,YP      ,       2)                  PLALL   94
  500 CONTINUE                                                        PLALL   95
      CALL      PLOT      (XX+50.  ,0.      ,      -3)                  PLALL   96
      IF(IPLA.EQ.1)                       GO TO 610                    PLALL   97
  105 YMAX = 600.                                                      PLALL   98
      YDIV = 100.                                                      PLALL   99
      YSCA = YY/YMAX                                                   PLALL  100
      CALL      GRAPH     (XX      ,YY      ,YMAX    ,YDIV    ,SPAT    , PLALL  101
     -            YMAX    ,YDIV    ,SPAT    ,IFIR    ,LAST    ,       0) PLALL  102
  110 CALL      SYMPOL    (190.    ,-25.    ,5.      ,                   PLALL  103
     -            33HASSEMBLY LINEAR RATINGS (AVERAGE)        ,0.      , PLALL  104
     -                 33)                                             PLALL  105
      IE = 0                                                           PLALL  106
      DO 600 J=1,K                                                     PLALL  107
```

```
      TB = IE+1                                                          PLALL  108
      IE = NSTEP(J)                                                      PLALL  109
      YP = ASSR(IB)*YSCA                                                 PLALL  110
      CALL      PLOT      (XSTP(IB),YP      ,       3)                   PLALL  111
      DO 600 I=IB,IE                                                     PLALL  112
      YP = ASSR(I)*YSCA                                                  PLALL  113
      CALL      PLOT      (XSTP(I) ,YP      ,       2)                   PLALL  114
  600 CONTINUE                                                           PLALL  115
      CALL      PLOT      (XX+50.  ,0.      ,      -3)                   PLALL  116
  610 CONTINUE                                                           PLALL  117
      IF(IPLM.EQ.0)                    GO TO 910                         PLALL  118
      YMAX = 600.                                                        PLALL  119
      YDIV = 100.                                                        PLALL  120
      YSCA = YY/YMAX                                                     PLALL  121
      YMAX2 = 12000.                                                     PLALL  122
      YDIV2 = 2000.                                                      PLALL  123
      YSCA2 = YY/YMAX2                                                   PLALL  124
      DO 900 L=1,NP                                                      PLALL  125
C     L = NP                                                             PLALL  126
      CALL      GRAPH     (XX      ,YY      ,YMAX    ,YDIV    ,SRAT    , PLALL  127
     -           YMAX2    ,YDIV2   ,SRUR    ,IFIR    ,LAST    ,IPIN(L) ) PLALL  128
      CALL      SYMBOL    (180.    ,-25.    ,5.      ,                   PLALL  129
     -             34HROD PEAK LINEAR RATINGS AND BURNUP       ,0.      , PLALL  130
     -                  34)                                             PLALL  131
      YB = 0.                                                            PLALL  132
      IE = 0                                                             PLALL  133
      DO 800 J=1,K                                                       PLALL  134
      IB = IE+1                                                          PLALL  135
      IE = NSTEP(J)                                                      PLALL  136
      CALL      PLOT      (XPEK(J) ,YB      ,       3)                   PLALL  137
      DO 700 I=IB,IE                                                     PLALL  138
      YB = PEAKI(I,L)*YSCA2                                              PLALL  139
      CALL      DASHPT    (XSTB(I) ,YB      ,1.0     )                   PLALL  140
  700 CONTINUE                                                           PLALL  141
      YP = PEAKR(IB,L)*YSCA                                              PLALL  142
      CALL      PLOT      (XSTP(IB),YP      ,       3)                   PLALL  143
      DO 800 I=IB,IE                                                     PLALL  144
      YP = PEAKR(I,L)*YSCA                                               PLALL  145
      CALL      PLOT      (XSTP(I) ,YP      ,       2)                   PLALL  146
  800 CONTINUE                                                           PLALL  147
      CALL      PLOT      (XX+50.  ,0.      ,      -3)                   PLALL  148
  900 CONTINUE                                                           PLALL  149
  910 CONTINUE                                                           PLALL  150
      IF(IPLP.EQ.0)                    GO TO 1210                        PLALL  151
      YMAX = 200.                                                        PLALL  152
      YDIV = 50.                                                         PLALL  153
      YSCA = YY/YMAX                                                     PLALL  154
      YMAX2 = 600.                                                       PLALL  155
      YDIV2 = 150.                                                       PLALL  156
      YSCA2 = YY/YMAX2                                                   PLALL  157
      DO 1200 L=1,NP                                                     PLALL  158
C     L = NP                                                             PLALL  159
      CALL      GRAPH     (XX      ,YY      ,YMAX    ,YDIV    ,SPOWK   , PLALL  160
     -           YMAX2    ,YDIV2   ,SRAT    ,IFIR    ,LAST    ,IPIN(L) ) PLALL  161
      CALL      SYMBOL    (180.    ,-25.    ,5.      ,                   PLALL  162
     -             36HROD POWER HISTORY AND LINEAR RATINGS     ,0.      , PLALL  163
     -                  36)                                             PLALL  164
```

```
      IE = 0                                                    PLALL     165
      DO 1100 J=1,K                                             PLALL     166
      IB = IE+1                                                 PLALL     167
      IE = NSTEP(J)                                             PLALL     168
      XP = XSTP(IB)                                             PLALL     169
      YP = PINP(IB,L)*YSCA                                      PLALL     170
      YB = PINR(IB,L)*YSCA2                                     PLALL     171
      CALL     PLOT     (XP      ,YP     ,       3)             PLALL     172
      DO 1000 I=IB,IE                                           PLALL     173
      YP = PINP(I,L)*YSCA                                       PLALL     174
      CALL     PLOT     (XSTP(I) ,YP     ,       2)             PLALL     175
 1000 CONTINUE                                                  PLALL     176
      CALL     PLOT     (XP      ,YB     ,       3)             PLALL     177
      DO 1100 I=IB,IE                                           PLALL     178
      YB = PINR(I,L)*YSCA2                                      PLALL     179
      CALL     DASHPT   (XSTP(I) ,YB     ,1.0     )             PLALL     180
 1100 CONTINUE                                                  PLALL     181
      CALL     PLOT     (XX+50.  ,0.     ,      -3)             PLALL     182
 1200 CONTINUE                                                  PLALL     183
 1210 CONTINUE                                                  PLALL     184
      RETURN                                                    PLALL     185
      END                                                       PLALL     186
```

```
      SUBROUTINE  PLMON   (YY       ,YMAX     ,YDIV     )                  PLMON     2
      COMMON/SGHWP/REAP   ( 12,500),REAPD   (    500),ASSP    (    100), SGHCOM    2
     -           ASSR     (    100),ASST    (    100),PAXIR   (10,100,5), SGHCOM    3
     -           PEAKP    (100,  5),PEAKT   (100,  5),PINP    (100,  5), SGHCOM    4
     -           PINR     (100,  5),PAXII   (10,28,2)                    SGHCOM    5
      COMMON/INDEX/IDATE  (    500),IPERT   (     10),NSTEP   (     10), INDCOM    2
     -           NDATP    (     10),NDATS   (    100),IPIN    (      5), INDCOM    3
     -           K                                                       INDCOM    4
      COMMON/TITLE/TITLE  (      8),SPOW    (      3),SPOWK   (      3), TITCOM    2
     -           SPAT     (      3),SPUP    (      3)                    TITCOM    3
      COMMON/CONST/NC     ,NP       ,NA       ,CONR     ,CONL     ,CONP    , CONCOM    2
     -           MONT     (     12),MODM    ,MODY                        CONCOM    3
      DELD = 10.                                                         PLMON     7
      DELT = DELD/FLOAT(ND)                                              PLMON     8
      YSCA = YY/YMAX                                                     PLMON     9
      ID = 1                                                             PLMON    10
      IP = 1                                                             PLMON    11
      NY = MOD(IDATE(1),MODM)                                            PLMON    12
  100 CONTINUE                                                           PLMON    13
      IFIR = NY+MODM                                                     PLMON    14
      MY = NY/MODY                                                       PLMON    15
      LD = MONT(MY)                                                      PLMON    16
      IF(MY.EQ.2)    LD = LD+IUPUU(NY)                                   PLMON    17
      LAST = NY+LD*MODM                                                  PLMON    18
      XX = DELD*FLOAT(LD)                                                PLMON    19
      NDIV = IFIX(YMAX/YDIV)-1                                           PLMON    20
      SDEL = YY*YDIV/YMAX                                                PLMON    21
      CALL        GRAPH    (XX       ,YY       ,YMAX     ,YDIV     ,SPOW     , PLMON    22
     -            YMAX     ,YDIV     ,SPOW     ,IFIR     ,LAST     ,        0) PLMON    23
      CALL        YCROS    (XX       ,NDIV     ,SDEL     )                PLMON    24
      CALL        XAXIS    (YY       ,LD       ,DELD     ,0.       )      PLMON    25
      CALL        SYMBOL   (100.     ,-25.     ,5.       ,                PLMON    26
     -            21HREACTOR POWER HISTORY     ,0.       ,       21)      PLMON    27
      SIZE = 2.5                                                         PLMON    28
      XP = 0.5*DELD-0.3*SIZE                                             PLMON    29
      YP = -6.5                                                          PLMON    30
      DATE = 0.                                                          PLMON    31
      DO 700 I=1,LD                                                      PLMON    32
      DATE = DATE+1.                                                     PLMON    33
      IF(DATE.EQ.10.)    XP = XP-0.4*SIZE                                PLMON    34
      CALL        NUMBER   (XP       ,YP       ,SIZE     ,DATE     ,0.       , PLMON    35
     -            -1)                                                    PLMON    36
      XP = XP+DELD                                                       PLMON    37
  700 CONTINUE                                                           PLMON    38
      MY = NY                                                            PLMON    39
  200 CONTINUE                                                           PLMON    40
      LD = (IDATE(ID)-IFIR)/MODM                                         PLMON    41
      XP = DELT+DELD*FLOAT(LD)                                           PLMON    42
      YP = REAP(1,ID)*YSCA                                               PLMON    43
      CALL        PLOT     (XP       ,YP       ,        3)               PLMON    44
      IE = NDATP(IP)                                                     PLMON    45
  300 CONTINUE                                                           PLMON    46
      IF(NY.NE.MY)                         GO TO 500                     PLMON    47
      DO 400 I=1,ND                                                      PLMON    48
      YP = REAP(I,ID)*YSCA                                               PLMON    49
      CALL        PLOT     (XP       ,YP       ,        2)               PLMON    50
      XP = XP+DELT                                                       PLMON    51
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```
                400 CONTINUE                                                    PLMON      52
                    ID = ID+1                                                   PLMON      53
60                  NY = MOD(IDATE(ID),MODM)                                    PLMON      54
                    IF(ID.LE.IE)                        GO TO 300               PLMON      55
                    IP = IP+1                                                   PLMON      56
                    IF(IP.GT.K)                         GO TO 600               PLMON      57
                    IF(MY.EQ.NY)                        GO TO 200               PLMON      58
65              500 CONTINUE                                                    PLMON      59
                    CALL      PLOT      (XX+50.  ,0.      ,      -3)            PLMON      60
                    GO TO 100                                                   PLMON      61
                600 CONTINUE                                                    PLMON      62
                    CALL      PLOT      (XX+50.  ,0.      ,      -3)            PLMON      63
70                  RETURN                                                      PLMON      64
                    END                                                         PLMON      65
```

```
      SUBROUTINE  AXDIST                                                AXDIST     2
      COMMON/SGHWR/PEAP    ( 12,500),PEAPD   (     500),ASSP    (    100), SGHCOM     2
     -           ASSR      (     100),ASSI    (     100),PAXIR   (10,100,5), SGHCOM     3
     -           PEAKP     (100,   5),PEAKT   (100,   5),PINP    (100,   5), SGHCOM     4
     -           PINR      (100,   5),PAXIT   (10,28,2)                     SGHCOM     5
      COMMON/INDEX/IDATE   (     500),IPERI   (      10),NSTEP   (     10), INDCOM     2
     -           NDATP     (      10),NDATS   (     100),IPIN    (      5), INDCOM     3
     -           K                                                          INDCOM     4
      COMMON/CONST/ND      ,NP       ,NA      ,CONR     ,CONL     ,CONP    , CONCOM     2
     -           MONT      (      12),MODM    ,MODY                         CONCOM     3
      COMMON/TITLE/TITLE   (       8),SPOW    (       3),SPOWK   (      3), TITCOM     2
     -           SRAT      (       3),SRUR    (       3)                    TITCOM     3
      COMMON/OPTIN/IPRI    ,IPLR     ,IPLA    ,IPLM     ,IPLP     ,IPLS    , OPTCOM     2
     -           KSTP      (      30),KPIN    (  5, 10),LPIN    ( 28,  2)  OPTCOM     3
      XX = 300.                                                         AXDIST     8
      IF(IPLS.LE.0)                    GO TO 410                        AXDIST     9
      YMAX = 600.                                                       AXDIST    10
      YDIV = 100.                                                       AXDIST    11
      DO 400 L=1,IPLS                                                   AXDIST    12
      IP = KSTP(L)/100                                                  AXDIST    13
      IS = KSTP(L)-IP*100                                               AXDIST    14
      DO 100 I=1,K                                                      AXDIST    15
      IF(IP.EQ.IPERI(I))               GO TO 110                        AXDIST    16
  100 CONTINUE                                                          AXDIST    17
      GO TO 400                                                         AXDIST    18
  110 CONTINUE                                                          AXDIST    19
      N = IS                                                            AXDIST    20
      IF(I.GT.1)    N = N+NSTEP(I-1)                                    AXDIST    21
      DO 300 J=1,NP                                                     AXDIST    22
      IF(KPIN(J).LE.0)                 GO TO 400                        AXDIST    23
      DO 200 I=1,NP                                                     AXDIST    24
      IF(KPIN(J).EQ.IPIN(I))           GO TO 210                        AXDIST    25
  200 CONTINUE                                                          AXDIST    26
      GO TO 300                                                         AXDIST    27
  210 CONTINUE                                                          AXDIST    28
      CALL      PLAXIS     (XX      ,IP      ,IS       ,KPIN(J) ,SRAT    , AXDIST    29
     -          YMAX       ,YDIV    ,PAXIR(1,N,I)      )                AXDIST    30
      CALL      SYMBOL     (90.     ,-25.    ,5.       ,                AXDIST    31
     -           28HAXIAL ROD POWER DISTRIBUTION       ,0.      ,      28) AXDIST    32
      CALL      PLOT       (XX+50.  ,0.      ,        -3)               AXDIST    33
  300 CONTINUE                                                          AXDIST    34
  400 CONTINUE                                                          AXDIST    35
  410 CONTINUE                                                          AXDIST    36
      YMAX = 12000.                                                     AXDIST    37
      YDIV = 2000.                                                      AXDIST    38
      IP = 34                                                           AXDIST    39
      LB = 1                                                            AXDIST    40
      N = K-1                                                           AXDIST    41
      DO 500 I=1,N                                                      AXDIST    42
      IF(IP.EQ.IPERI(I))               GO TO 510                        AXDIST    43
  500 CONTINUE                                                          AXDIST    44
      I = K                                                             AXDIST    45
      LB = 2                                                            AXDIST    46
  510 CONTINUE                                                          AXDIST    47
      DO 700 L=LB,2                                                     AXDIST    48
      IS = NSTEP(I)                                                     AXDIST    49
      IF(I.GT.1)    IS = IS-NSTEP(I-1)                                  AXDIST    50
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```
      IP = IREGI(T)                                                    AXDIST    51
      T = K                                                            AXDIST    52
60    DO 600 J=1,28                                                    AXDIST    53
      LP = LPIN(J,L)                                                   AXDIST    54
      IF(LP.LE.0)                    GO TO 700                         AXDIST    55
      CALL      PLAXIS    (XX       ,IP       ,IS       ,LP       ,SNUP     , AXDIST    56
     -           YMAX     ,YDIV     ,PAXII(1,LP,L)     )                AXDIST    57
65    CALL      SYMBOL    (90.      ,-25.     ,5.       ,                AXDIST    58
     -             28HAXIAL ROD BURNUP DISTRIBUTION    ,0.       ,      28) AXDIST    59
      CALL      PLOT      (XX+50.   ,0.       ,      -3)                 AXDIST    60
  600 CONTINUE                                                         AXDIST    61
  700 CONTINUE                                                         AXDIST    62
70    RETURN                                                           AXDIST    63
      END                                                              AXDIST    64
```

```
      SUBROUTINE   PLAXIS   (XX       ,IF       ,IS       ,NPIN     ,STAR     , PLAXIS      2
     -             YMAX     ,YDIV     ,PA       )                               PLAXIS      3
      COMMON/INDEX/IDATE    (     500),IPERI    (      10),NSTEP    (      10), INDCOM      2
     -             NDATP    (      10),NDATS    (     100),IPIN     (       5), INDCOM      3
     -             K                                                            INDCOM      4
      COMMON/CONST/NO       ,NF       ,NA       ,CONR     ,CONL     ,CONP     , CONCOM      2
     -             MONT     (      12),MODM     ,MODY                           CONCOM      3
      DIMENSION    X        (      10),Y        (      10),W        (      10), PLAXIS      6
     -             RESID    (      10),SUM      (      10),A        (   5,   5), PLAXIS      7
     -             B        (       5),PA       (       1)                      PLAXIS      8
      YFIT(XP) = B(1)+XP*(B(2)+XP*(B(3)+XP*(B(4)+XP*B(5))))                     PLAXIS      9
      YY = 200.                                                                 PLAXIS     10
      YSCA = YY/YMAX                                                            PLAXIS     11
      CALL        GRAPA     (XX       ,YY       ,YMAX     ,YDIV     ,STAR     , PLAXIS     12
     -             YMAX     ,YDIV     ,STAR     ,IP       ,IS       ,NPIN     ) PLAXIS     13
      SDEL = 0.05                                                               PLAXIS     14
      NDIV = IFIX(CONL/SDEL)                                                    PLAXIS     15
      SDEL = XX*SDEL/CONL                                                       PLAXIS     16
      CALL        XAXIS     (YY       ,NDIV     ,SDEL     ,50.      )           PLAXIS     17
      DELX = XX/FLOAT(NA)                                                       PLAXIS     18
      XP = 0.5*DELX                                                             PLAXIS     19
      DO 100 I=1,NA                                                             PLAXIS     20
      X(I) = XP                                                                 PLAXIS     21
      Y(I) = PA(I)*YSCA                                                         PLAXIS     22
      W(I) = 1.                                                                 PLAXIS     23
      CALL        SYMBOL    (XP       ,Y(I)     ,2.       ,         1,0.      , PLAXIS     24
     -          -1)                                                             PLAXIS     25
      XP = XP+DELX                                                              PLAXIS     26
  100 CONTINUE                                                                  PLAXIS     27
      CALL        LSQF      (X        ,Y        ,W        ,RESID    ,NA       , PLAXIS     28
     -             SUM      ,         1,A       ,B        ,         5,NA      , PLAXIS     29
     -           5)                                                             PLAXIS     30
      XP = 0.                                                                   PLAXIS     31
      YP = YFIT(XP)                                                             PLAXIS     32
      CALL        PLOT      (XP       ,YP       ,         3)                    PLAXIS     33
      NN = IFIX(XX)                                                             PLAXIS     34
      DO 200 I=1,NN                                                             PLAXIS     35
      XP = XP+1.                                                                PLAXIS     36
      YP = YFIT(XP)                                                             PLAXIS     37
      CALL        PLOT      (XP       ,YP       ,         2)                    PLAXIS     38
  200 CONTINUE                                                                  PLAXIS     39
      YP = YFIT(XX)                                                             PLAXIS     40
      CALL        PLOT      (XX       ,YP       ,         2)                    PLAXIS     41
      RETURN                                                                    PLAXIS     42
      END                                                                       PLAXIS     43
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      SUBROUTINE  GRAPH   (XX      ,YY      ,YMAX    ,YDIV    ,STAR    , GRAPH   2
     -            YMAX2   ,YDIV2   ,STAR2   ,I1      ,I2      ,NPIN    ) GRAPH   3
      COMMON/INDEX/IDATE  (     500),IPERI  (      10),NSTEP  (      10), INDCOM  2
     -            NDATP   (      10),NDATS  (     100),IPIN   (       5), INDCOM  3
     -            K                                                     INDCOM  4
      COMMON/PLOTX/XPER   (      10),XSTP   (     100),XSTB   (     100)  PLOCOM  2
      DATA        SIZE    / 3.      /                                   GRAPH   6
      CALL        NEWPEN  (       2)                                    GRAPH   7
      DO 100 I=1,K                                                      GRAPH   8
      CALL        PLOT    (XPER(I) ,YY      ,       3)                  GRAPH   9
      CALL        PLOT    (XPER(I) ,-10.    ,       2)                  GRAPH  10
      IE = NSTEP(I)                                                     GRAPH  11
      CALL        PLOT    (XSTB(IE),-10.    ,       3)                  GRAPH  12
      CALL        PLOT    (XSTB(IE),YY      ,       2)                  GRAPH  13
  100 CONTINUE                                                          GRAPH  14
      IE = IE-1                                                         GRAPH  15
      J = IE                                                            GRAPH  16
      Y1 = YY                                                           GRAPH  17
      Y2 = Y1-2.                                                        GRAPH  18
  150 CONTINUE                                                          GRAPH  19
      CALL        PLOT    (XSTB(J) ,Y1      ,       3)                  GRAPH  20
      CALL        PLOT    (XSTB(J) ,Y2      ,       2)                  GRAPH  21
      J = J-1                                                           GRAPH  22
      IF(J.GT.0)                        GO TO 150                       GRAPH  23
      Y1 = 0.                                                           GRAPH  24
      Y2 = 2.                                                           GRAPH  25
      DO 200 I=1,IE                                                     GRAPH  26
      CALL        PLOT    (XSTB(I) ,Y1      ,       3)                  GRAPH  27
      CALL        PLOT    (XSTB(I) ,Y2      ,       2)                  GRAPH  28
  200 CONTINUE                                                          GRAPH  29
      CALL        NEWPEN  (       1)                                    GRAPH  30
      YP = -7.                                                          GRAPH  31
      J = K                                                             GRAPH  32
  300 CONTINUE                                                          GRAPH  33
      XP = 0.5*(XPER(J)+XSTB(NSTEP(J)))-SIZE                            GRAPH  34
      VA = FLOAT(IPERI(J))                                              GRAPH  35
      CALL        NUMBER  (XP      ,YP      ,SIZE    ,VA      ,0.      , GRAPH  36
     -                     -1)                                          GRAPH  37
      J = J-1                                                           GRAPH  38
      IF(J.GT.1)                        GO TO 300                       GRAPH  39
      XP = 0.5*(XPER(1)+XSTB(NSTEP(1)))-4.*SIZE                         GRAPH  40
      VA = FLOAT(IPERI(1))                                              GRAPH  41
      CALL        SYMBOL  (XP      ,YP      ,SIZE    ,7HPERIOD          , GRAPH  42
     -            0.      ,       7)                                    GRAPH  43
      CALL        NUMBER  (999.    ,999.    ,SIZE    ,VA      ,0.      , GRAPH  44
     -                     -1)                                          GRAPH  45
      ENTRY       GRAPM                                                 GRAPH  46
      Y2 = YY+2.                                                        GRAPH  47
      CALL        FROMTO  (10.     ,Y2      ,I1      ,I2      )         GRAPH  48
  400 CONTINUE                                                          GRAPH  49
      Y1 = YY+6.                                                        GRAPH  50
      CALL        SYMBOL  (10.     ,Y1      ,SIZE    ,12HSGHWR TYPE-D  , GRAPH  51
     -            0.      ,      12)                                    GRAPH  52
      IF(NPIN.LE.0)                     GO TO 500                       GRAPH  53
      CALL        SYMBOL  (50.     ,Y1      ,SIZE    ,8HPIN NO.        , GRAPH  54
     -            0.      ,       8)                                    GRAPH  55
      VA = FLOAT(NPIN)                                                  GRAPH  56
```

```
      CALL      NUMBER    (999.     ,999.     ,SIZE     ,VA       ,0.       , GRAPH      57
     -                    -1)                                                  GRAPH      58
60    500 CONTINUE                                                            GRAPH      59
      NDIV = IFIX(YMAX2/YDIV2)                                                GRAPH      60
      SDEL = YY*YDIV2/YMAX2                                                   GRAPH      61
      CALL      PLAME     (XX       ,YY       )                              GRAPH      62
      CALL      YAXIS     (XX       ,NDIV     ,SDEL     ,YDIV2    ,       -1) GRAPH      63
65    CALL      SYMBOL    (XX+17.   ,70.      ,SIZE     ,STAR2    ,90.      , GRAPH      64
     -                    30)                                                  GRAPH      65
      IF(STAR.EQ.STAR2)                  GO TO 600                            GRAPH      66
      X1 = XX-70.                                                             GRAPH      67
      CALL      SYMBOL    (X1       ,Y1       ,SIZE     ,STAR     ,0.       , GRAPH      68
70   -                    20)                                                  GRAPH      69
      CALL      SYMBOL    (X1       ,Y2       ,SIZE     ,STAR2    ,0.       , GRAPH      70
     -                    20)                                                  GRAPH      71
      X1 = X1-5.                                                              GRAPH      72
      X2 = X1-20.                                                             GRAPH      73
75    Y1 = YY+3.                                                              GRAPH      74
      CALL      PLOT      (X1       ,Y1       ,         3)                     GRAPH      75
      CALL      DASHPT    (X2       ,Y1       ,1.0      )                     GRAPH      76
      Y1 = Y1+4.                                                              GRAPH      77
      CALL      PLOT      (X1       ,Y1       ,         3)                     GRAPH      78
80    CALL      PLOT      (X2       ,Y1       ,         2)                     GRAPH      79
    600 CONTINUE                                                              GRAPH      80
      NDIV = IFIX(YMAX/YDIV)                                                  GRAPH      81
      SDEL = YY*YDIV/YMAX                                                     GRAPH      82
      CALL      SYMBOL    (-14.     ,70.      ,SIZE     ,STAR     ,90.      , GRAPH      83
85   -                    30)                                                  GRAPH      84
      CALL      YAXIS     (0.       ,NDIV     ,SDEL     ,YDIV     ,         1) GRAPH      85
      RETURN                                                                  GRAPH      86
      ENTRY       GRAPA                                                       GRAPH      87
      YP = -14.                                                               GRAPH      88
90    CALL      SYMBOL    (10.      ,YP       ,SIZE     ,6HBOTTOM,0.        , GRAPH      89
     -                     6)                                                 GRAPH      90
      CALL      SYMBOL    (200.     ,YP       ,SIZE     ,                     GRAPH      91
     -                  25HDISTANCE FROM BOTTOM (CM)      ,0.       ,       25) GRAPH      92
      CALL      SYMBOL    (XX-20.   ,YP       ,SIZE     ,3HTOP    ,0.       , GRAPH      93
95   -                    3)                                                   GRAPH      94
      Y2 = YY+2.                                                              GRAPH      95
      CALL      SYMBOL    (10.      ,Y2       ,SIZE     ,                     GRAPH      96
     -                  18HOPERATING PERIOD       ,0.       ,         18)     GRAPH      97
      VA = FLOAT(I1)                                                          GRAPH      98
100   CALL      NUMBER    (999.     ,999.     ,SIZE     ,VA       ,0.       , GRAPH      99
     -                    -1)                                                  GRAPH     100
      CALL      SYMBOL    (70.      ,Y2       ,SIZE     ,6HSTEP   ,0.       , GRAPH     101
     -                     6)                                                 GRAPH     102
      VA = FLOAT(I2)                                                          GRAPH     103
105   CALL      NUMBER    (999.     ,999.     ,SIZE     ,VA       ,0.       , GRAPH     104
     -                    -1)                                                  GRAPH     105
      GO TO 400                                                               GRAPH     106
      END                                                                     GRAPH     107
```

```
      SUBROUTINE  FLAME   (XX     ,YY      )                          FLAME     2
      CALL      PLOT      (0.     ,0.      ,       3)                 FLAME     3
      CALL      PLOT      (0.     ,YY      ,       2)                 FLAME     4
      CALL      PLOT      (XX     ,YY      ,       2)                 FLAME     5
      CALL      PLOT      (XX     ,-10.    ,       2)                 FLAME     6
      CALL      PLOT      (0.     ,-10.    ,       2)                 FLAME     7
      CALL      PLOT      (0.     ,0.      ,       2)                 FLAME     8
      CALL      PLOT      (XX     ,0.      ,       2)                 FLAME     9
      RETURN                                                          FLAME    10
      END                                                             FLAME    11
```

```
      SUBROUTINE  XAXIS   (YY      ,NDIV    ,SDEL    ,XDIV    )         XAXIS       2
      DATA        SIZE    / 2.    /                                     XAXIS       3
      Y1 = YY                                                           XAXIS       4
      Y2 = YY-2.                                                        XAXIS       5
      XP = 0.                                                           XAXIS       6
      DO 100 I=1,NDIV                                                   XAXIS       7
      XP = XP+SDEL                                                      XAXIS       8
      CALL        PLOT    (XP      ,Y1      ,       3)                  XAXIS       9
      CALL        PLOT    (XP      ,Y2      ,       2)                  XAXIS      10
  100 CONTINUE                                                          XAXIS      11
      Y1 = 0.                                                           XAXIS      12
      Y2 = 2.                                                           XAXIS      13
      DO 200 I=1,NDIV                                                   XAXIS      14
      CALL        PLOT    (XP      ,Y1      ,       3)                  XAXIS      15
      CALL        PLOT    (XP      ,Y2      ,       2)                  XAXIS      16
      XP = XP-SDEL                                                      XAXIS      17
  200 CONTINUE                                                          XAXIS      18
      IF(XDIV.LE.0.)    RETURN                                          XAXIS      19
      NN = KETAF(XDIV)                                                  XAXIS      20
      XP = 0.43*SIZE*FLOAT(KETAI(XDIV)+NN+1)                            XAXIS      21
      YP = -6.                                                          XAXIS      22
      VA = 0.                                                           XAXIS      23
      DO 300 I=1,NDIV                                                   XAXIS      24
      XP = XP+SDEL                                                      XAXIS      25
      VA = VA+XDIV                                                      XAXIS      26
      CALL        NUMD    (XP      ,YP      ,SIZE    ,VA      ,0.      ,XAXIS      27
     -            NN      )                                             XAXIS      28
  300 CONTINUE                                                          XAXIS      29
      RETURN                                                            XAXIS      30
      END                                                               XAXIS      31
```

```
SUBROUTINE YAXIS       74/74   OPT=1                    FTN 4.6+428        02/07/79  13.35.07       PAGE      1

 1                SUBROUTINE  YAXIS   (XX      ,NDIV    ,SDEL    ,YDIV    ,IP      ) YAXIS       2
                  XP = XX+FLOAT(IP+IP)                                                  YAXIS       3
                  YP = 0.                                                               YAXIS       4
                  ND2 = NDIV+NDIV                                                       YAXIS       5
 5                SD2 = 0.5*SDEL                                                        YAXIS       6
                  DO 100 I=1,ND2                                                        YAXIS       7
                  YP = YP+SD2                                                           YAXIS       8
                  CALL      PLOT      (XX      ,YP      ,        3)                    YAXIS       9
                  CALL      PLOT      (XP      ,YP      ,        2)                    YAXIS      10
10          100 CONTINUE                                                              YAXIS      11
                  VALU = YDIV*FLOAT(NDIV)                                               YAXIS      12
                  NN = KETAF(YDIV)                                                      YAXIS      13
                  XP = XX-2.                                                            YAXIS      14
                  IF(IP.LT.0)   XP = XX+2.+1.714*FLOAT(KETAI(VALU)+1)                   YAXIS      15
15                YP = YP-1.                                                            YAXIS      16
                  DO 200 I=1,NDIV                                                       YAXIS      17
                  CALL      NUMD      (XP      ,YP      ,2.      ,VALU    ,0.      , YAXIS      18
                 -            NN      )                                               YAXIS      19
                  VALU = VALU-YDIV                                                      YAXIS      20
20                YP = YP-SDEL                                                          YAXIS      21
                  YP = YP-SDEL                                                          YAXIS      22
          200 CONTINUE                                                              YAXIS      23
                  CALL      NUMD      (XP      ,-1.     ,2.      ,0.      ,0.      , YAXIS      24
                 -            NN      )                                               YAXIS      25
                  RETURN                                                                YAXIS      26
25                END                                                                   YAXIS      27
```

```
SUBROUTINE YCROS      74/74   OPT=1                    FTN 4.6+428      02/07/79  13.35.07      PAGE     1

 1              SUBROUTINE  YCROS   (XX      ,NDIV    ,SDEL    )          YCROS      2
                CALL        NEWPEN  (       2)                           YCROS      3
                X1 = 0.                                                  YCROS      4
                Y2 = XX                                                  YCROS      5
 5              YP = 0.                                                  YCROS      6
                DO 100 I=1,NDIV                                          YCROS      7
                YP = YP+SDEL                                             YCROS      8
                CALL        PLOT    (X1      ,YP      ,       3)         YCROS      9
                CALL        DASHPT  (X2      ,YP      ,1.      )         YCROS     10
10              XP = X1                                                  YCROS     11
                X1 = X2                                                  YCROS     12
                X2 = XP                                                  YCROS     13
            100 CONTINUE                                                 YCROS     14
                CALL        NEWPEN  (       1)                           YCROS     15
15              RETURN                                                   YCROS     16
                END                                                      YCROS     17
```

```
SUBROUTINE NUMD       74/74   OPT=1                    FTN 4.6+429       02/07/79  13.35.07       PAGE     1

1                SUBROUTINE  NUMD     (XP       ,YP       ,SIZE     ,VALU     ,ANGL     , NUMD        2
                -            NN       )                                                    NUMD        3
                 KK = KETAI(VALU)+NN+1                                                     NUMD        4
                 XS = XP-0.857*SIZE*FLOAT(KK)                                              NUMD        5
5                CALL        NUMBER   (XS       ,YP       ,SIZE     ,VALU     ,ANGL     , NUMD        6
                -            NN       )                                                    NUMD        7
                 RETURN                                                                    NUMD        8
                 END                                                                       NUMD        9
```

```
            FUNCTION    KETAI   (VALU    )                              KETAI      2
            VA = VALU                                                   KETAI      3
            KETAI = 1                                                   KETAI      4
        100 CONTINUE                                                    KETAI      5
            IF(VA.LT.10.)   RETURN                                      KETAI      6
            VA = 0.1*VA                                                 KETAI      7
            KETAI = KETAI+1                                             KETAI      8
            GO TO 100                                                   KETAI      9
            END                                                         KETAI     10
```

```
               FUNCTION    KETAF   (VALU     )                    KETAF       2
               VA = VALU                                          KETAF       3
               KETAF = 0                                          KETAF       4
           100 CONTINUE                                           KETAF       5
               IF(VA.LT.1.)                      GO TO 150        KETAF       6
               VI = VA-FLOAT(IFIX(VA))                            KETAF       7
               IF(VI.LT.0.01)   RETURN                            KETAF       8
           150 CONTINUE                                           KETAF       9
               VA = 10.*VA                                        KETAF      10
               KETAF = KETAF+1                                    KETAF      11
               GO TO 100                                          KETAF      12
               END                                                KETAF      13
```

```
      SUBROUTINE  FROMTO  (XP      ,YP      ,IFIR    ,LAST    )          FROMTO     2
      SIZE = 3.                                                          FROMTO     3
      CALL      SYMBOL    (XP      ,YP      ,SIZE    ,5HFROM  ,0.      , FROMTO     4
     -          5)                                                       FROMTO     5
      CALL      SEPD      (IFIR    ,I1      ,I2      ,I3      )          FROMTO     6
      IT = 1                                                             FROMTO     7
  100 CONTINUE                                                           FROMTO     8
      DATE = FLOAT(I1)                                                   FROMTO     9
      CALL      NUMBER    (999.    ,999.    ,SIZE    ,DATE    ,0.      , FROMTO    10
     -         -1)                                                       FROMTO    11
      CALL      SYMBOL    (999.    ,999.    ,SIZE    ,40      ,0.      , FROMTO    12
     -          0)                                                       FROMTO    13
      DATE = FLOAT(I2)                                                   FROMTO    14
      CALL      NUMBER    (999.    ,999.    ,SIZE    ,DATE    ,0.      , FROMTO    15
     -         -1)                                                       FROMTO    16
      CALL      SYMBOL    (999.    ,999.    ,SIZE    ,40      ,0.      , FROMTO    17
     -          0)                                                       FROMTO    18
      DATE = FLOAT(I3)                                                   FROMTO    19
      CALL      NUMBER    (999.    ,999.    ,SIZE    ,DATE    ,0.      , FROMTO    20
     -         -1)                                                       FROMTO    21
      IF(IT.GE.2)   RETURN                                               FROMTO    22
      CALL      SYMBOL    (999.    ,999.    ,SIZE    ,4H TO   ,0.      , FROMTO    23
     -          4)                                                       FROMTO    24
      CALL      SEPD      (LAST    ,I1      ,I2      ,I3      )          FROMTO    25
      IT = 2                                                             FROMTO    26
      GO TO 100                                                          FROMTO    27
      END                                                                FROMTO    28
```

```
 SUBROUTINE SEED       74/74   OPT=1                    FTN 4.6+428      02/07/79  13.35.07       PAGE      1

1                SUBROUTINE  SEED     (IN       ,ID       ,IM       ,IY       )          SEED       2
                 COMMON/CONST/NO       ,NF       ,NA       ,CONR     ,CONL     ,CONP    , CONCOM     2
                -            MONT     (     12),MODM     ,MODY                          CONCOM     3
                 ID = IN/MODM                                                           SEED       4
5                IY = IN-ID*MODM                                                        SEED       5
                 IM = IY/MODY                                                           SEED       6
                 IY = IY-IM*MODY                                                        SEED       7
                 RETURN                                                                 SEED       8
                 END                                                                    SEED       9
```

```
      FUNCTION    IURUU   (IY      )                           IURUU      2
      IURUU = 0                                                IURUU      3
      IF(MOD(IY,4).EQ.0)   IURUU = 1                           IURUU      4
      RETURN                                                   IURUU      5
      END                                                      IURUU      6
```

```
      FUNCTION    NDAY     (IFIR    ,LAST     )                             NDAY        2
      COMMON/CONST/NO     ,NP      ,NA      ,CONR     ,CONL     ,CONP     , CONCOM      2
     -            MONT     (     12),MODM    ,MODY                          CONCOM      3
      CALL      SEPD      (IFIR    ,ID1     ,IM1     ,IY1      )            NDAY        4
      CALL      SEPD      (LAST    ,ID2     ,IM2     ,IY2      )            NDAY        5
      NDAY = 0                                                              NDAY        6
      IF(IY1.EQ.IY2)                    GO TO 110                           NDAY        7
      IYE = IY2-1                                                           NDAY        8
      DO 100 I=IY1,IYE                                                      NDAY        9
      NDAY = NDAY+365+IURUU(I)                                              NDAY       10
  100 CONTINUE                                                              NDAY       11
  110 CONTINUE                                                              NDAY       12
      IF(IM1.EQ.1)                      GO TO 210                           NDAY       13
      IM1 = IM1-1                                                           NDAY       14
      DO 200 I=1,IM1                                                        NDAY       15
      NDAY = NDAY-MONT(I)                                                   NDAY       16
  200 CONTINUE                                                              NDAY       17
      IF(IM1.GE.2)   NDAY = NDAY-IURUU(IY1)                                 NDAY       18
  210 CONTINUE                                                              NDAY       19
      NDAY = NDAY-ID1                                                       NDAY       20
      IF(IM2.EQ.1)                      GO TO 310                           NDAY       21
      IM2 = IM2-1                                                           NDAY       22
      DO 300 I=1,IM2                                                        NDAY       23
      NDAY = NDAY+MONT(I)                                                   NDAY       24
  300 CONTINUE                                                              NDAY       25
      IF(IM2.GE.2)   NDAY = NDAY+IURUU(IY2)                                 NDAY       26
  310 CONTINUE                                                              NDAY       27
      NDAY = NDAY+ID2                                                       NDAY       28
      RETURN                                                                NDAY       29
      END                                                                   NDAY       30
```

```
      BLOCK DATA                                                       BLKDAT      2
      COMMON/CONST/ND       ,NP       ,NA       ,CONP     ,CONL     ,CONP     , CONCOM    2
     -            MONT      (       12),MODM     ,MODY                         CONCOM      3
      COMMON/TITLE/TITLE    (        8),SPOW     (        3),SPOWK   (        3), TITCOM    2
     -            SPAT      (        3),SBUP     (        3)                  TITCOM      3
      DATA        ND        /       12/,NP       /        5/,NA       /       10/, BLKDAT    5
     -            CONP      /16.7284/,CONL     / 0.351 /,CONP     / 10.      /, BLKDAT    6
     -            MONT      /    31,28,31,30,31,30,31,31,31,31,30,31         /, BLKDAT    7
     -            MODM      /  10000/,MODY     /     100/                      BLKDAT      8
      DATA        SPOW      /10H       POW, 10HER       ,10H(MW)           /, BLKDAT    9
     -            SPOWK     /10H       POW, 10HER       ,10H(KW)           /, BLKDAT   10
     -            SPAT      /10H  LINEAR , 10HRATINGS   ,10H(W/CM)         /, BLKDAT   11
     -            SBUP      /10H       BUP, 10HNUP      ,10H(MWD/T)        /  BLKDAT   12
      END                                                              BLKDAT     13
```

付 録 3

TRIDS コードの出力

(1) REACTOR POWER
2時間毎のFission Power （MW）

(2) ASSEMBLY POWER （MW）
2時間毎の Fission Power （MW）

(3) ASSEMBLY MEAN POWER (MW), LINEAR RATINGS (W/CM), BURNUP (MWD/T) and TIME.
各 STEP 毎のデータ

(4) LINEAR RATING DISTRIBUTION （W/CM）
ROD No. 2 （A2）
4 （A4）
10 （B6）
22 （C10）
23 （C11）

PERIOD 33
REACTOR POWER

REACTOR POWER (MW)

TIME / DATE	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
26/10/75	77.08	77.08	89.30	234.06	298.92	301.74	316.78	320.54	327.12	320.54	326.18	316.78	250.51
27/10/75	317.24	322.93	321.98	317.24	324.82	323.87	322.93	322.93	321.03	320.09	319.14	324.82	321.59
28/10/75	318.09	318.09	315.32	316.25	316.25	319.01	319.01	319.93	326.39	336.53	335.61	333.76	322.85
29/10/75	342.81	341.87	340.92	342.81	341.87	341.87	347.55	347.55	348.50	348.50	348.50	348.50	345.10
30/10/75	343.36	342.43	343.36	341.50	342.43	342.43	343.36	342.43	341.50	341.50	340.58	343.36	342.35
31/10/75	342.62	342.62	344.47	345.40	346.32	337.06	337.06	335.21	333.36	333.36	335.21	334.29	338.92
1/11/75	339.92	339.92	341.80	339.92	344.61	345.55	341.80	352.13	353.06	352.13	349.31	349.31	345.79
2/11/75	342.80	342.80	341.88	340.96	337.26	335.41	336.34	337.26	338.18	338.18	340.03	340.96	339.34
3/11/75	343.92	334.65	344.84	343.92	344.84	345.77	342.99	342.99	341.14	341.14	340.21	341.14	342.30
4/11/75	343.34	338.68	341.48	342.41	342.41	342.41	345.21	347.08	347.08	347.08	347.08	345.21	344.12
5/11/75	342.79	339.11	343.71	341.87	339.11	338.19	343.71	340.95	340.95	343.71	340.95	341.87	341.41
6/11/75	341.12	341.12	342.04	338.37	341.12	342.04	342.96	343.87	340.21	339.29	339.29	339.29	340.89
7/11/75	341.69	337.06	341.69	339.84	342.62	344.47	343.55	343.55	346.32	345.40	346.32	344.47	343.08
8/11/75	340.58	342.41	342.41	341.50	341.50	342.41	342.41	344.25	342.41	339.66	339.66	339.66	341.57
9/11/75	342.58	342.58	339.84	339.84	338.92	342.58	343.50	343.50	343.50	342.58	340.75	341.67	341.82
10/11/75	341.29	341.29	343.13	341.29	339.46	340.38	343.13	343.13	343.13	343.13	0.00	0.00	284.95
11/11/75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/11/75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/11/75	23.80	26.66	85.68	99.01	98.06	101.86	99.96	166.60	348.43	344.62	341.77	339.86	173.03
14/11/75	332.28	342.58	336.02	338.83	345.38	340.70	340.70	349.13	349.13	348.19	344.45	342.58	342.50
15/11/75	338.35	339.28	341.14	339.28	341.14	341.14	340.21	341.14	341.14	341.14	342.06	342.06	340.67
16/11/75	341.14	340.22	340.22	342.06	341.14	341.14	341.14	339.30	341.14	339.30	336.53	337.45	340.07
17/11/75	338.74	338.74	338.74	337.82	338.74	341.51	338.74	337.82	341.51	342.43	342.43	341.51	339.89
18/11/75	341.63	337.98	337.98	337.98	338.89	339.80	340.71	338.89	341.63	339.80	339.80	338.89	339.50
19/11/75	340.18	340.18	341.09	342.00	341.09	341.09	338.35	338.35	337.44	337.44	339.26	339.26	339.64
20/11/75	342.58	342.58	339.84	340.75	342.58	338.92	337.09	342.58	341.67	341.67	342.58	341.67	341.21
21/11/75	340.75	341.67	341.67	344.42	346.25	346.25	347.16	347.16	344.42	340.75	340.75	341.67	343.58
22/11/75	341.50	341.50	341.50	344.25	342.41	344.25	346.09	346.09	346.09	344.25	346.09	346.09	344.18
23/11/75	337.81	344.20	344.20	344.20	343.29	345.11	346.03	345.11	346.03	344.20	342.37	342.37	343.74
24/11/75	343.60	340.87	341.78	341.78	340.87	340.87	343.60	340.87	342.69	342.69	343.60	342.69	342.16
25/11/75	341.10	338.40	341.10	341.10	342.90	341.10	333.90	335.70	335.70	334.80	333.90	334.80	337.88
26/11/75	305.78	276.19	276.19	283.59	286.36	287.70	300.85	309.89	308.25	307.43	308.25	305.78	296.33
27/11/75	301.25	269.58	279.33	280.14	282.58	276.89	276.08	278.52	298.82	276.08	306.12	306.12	285.96
28/11/75	346.41	343.66	341.84	341.84	340.01	335.44	340.01	338.18	338.18	338.18	338.18	338.18	340.01
29/11/75	335.17	334.27	334.27	337.88	334.27	335.17	337.88	337.88	337.88	336.97	334.27	336.97	336.07
30/11/75	338.84	339.75	335.22	337.03	337.03	337.94	339.75	339.75	341.56	340.66	339.75	339.75	338.92
1/12/75	341.03	337.40	338.31	341.94	342.85	346.47	336.50	342.85	341.03	341.03	341.94	344.66	341.33
2/12/75	340.58	339.68	338.78	339.68	339.68	339.68	338.78	339.68	339.68	338.78	338.78	337.88	339.31
3/12/75	339.44	339.44	339.44	337.65	338.55	339.44	337.65	338.55	337.65	339.44	340.34	341.24	339.07
4/12/75	338.58	338.58	339.47	340.36	341.25	341.25	342.14	341.25	341.25	340.36	340.36	343.03	340.66
5/12/75	341.76	339.09	339.09	339.09	338.20	336.42	331.97	332.86	331.97	331.97	332.86	333.75	335.75
6/12/75	338.40	338.40	340.20	338.40	338.40	338.40	338.40	338.40	342.00	342.00	342.00	342.00	339.75
7/12/75	338.58	337.69	338.58	338.58	336.80	338.58	338.58	339.47	338.58	338.58	338.58	338.58	338.43
8/12/75	338.96	338.96	338.96	337.18	338.96	337.18	336.28	338.96	338.96	337.18	338.96	338.96	338.29
9/12/75	338.58	337.69	338.58	337.69	338.58	338.58	338.58	338.58	339.47	338.58	340.36	338.58	338.65
10/12/75	337.44	338.33	337.44	339.22	338.33	339.22	339.22	340.10	340.10	340.99	338.33	339.22	339.00
11/12/75	338.30	337.42	337.42	337.42	337.42	339.18	340.95	339.18	336.54	335.66	336.54	336.54	337.71
12/12/75	335.92	339.46	338.57	337.69	336.80	331.50	333.27	336.80	336.80	337.69	336.80	338.57	336.66
13/12/75	338.30	339.18	337.42	338.30	335.66	334.78	335.66	339.18	338.30	337.42	339.18	337.42	337.57
14/12/75	339.18	337.42	336.54	336.54	336.54	336.54	336.54	336.54	336.54	339.18	336.54	336.54	337.05
15/12/75	338.19	338.19	339.07	339.95	338.19	339.95	333.77	329.36	329.36	329.36	328.48	327.59	334.29
16/12/75	338.47	339.37	339.37	339.37	342.09	348.42	341.18	343.90	343.90	344.80	344.80	345.71	342.62

PERIOD 33
REACTOR POWER

REACTOR POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVEPAGE
17/12/75	338.58	339.47	338.58	339.47	340.36	338.58	338.58	339.47	339.47	339.47	339.47	341.25	339.40
18/12/75	340.10	337.44	340.10	339.22	338.33	333.89	336.55	333.89	333.00	334.78	334.78	333.89	336.33
19/12/75	337.93	339.72	338.83	338.83	342.40	341.51	339.72	343.30	341.51	341.51	342.50	340.61	340.70
20/12/75	339.06	339.09	339.09	240.30	153.97	103.24	94.34	146.85	311.50	347.10	342.65	342.65	258.32
21/12/75	343.03	340.36	336.80	331.45	327.89	341.25	340.36	341.25	339.47	337.69	337.69	337.69	337.91
22/12/75	341.71	339.90	340.81	339.00	340.81	341.71	353.46	349.85	344.42	347.14	342.62	350.75	344.35
23/12/75	339.40	340.28	337.64	338.52	341.15	337.64	335.01	328.87	328.87	329.75	329.75	330.63	334.79
24/12/75	336.52	340.10	340.10	341.89	341.89	339.20	340.99	338.31	339.20	339.20	338.31	338.31	339.50
25/12/75	338.20	339.09	339.09	339.98	340.87	340.87	339.98	341.76	336.42	337.31	335.53	336.42	338.79
26/12/75	334.53	334.53	340.72	342.49	342.49	341.61	342.49	342.49	344.26	342.49	338.95	341.61	340.72
27/12/75	339.79	338.03	338.91	338.03	338.91	339.79	338.91	339.79	339.79	340.66	339.79	338.91	339.28
28/12/75	338.63	338.63	341.25	340.38	340.38	341.25	341.25	341.25	338.63	341.25	337.75	336.88	339.79
29/12/75	339.60	337.82	340.49	342.26	341.38	343.15	344.93	344.93	344.93	344.04	344.04	344.93	342.71
30/12/75	340.86	339.11	339.11	339.99	342.61	340.86	335.62	334.74	333.87	334.74	334.74	336.49	337.73
31/12/75	339.68	338.80	340.56	341.44	341.44	341.44	340.56	343.20	343.20	342.32	343.20	343.20	341.59
1/ 1/76	341.44	341.44	338.80	340.56	339.68	338.80	339.68	341.44	344.96	343.20	345.84	345.84	341.81
2/ 1/76	342.70	339.21	338.34	339.21	339.21	338.34	338.34	340.08	338.34	340.08	340.95	338.34	339.43
3/ 1/76	340.45	340.45	339.57	338.69	338.69	340.45	341.33	341.33	341.33	340.45	339.57	339.57	340.16
4/ 1/76	339.07	339.95	338.19	339.95	339.95	341.72	344.37	344.37	348.78	347.90	346.14	347.02	343.12
5/ 1/76	341.04	340.17	339.30	336.69	339.30	334.95	334.95	334.08	332.34	328.86	329.73	330.60	335.17
6/ 1/76	338.07	339.84	339.84	340.72	340.72	342.49	344.26	346.92	346.03	346.03	341.61	341.61	342.35
7/ 1/76	341.25	339.50	339.50	339.50	340.38	338.63	339.50	340.38	339.50	338.63	341.25	339.50	339.79
8/ 1/76	339.30	339.30	339.30	339.30	341.04	341.91	340.17	341.91	341.04	341.04	339.30	340.17	340.32
9/ 1/76	340.34	340.34	340.34	339.47	339.47	339.47	340.34	340.34	339.47	339.47	338.61	337.74	339.62
10/ 1/76	341.60	339.00	340.73	339.86	341.60	339.00	339.86	341.60	339.86	341.60	340.73	343.33	340.73
11/ 1/76	339.70	340.56	340.56	340.56	340.56	339.70	337.12	337.12	335.40	335.40	336.26	334.54	338.12
12/ 1/76	339.94	339.94	339.94	340.81	342.54	342.54	342.54	342.54	342.54	339.08	340.81	337.35	340.88
13/ 1/76	338.91	338.91	340.65	338.91	343.25	336.38	330.22	331.09	330.22	326.74	327.61	328.48	334.27
14/ 1/76	330.71	339.39	343.73	344.60	346.33	346.33	346.33	346.33	343.73	343.73	341.99	341.99	342.93
15/ 1/76	339.47	338.61	338.61	339.47	337.74	339.47	337.74	343.80	341.20	341.20	341.20	341.20	339.98
16/ 1/76	338.84	338.84	339.70	337.98	339.70	339.70	334.54	334.54	334.54	333.68	336.26	335.40	336.98
17/ 1/76	337.65	339.39	341.99	341.99	341.99	339.39	340.26	341.99	341.99	341.99	341.99	341.99	341.05
18/ 1/76	340.49	338.77	338.77	339.63	341.35	341.35	339.63	341.35	341.35	340.49	343.08	344.80	340.92
19/ 1/76	340.56	337.98	337.98	337.12	338.84	338.84	332.82	332.82	332.82	332.82	333.68	333.68	335.83
20/ 1/76	339.94	339.94	339.08	339.94	340.81	340.81	342.54	335.62	333.89	333.89	334.75	333.89	337.93
21/ 1/76	340.76	338.14	339.01	339.89	340.76	340.76	344.27	344.27	344.27	344.27	344.27	345.14	342.15
22/ 1/76	340.65	339.78	339.78	342.39	342.39	341.52	342.39	341.52	342.39	342.39	341.52	342.39	341.59
23/ 1/76	341.20	340.34	339.47	338.61	340.34	341.20	342.07	332.54	343.80	259.80	4.33	0.00	276.98
24/ 1/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25/ 1/76	12.24	49.82	99.64	238.60	229.86	235.98	324.25	329.50	337.36	339.99	346.98	344.36	240.72
26/ 1/76	346.93	345.20	337.43	333.12	347.79	346.06	344.34	340.02	338.30	336.57	336.57	336.57	340.74
27/ 1/76	340.28	342.03	341.15	340.28	352.55	355.18	356.06	355.18	354.31	354.31	354.31	354.31	350.00
28/ 1/76	343.36	342.50	341.65	342.50	343.36	343.36	344.21	344.21	345.06	345.06	345.06	344.21	343.71
29/ 1/76	343.03	342.19	342.19	343.03	343.03	342.19	340.49	339.65	339.65	338.80	339.65	339.65	341.13
30/ 1/76	340.45	339.60	339.60	338.75	340.45	340.45	340.45	340.45	339.60	339.60	337.05	338.75	339.60
31/ 1/76	338.40	339.25	338.40	338.40	338.40	340.94	341.78	341.78	341.78	339.25	341.78	340.09	340.02
1/ 2/76	342.15	341.30	341.30	342.15	341.30	343.00	341.30	342.15	346.39	344.69	346.39	345.54	343.14
2/ 2/76	341.04	342.72	341.04	339.36	340.20	340.20	340.20	336.84	336.00	338.52	338.52	339.36	339.50
3/ 2/76	342.22	341.38	341.38	341.38	342.22	341.38	340.53	342.22	341.38	340.53	343.07	340.53	341.52
4/ 2/76	340.98	340.13	341.82	343.51	341.82	343.51	341.82	344.35	342.66	343.51	343.51	341.82	342.45
5/ 2/76	343.51	340.13	340.98	340.98	341.82	341.82	342.66	338.44	338.44	336.76	340.13	336.76	340.20
6/ 2/76	341.74	341.74	342.59	342.59	342.59	342.59	339.20	337.50	336.66	335.81	127.20	0.00	294.18

** PERIOD AVERAGE 323.36

PERIOD 34
REACTOR POWER

REACTOR POWER (MW)

DATE / TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
8/ 2/76	0.00	9.31	33.84	65.99	62.60	90.52	142.97	338.40	337.55	336.71	340.94	341.78	175.05
9/ 2/76	337.74	342.76	351.12	345.27	356.14	351.12	359.48	355.30	351.96	347.78	343.60	343.60	348.82
10/ 2/76	334.14	331.70	330.89	347.96	349.59	349.59	347.96	347.15	346.34	346.34	345.52	345.52	343.56
11/ 2/76	343.86	343.05	343.05	343.05	340.62	344.67	344.67	344.67	348.73	351.16	348.73	347.11	345.28
12/ 2/76	347.54	340.23	337.79	337.79	339.42	338.60	342.66	342.66	345.10	336.98	345.10	344.29	341.51
13/ 2/76	342.97	342.97	342.17	342.97	341.36	335.71	329.26	307.47	331.68	334.90	334.90	334.90	335.11
14/ 2/76	339.05	340.59	341.51	340.69	339.87	342.32	342.32	342.32	342.32	342.32	341.51	342.32	341.44
15/ 2/76	341.48	341.48	341.48	341.48	339.85	342.30	342.30	343.11	344.74	344.74	343.11	343.93	342.50
16/ 2/76	342.27	342.27	342.27	342.27	340.65	343.09	343.90	343.09	343.90	338.21	334.96	343.09	341.66
17/ 2/76	343.49	340.98	340.98	340.98	340.17	341.78	342.59	340.98	334.51	331.28	329.66	329.66	338.08
18/ 2/76	341.13	341.96	341.96	341.96	344.45	344.45	345.28	346.11	346.94	345.28	347.77	349.43	344.73
19/ 2/76	341.92	341.11	341.11	341.92	344.38	341.92	343.56	342.74	343.56	343.56	345.20	345.20	343.02
20/ 2/76	341.46	339.83	340.65	340.65	343.90	343.90	343.09	343.90	343.90	344.71	343.90	343.90	342.82
21/ 2/76	342.63	344.25	343.44	342.63	341.82	340.21	342.63	343.44	343.44	341.01	342.63	342.63	342.56
22/ 2/76	343.93	343.93	343.11	342.30	344.74	344.74	343.11	344.74	344.74	344.74	343.11	344.74	343.99
23/ 2/76	334.53	341.82	341.82	341.82	341.82	339.39	341.82	339.39	341.82	339.39	339.39	340.20	340.27
24/ 2/76	343.02	340.59	341.40	342.21	341.40	343.82	343.02	342.21	342.21	342.21	340.59	341.40	342.01
25/ 2/76	342.63	343.44	341.01	342.63	342.63	342.63	342.63	341.82	343.44	344.25	341.82	343.44	342.70
26/ 2/76	340.55	342.17	341.36	342.97	341.36	334.10	339.75	338.94	340.55	340.55	338.13	341.36	340.15
27/ 2/76	343.49	342.66	341.85	341.04	341.85	341.04	345.91	344.29	343.48	342.66	343.48	341.85	342.80
28/ 2/76	341.85	341.85	341.04	341.04	341.04	341.04	341.85	342.66	343.48	344.29	341.85	344.29	342.19
29/ 2/76	341.82	342.63	342.63	343.44	343.44	343.44	344.25	342.63	348.30	343.44	342.63	340.20	343.24
1/ 3/76	336.04	342.45	340.85	340.05	340.05	341.65	344.06	350.47	354.48	349.67	350.47	350.47	345.06
2/ 3/76	339.63	342.78	339.63	338.84	338.05	338.84	339.63	341.99	343.57	341.99	339.63	341.99	340.55
3/ 3/76	340.77	341.56	340.77	339.20	339.20	341.56	343.13	339.20	341.56	339.98	339.20	339.98	340.51
4/ 3/76	340.49	339.70	340.49	338.91	339.70	339.70	342.07	342.07	343.65	342.86	342.86	341.28	341.15
5/ 3/76	340.85	341.64	339.27	339.27	339.27	339.27	344.00	157.80	0.00	0.00	0.00	0.00	211.78
6/ 3/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/ 3/76	0.00	0.00	0.00	0.00	0.00	9.27	16.02	39.62	72.50	177.87	341.41	340.57	83.10
8/ 3/76	327.71	342.76	347.78	339.42	346.10	346.94	339.42	348.61	355.30	350.28	355.30	353.63	346.10
9/ 3/76	335.37	338.62	345.95	345.95	345.95	345.95	345.95	345.14	346.76	345.14	344.32	342.69	343.98
10/ 3/76	341.88	344.32	343.51	344.32	341.88	343.51	345.95	345.14	345.14	345.95	345.95	345.95	344.46
11/ 3/76	342.55	342.55	342.55	342.55	343.36	342.55	344.97	344.16	342.55	342.55	343.36	343.36	343.09
12/ 3/76	320.87	125.33	132.88	131.37	129.86	144.96	144.96	144.20	141.94	140.43	141.18	139.67	153.14
13/ 3/76	140.91	140.14	138.60	138.60	138.60	139.37	139.37	140.14	330.33	327.25	327.25	324.17	202.06
14/ 3/76	330.87	340.55	335.71	349.43	346.20	338.94	347.01	346.20	343.78	340.55	339.75	338.94	341.49
15/ 3/76	341.54	341.54	341.54	341.54	348.10	349.75	352.21	352.21	349.75	348.92	349.75	348.92	347.15
16/ 3/76	342.55	341.74	341.74	341.74	342.55	343.36	345.77	344.97	346.58	343.36	344.97	344.16	343.62
17/ 3/76	342.26	341.48	342.28	340.69	343.87	342.28	342.28	339.10	339.10	339.10	339.10	339.10	340.89
18/ 3/76	340.42	340.42	346.83	346.83	346.83	346.83	349.24	349.24	346.83	346.83	346.83	346.83	345.96
19/ 3/76	342.21	343.01	342.21	343.80	341.42	342.21	343.80	343.80	344.60	332.69	331.89	338.24	340.82
20/ 3/76	342.45	342.45	341.65	341.65	342.45	344.06	348.07	347.27	348.07	348.07	344.86	344.06	344.59
21/ 3/76	344.60	343.01	342.21	342.21	343.01	342.21	342.21	343.01	341.42	342.21	342.21	342.21	342.54
22/ 3/76	341.35	341.35	341.35	340.56	341.35	338.98	340.56	340.56	340.56	341.35	339.77	339.77	340.63
23/ 3/76	341.91	342.71	341.91	343.51	342.71	344.30	344.30	349.09	347.49	354.66	355.46	352.27	346.69
24/ 3/76	343.43	342.66	342.66	341.10	338.77	339.55	339.55	342.66	342.66	342.66	342.66	343.43	341.82
25/ 3/76	343.77	343.77	342.22	342.99	343.77	342.22	336.01	327.47	325.92	328.25	326.70	330.58	336.14
26/ 3/76	339.29	343.31	343.31	339.29	344.92	343.31	344.92	344.92	345.72	345.72	344.11	348.13	343.91
27/ 3/76	343.21	344.00	343.21	343.21	344.00	344.00	343.21	343.21	344.00	345.58	342.43	342.43	343.54
28/ 3/76	343.65	344.44	343.65	342.86	346.02	342.86	342.86	344.44	344.44	344.44	344.44	343.65	343.98
29/ 3/76	343.65	342.86	342.86	342.07	346.02	342.86	344.44	345.23	346.02	346.81	346.81	346.81	344.79
30/ 3/76	341.82	341.82	343.39	343.39	341.04	343.39	348.88	341.82	336.34	333.98	333.20	340.26	340.78

PERIOD 34
REACTOR POWER

REACTOR POWER (MW)

DATE	TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
31/ 3/76		343.92	343.92	343.13	344.71	343.92	344.71	346.28	345.49	345.49	344.71	343.13	342.34	344.31
1/ 4/76		343.57	344.36	342.78	342.78	343.57	342.78	341.99	342.78	341.99	341.20	343.57	343.57	342.91
2/ 4/76		344.00	344.00	343.21	343.21	344.79	344.79	344.79	343.21	344.79	344.00	344.00	342.43	343.94
3/ 4/76		344.88	345.67	341.71	344.08	341.71	343.29	344.88	346.46	346.46	345.67	345.67	345.67	344.68
4/ 4/76		342.78	343.57	344.36	343.57	343.57	344.36	345.14	343.57	345.93	345.93	346.72	345.14	344.55
5/ 4/76		343.92	343.92	342.34	342.34	342.34	346.28	343.92	343.92	347.07	341.56	344.71	343.13	343.79
6/ 4/76		343.57	344.36	342.78	342.78	345.14	343.57	342.78	341.20	342.78	341.99	341.20	340.42	342.71
7/ 4/76		333.50	342.00	344.31	344.31	344.31	344.31	345.86	347.40	345.86	343.54	341.22	340.45	343.09
8/ 4/76		342.99	343.77	342.99	342.99	341.44	339.11	339.11	336.01	338.34	338.34	336.78	338.34	340.02
9/ 4/76		342.70	342.70	343.48	343.48	344.27	344.27	344.27	345.05	345.84	346.63	346.63	346.63	344.66
10/ 4/76		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 4/76		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 4/76		9.48	66.36	106.65	333.38	316.00	318.37	320.74	324.69	338.12	338.12	334.17	336.54	261.89
13/ 4/76		340.26	332.42	340.26	338.69	342.61	344.18	345.74	341.04	341.04	338.69	339.47	338.69	340.26
14/ 4/76		341.67	344.76	343.21	343.21	344.76	343.21	344.76	343.21	340.89	340.89	341.67	340.12	342.70
15/ 4/76		340.22	338.67	341.00	339.45	339.45	340.22	340.22	341.00	341.77	341.00	341.00	341.00	340.42
16/ 4/76		340.66	341.44	339.89	338.34	338.34	339.89	341.44	342.99	342.99	341.44	341.44	340.66	340.79
17/ 4/76		339.79	339.79	340.56	338.24	339.79	339.79	342.11	342.11	342.88	342.11	341.33	342.11	340.88
18/ 4/76		340.89	340.89	340.89	339.35	339.35	340.12	342.44	343.21	344.76	343.21	342.44	343.21	341.73
19/ 4/76		339.68	341.22	340.45	342.00	342.00	343.54	345.08	344.31	344.31	344.31	343.54	343.54	342.83
20/ 4/76		342.44	342.44	340.89	340.12	340.12	341.67	343.21	343.98	345.53	345.53	345.53	343.98	342.95
21/ 4/76		339.57	342.65	341.11	340.34	339.57	339.57	341.11	340.34	342.65	342.65	342.65	339.57	340.98
22/ 4/76		341.11	341.11	341.11	338.80	341.11	340.34	340.34	341.11	340.34	342.65	342.65	341.11	340.98
23/ 4/76		340.34	340.34	340.34	338.80	338.80	335.72	339.57	341.11	342.65	342.65	342.65	342.65	340.47
24/ 4/76		340.55	341.31	341.31	339.78	341.31	339.01	339.78	341.31	339.78	339.78	340.55	339.01	340.29
25/ 4/76		341.88	340.34	339.57	340.34	341.88	341.88	342.65	339.57	341.11	341.88	341.88	340.34	341.11
26/ 4/76		339.46	339.46	341.76	340.99	339.46	341.76	339.46	340.99	340.22	341.76	340.22	340.22	340.48
27/ 4/76		339.57	340.34	340.34	339.57	341.11	335.72	344.96	341.11	342.65	341.88	342.65	341.88	340.98
28/ 4/76		340.30	339.53	339.53	340.30	339.53	338.77	341.06	341.06	341.06	342.59	341.06	341.06	340.49
29/ 4/76		338.77	339.53	340.30	338.77	340.30	346.40	344.11	345.64	347.93	350.98	349.45	347.16	344.11
30/ 4/76		339.75	339.75	339.75	339.75	337.50	337.50	339.00	340.50	339.75	339.75	341.25	340.50	339.56
1/ 5/76		339.30	340.81	340.81	340.05	341.56	340.81	340.81	340.81	341.56	340.81	341.56	341.56	340.87
2/ 5/76		341.11	339.60	340.36	341.11	341.11	341.11	341.86	341.11	342.61	341.11	340.36	341.11	341.05
3/ 5/76		341.26	339.75	341.26	339.75	341.26	342.01	341.26	342.01	340.50	332.20	333.71	338.24	339.43
4/ 5/76		336.86	313.40	335.35	337.62	339.89	342.92	342.16	310.37	330.81	280.85	324.75	333.84	327.40
5/ 5/76		342.65	310.31	308.00	308.77	308.10	310.31	319.55	323.40	353.43	331.10	324.94	322.63	321.92
6/ 5/76		316.43	345.19	341.41	337.62	336.86	336.11	336.86	336.11	338.38	337.62	337.62	335.35	336.30
7/ 5/76		340.56	342.11	339.79	340.56	341.33	348.30	349.85	342.11	0.00	0.00	0.00	0.00	228.72

** PERIOD AVERAGE 318.47

PERIOD 35
REACTOR POWER

REACTOR POWER (MW)

DATE	TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
10/ 9/76		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.73	161.60	185.80	211.35	48.62
11/ 9/76		236.90	263.20	266.90	180.30	0.00	0.00	0.00	0.00	0.00	0.00	58.46	103.73	92.46
12/ 9/76		149.00	152.60	222.10	261.60	270.10	269.90	268.00	269.70	298.80	305.70	304.70	303.60	256.32
13/ 9/76		302.50	302.80	302.90	303.60	303.50	303.80	303.40	303.30	304.40	311.80	320.10	319.85	306.83
14/ 9/76		319.60	319.70	320.90	320.70	317.40	320.60	321.40	321.20	321.80	322.80	322.60	322.10	320.90
15/ 9/76		321.60	321.50	321.80	320.80	321.20	320.10	320.20	319.80	320.50	321.10	320.80	319.95	320.78
16/ 9/76		319.10	318.60	318.30	318.60	318.50	320.40	319.80	317.60	317.90	319.20	319.00	317.95	318.75
17/ 9/76		316.90	316.50	316.50	316.10	316.10	316.20	315.10	315.80	316.50	317.00	317.40	316.65	316.40
18/ 9/76		315.90	316.30	316.50	315.60	315.50	314.20	313.00	312.90	312.20	312.20	312.50	312.25	314.09
19/ 9/76		312.00	311.40	311.30	311.30	312.60	312.90	313.10	312.40	312.40	313.00	313.10	313.40	312.41
20/ 9/76		313.70	313.80	314.40	313.70	313.50	313.60	314.00	314.20	315.00	314.80	315.90	315.50	314.34
21/ 9/76		315.10	315.50	315.80	316.00	315.80	315.00	315.60	312.50	248.60	231.20	221.50	221.35	287.00
22/ 9/76		221.20	221.50	221.70	222.00	222.30	221.80	221.70	222.70	222.20	222.30	238.50	252.60	225.88
23/ 9/76		266.70	267.40	267.10	249.20	223.70	223.10	222.40	221.80	222.60	223.50	311.00	316.50	251.25
24/ 9/76		322.00	321.80	321.80	322.60	322.90	312.80	290.40	243.20	180.40	140.20	0.00	0.00	231.51
25/ 9/76		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26/ 9/76		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27/ 9/76		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.08	197.40	212.90	35.70
28/ 9/76		215.90	216.00	216.10	215.50	203.60	204.90	267.40	277.40	278.50	279.70	279.80	278.80	244.47
29/ 9/76		277.70	277.70	277.70	277.10	277.80	270.40	289.00	304.70	306.00	310.00	310.00	303.00	290.09
30/ 9/76		306.00	305.70	305.30	304.30	305.20	315.60	306.40	305.80	306.50	307.30	0.00	0.00	254.84

** PERIOD AVERAGE 225.84

PERIOD 36
REACTOR POWER

REACTOR POWER (MW)

DATE \ TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
14/10/76	0.00	61.80	123.60	230.90	279.50	276.6	237.70	184.80	189.30	189.70	190.70	188.20	179.40
15/10/76	239.20	245.40	244.60	240.10	272.20	302.30	311.00	306.50	308.60	308.50	308.90	308.70	283.00
16/10/76	308.30	307.00	307.40	305.50	305.60	304.90	305.50	305.70	304.90	307.80	308.90	309.70	306.77
17/10/76	311.70	315.10	317.60	319.00	320.30	324.20	329.80	332.60	335.40	337.10	338.30	336.30	326.45
18/10/76	335.90	336.60	336.70	335.70	336.60	335.50	336.20	335.70	336.40	337.70	337.60	335.80	336.37
19/10/76	335.90	336.60	336.70	337.60	333.30	333.10	333.10	333.20	334.80	335.50	335.10	329.70	334.55
20/10/76	332.40	332.70	332.30	331.80	333.30	330.70	330.90	329.80	330.80	332.00	331.10	330.00	331.48
21/10/76	328.60	328.90	329.00	329.20	333.40	333.30	332.00	331.70	332.70	334.10	334.00	332.60	331.63
22/10/76	331.30	331.00	331.60	331.40	332.10	238.40	225.10	241.30	329.70	333.20	333.80	333.45	307.70
23/10/76	333.50	335.60	339.80	335.30	336.00	336.90	337.60	336.40	336.30	336.50	337.95	335.42	336.44
24/10/76	335.50	334.80	335.20	337.90	339.40	339.20	339.00	339.10	339.20	337.50	337.80	339.40	337.83
25/10/76	334.50	334.20	337.60	340.00	310.20	311.10	311.00	303.50	305.70	327.10	336.50	335.80	323.93
26/10/76	336.30	337.60	336.10	335.90	309.10	308.00	330.60	174.40	195.40	327.30	335.30	335.20	305.10
27/10/76	335.80	336.20	336.40	328.00	305.90	306.60	307.20	307.60	309.10	333.30	335.40	335.20	323.06
28/10/76	339.67	339.42	338.50	338.30	306.50	312.00	310.30	316.60	310.50	240.50	298.27	239.56	307.51
29/10/76	334.90	334.60	334.90	335.10	316.82	315.77	246.73	261.25	268.01	296.59	301.14	331.19	306.41
30/10/76	335.90	337.20	336.50	334.90	336.30	331.70	306.80	313.90	311.50	273.90	226.10	334.10	314.90
31/10/76	335.10	335.20	335.10	334.70	334.90	335.50	335.80	335.20	336.20	336.80	337.40	337.70	335.80
1/11/76	337.30	337.90	338.10	339.00	339.40	335.50	335.60	335.20	335.80	336.60	335.70	334.80	336.74
2/11/76	334.00	334.50	334.50	334.80	334.30	334.40	334.80	335.90	335.70	337.20	336.50	335.20	335.13
3/11/76	334.70	334.90	334.90	334.90	334.90	334.60	334.80	334.20	334.80	335.50	334.70	334.00	334.74
4/11/76	332.90	332.90	332.30	332.60	333.20	333.00	333.60	333.90	335.40	336.80	336.40	334.90	333.99
5/11/76	335.40	335.10	334.20	334.50	334.30	333.50	333.50	333.10	337.60	343.00	342.60	342.10	336.58
6/11/76	342.70	342.70	342.10	342.50	343.90	344.20	344.60	344.50	345.10	346.10	345.50	344.30	344.02
7/11/76	344.20	344.20	343.90	343.40	343.80	344.20	344.00	343.50	344.40	345.10	344.60	343.20	344.04
8/11/76	342.50	343.30	342.90	342.80	343.10	343.00	343.50	343.70	343.90	109.80	0.00	0.00	266.54

** PERIOD AVERAGE 317.70

PERIOD 37
REACTOR POWER

REACTOR POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
20/11/76	0.00	133.30	232.70	265.50	297.90	317.20	325.10	325.50	327.00	327.10	327.70	328.30	264.74
21/11/76	328.60	329.40	329.30	328.30	328.40	332.00	332.90	333.60	334.20	334.40	334.00	333.30	331.53
22/11/76	333.70	333.60	333.00	333.00	333.00	333.10	333.80	334.70	334.50	335.80	338.60	0.00	306.40

** PERIOD AVERAGE 300.89

PERIOD 38
REACTOR POWER

REACTOR POWER (MW)

TIME / DATE	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
30/11/76	0.00	0.00	0.00	0.00	0.00	0.00	199.80	315.10	337.60	347.80	342.20	341.60	157.01
1/12/76	342.00	343.00	342.20	342.90	343.00	344.30	352.90	353.90	356.50	360.30	360.50	359.20	350.06
2/12/76	358.80	358.50	355.60	353.90	353.20	354.30	355.20	354.70	355.40	356.60	356.70	355.90	355.73
3/12/76	355.80	356.10	355.20	355.60	349.20	336.70	337.50	337.80	338.90	339.10	338.70	338.90	344.96
4/12/76	338.90	339.00	338.80	337.80	339.10	338.10	337.90	337.50	337.80	338.60	339.10	338.90	338.46
5/12/76	338.00	338.60	338.10	337.50	338.50	338.30	338.60	338.70	338.50	339.00	336.40	335.60	337.98
6/12/76	335.10	335.30	334.90	336.10	338.50	338.60	338.80	340.00	339.70	341.80	340.30	339.90	338.25
7/12/76	339.40	339.70	339.20	339.20	338.80	337.90	337.60	336.70	337.90	338.40	338.30	337.40	338.38
8/12/76	337.30	338.00	337.30	337.70	337.40	337.20	336.60	337.20	338.20	339.10	339.00	338.20	337.73
9/12/76	338.60	340.00	337.20	338.40	337.80	337.50	336.40	335.60	336.40	86.79	0.00	0.00	260.39
10/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16/12/76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17/12/76	0.00	0.00	0.00	152.90	328.30	328.50	327.60	327.60	331.20	335.90	335.80	336.50	233.69
18/12/76	337.00	337.70	338.30	338.10	338.00	338.30	338.70	338.00	336.60	336.80	337.70	337.50	337.73
19/12/76	337.50	337.60	337.00	336.30	337.10	338.30	338.50	338.10	337.80	338.10	338.50	338.20	337.75
20/12/76	338.00	338.20	337.60	336.90	337.30	335.90	335.90	335.00	338.80	339.80	339.50	338.50	337.62
21/12/76	338.50	339.20	338.50	337.80	337.80	337.90	337.50	335.00	337.90	338.70	339.50	338.20	338.04
22/12/76	337.50	336.80	335.80	334.90	336.90	336.80	337.20	336.90	336.80	337.50	337.70	337.00	336.74
23/12/76	337.20	338.00	337.00	335.20	336.80	337.30	337.50	338.10	338.60	339.20	339.70	340.00	337.88
24/12/76	340.00	340.30	340.10	339.70	339.50	338.00	338.00	338.30	339.10	340.10	338.40	338.10	339.13
25/12/76	338.80	339.20	338.60	338.70	339.40	339.30	338.60	337.60	337.60	338.00	337.80	338.10	338.48
26/12/76	339.50	341.50	340.60	339.70	339.90	340.30	340.00	339.40	339.10	339.70	339.60	340.00	339.94
27/12/76	340.40	341.50	340.60	340.00	339.60	340.30	339.40	338.30	339.10	339.20	339.00	339.40	339.73
28/12/76	339.80	341.60	340.20	339.50	339.40	339.50	340.10	339.60	340.60	341.80	341.30	340.90	340.36
29/12/76	341.20	342.10	341.70	341.70	340.20	340.50	339.40	339.40	339.60	340.10	339.90	339.00	340.40
30/12/76	338.70	338.80	338.20	337.80	337.10	336.70	336.70	336.20	337.10	337.90	337.40	336.80	337.45
31/12/76	337.10	337.40	337.50	336.80	336.90	336.50	335.70	336.10	336.90	337.60	336.80	337.10	336.87
1/ 1/77	337.40	338.80	337.90	337.20	337.10	337.60	337.70	337.80	338.30	339.10	339.40	338.60	338.08
2/ 1/77	339.60	340.80	339.70	338.80	339.40	339.00	338.40	338.30	338.10	338.69	338.63	338.35	338.98
3/ 1/77	338.40	339.20	337.70	337.90	338.10	338.40	338.60	338.80	339.00	338.50	338.00	337.50	338.34
4/ 1/77	337.00	339.20	337.70	338.80	339.40	339.00	338.40	338.30	339.00	338.50	337.60	337.00	338.33
5/ 1/77	336.60	335.90	337.70	338.50	337.80	336.60	338.40	337.30	337.70	338.60	338.40	337.30	337.57
6/ 1/77	337.40	338.60	337.80	337.90	339.10	339.00	339.60	339.10	340.30	340.20	340.00	340.30	339.11
7/ 1/77	337.30	340.10	339.20	339.10	336.70	336.50	336.20	335.40	336.00	336.90	337.20	337.20	337.33
8/ 1/77	337.50	337.80	337.50	337.40	337.50	337.80	337.70	337.10	337.30	338.00	337.80	337.00	337.53
9/ 1/77	337.10	337.50	336.60	336.00	335.50	335.90	336.40	336.40	337.10	339.20	338.70	338.10	337.04
10/ 1/77	337.80	338.20	337.60	338.40	337.80	338.50	336.40	338.10	338.90	339.80	339.50	338.90	338.33
11/ 1/77	338.70	340.00	339.10	338.10	338.20	338.50	338.70	338.60	338.90	340.30	340.30	339.70	339.09
12/ 1/77	339.20	340.40	339.10	338.10	339.40	339.70	340.30	339.60	339.90	340.30	340.10	340.00	339.68
13/ 1/77	340.20	340.90	340.00	338.50	340.70	340.60	338.70	340.80	341.80	342.10	341.00	340.90	340.52
14/ 1/77	341.50	341.90	340.90	341.40	341.70	340.20	340.60	343.40	342.00	342.40	342.50	342.40	341.74
15/ 1/77	342.90	343.20	342.20	341.50	342.70	343.00	343.40	343.60	343.20	344.10	344.20	343.80	343.15
16/ 1/77	344.00	343.50	343.70	343.40	343.90	343.90	343.30	342.80	342.90	344.30	345.10	344.40	343.77
17/ 1/77	345.20	345.40	344.60	345.70	344.70	343.70	342.70	341.70	340.70	339.80	341.20	342.60	343.17
18/ 1/77	344.00	345.40	344.60	345.70	343.90	343.90	343.40	342.80	341.40	340.00	339.80	339.40	342.86
19/ 1/77	340.30	341.30	340.50	340.70	340.50	340.50	340.40	325.70	339.30	340.30	340.50	339.30	339.11
20/ 1/77	339.30	339.60	338.90	338.60	338.60	337.90	338.40	339.30	339.30	338.90	338.50	338.00	338.78

PERIOD 38
REACTOR POWER

REACTOR POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
21/ 1/77	338.70	338.70	337.90	338.30	338.60	338.20	338.40	338.70	339.80	340.50	340.70	339.80	339.03
22/ 1/77	341.00	341.70	341.20	340.80	341.00	339.60	339.20	338.60	339.40	340.00	339.20	338.70	340.03
23/ 1/77	339.50	340.50	339.70	339.70	339.60	340.00	339.30	338.70	340.00	341.00	340.60	340.00	339.88
24/ 1/77	339.60	340.60	339.80	340.00	339.10	339.00	339.60	339.60	339.40	340.00	339.80	339.40	339.66
25/ 1/77	338.80	339.40	339.30	339.40	338.30	337.50	336.70	336.90	337.80	339.00	339.30	338.80	338.43
26/ 1/77	339.10	340.10	340.20	340.10	340.30	337.80	343.20	346.90	339.50	340.20	338.90	339.50	340.48
27/ 1/77	339.20	340.20	339.60	339.40	337.80	337.50	337.60	337.80	337.80	337.90	338.40	338.70	338.51
28/ 1/77	338.60	339.60	339.40	339.80	338.70	338.50	338.10	340.40	340.90	341.30	342.00	342.20	339.96
29/ 1/77	342.40	342.80	341.90	341.60	342.20	342.20	342.00	341.90	342.00	343.40	344.20	343.80	342.53
30/ 1/77	343.80	342.70	342.20	342.00	341.20	341.70	342.60	342.60	341.70	342.30	341.90	341.70	342.20
31/ 1/77	339.70	340.40	339.80	339.80	339.70	339.50	326.10	339.30	336.70	340.20	337.40	339.60	338.18
1/ 2/77	340.00	340.40	340.00	339.90	339.20	339.30	339.40	339.70	340.70	342.10	343.30	342.30	340.53
2/ 2/77	341.70	341.80	340.80	340.50	340.20	340.20	339.80	340.20	340.30	340.80	339.90	339.30	340.46
3/ 2/77	338.90	338.60	338.10	338.00	337.20	337.10	337.30	338.40	338.70	341.50	341.40	340.90	338.84
4/ 2/77	341.20	341.80	341.40	341.30	339.70	339.10	339.00	339.50	339.60	339.90	338.30	337.80	339.88
5/ 2/77	337.00	337.80	338.30	337.60	337.50	337.20	337.40	338.10	338.20	339.60	339.00	338.20	337.99
6/ 2/77	338.40	338.60	338.80	337.90	337.20	337.90	338.10	338.10	337.80	338.00	337.80	335.90	337.88
7/ 2/77	335.70	336.20	336.30	336.90	337.30	336.80	336.70	336.40	337.80	337.90	337.60	337.10	336.89
8/ 2/77	336.90	337.70	337.00	337.30	336.10	337.30	338.10	337.90	337.90	338.10	337.20	337.10	337.38
9/ 2/77	336.80	337.80	336.50	336.10	334.60	336.50	338.40	338.30	338.20	337.20	338.60	337.90	337.24
10/ 2/77	338.00	339.10	338.70	338.30	338.50	338.50	338.70	338.60	339.20	339.30	339.30	337.90	338.68
11/ 2/77	339.30	340.60	340.10	340.10	338.70	337.70	337.20	337.50	338.70	339.70	339.80	339.40	339.07
12/ 2/77	339.70	339.70	339.70	339.50	340.30	339.60	339.30	339.00	338.90	339.40	339.85	340.30	339.60
13/ 2/77	340.80	341.10	339.70	339.50	339.40	339.90	339.90	339.20	338.70	339.50	338.60	338.50	339.57
14/ 2/77	338.00	339.70	339.50	339.10	339.10	339.30	339.80	339.10	339.30	339.80	340.50	340.20	339.45
15/ 2/77	340.10	341.10	340.40	339.90	339.60	338.60	339.00	338.20	338.60	339.40	339.80	338.40	339.43
16/ 2/77	339.00	339.50	339.70	339.80	340.10	339.90	339.10	338.70	338.70	338.70	338.70	338.70	339.22
17/ 2/77	338.70	338.90	339.10	338.30	336.80	336.50	336.70	336.90	336.30	337.60	337.60	336.70	337.43
18/ 2/77	337.30	338.00	337.90	337.80	338.80	338.00	338.40	338.10	339.30	339.60	340.30	339.90	338.62
19/ 2/77	339.90	340.20	339.50	338.70	338.90	340.20	339.80	339.00	339.60	341.30	341.50	339.70	339.86
20/ 2/77	338.70	338.20	337.70	336.60	337.10	338.40	338.90	338.50	338.40	340.40	340.30	339.00	338.52
21/ 2/77	338.70	339.10	339.00	339.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.99
22/ 2/77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/ 2/77	0.00	0.00	0.00	0.00	61.30	282.90	337.60	338.30	338.90	344.00	344.30	344.00	199.28
24/ 2/77	344.90	344.70	341.90	341.80	337.30	336.30	336.80	337.50	338.30	339.20	338.60	338.50	339.65
25/ 2/77	337.90	338.60	335.40	336.90	338.00	337.40	336.70	337.50	339.10	341.80	341.20	340.10	338.38
26/ 2/77	340.30	339.20	340.30	340.30	340.40	341.50	339.70	338.80	338.70	341.60	341.20	340.70	340.23
27/ 2/77	341.30	341.20	340.30	339.80	340.10	340.90	340.40	339.70	338.60	340.70	340.60	340.60	340.35
28/ 2/77	340.70	340.60	340.40	339.70	338.50	337.10	338.00	336.50	337.70	339.20	338.50	340.60	338.96
1/ 3/77	337.92	337.78	337.64	337.50	337.36	337.22	337.08	337.31	337.93	339.07	338.95	338.10	337.82
2/ 3/77	337.26	338.43	338.52	337.30	336.00	334.42	337.08	333.79	334.24	336.02	335.97	334.88	336.16
3/ 3/77	335.27	335.75	335.12	335.46	334.72	334.84	335.68	335.66	337.03	336.77	336.48	336.15	335.74
4/ 3/77	336.43	336.98	336.55	336.26	336.38	336.98	335.76	336.22	337.69	338.98	339.60	339.81	337.30
5/ 3/77	340.28	339.83	339.17	294.34	29.31	0.00	185.13	303.26	295.08	251.82	124.26	0.00	208.54
6/ 3/77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/ 3/77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/ 3/77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/ 3/77	0.00	0.00	0.00	0.00	40.61	286.35	323.31	328.91	330.01	332.52	333.32	332.64	192.31
10/ 3/77	0.00	335.08	333.29	345.12	342.79	335.66	341.60	337.41	335.51	336.20	337.31	336.43	309.79
11/ 3/77	336.53	336.88	335.80	336.36	335.79	335.31	336.14	336.03	336.27	337.00	337.20	336.72	336.34
12/ 3/77	336.79	337.45	338.14	338.41	338.60	338.08	337.89	337.70	337.72	338.66	338.10	336.88	337.87
13/ 3/77	337.65	337.32	336.03	335.60	335.91	336.16	336.13	336.58	335.94	336.80	336.88	336.23	336.44

PERIOD 38
REACTOR POWER

REACTOR POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
14/ 3/77	336.09	336.68	337.38	337.21	341.00	340.65	339.54	339.73	341.52	346.49	346.14	344.99	340.62
15/ 3/77	344.91	344.95	343.82	346.42	337.42	338.90	339.12	339.58	340.51	340.56	340.33	340.07	341.38
16/ 3/77	340.32	340.36	339.98	339.71	340.56	340.11	339.80	342.41	341.94	342.27	342.10	341.92	340.96
17/ 3/77	341.74	342.43	342.30	341.35	340.48	340.18	340.38	340.49	340.58	342.07	342.52	341.69	341.35
18/ 3/77	341.27	341.57	340.83	340.05	340.30	339.85	339.66	338.90	339.98	340.43	341.02	340.73	340.38
19/ 3/77	340.68	341.16	340.60	340.20	340.64	340.89	340.76	340.70	340.61	341.07	341.47	340.80	340.80
20/ 3/77	341.30	341.32	340.64	339.84	340.14	340.79	340.81	341.18	340.58	341.14	342.20	341.90	340.99
21/ 3/77	340.48	341.03	341.17	340.02	341.09	172.85	0.00	0.00	0.00	0.00	0.00	159.33	169.66
22/ 3/77	338.15	339.18	338.46	338.19	337.26	336.62	336.92	336.61	337.57	338.02	338.36	339.32	337.89
23/ 3/77	340.93	341.76	341.13	340.39	339.30	337.56	337.10	335.81	337.25	338.30	338.71	338.67	338.91
24/ 3/77	337.67	338.28	338.15	337.72	337.85	336.84	337.60	337.29	338.27	338.99	339.61	338.71	338.08
25/ 3/77	336.53	340.17	340.18	339.43	339.10	338.52	338.29	337.18	338.10	338.97	340.29	340.07	338.89
26/ 3/77	339.00	340.60	340.70	339.80	342.10	339.40	340.20	339.70	339.80	339.70	340.10	340.00	340.09
27/ 3/77	339.30	339.70	339.10	338.50	338.60	339.60	339.70	340.20	340.50	341.10	342.10	341.60	340.00
28/ 3/77	340.50	341.50	341.30	340.20	339.50	338.90	339.10	338.40	339.30	339.40	339.80	340.10	339.83
29/ 3/77	339.30	340.10	340.40	339.80	340.00	340.00	340.80	340.70	339.80	340.10	340.70	340.30	340.17
30/ 3/77	339.90	340.70	341.20	340.00	340.30	338.00	338.00	339.00	339.60	339.80	340.30	340.50	339.75
31/ 3/77	339.70	340.90	341.20	339.80	338.80	338.90	338.60	337.60	337.50	337.60	338.00	337.00	338.79
1/ 4/77	337.48	338.75	339.08	337.45	337.22	337.12	93.20	0.00	0.00	0.00	0.00	0.00	176.69
2/ 4/77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 4/77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.66	284.14	335.16	336.81	80.40
4/ 4/77	338.78	340.51	339.97	340.39	339.94	339.08	338.80	340.82	339.56	339.32	339.85	339.81	339.73
5/ 4/77	338.82	339.72	340.16	340.05	339.43	338.39	337.90	337.22	337.46	337.89	338.23	338.40	338.64
6/ 4/77	338.61	339.34	338.83	337.41	337.42	336.73	338.10	335.57	335.12	335.38	336.98	336.34	337.15
7/ 4/77	334.88	335.37	335.28	335.51	336.58	338.01	338.44	338.16	338.70	338.84	339.65	339.25	337.39
8/ 4/77	338.36	339.48	338.78	338.50	338.49	337.93	338.10	337.80	337.44	337.82	338.29	337.97	338.25
9/ 4/77	337.28	337.56	337.54	336.78	337.53	336.14	336.97	337.80	337.58	337.52	338.14	337.66	337.38
10/ 4/77	337.84	338.90	338.73	337.97	337.85	338.55	339.95	339.08	338.09	338.05	338.71	338.89	338.55
11/ 4/77	337.35	336.98	323.44	337.25	337.72	337.49	337.55	337.01	336.92	337.41	338.96	338.72	336.57
12/ 4/77	338.21	338.98	338.36	337.00	336.04	336.00	335.86	335.64	336.19	336.66	337.86	337.33	337.01
13/ 4/77	336.88	337.69	337.13	336.49	336.29	335.80	335.72	313.62	313.29	336.66	337.26	337.28	332.84
14/ 4/77	336.92	338.01	337.90	337.48	274.91	183.90	237.90	286.98	321.26	338.80	339.82	340.60	306.21
15/ 4/77	340.04	341.41	340.87	340.39	302.98	284.43	288.17	284.46	310.57	339.61	339.96	340.50	321.12
16/ 4/77	340.06	340.98	341.07	340.86	340.60	340.22	340.27	339.55	339.34	339.68	340.21	340.41	340.27
17/ 4/77	339.92	340.94	340.34	339.79	340.15	339.90	339.77	339.35	340.04	339.56	340.40	339.92	340.01
18/ 4/77	339.21	340.99	340.99	339.79	289.98	250.80	212.81	182.29	174.44	267.81	336.09	338.35	284.46
19/ 4/77	337.67	339.25	338.82	329.12	293.94	294.86	292.45	292.76	245.65	235.57	312.26	338.69	304.25
20/ 4/77	339.47	340.44	341.31	274.60	179.07	178.39	265.86	253.37	292.24	337.41	333.91	337.22	289.44
21/ 4/77	336.72	338.13	338.00	333.58	179.07	325.60	288.54	287.05	327.00	325.75	332.78	338.09	312.53
22/ 4/77	337.23	338.57	339.23	328.07	303.66	309.84	317.27	317.30	335.31	342.22	343.43	345.01	329.76
23/ 4/77	345.04	347.63	348.25	346.88	347.21	347.41	348.55	348.10	348.37	347.51	349.25	349.51	347.81
24/ 4/77	347.96	349.41	349.41	348.10	348.21	347.82	347.55	346.96	346.54	346.96	346.53	345.79	347.60
25/ 4/77	345.14	345.19	345.65	333.16	292.17	308.53	331.49	342.49	342.42	343.59	344.18	343.68	334.81
26/ 4/77	310.06	310.97	311.11	333.16	311.06	308.56	311.79	311.91	343.89	346.36	346.45	346.06	324.28
27/ 4/77	311.37	310.87	310.44	309.95	322.09	340.48	343.69	342.73	343.98	344.98	345.52	345.59	330.97
28/ 4/77	345.24	346.49	346.79	346.05	305.45	347.74	339.09	346.61	341.43	344.57	350.32	338.57	341.53
29/ 4/77	346.40	337.51	340.78	348.99	351.69	351.66	183.66	0.00	0.00	0.00	0.00	0.00	188.39

** PERIOD AVERAGE 298.94

*** TOTAL AVERAGE 307.18

PERIOD 33
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
26/10/75	.6082	.6082	.7046	1.8467	2.3585	2.3807	2.4994	2.5291	2.5810	2.5291	2.5736	2.4994	1.9765
27/10/75	2.5030	2.5479	2.5404	2.5030	2.5628	2.5553	2.5479	2.5479	2.5329	2.5255	2.5180	2.5628	2.5373
28/10/75	2.5097	2.5097	2.4879	2.4952	2.4952	2.5171	2.5170	2.5242	2.5752	2.6552	2.6480	2.6334	2.5473
29/10/75	2.7048	2.6974	2.6899	2.7048	2.6974	2.6974	2.7422	2.7422	2.7497	2.7497	2.7497	2.7497	2.7229
30/10/75	2.7091	2.7018	2.7091	2.6944	2.7018	2.7018	2.7091	2.7018	2.6944	2.6944	2.6872	2.7091	2.7012
31/10/75	2.7033	2.7033	2.7179	2.7252	2.7325	2.6594	2.6594	2.6448	2.6302	2.6302	2.6448	2.6375	2.6740
1/11/75	2.6820	2.6820	2.6968	2.6820	2.7190	2.7264	2.6968	2.7783	2.7856	2.7783	2.7561	2.7561	2.7283
2/11/75	2.7047	2.7047	2.6974	2.6902	2.6610	2.6464	2.6537	2.6610	2.6682	2.6682	2.6828	2.6902	2.6774
3/11/75	2.7135	2.6404	2.7208	2.7135	2.7208	2.7281	2.7062	2.7062	2.6916	2.6916	2.6843	2.6916	2.7007
4/11/75	2.7090	2.6722	2.6943	2.7016	2.7016	2.7016	2.7237	2.7385	2.7385	2.7385	2.7385	2.7237	2.7151
5/11/75	2.7046	2.6756	2.7119	2.6974	2.6756	2.6683	2.7119	2.6901	2.6901	2.7119	2.6901	2.6974	2.6937
6/11/75	2.6914	2.6914	2.6987	2.6697	2.6914	2.6987	2.7060	2.7131	2.6843	2.6770	2.6770	2.6770	2.6896
7/11/75	2.6959	2.6594	2.6959	2.6813	2.7033	2.7179	2.7106	2.7106	2.7325	2.7252	2.7325	2.7179	2.7069
8/11/75	2.6872	2.7016	2.7016	2.6944	2.6944	2.7016	2.7016	2.7161	2.7016	2.6799	2.6799	2.6799	2.6950
9/11/75	2.7030	2.7030	2.6813	2.6813	2.6741	2.7030	2.7102	2.7102	2.7102	2.7030	2.6885	2.6958	2.6970
10/11/75	2.6928	2.6928	2.7073	2.6928	2.6783	2.6856	2.7073	2.7073	2.7073	2.7073	0.0000	0.0000	2.2482
11/11/75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12/11/75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13/11/75	.1878	.2103	.6760	.7812	.7737	.8037	.7887	1.3145	2.7491	2.7191	2.6966	2.6815	1.3652
14/11/75	2.6217	2.7030	2.6512	2.6734	2.7250	2.6881	2.6881	2.7546	2.7546	2.7472	2.7177	2.7030	2.7023
15/11/75	2.6696	2.6769	2.6916	2.6769	2.6916	2.6916	2.6843	2.6916	2.6916	2.6916	2.6989	2.6989	2.6879
16/11/75	2.6916	2.6843	2.6843	2.6989	2.6916	2.6916	2.6916	2.6771	2.6916	2.6771	2.6552	2.6625	2.6831
17/11/75	2.6727	2.6727	2.6727	2.6654	2.6727	2.6945	2.6727	2.6654	2.6945	2.7018	2.7018	2.6945	2.6818
18/11/75	2.6955	2.6667	2.6667	2.6667	2.6738	2.6810	2.6882	2.6738	2.6955	2.6810	2.6810	2.6738	2.6786
19/11/75	2.6840	2.6840	2.6912	2.6984	2.6912	2.6912	2.6696	2.6696	2.6624	2.6624	2.6768	2.6768	2.6798
20/11/75	2.7030	2.7030	2.6813	2.6885	2.7030	2.6741	2.6596	2.7030	2.6958	2.6958	2.7030	2.6958	2.6921
21/11/75	2.6885	2.6958	2.6958	2.7175	2.7319	2.7319	2.7391	2.7391	2.7175	2.6885	2.6885	2.6958	2.7108
22/11/75	2.6944	2.6944	2.6944	2.7161	2.7016	2.7161	2.7307	2.7307	2.7307	2.7161	2.7307	2.7307	2.7155
23/11/75	2.6653	2.7157	2.7157	2.7157	2.7086	2.7229	2.7302	2.7229	2.7302	2.7157	2.7013	2.7013	2.7121
24/11/75	2.7110	2.6895	2.6966	2.6966	2.6895	2.6895	2.7110	2.6895	2.7038	2.7038	2.7110	2.7038	2.6996
25/11/75	2.6913	2.6700	2.6913	2.6913	2.7055	2.6913	2.6345	2.6487	2.6487	2.6416	2.6345	2.6416	2.6658
26/11/75	2.4126	2.1791	2.1791	2.2375	2.2570	2.2701	2.3737	2.4450	2.4321	2.4256	2.4321	2.4126	2.3380
27/11/75	2.3769	2.1270	2.2039	2.2103	2.2296	2.1847	2.1783	2.1975	2.3577	2.1783	2.4153	2.4153	2.2562
28/11/75	2.7332	2.7115	2.6971	2.6971	2.6827	2.6466	2.6827	2.6682	2.6682	2.6682	2.6682	2.6682	2.6827
29/11/75	2.6445	2.6374	2.6374	2.6659	2.6374	2.6445	2.6659	2.6659	2.6659	2.6587	2.6374	2.6587	2.6516
30/11/75	2.6734	2.6806	2.6449	2.6592	2.6592	2.6663	2.6806	2.6806	2.6949	2.6878	2.6806	2.6806	2.6741
1/12/75	2.6907	2.6621	2.6693	2.6979	2.7051	2.7336	2.6550	2.7051	2.6907	2.6907	2.6979	2.7194	2.6931
2/12/75	2.6872	2.6801	2.6730	2.6801	2.6801	2.6801	2.6730	2.6801	2.6801	2.6730	2.6730	2.6659	2.6771
3/12/75	2.6782	2.6782	2.6782	2.6641	2.6712	2.6782	2.6641	2.6712	2.6641	2.6782	2.6853	2.6924	2.6753
4/12/75	2.6714	2.6714	2.6784	2.6854	2.6925	2.6925	2.6995	2.6925	2.6925	2.6854	2.6854	2.7065	2.6878
5/12/75	2.6965	2.6754	2.6754	2.6754	2.6684	2.6544	2.6192	2.6263	2.6192	2.6192	2.6263	2.6333	2.6491
6/12/75	2.6700	2.6700	2.6842	2.6700	2.6700	2.6700	2.6700	2.6700	2.6984	2.6984	2.6984	2.6984	2.6806
7/12/75	2.6714	2.6644	2.6714	2.6714	2.6574	2.6714	2.6714	2.6784	2.6714	2.6714	2.6714	2.6714	2.6702
8/12/75	2.6744	2.6744	2.6744	2.6604	2.6744	2.6604	2.6532	2.6744	2.6744	2.6604	2.6744	2.6744	2.6691
9/12/75	2.6714	2.6644	2.6714	2.6644	2.6714	2.6714	2.6714	2.6714	2.6784	2.6714	2.6854	2.6714	2.6720
10/12/75	2.6624	2.6694	2.6624	2.6764	2.6694	2.6764	2.6764	2.6834	2.6834	2.6904	2.6694	2.6764	2.6747
11/12/75	2.6692	2.6622	2.6622	2.6622	2.6622	2.6761	2.6901	2.6761	2.6553	2.6484	2.6553	2.6553	2.6646
12/12/75	2.6504	2.6783	2.6713	2.6644	2.6574	2.6155	2.6295	2.6574	2.6574	2.6644	2.6574	2.6713	2.6562
13/12/75	2.6692	2.6761	2.6622	2.6692	2.6484	2.6414	2.6484	2.6761	2.6692	2.6622	2.6761	2.6622	2.6634
14/12/75	2.6761	2.6622	2.6553	2.6553	2.6553	2.6553	2.6553	2.6553	2.6553	2.6761	2.6553	2.6553	2.6594
15/12/75	2.6683	2.6683	2.6753	2.6822	2.6683	2.6822	2.6734	2.5987	2.5987	2.5987	2.5917	2.5847	2.6375
16/12/75	2.6705	2.6776	2.6776	2.6776	2.6991	2.7491	2.6919	2.7134	2.7134	2.7205	2.7205	2.7277	2.7032

PERIOD 33
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
17/12/75	2.6714	2.6784	2.6714	2.6784	2.6854	2.6714	2.6714	2.6784	2.6784	2.6784	2.6784	2.6925	2.6778
18/12/75	2.6834	2.6624	2.6834	2.6764	2.6694	2.6344	2.6554	2.6344	2.6274	2.6414	2.6414	2.6344	2.6537
19/12/75	2.6663	2.6804	2.6734	2.6734	2.7015	2.6945	2.6804	2.7086	2.6945	2.6945	2.7023	2.6874	2.6881
20/12/75	2.6752	2.6754	2.6754	1.8960	1.2148	.8146	.7443	1.1586	2.4577	2.7386	2.7035	2.7035	2.0381
21/12/75	2.7065	2.6854	2.6574	2.6151	2.5871	2.6925	2.6854	2.6925	2.6784	2.6644	2.6644	2.6644	2.6661
22/12/75	2.6961	2.6818	2.6890	2.6747	2.6890	2.6961	2.7388	2.7603	2.7175	2.7389	2.7033	2.7674	2.7169
23/12/75	2.6779	2.6848	2.6640	2.6709	2.6917	2.6640	2.6432	2.5948	2.5948	2.6017	2.6017	2.6087	2.6415
24/12/75	2.6551	2.6834	2.6834	2.6975	2.6975	2.6763	2.6904	2.6693	2.6763	2.6763	2.6693	2.6693	2.6787
25/12/75	2.6684	2.6754	2.6754	2.6824	2.6895	2.6895	2.6824	2.6965	2.6544	2.6614	2.6473	2.6544	2.6731
26/12/75	2.6394	2.6394	2.6883	2.7022	2.7022	2.6953	2.7022	2.7022	2.7162	2.7022	2.6743	2.6953	2.6883
27/12/75	2.6809	2.6671	2.6740	2.6671	2.6740	2.6809	2.6740	2.6809	2.6809	2.6878	2.6809	2.6740	2.6769
28/12/75	2.6718	2.6718	2.6925	2.6856	2.6856	2.6925	2.6925	2.6925	2.6718	2.6925	2.6648	2.6580	2.6810
29/12/75	2.6794	2.6654	2.6865	2.7004	2.6935	2.7075	2.7215	2.7215	2.7215	2.7145	2.7145	2.7215	2.7043
30/12/75	2.6894	2.6756	2.6756	2.6825	2.7032	2.6894	2.6480	2.6411	2.6342	2.6411	2.6411	2.6549	2.6647
31/12/75	2.6801	2.6731	2.6870	2.6940	2.6940	2.6940	2.6870	2.7078	2.7078	2.7009	2.7078	2.7078	2.6951
1/ 1/76	2.6940	2.6940	2.6731	2.6870	2.6801	2.6731	2.6801	2.6940	2.7217	2.7078	2.7287	2.7287	2.6969
2/ 1/76	2.7039	2.6764	2.6695	2.6764	2.6764	2.6695	2.6695	2.6832	2.6695	2.6832	2.6901	2.6695	2.6781
3/ 1/76	2.6862	2.6862	2.6792	2.6723	2.6723	2.6862	2.6931	2.6931	2.6931	2.6862	2.6792	2.6792	2.6838
4/ 1/76	2.6753	2.6822	2.6683	2.6822	2.6822	2.6962	2.7171	2.7171	2.7519	2.7449	2.7310	2.7380	2.7072
5/ 1/76	2.6908	2.6839	2.6771	2.6565	2.6771	2.6428	2.6428	2.6359	2.6222	2.5947	2.6016	2.6084	2.6445
6/ 1/76	2.6674	2.6813	2.6813	2.6883	2.6883	2.7022	2.7162	2.7372	2.7302	2.7302	2.6953	2.6953	2.7011
7/ 1/76	2.6925	2.6797	2.6787	2.6787	2.6856	2.6718	2.6787	2.6856	2.6787	2.6718	2.6925	2.6787	2.6810
8/ 1/76	2.6771	2.6771	2.6771	2.6771	2.6908	2.6977	2.6839	2.6977	2.6908	2.6908	2.6771	2.6839	2.6851
9/ 1/76	2.6853	2.6853	2.6853	2.6784	2.6784	2.6784	2.6853	2.6853	2.6784	2.6784	2.6716	2.6648	2.6796
10/ 1/76	2.6952	2.6747	2.6884	2.6815	2.6952	2.6747	2.6815	2.6952	2.6815	2.6952	2.6884	2.7089	2.6884
11/ 1/76	2.6802	2.6870	2.6870	2.6870	2.6870	2.6802	2.6599	2.6599	2.6463	2.6463	2.6531	2.6395	2.6678
12/ 1/76	2.6821	2.6821	2.6821	2.6890	2.7026	2.7026	2.7026	2.7026	2.7026	2.6753	2.6890	2.6617	2.6895
13/ 1/76	2.6740	2.6740	2.6877	2.6740	2.7082	2.6534	2.6054	2.6123	2.6054	2.5780	2.5848	2.5917	2.6374
14/ 1/76	2.6093	2.6778	2.7120	2.7189	2.7325	2.7325	2.7325	2.7325	2.7120	2.7120	2.6983	2.6983	2.7057
15/ 1/76	2.6784	2.6716	2.6716	2.6784	2.6648	2.6784	2.6648	2.7126	2.6921	2.6921	2.6921	2.6921	2.6824
16/ 1/76	2.6734	2.6734	2.6802	2.6667	2.6802	2.6802	2.6395	2.6395	2.6395	2.6327	2.6531	2.6463	2.6587
17/ 1/76	2.6641	2.6778	2.6983	2.6983	2.6983	2.6778	2.6847	2.6983	2.6983	2.6983	2.6983	2.6983	2.6909
18/ 1/76	2.6865	2.6729	2.6729	2.6797	2.6933	2.6933	2.6797	2.6933	2.6933	2.6865	2.7069	2.7205	2.6899
19/ 1/76	2.6870	2.6667	2.6667	2.6599	2.6734	2.6734	2.6259	2.6259	2.6259	2.6259	2.6327	2.6327	2.6497
20/ 1/76	2.6821	2.6821	2.6753	2.6821	2.6890	2.6890	2.7026	2.6480	2.6344	2.6344	2.6412	2.6344	2.6662
21/ 1/76	2.6886	2.6679	2.6748	2.6817	2.6886	2.6886	2.7163	2.7163	2.7163	2.7163	2.7163	2.7232	2.6996
22/ 1/76	2.6877	2.6809	2.6809	2.7015	2.7015	2.6946	2.7015	2.6946	2.7015	2.7015	2.6946	2.7015	2.6952
23/ 1/76	2.6921	2.6853	2.6784	2.6716	2.6853	2.6921	2.6989	2.6237	2.7126	2.0498	.0342	0.0000	2.1853
24/ 1/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25/ 1/76	.0966	.3931	.7862	1.8826	1.8136	1.8619	2.5583	2.5998	2.6618	2.6825	2.7377	2.7170	1.8992
26/ 1/76	2.7373	2.7236	2.6623	2.6283	2.7441	2.7304	2.7168	2.6828	2.6692	2.6555	2.6555	2.6555	2.6885
27/ 1/76	2.6848	2.6996	2.6917	2.6848	2.7816	2.8024	2.8093	2.8024	2.7955	2.7955	2.7955	2.7955	2.7615
28/ 1/76	2.7091	2.7023	2.6956	2.7023	2.7091	2.7091	2.7158	2.7158	2.7225	2.7225	2.7225	2.7158	2.7119
29/ 1/76	2.7065	2.6999	2.6999	2.7065	2.7065	2.6999	2.6865	2.6798	2.6798	2.6731	2.6798	2.6798	2.6915
30/ 1/76	2.6862	2.6794	2.6794	2.6727	2.6862	2.6862	2.6862	2.6862	2.6794	2.6794	2.6593	2.6727	2.6794
31/ 1/76	2.6700	2.6767	2.6700	2.6700	2.6700	2.6900	2.6966	2.6966	2.6966	2.6767	2.6966	2.6833	2.6828
1/ 2/76	2.6996	2.6929	2.6929	2.6996	2.6929	2.7063	2.6929	2.6996	2.7330	2.7196	2.7330	2.7263	2.7074
2/ 2/76	2.6908	2.7041	2.6908	2.6776	2.6842	2.6842	2.6842	2.6577	2.6510	2.6709	2.6709	2.6776	2.6787
3/ 2/76	2.7001	2.6935	2.6935	2.6935	2.7001	2.6935	2.6968	2.7001	2.6935	2.6868	2.7068	2.6868	2.6946
4/ 2/76	2.6903	2.6836	2.6970	2.7103	2.6970	2.7103	2.6970	2.7169	2.7036	2.7103	2.7103	2.6970	2.7023
5/ 2/76	2.7103	2.6836	2.6903	2.6903	2.6970	2.6970	2.7036	2.6703	2.6703	2.6570	2.6836	2.6570	2.6842
6/ 2/76	2.6963	2.6963	2.7030	2.7030	2.7030	2.7030	2.6763	2.6629	2.6562	2.6495	1.0036	0.0000	2.3211

** PERIOD AVERAGE 2.5513

PERIOD 34
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
8/	2/76	0.0000	.0735	.2670	.5207	.4939	.7142	1.1280	2.6700	2.6633	2.6566	2.6900	2.6966	1.3812
9/	2/76	2.6648	2.7044	2.7703	2.7242	2.8099	2.7703	2.8363	2.8033	2.7770	2.7440	2.7110	2.7110	2.7522
10/	2/76	2.6364	2.6171	2.6107	2.7454	2.7583	2.7583	2.7454	2.7390	2.7326	2.7326	2.7262	2.7262	2.7107
11/	2/76	2.7131	2.7067	2.7067	2.7067	2.6875	2.7194	2.7194	2.7194	2.7515	2.7707	2.7515	2.7387	2.7243
12/	2/76	2.7421	2.6844	2.6652	2.6652	2.6780	2.6716	2.7036	2.7036	2.7228	2.6588	2.7228	2.7164	2.6945
13/	2/76	2.7060	2.7060	2.6997	2.7060	2.6938	2.6488	2.5979	2.4259	2.6170	2.6424	2.6424	2.6424	2.6440
14/	2/76	2.6751	2.6880	2.6945	2.6880	2.6816	2.7009	2.7009	2.7009	2.7009	2.7009	2.6945	2.7009	2.6939
15/	2/76	2.6943	2.6943	2.6943	2.6943	2.6814	2.7007	2.7007	2.7071	2.7200	2.7200	2.7071	2.7136	2.7023
16/	2/76	2.7005	2.7005	2.7005	2.7005	2.6877	2.7070	2.7134	2.7070	2.7134	2.6685	2.6428	2.7070	2.6957
17/	2/76	2.7094	2.6903	2.6903	2.6903	2.6839	2.6966	2.7030	2.6903	2.6393	2.6138	2.6010	2.6010	2.6675
18/	2/76	2.6915	2.6981	2.6981	2.6981	2.7177	2.7177	2.7243	2.7308	2.7374	2.7243	2.7439	2.7570	2.7199
19/	2/76	2.6977	2.6914	2.6914	2.6977	2.7172	2.6977	2.7107	2.7042	2.7107	2.7107	2.7236	2.7236	2.7064
20/	2/76	2.6941	2.6813	2.6877	2.6877	2.7134	2.7134	2.7070	2.7134	2.7134	2.7198	2.7134	2.7134	2.7048
21/	2/76	2.7034	2.7161	2.7097	2.7034	2.6970	2.6842	2.7034	2.7097	2.7097	2.6906	2.7034	2.7034	2.7028
22/	2/76	2.7136	2.7136	2.7071	2.7007	2.7200	2.7200	2.7071	2.7200	2.7200	2.7200	2.7071	2.7200	2.7141
23/	2/76	2.6394	2.6970	2.6970	2.6970	2.6970	2.6778	2.6970	2.6778	2.6970	2.6778	2.6778	2.6842	2.6847
24/	2/76	2.7064	2.6873	2.6936	2.7000	2.6936	2.7127	2.7064	2.7000	2.7000	2.7000	2.6873	2.6936	2.6984
25/	2/76	2.7034	2.7097	2.6906	2.7034	2.7034	2.7034	2.7034	2.6970	2.7097	2.7161	2.6970	2.7097	2.7039
26/	2/76	2.6869	2.6997	2.6933	2.7060	2.6933	2.6360	2.6806	2.6742	2.6869	2.6869	2.6678	2.6933	2.6838
27/	2/76	2.7101	2.7036	2.6972	2.6908	2.6972	2.6908	2.7292	2.7164	2.7101	2.7036	2.7101	2.6972	2.7047
28/	2/76	2.6972	2.6972	2.6908	2.6908	2.6908	2.6908	2.6972	2.7036	2.7101	2.7164	2.6972	2.7164	2.6999
29/	2/76	2.6970	2.7034	2.7034	2.7097	2.7097	2.7097	2.7161	2.7034	2.7481	2.7097	2.7034	2.6842	2.7081
1/	3/76	2.6514	2.7019	2.6893	2.6830	2.6830	2.6956	2.7146	2.7652	2.7968	2.7589	2.7652	2.7652	2.7225
2/	3/76	2.6797	2.7045	2.6797	2.6734	2.6672	2.6734	2.6797	2.6983	2.7108	2.6983	2.6797	2.6983	2.6869
3/	3/76	2.6887	2.6949	2.6887	2.6763	2.6763	2.6949	2.7073	2.6763	2.6949	2.6824	2.6763	2.6824	2.6866
4/	3/76	2.6865	2.6802	2.6865	2.6740	2.6802	2.6802	2.6989	2.6989	2.7114	2.7052	2.7052	2.6927	2.6917
5/	3/76	2.6893	2.6955	2.6768	2.6768	2.6768	2.6768	2.7142	1.2450	0.0000	0.0000	0.0000	0.0000	1.6710
6/	3/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7/	3/76	0.0000	0.0000	0.0000	0.0000	0.0000	.0731	.1264	.3126	.5720	1.4034	2.6937	2.6871	.6557
8/	3/76	2.5856	2.7044	2.7440	2.6780	2.7317	2.7374	2.6780	2.7505	2.8033	2.7637	2.8033	2.7901	2.7308
9/	3/76	2.6461	2.6717	2.7295	2.7295	2.7295	2.7295	2.7295	2.7232	2.7359	2.7232	2.7167	2.7038	2.7140
10/	3/76	2.6974	2.7167	2.7103	2.7167	2.6974	2.7103	2.7295	2.7232	2.7232	2.7295	2.7295	2.7295	2.7178
11/	3/76	2.7027	2.7027	2.7027	2.7027	2.7091	2.7027	2.7218	2.7154	2.7027	2.7027	2.7091	2.7091	2.7070
12/	3/76	2.5317	.9889	1.0484	1.0365	1.0246	1.1437	1.1437	1.1377	1.1199	1.1080	1.1139	1.1020	1.2083
13/	3/76	1.1118	1.1057	1.0936	1.0936	1.0936	1.0996	1.0996	1.1057	2.6063	2.5820	2.5820	2.5577	1.5943
14/	3/76	2.6106	2.6869	2.6488	2.7570	2.7315	2.6742	2.7379	2.7315	2.7124	2.6869	2.6806	2.6742	2.6944
15/	3/76	2.6948	2.6948	2.6948	2.6948	2.7465	2.7595	2.7789	2.7789	2.7595	2.7530	2.7595	2.7530	2.7390
16/	3/76	2.7027	2.6963	2.6963	2.6963	2.7027	2.7091	2.7281	2.7218	2.7345	2.7091	2.7218	2.7154	2.7112
17/	3/76	2.7006	2.6943	2.7006	2.6880	2.7131	2.7006	2.7006	2.6755	2.6755	2.6755	2.6755	2.6755	2.6896
18/	3/76	2.6859	2.6859	2.7302	2.7302	2.7302	2.7365	2.7555	2.7555	2.7365	2.7365	2.7365	2.7365	2.7297
19/	3/76	2.7000	2.7063	2.7000	2.7126	2.6938	2.7000	2.7126	2.7126	2.7189	2.6249	2.6186	2.6687	2.6891
20/	3/76	2.7019	2.7019	2.6956	2.6956	2.7019	2.7146	2.7463	2.7400	2.7463	2.7463	2.7209	2.7146	2.7188
21/	3/76	2.7189	2.7063	2.7000	2.7000	2.7063	2.7000	2.7000	2.7063	2.6938	2.7000	2.7000	2.7000	2.7027
22/	3/76	2.6933	2.6933	2.6933	2.6870	2.6933	2.6746	2.6870	2.6870	2.6870	2.6933	2.6808	2.6808	2.6875
23/	3/76	2.6977	2.7040	2.6977	2.7103	2.7040	2.7165	2.7165	2.7543	2.7417	2.7983	2.8046	2.7794	2.7354
24/	3/76	2.7097	2.7036	2.7036	2.6913	2.6729	2.6790	2.6790	2.7036	2.7036	2.7036	2.7036	2.7097	2.6969
25/	3/76	2.7123	2.7123	2.7001	2.7062	2.7123	2.7001	2.6511	2.5837	2.5715	2.5899	2.5777	2.6083	2.6521
26/	3/76	2.6770	2.7087	2.7087	2.6770	2.7214	2.7087	2.7214	2.7214	2.7277	2.7277	2.7150	2.7467	2.7135
27/	3/76	2.7079	2.7142	2.7079	2.7079	2.7142	2.7142	2.7079	2.7079	2.7142	2.7266	2.7018	2.7018	2.7105
28/	3/76	2.7114	2.7176	2.7114	2.7052	2.7301	2.7052	2.7052	2.7176	2.7176	2.7176	2.7176	2.7114	2.7140
29/	3/76	2.7114	2.7052	2.7052	2.6989	2.7301	2.7052	2.7176	2.7239	2.7301	2.7363	2.7363	2.7363	2.7197
30/	3/76	2.6970	2.6970	2.7093	2.7093	2.6908	2.7093	2.7527	2.6970	2.6537	2.6351	2.6289	2.6847	2.6887

PERIOD 34
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
31/ 3/76		2.7135	2.7135	2.7073	2.7198	2.7135	2.7198	2.7321	2.7259	2.7259	2.7198	2.7073	2.7011	2.7166
1/ 4/76		2.7108	2.7170	2.7045	2.7045	2.7108	2.7045	2.6983	2.7045	2.6983	2.6921	2.7108	2.7108	2.7056
2/ 4/76		2.7142	2.7142	2.7079	2.7079	2.7204	2.7204	2.7204	2.7079	2.7204	2.7142	2.7142	2.7018	2.7136
3/ 4/76		2.7211	2.7273	2.6961	2.7148	2.6961	2.7086	2.7211	2.7336	2.7336	2.7273	2.7273	2.7273	2.7195
4/ 4/76		2.7045	2.7108	2.7170	2.7108	2.7108	2.7170	2.7232	2.7108	2.7294	2.7294	2.7356	2.7232	2.7185
5/ 4/76		2.7135	2.7135	2.7011	2.7011	2.7011	2.7321	2.7135	2.7135	2.7384	2.6949	2.7198	2.7073	2.7125
6/ 4/76		2.7108	2.7170	2.7045	2.7045	2.7232	2.7108	2.7045	2.6921	2.7045	2.6983	2.6921	2.6859	2.7040
7/ 4/76		2.6313	2.6984	2.7166	2.7166	2.7166	2.7166	2.7288	2.7410	2.7288	2.7105	2.6922	2.6862	2.7070
8/ 4/76		2.7062	2.7123	2.7062	2.7062	2.6940	2.6756	2.6756	2.6511	2.6695	2.6695	2.6572	2.6695	2.6827
9/ 4/76		2.7039	2.7039	2.7101	2.7101	2.7163	2.7163	2.7163	2.7224	2.7287	2.7349	2.7349	2.7349	2.7194
10/ 4/76		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11/ 4/76		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12/ 4/76		.0748	.5236	.8415	2.6304	2.4932	2.5119	2.5306	2.5618	2.6678	2.6678	2.6366	2.6553	2.0663
13/ 4/76		2.6847	2.6228	2.6847	2.6723	2.7032	2.7156	2.7279	2.6908	2.6908	2.6723	2.6784	2.6723	2.6846
14/ 4/76		2.6958	2.7202	2.7079	2.7079	2.7202	2.7079	2.7202	2.7079	2.6896	2.6896	2.6958	2.6835	2.7039
15/ 4/76		2.6843	2.6721	2.6905	2.6783	2.6783	2.6843	2.6843	2.6905	2.6966	2.6905	2.6905	2.6905	2.6859
16/ 4/76		2.6878	2.6940	2.6817	2.6695	2.6695	2.6817	2.6940	2.7062	2.7062	2.6940	2.6940	2.6878	2.6889
17/ 4/76		2.6809	2.6809	2.6870	2.6687	2.6809	2.6809	2.6992	2.6992	2.7053	2.6992	2.6931	2.6992	2.6896
18/ 4/76		2.6896	2.6896	2.6896	2.6775	2.6775	2.6835	2.7019	2.7079	2.7202	2.7079	2.7019	2.7079	2.6962
19/ 4/76		2.6801	2.6922	2.6862	2.6984	2.6984	2.7105	2.7227	2.7166	2.7166	2.7166	2.7105	2.7105	2.7049
20/ 4/76		2.7019	2.7019	2.6896	2.6835	2.6835	2.6958	2.7079	2.7140	2.7262	2.7262	2.7262	2.7140	2.7059
21/ 4/76		2.6792	2.7035	2.6914	2.6853	2.6792	2.6792	2.6914	2.6853	2.7035	2.7035	2.7035	2.6792	2.6903
22/ 4/76		2.6914	2.6914	2.6914	2.6731	2.6914	2.6853	2.6853	2.6914	2.6853	2.7035	2.7035	2.6914	2.6903
23/ 4/76		2.6853	2.6853	2.6853	2.6731	2.6731	2.6488	2.6792	2.6914	2.7035	2.7035	2.7035	2.7035	2.6863
24/ 4/76		2.6869	2.6929	2.6929	2.6809	2.6929	2.6748	2.6809	2.6929	2.6809	2.6809	2.6869	2.6748	2.6849
25/ 4/76		2.6974	2.6853	2.6792	2.6853	2.6974	2.6974	2.7035	2.6792	2.6914	2.6974	2.6974	2.6853	2.6914
26/ 4/76		2.6783	2.6783	2.6965	2.6904	2.6783	2.6965	2.6783	2.6904	2.6843	2.6965	2.6843	2.6843	2.6864
27/ 4/76		2.6792	2.6853	2.6853	2.6792	2.6914	2.6488	2.7217	2.6914	2.7035	2.6974	2.7035	2.6974	2.6903
28/ 4/76		2.6850	2.6789	2.6789	2.6850	2.6789	2.6729	2.6910	2.6910	2.6910	2.7030	2.6910	2.6910	2.6864
29/ 4/76		2.6729	2.6789	2.6850	2.6729	2.6850	2.7331	2.7150	2.7271	2.7452	2.7692	2.7572	2.7391	2.7150
30/ 4/76		2.6806	2.6806	2.6806	2.6806	2.6629	2.6629	2.6747	2.6865	2.6806	2.6806	2.6925	2.6865	2.6791
1/ 5/76		2.6771	2.6890	2.6890	2.6830	2.6949	2.6890	2.6890	2.6890	2.6949	2.6890	2.6949	2.6949	2.6895
2/ 5/76		2.6914	2.6794	2.6854	2.6914	2.6914	2.6914	2.6973	2.6914	2.7032	2.6914	2.6854	2.6914	2.6909
3/ 5/76		2.6925	2.6806	2.6925	2.6806	2.6925	2.6985	2.6925	2.6985	2.6865	2.6211	2.6330	2.6687	2.6781
4/ 5/76		2.6578	2.4727	2.6459	2.6638	2.6817	2.7056	2.6996	2.4488	2.6101	2.2159	2.5623	2.6340	2.5832
5/ 5/76		2.7035	2.4483	2.4301	2.4362	2.4301	2.4483	2.5212	2.5516	2.7886	2.6124	2.5638	2.5456	2.5400
6/ 5/76		2.4966	2.7235	2.6937	2.6638	2.6578	2.6519	2.6578	2.6519	2.6698	2.6638	2.6638	2.6459	2.6534
7/ 5/76		2.6870	2.6992	2.6809	2.6870	2.6931	2.7481	2.7603	2.6992	0.0000	0.0000	0.0000	0.0000	1.8046

** PERIOD AVERAGE 2.5127

PERIOD 35
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
10/ 9/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.1951	1.2753	1.4660	1.6676	.3836
11/ 9/76	1.8691	2.0766	2.1058	1.4226	0.0000	0.0000	0.0000	0.0000	0.0000	.4612	.8184	.7295	
12/ 9/76	1.1756	1.2040	1.7524	2.0640	2.1311	2.1295	2.1145	2.1279	2.3575	2.4120	2.4041	2.3954	2.0223
13/ 9/76	2.3867	2.3891	2.3899	2.3954	2.3946	2.3970	2.3938	2.3930	2.4017	2.4601	2.5256	2.5236	2.4209
14/ 9/76	2.5216	2.5224	2.5319	2.5303	2.5043	2.5295	2.5358	2.5343	2.5390	2.5469	2.5453	2.5414	2.5319
15/ 9/76	2.5374	2.5366	2.5390	2.5311	2.5343	2.5256	2.5264	2.5232	2.5287	2.5335	2.5311	2.5244	2.5309
16/ 9/76	2.5177	2.5138	2.5114	2.5138	2.5130	2.5280	2.5232	2.5059	2.5082	2.5185	2.5169	2.5086	2.5149
17/ 9/76	2.5003	2.4972	2.4972	2.4940	2.4940	2.4948	2.4861	2.4917	2.4972	2.5011	2.5043	2.4984	2.4964
18/ 9/76	2.4925	2.4956	2.4972	2.4901	2.4893	2.4790	2.4696	2.4688	2.4633	2.4633	2.4656	2.4637	2.4782
19/ 9/76	2.4617	2.4569	2.4562	2.4562	2.4664	2.4688	2.4704	2.4648	2.4648	2.4696	2.4704	2.4727	2.4649
20/ 9/76	2.4751	2.4759	2.4806	2.4751	2.4735	2.4743	2.4775	2.4790	2.4854	2.4838	2.4925	2.4893	2.4802
21/ 9/76	2.4861	2.4893	2.4917	2.4932	2.4917	2.4854	2.4901	2.4656	1.9615	1.8242	1.7476	1.7465	2.2644
22/ 9/76	1.7453	1.7476	1.7492	1.7516	1.7539	1.7500	1.7492	1.7571	1.7532	1.7539	1.8818	1.9930	1.7822
23/ 9/76	2.1043	2.1098	2.1074	1.9662	1.7650	1.7603	1.7547	1.7500	1.7563	1.7634	2.4538	2.4972	1.9824
24/ 9/76	2.5406	2.5390	2.5390	2.5453	2.5477	2.4680	2.2913	1.9188	1.4234	1.1062	0.0000	0.0000	1.8266
25/ 9/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26/ 9/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27/ 9/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.1427	1.5575	1.6798	.2817
28/ 9/76	1.7035	1.7042	1.7050	1.7003	1.6064	1.6167	2.1098	2.1887	2.1974	2.2068	2.2076	2.1997	1.9288
29/ 9/76	2.1911	2.1911	2.1911	2.1863	2.1918	2.1335	2.2802	2.4041	2.4143	2.4459	2.4459	2.3907	2.2888
30/ 9/76	2.4143	2.4120	2.4088	2.4009	2.4080	2.4112	2.4175	2.4128	2.4183	2.4246	0.0000	0.0000	2.0107

** PERIOD AVERAGE 1.7819

PERIOD 36
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE \ TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
14/10/76	0.0000	.4876	.9752	1.8218	2.2053	2.1824	1.8755	1.4581	1.4936	1.4967	1.5046	1.4849	1.4155
15/10/76	1.8873	1.9362	1.9299	1.8944	2.1477	2.3851	2.4538	2.4183	2.4349	2.4341	2.4372	2.4356	2.2329
16/10/76	2.4325	2.4222	2.4254	2.4104	2.4112	2.4057	2.4104	2.4120	2.4057	2.4285	2.4372	2.4435	2.4204
17/10/76	2.4593	2.4861	2.5059	2.5169	2.5272	2.5579	2.6021	2.6242	2.6463	2.6597	2.6692	2.6534	2.5757
18/10/76	2.6503	2.6558	2.6566	2.6487	2.6558	2.6471	2.6526	2.6487	2.6542	2.6645	2.6637	2.6495	2.6539
19/10/76	2.6503	2.6558	2.6566	2.6637	2.6297	2.6282	2.6282	2.6289	2.6416	2.6471	2.6439	2.6013	2.6396
20/10/76	2.6226	2.6250	2.6218	2.6179	2.6297	2.6092	2.6108	2.6021	2.6100	2.6195	2.6124	2.6037	2.6154
21/10/76	2.5927	2.5950	2.5958	2.5974	2.6305	2.6297	2.6195	2.6171	2.6250	2.6360	2.6353	2.6242	2.6165
22/10/76	2.6140	2.6116	2.6163	2.6147	2.6203	1.8810	1.7760	1.9039	2.6013	2.6289	2.6337	2.6309	2.4277
23/10/76	2.6313	2.6479	2.6810	2.6455	2.6510	2.6581	2.6637	2.6542	2.6534	2.6550	2.6664	2.6465	2.6545
24/10/76	2.6471	2.6416	2.6447	2.6660	2.6779	2.6763	2.6747	2.6755	2.6763	2.6629	2.6652	2.6779	2.6655
25/10/76	2.6392	2.6368	2.6637	2.6826	2.4475	2.4546	2.4538	2.3946	2.4120	2.5808	2.6550	2.6495	2.5558
26/10/76	2.6534	2.6637	2.6518	2.6503	2.4388	2.4301	2.6184	1.3760	1.5417	2.5824	2.6455	2.6447	2.4072
27/10/76	2.6495	2.6526	2.6542	2.5879	2.4136	2.4191	2.4238	2.4270	2.4388	2.6297	2.6463	2.6447	2.5489
28/10/76	2.6800	2.6780	2.6708	2.6692	2.4183	2.4617	2.4483	2.4980	2.4498	1.8975	2.3534	1.8901	2.4263
29/10/76	2.6424	2.6400	2.6416	2.6439	2.4997	2.4914	1.9467	2.0613	2.1146	2.3401	2.3760	2.6131	2.4176
30/10/76	2.6503	2.6605	2.6550	2.6424	2.6534	2.6171	2.4207	2.4767	2.4577	2.1611	1.7839	2.6360	2.4846
31/10/76	2.6439	2.6447	2.6439	2.6408	2.6424	2.6471	2.6495	2.6447	2.6526	2.6574	2.6621	2.6645	2.6495
1/11/76	2.6613	2.6660	2.6676	2.6747	2.6779	2.6471	2.6479	2.6447	2.6495	2.6558	2.6487	2.6416	2.6569
2/11/76	2.6353	2.6392	2.6392	2.6416	2.6353	2.6384	2.6416	2.6503	2.6487	2.6605	2.6550	2.6447	2.6441
3/11/76	2.6408	2.6424	2.6424	2.6424	2.6424	2.6400	2.6416	2.6368	2.6416	2.6471	2.6408	2.6353	2.6411
4/11/76	2.6266	2.6266	2.6218	2.6242	2.6289	2.6274	2.6321	2.6345	2.6463	2.6574	2.6542	2.6424	2.6352
5/11/76	2.6463	2.6439	2.6368	2.6392	2.6376	2.6313	2.6313	2.6282	2.6637	2.7063	2.7031	2.6992	2.6556
6/11/76	2.7039	2.7039	2.6992	2.7023	2.7134	2.7157	2.7189	2.7181	2.7228	2.7307	2.7260	2.7165	2.7143
7/11/76	2.7157	2.7157	2.7134	2.7094	2.7126	2.7157	2.7142	2.7102	2.7173	2.7228	2.7189	2.7078	2.7145
8/11/76	2.7023	2.7086	2.7055	2.7047	2.7071	2.7063	2.7102	2.7118	2.7134	.8663	0.0000	0.0000	2.1030

** PERIOD AVERAGE 2.5066

PERIOD 37
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE / TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
20/11/76	0.0000	1.0517	1.5993	2.0949	2.3473	2.5027	2.5650	2.5682	2.5800	2.5808	2.5856	2.5903	2.0888
21/11/76	2.5927	2.5990	2.5982	2.5903	2.5911	2.6195	2.6266	2.6321	2.6368	2.6384	2.6353	2.6297	2.6158
22/11/76	2.6329	2.6321	2.6274	2.6274	2.6274	2.6282	2.6337	2.6408	2.6392	2.6495	2.6716	1.7000	2.4175
											** PERIOD AVERAGE		2.3740

PERIOD 38
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE \ TIME	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
30/11/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5764	2.4861	2.6637	2.7441	2.7000	2.6952	1.2388
1/12/76	2.6984	2.7063	2.7000	2.7055	2.7063	2.7165	2.7844	2.7923	2.8128	2.8428	2.8443	2.8341	2.7620
2/12/76	2.8309	2.8286	2.8057	2.7923	2.7867	2.7954	2.8025	2.7986	2.8041	2.8136	2.8144	2.8081	2.8067
3/12/76	2.8073	2.8096	2.8025	2.8057	2.7552	2.6566	2.6629	2.6652	2.6739	2.6755	2.6723	2.6739	2.7217
4/12/76	2.6739	2.6747	2.6731	2.6652	2.6755	2.6676	2.6660	2.6629	2.6652	2.6716	2.6755	2.6739	2.6704
5/12/76	2.6668	2.6716	2.6676	2.6629	2.6708	2.6692	2.6716	2.6723	2.6708	2.6747	2.6542	2.6479	2.6667
6/12/76	2.6439	2.6455	2.6424	2.6518	2.6708	2.6716	2.6731	2.6826	2.6802	2.6968	2.6850	2.6818	2.6688
7/12/76	2.6779	2.6802	2.6763	2.6763	2.6731	2.6660	2.6637	2.6566	2.6660	2.6700	2.6692	2.6621	2.6698
8/12/76	2.6613	2.6668	2.6613	2.6613	2.6621	2.6605	2.6558	2.6605	2.6684	2.6755	2.6747	2.6684	2.6647
9/12/76	2.6716	2.6826	2.6605	2.6700	2.6652	2.6629	2.6542	2.6479	2.6542	.6848	0.0000	0.0000	2.0545
10/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16/12/76	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17/12/76	0.0000	0.0000	0.0000	1.2064	2.5903	2.5919	2.5848	2.5848	2.6132	2.6503	2.6495	2.6550	1.8438
18/12/76	2.6589	2.6645	2.6692	2.6676	2.6668	2.6692	2.6723	2.6668	2.6558	2.6574	2.6645	2.6629	2.6647
19/12/76	2.6629	2.6637	2.6589	2.6534	2.6597	2.6692	2.6708	2.6676	2.6652	2.6676	2.6708	2.6684	2.6648
20/12/76	2.6668	2.6684	2.6637	2.6581	2.6613	2.6503	2.6503	2.6432	2.6731	2.6810	2.6787	2.6708	2.6638
21/12/76	2.6708	2.6763	2.6708	2.6652	2.6652	2.6660	2.6629	2.6432	2.6660	2.6723	2.6787	2.6684	2.6671
22/12/76	2.6629	2.6574	2.6495	2.6353	2.6581	2.6574	2.6605	2.6581	2.6574	2.6629	2.6645	2.6589	2.6569
23/12/76	2.6605	2.6668	2.6589	2.6447	2.6574	2.6613	2.6629	2.6676	2.6716	2.6763	2.6802	2.6826	2.6659
24/12/76	2.6826	2.6850	2.6834	2.6802	2.6787	2.6668	2.6668	2.6692	2.6755	2.6834	2.6700	2.6676	2.6758
25/12/76	2.6731	2.6763	2.6716	2.6723	2.6779	2.6771	2.6716	2.6637	2.6637	2.6668	2.6652	2.6676	2.6706
26/12/76	2.6787	2.6944	2.6873	2.6802	2.6818	2.6850	2.6826	2.6779	2.6755	2.6802	2.6794	2.6826	2.6821
27/12/76	2.6858	2.6944	2.6873	2.6826	2.6794	2.6850	2.6779	2.6692	2.6755	2.6763	2.6747	2.6779	2.6805
28/12/76	2.6810	2.6952	2.6842	2.6787	2.6779	2.6787	2.6834	2.6794	2.6873	2.6968	2.6929	2.6897	2.6854
29/12/76	2.6921	2.6992	2.6960	2.6960	2.6842	2.6865	2.6779	2.6779	2.6794	2.6834	2.6818	2.6747	2.6858
30/12/76	2.6723	2.6731	2.6684	2.6652	2.6597	2.6566	2.6566	2.6526	2.6597	2.6660	2.6621	2.6574	2.6625
31/12/76	2.6597	2.6621	2.6629	2.6574	2.6581	2.6550	2.6487	2.6518	2.6581	2.6637	2.6574	2.6597	2.6579
1/ 1/77	2.6621	2.6731	2.6660	2.6605	2.6597	2.6637	2.6645	2.6652	2.6692	2.6755	2.6779	2.6716	2.6674
2/ 1/77	2.6794	2.6889	2.6802	2.6731	2.6779	2.6747	2.6700	2.6692	2.6676	2.6723	2.6718	2.6696	2.6746
3/ 1/77	2.6700	2.6763	2.6645	2.6660	2.6676	2.6700	2.6716	2.6731	2.6747	2.6708	2.6668	2.6629	2.6695
4/ 1/77	2.6589	2.6763	2.6645	2.6731	2.6779	2.6747	2.6700	2.6692	2.6747	2.6708	2.6637	2.6589	2.6694
5/ 1/77	2.6558	2.6503	2.6645	2.6708	2.6652	2.6558	2.6700	2.6613	2.6645	2.6716	2.6700	2.6613	2.6634
6/ 1/77	2.6621	2.6716	2.6652	2.6660	2.6755	2.6747	2.6794	2.6755	2.6850	2.6842	2.6826	2.6850	2.6756
7/ 1/77	2.6618	2.6834	2.6763	2.6755	2.6566	2.6550	2.6526	2.6463	2.6510	2.6581	2.6605	2.6611	2.6615
8/ 1/77	2.6629	2.6652	2.6629	2.6621	2.6629	2.6652	2.6645	2.6597	2.6613	2.6668	2.6652	2.6589	2.6631
9/ 1/77	2.6597	2.6629	2.6558	2.6510	2.6471	2.6503	2.6542	2.6542	2.6597	2.6763	2.6723	2.6676	2.6593
10/ 1/77	2.6652	2.6684	2.6637	2.6700	2.6652	2.6708	2.6542	2.6676	2.6739	2.6810	2.6787	2.6739	2.6694
11/ 1/77	2.6723	2.6826	2.6755	2.6676	2.6684	2.6708	2.6723	2.6716	2.6739	2.6850	2.6850	2.6802	2.6754
12/ 1/77	2.6763	2.6858	2.6755	2.6676	2.6779	2.6802	2.6850	2.6794	2.6818	2.6850	2.6834	2.6826	2.6800
13/ 1/77	2.6942	2.6897	2.6826	2.6708	2.6881	2.6873	2.6723	2.6889	2.6968	2.6992	2.6905	2.6897	2.6867
14/ 1/77	2.6944	2.6976	2.6897	2.6936	2.6960	2.6842	2.6873	2.7094	2.6984	2.7015	2.7023	2.7015	2.6963
15/ 1/77	2.7055	2.7078	2.7000	2.6944	2.7039	2.7063	2.7094	2.7110	2.7078	2.7149	2.7157	2.7126	2.7075
16/ 1/77	2.7142	2.7102	2.7118	2.7094	2.7134	2.7134	2.7086	2.7047	2.7055	2.7165	2.7228	2.7173	2.7123
17/ 1/77	2.7240	2.7252	2.7189	2.7276	2.7197	2.7118	2.7039	2.6960	2.6881	2.6810	2.6921	2.7031	2.7076
18/ 1/77	2.7142	2.7252	2.7189	2.7276	2.7134	2.7134	2.7094	2.7047	2.6936	2.6826	2.6810	2.6779	2.7052
19/ 1/77	2.6850	2.6929	2.6865	2.6881	2.6865	2.6865	2.6858	2.5698	2.6771	2.6850	2.6865	2.6771	2.6756
20/ 1/77	2.6771	2.6794	2.6739	2.6716	2.6716	2.6660	2.6700	2.6771	2.6771	2.6739	2.6708	2.6668	2.6729

PERIOD 38
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
21/ 1/77	2.6723	2.6723	2.6660	2.6692	2.6716	2.6684	2.6700	2.6723	2.6810	2.6865	2.6881	2.6810	2.6749
22/ 1/77	2.6905	2.6960	2.6921	2.6889	2.6905	2.6794	2.6763	2.6716	2.6779	2.6826	2.6763	2.6723	2.6829
23/ 1/77	2.6787	2.6865	2.6802	2.6802	2.6794	2.6826	2.6771	2.6723	2.6826	2.6905	2.6873	2.6826	2.6817
24/ 1/77	2.6794	2.6873	2.6810	2.6826	2.6755	2.6747	2.6794	2.6794	2.6779	2.6826	2.6810	2.6779	2.6799
25/ 1/77	2.6731	2.6779	2.6771	2.6779	2.6692	2.6629	2.6566	2.6581	2.6652	2.6747	2.6771	2.6731	2.6702
26/ 1/77	2.6755	2.6834	2.6842	2.6834	2.6850	2.6652	2.7078	2.7370	2.6787	2.6842	2.6739	2.6787	2.6864
27/ 1/77	2.6763	2.6842	2.6794	2.6779	2.6652	2.6629	2.6652	2.6652	2.6652	2.6660	2.6700	2.6723	2.6708
28/ 1/77	2.6716	2.6794	2.6779	2.6810	2.6723	2.6708	2.6676	2.6858	2.6897	2.6929	2.6984	2.7000	2.6823
29/ 1/77	2.7015	2.7047	2.6976	2.6952	2.7000	2.7000	2.6984	2.6976	2.6984	2.7094	2.7157	2.7126	2.7026
30/ 1/77	2.7126	2.7039	2.7000	2.6984	2.6921	2.6960	2.7031	2.7031	2.6960	2.7007	2.6976	2.6960	2.7000
31/ 1/77	2.6802	2.6858	2.6810	2.6810	2.6802	2.6787	2.5729	2.6771	2.6566	2.6842	2.6621	2.6794	2.6683
1/ 2/77	2.6826	2.6858	2.6826	2.6818	2.6763	2.6771	2.6779	2.6802	2.6881	2.6992	2.7086	2.7007	2.6867
2/ 2/77	2.6960	2.6968	2.6889	2.6865	2.6842	2.6842	2.6810	2.6842	2.6850	2.6889	2.6818	2.6771	2.6862
3/ 2/77	2.6739	2.6716	2.6676	2.6668	2.6605	2.6597	2.6613	2.6700	2.6723	2.6944	2.6936	2.6897	2.6735
4/ 2/77	2.6921	2.6968	2.6936	2.6929	2.6802	2.6755	2.6747	2.6787	2.6794	2.6818	2.6692	2.6652	2.6817
5/ 2/77	2.6589	2.6652	2.6692	2.6637	2.6629	2.6605	2.6621	2.6676	2.6684	2.6794	2.6747	2.6684	2.6668
6/ 2/77	2.6700	2.6716	2.6731	2.6660	2.6605	2.6660	2.6676	2.6676	2.6652	2.6668	2.6652	2.6503	2.6658
7/ 2/77	2.6487	2.6526	2.6534	2.6581	2.6613	2.6574	2.6566	2.6542	2.6652	2.6660	2.6637	2.6597	2.6581
8/ 2/77	2.6581	2.6645	2.6589	2.6613	2.6518	2.6613	2.6676	2.6660	2.6660	2.6676	2.6605	2.6597	2.6620
9/ 2/77	2.6574	2.6652	2.6550	2.6518	2.6400	2.6550	2.6700	2.6692	2.6684	2.6605	2.6716	2.6660	2.6608
10/ 2/77	2.6668	2.6755	2.6723	2.6692	2.6708	2.6708	2.6723	2.6716	2.6763	2.6771	2.6771	2.6660	2.6721
11/ 2/77	2.6771	2.6873	2.6834	2.6834	2.6723	2.6645	2.6605	2.6629	2.6723	2.6802	2.6810	2.6779	2.6752
12/ 2/77	2.6802	2.6802	2.6802	2.6787	2.6850	2.6794	2.6771	2.6747	2.6739	2.6779	2.6814	2.6850	2.6795
13/ 2/77	2.6889	2.6913	2.6802	2.6787	2.6779	2.6818	2.6818	2.6763	2.6723	2.6787	2.6716	2.6708	2.6792
14/ 2/77	2.6668	2.6802	2.6787	2.6755	2.6755	2.6771	2.6810	2.6755	2.6771	2.6810	2.6865	2.6842	2.6783
15/ 2/77	2.6834	2.6913	2.6858	2.6818	2.6794	2.6716	2.6747	2.6684	2.6716	2.6779	2.6810	2.6700	2.6781
16/ 2/77	2.6747	2.6787	2.6802	2.6810	2.6834	2.6818	2.6755	2.6723	2.6723	2.6723	2.6723	2.6723	2.6764
17/ 2/77	2.6723	2.6739	2.6755	2.6692	2.6574	2.6550	2.6566	2.6510	2.6534	2.6637	2.6637	2.6566	2.6623
18/ 2/77	2.6613	2.6668	2.6660	2.6652	2.6731	2.6668	2.6700	2.6676	2.6771	2.6794	2.6850	2.6818	2.6717
19/ 2/77	2.6818	2.6842	2.6787	2.6723	2.6739	2.6842	2.6810	2.6747	2.6794	2.6929	2.6944	2.6802	2.6815
20/ 2/77	2.6723	2.6684	2.6645	2.6558	2.6597	2.6700	2.6739	2.6708	2.6700	2.6858	2.6850	2.6747	2.6709
21/ 2/77	2.6723	2.6755	2.6747	2.6755	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.8915
22/ 2/77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23/ 2/77	0.0000	0.0000	0.0000	0.0000	.4837	2.2321	2.6637	2.6692	2.6739	2.7142	2.7165	2.7142	1.5723
24/ 2/77	2.7213	2.7197	2.6976	2.6968	2.6613	2.6534	2.6574	2.6629	2.6692	2.6763	2.6716	2.6708	2.6798
25/ 2/77	2.6660	2.6716	2.6463	2.6581	2.6668	2.6621	2.6566	2.6629	2.6755	2.6968	2.6921	2.6834	2.6698
26/ 2/77	2.6850	2.6763	2.6850	2.6850	2.6858	2.6944	2.6802	2.6731	2.6723	2.6952	2.6921	2.6881	2.6844
27/ 2/77	2.6929	2.6921	2.6850	2.6810	2.6834	2.6897	2.6858	2.6802	2.6716	2.6881	2.6873	2.6873	2.6854
28/ 2/77	2.6881	2.6873	2.6858	2.6802	2.6708	2.6597	2.6668	2.6550	2.6645	2.6763	2.6708	2.6873	2.6744
1/ 3/77	2.6662	2.6651	2.6640	2.6629	2.6618	2.6607	2.6596	2.6614	2.6663	2.6753	2.6743	2.6676	2.6654
2/ 3/77	2.6610	2.6702	2.6709	2.6613	2.6510	2.6386	2.6596	2.6336	2.6372	2.6512	2.6508	2.6422	2.6523
3/ 3/77	2.6453	2.6491	2.6441	2.6468	2.6409	2.6419	2.6485	2.6484	2.6592	2.6571	2.6548	2.6522	2.6490
4/ 3/77	2.6544	2.6588	2.6554	2.6531	2.6540	2.6588	2.6491	2.6528	2.6644	2.6746	2.6794	2.6811	2.6613
5/ 3/77	2.6848	2.6813	2.6761	2.3223	.2313	0.0000	1.4607	2.3927	2.3282	1.9869	.9804	0.0000	1.6454
6/ 3/77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7/ 3/77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8/ 3/77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9/ 3/77	0.0000	0.0000	0.0000	0.0000	.3204	2.2593	2.5509	2.5951	2.6038	2.6236	2.6299	2.6245	1.5173
10/ 3/77	0.0000	2.6438	2.6297	2.7230	2.7046	2.6484	2.6952	2.6622	2.6472	2.6526	2.6614	2.6544	2.4435
11/ 3/77	2.6552	2.6580	2.6495	2.6539	2.6494	2.6456	2.6521	2.6513	2.6532	2.6589	2.6605	2.6567	2.6537
12/ 3/77	2.6573	2.6625	2.6679	2.6701	2.6716	2.6675	2.6660	2.6645	2.6646	2.6720	2.6676	2.6580	2.6658
13/ 3/77	2.6641	2.6615	2.6513	2.6479	2.6503	2.6523	2.6521	2.6556	2.6506	2.6574	2.6580	2.6529	2.6545

PERIOD 38
ASSEMBLY POWER

ASSEMBLY POWER (MW)

DATE	TIME 2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00	AVERAGE
14/ 3/77	2.6518	2.6564	2.6619	2.6606	2.6905	2.6877	2.6790	2.6805	2.6946	2.7338	2.7310	2.7220	2.6875
15/ 3/77	2.7213	2.7217	2.7127	2.7333	2.6622	2.6739	2.6757	2.6793	2.6866	2.6870	2.6852	2.6832	2.6935
16/ 3/77	2.6851	2.6854	2.6824	2.6803	2.6870	2.6835	2.6810	2.7016	2.6979	2.7005	2.6992	2.6977	2.6901
17/ 3/77	2.6963	2.7018	2.7007	2.6933	2.6864	2.6840	2.6856	2.6865	2.6872	2.6989	2.7025	2.6959	2.6933
18/ 3/77	2.6926	2.6950	2.6891	2.6830	2.6850	2.6814	2.6799	2.6739	2.6824	2.6860	2.6906	2.6884	2.6856
19/ 3/77	2.6880	2.6918	2.6873	2.6842	2.6876	2.6896	2.6886	2.6881	2.6874	2.6910	2.6942	2.6889	2.6889
20/ 3/77	2.6929	2.6930	2.6876	2.6813	2.6837	2.6888	2.6890	2.6919	2.6872	2.6916	2.7000	2.6976	2.6904
21/ 3/77	2.6864	2.6907	2.6918	2.6828	2.6912	1.3638	0.0000	0.0000	0.0000	0.0000	0.0000	1.2571	1.3387
22/ 3/77	2.6680	2.6761	2.6704	2.6683	2.6610	2.6559	2.6583	2.6559	2.6634	2.6670	2.6697	2.6772	2.6659
23/ 3/77	2.6899	2.6965	2.6915	2.6857	2.6771	2.6633	2.6597	2.6495	2.6609	2.6692	2.6724	2.6721	2.6740
24/ 3/77	2.6642	2.6690	2.6680	2.6646	2.6656	2.6577	2.6637	2.6612	2.6690	2.6746	2.6795	2.6724	2.6675
25/ 3/77	2.6552	2.6832	2.6840	2.6781	2.6755	2.6709	2.6691	2.6604	2.6676	2.6745	2.6849	2.6832	2.6739
26/ 3/77	2.6747	2.6873	2.6881	2.6810	2.6992	2.6779	2.6842	2.6802	2.6810	2.6802	2.6834	2.6826	2.6833
27/ 3/77	2.6771	2.6802	2.6755	2.6708	2.6716	2.6794	2.6802	2.6842	2.6865	2.6913	2.6992	2.6952	2.6826
28/ 3/77	2.6865	2.6944	2.6929	2.6842	2.6787	2.6739	2.6755	2.6700	2.6771	2.6779	2.6810	2.6834	2.6813
29/ 3/77	2.6771	2.6834	2.6858	2.6810	2.6826	2.6826	2.6889	2.6881	2.6810	2.6834	2.6881	2.6850	2.6839
30/ 3/77	2.6818	2.6881	2.6921	2.6826	2.6826	2.6668	2.6668	2.6747	2.6794	2.6810	2.6850	2.6865	2.6806
31/ 3/77	2.6802	2.6889	2.6921	2.6810	2.6731	2.6739	2.6716	2.6637	2.6629	2.6637	2.6668	2.6589	2.6731
1/ 4/77	2.6627	2.6727	2.6753	2.6625	2.6607	2.6599	.7353	0.0000	0.0000	0.0000	0.0000	0.0000	1.3941
2/ 4/77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3/ 4/77	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.0683	2.2419	2.6444	2.6574	.6343
4/ 4/77	2.6723	2.6866	2.6824	2.6857	2.6821	2.6753	2.6731	2.6891	2.6791	2.6772	2.6814	2.6811	2.6805
5/ 4/77	2.6733	2.6804	2.6839	2.6830	2.6781	2.6699	2.6668	2.6607	2.6626	2.6660	2.6686	2.6700	2.6719
6/ 4/77	2.6716	2.6774	2.6734	2.6622	2.6622	2.6566	2.6676	2.6476	2.6441	2.6461	2.6588	2.6537	2.6601
7/ 4/77	2.6422	2.6461	2.6454	2.6472	2.6556	2.6669	2.6703	2.6681	2.6723	2.6734	2.6798	2.6767	2.6620
8/ 4/77	2.6697	2.6785	2.6730	2.6708	2.6707	2.6663	2.6676	2.6652	2.6624	2.6654	2.6691	2.6666	2.6688
9/ 4/77	2.6611	2.6633	2.6632	2.6572	2.6631	2.6521	2.6587	2.6652	2.6635	2.6630	2.6679	2.6641	2.6619
10/ 4/77	2.6656	2.6739	2.6726	2.6666	2.6656	2.6712	2.6822	2.6753	2.6675	2.6672	2.6724	2.6738	2.6712
11/ 4/77	2.6617	2.6746	2.5519	2.6609	2.6646	2.6628	2.6633	2.6590	2.6583	2.6622	2.6744	2.6725	2.6555
12/ 4/77	2.6685	2.6746	2.6697	2.6589	2.6514	2.6511	2.6499	2.6482	2.6525	2.6562	2.6657	2.6615	2.6590
13/ 4/77	2.6580	2.6644	2.6600	2.6549	2.6533	2.6495	2.6488	2.4745	2.4719	2.6562	2.6610	2.6611	2.6261
14/ 4/77	2.6583	2.6669	2.6660	2.6627	2.1690	1.4510	1.8770	2.2643	2.5347	2.6731	2.6812	2.6873	2.4160
15/ 4/77	2.6829	2.6937	2.6895	2.6857	2.3905	2.2442	2.2737	2.2444	2.4504	2.6795	2.6823	2.6865	2.5336
16/ 4/77	2.6831	2.6903	2.6910	2.6894	2.6873	2.6843	2.6847	2.6790	2.6774	2.6801	2.6843	2.6858	2.6847
17/ 4/77	2.6820	2.6900	2.6853	2.6809	2.6838	2.6818	2.6808	2.6775	2.6829	2.6791	2.6858	2.6820	2.6827
18/ 4/77	2.6764	2.6904	2.6904	2.6809	2.2879	1.9788	1.6791	1.4383	1.3763	2.1130	2.6518	2.6696	2.2444
19/ 4/77	2.6642	2.6767	2.6733	2.5968	2.3192	2.3264	2.3074	2.3099	1.9382	1.8586	2.4637	2.6723	2.4006
20/ 4/77	2.6784	2.6861	2.6929	2.1666	1.4129	1.4075	2.0976	1.9991	2.3058	2.6622	2.6345	2.6607	2.2837
21/ 4/77	2.6567	2.6678	2.6668	2.6319	1.4129	2.5690	2.2766	2.2648	2.5800	2.5702	2.6256	2.6675	2.4658
22/ 4/77	2.6607	2.6713	2.6765	2.5885	2.3959	2.4446	2.5033	2.5035	2.6456	2.7001	2.7097	2.7221	2.6018
23/ 4/77	2.7224	2.7428	2.7477	2.7369	2.7395	2.7411	2.7501	2.7465	2.7486	2.7419	2.7556	2.7576	2.7442
24/ 4/77	2.7454	2.7568	2.7568	2.7465	2.7474	2.7443	2.7422	2.7375	2.7342	2.7375	2.7341	2.7283	2.7426
25/ 4/77	2.7232	2.7235	2.7272	2.6286	2.3052	2.4343	2.6155	2.7022	2.7017	2.7109	2.7156	2.7116	2.6416
26/ 4/77	2.4464	2.4576	2.4547	2.6286	2.4543	2.4345	2.4600	2.4610	2.7133	2.7328	2.7335	2.7304	2.5586
27/ 4/77	2.4567	2.4528	2.4494	2.4455	2.5413	2.6864	2.7117	2.7041	2.7140	2.7219	2.7262	2.7267	2.6114
28/ 4/77	2.7239	2.7338	2.7362	2.7303	2.4100	2.7437	2.6754	2.7348	2.6939	2.7187	2.7640	2.6713	2.6947
29/ 4/77	2.7331	2.6630	2.6888	2.7535	2.7748	2.7746	1.4491	0.0000	0.0000	0.0000	0.0000	0.0000	1.4864

** PERIOD AVERAGE 2.3586

*** TOTAL AVERAGE 2.4236

ASSEMBLY MEAN

		POWER (KW)	LINEAR RATINGS (W/CM)	BURNUP (MWD/T)	TIME (DAY)
PERIOD 33					
STEP	1	2.68	272.77	81.53	5.00
STEP	2	2.89	294.45	169.54	5.00
STEP	3	2.89	293.75	257.34	5.00
STEP	4	2.38	242.60	298.42	5.00
STEP	5	2.87	291.61	385.58	5.00
STEP	6	2.89	293.80	473.40	5.00
STEP	7	2.68	273.11	555.02	5.00
STEP	8	2.85	290.35	641.80	5.00
STEP	9	2.84	288.51	728.04	5.00
STEP	10	2.83	287.63	814.01	5.00
STEP	11	2.83	288.13	900.13	5.00
STEP	12	2.70	274.41	982.15	5.00
STEP	13	2.84	288.72	1068.44	5.00
STEP	14	2.83	288.31	1154.61	5.00
STEP	15	2.83	288.11	1240.72	5.00
STEP	16	2.82	286.71	1326.41	5.00
STEP	17	2.83	287.90	1412.46	5.00
STEP	18	2.76	280.99	1495.05	5.00
STEP	19	2.68	273.06	1576.66	6.00
STEP	20	2.83	287.63	1662.63	5.00
STEP	21	2.78	282.54	1711.89	3.00
PERIOD 34					
STEP	1	2.63	267.19	1791.75	5.08
STEP	2	2.82	286.52	1877.39	5.00
STEP	3	2.84	289.33	1963.86	5.00
STEP	4	2.83	287.75	2049.87	5.00
STEP	5	2.83	288.01	2135.95	5.00
STEP	6	2.50	254.02	2185.30	5.00
STEP	7	2.29	233.04	2254.95	5.00
STEP	8	2.84	288.93	2341.31	5.00
STEP	9	2.83	287.91	2427.36	5.00
STEP	10	2.82	286.69	2513.05	5.00
STEP	11	2.83	287.75	2616.25	6.00
STEP	12	2.82	286.89	2717.72	6.00
STEP	13	2.67	271.47	2798.86	6.92
STEP	14	2.80	284.78	2901.00	6.00
STEP	15	2.79	283.36	3002.63	6.00
STEP	16	2.78	283.20	3087.28	5.00
STEP	17	2.70	274.68	3147.48	4.00
PERIOD 35					
STEP	1	1.82	184.98	3197.24	5.67
STEP	2	2.08	211.98	3260.60	5.00
STEP	3	1.74	177.47	3304.80	5.00
STEP	4	1.77	179.78	3337.94	5.33
PERIOD 36					
STEP	1	1.93	196.16	3396.57	5.08
STEP	2	2.17	220.58	3462.50	5.00
STEP	3	2.11	214.63	3526.65	5.00
STEP	4	2.15	218.87	3592.06	5.00
STEP	5	2.22	225.73	3669.65	5.92
PERIOD 37					
STEP	1	2.21	224.43	3707.66	3.00

ASSEMBLY MEAN

		POWER (KW)	LINEAR RATINGS (W/CM)	BURNUP (MWD/T)	TIME (DAY)
PERIOD 38					
STEP	1	2.38	241.99	3779.99	5.00
STEP	2	2.31	234.63	3840.76	5.00
STEP	3	2.31	234.72	3910.91	11.75
STEP	4	2.34	237.71	3981.96	5.00
STEP	5	2.34	237.56	4052.97	5.00
STEP	6	2.33	237.18	4123.85	5.00
STEP	7	2.33	237.09	4208.88	6.00
STEP	8	2.36	239.84	4280.56	5.00
STEP	9	2.35	238.68	4351.90	5.00
STEP	10	2.34	238.13	4423.07	5.00
STEP	11	2.35	238.60	4494.38	5.00
STEP	12	2.34	238.01	4565.52	5.00
STEP	13	2.33	236.77	4636.28	5.00
STEP	14	2.34	237.93	4721.62	6.00
STEP	15	2.33	237.43	4779.57	5.00
STEP	16	2.33	234.38	4849.62	6.08
STEP	17	2.32	235.79	4920.09	5.00
STEP	18	1.83	185.84	4935.82	5.00
STEP	19	2.33	236.84	5006.61	5.00
STEP	20	2.34	238.26	5077.82	5.00
STEP	21	2.29	232.47	5141.52	5.00
STEP	22	2.33	237.26	5212.43	5.00
STEP	23	2.25	229.01	5279.73	7.00
STEP	24	2.32	235.50	5350.12	5.00
STEP	25	2.24	228.34	5418.37	5.00
STEP	26	2.14	217.34	5483.32	5.00
STEP	27	2.29	232.51	5552.82	5.00
STEP	28	2.28	231.86	5597.86	3.67

PERIOD 33
POD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 1														
PIN 2	57.40	163.55	70.89	144.12	187.29	206.91	212.13	211.16	200.84	179.28	141.24	81.60	212.13	63.40
PIN 4	56.93	162.19	70.31	142.91	185.74	205.19	210.36	209.41	199.17	177.79	140.07	80.93	210.36	62.88
PIN 10	69.07	196.78	84.13	171.06	222.86	247.60	255.64	255.24	243.25	217.45	171.48	99.13	255.64	76.41
PIN 22	122.19	348.12	151.83	308.45	400.78	442.80	454.11	449.51	425.52	378.66	297.68	171.83	454.10	135.73
PIN 23	122.43	348.80	152.13	309.06	401.57	443.67	455.00	450.40	426.36	379.40	298.25	172.17	454.99	135.99
*STEP 2														
PIN 2	62.09	176.88	76.73	155.83	202.31	223.42	229.11	228.19	217.25	194.18	153.18	88.61	229.10	131.88
PIN 4	61.57	175.41	76.10	154.52	200.64	221.57	227.21	226.30	215.45	192.56	151.91	87.87	227.19	130.78
PIN 10	74.69	212.79	91.05	184.97	240.72	267.32	276.04	275.75	263.05	235.45	185.94	107.63	276.02	158.91
PIN 22	131.81	375.52	164.16	332.83	431.78	476.71	488.92	484.30	458.96	409.04	322.17	186.35	488.91	281.86
PIN 23	132.07	376.26	164.47	333.48	432.61	477.65	489.87	485.26	459.86	409.85	322.81	186.72	489.87	282.41
*STEP 3														
PIN 2	62.06	176.82	76.75	155.72	202.00	222.97	228.68	227.92	217.22	194.40	153.58	88.94	228.68	200.23
PIN 4	61.55	175.35	76.11	154.44	200.31	221.12	226.79	226.02	215.41	192.78	152.30	88.21	226.78	198.57
PIN 10	74.64	212.66	91.07	184.85	240.30	266.72	275.43	275.33	262.92	235.64	186.35	108.02	275.43	241.24
PIN 22	131.40	374.35	164.02	331.89	429.84	474.23	486.43	482.18	457.49	408.37	322.27	186.81	486.42	427.25
PIN 23	131.66	375.09	164.34	332.53	430.69	475.17	487.38	483.13	458.39	409.18	322.91	187.17	487.38	428.09
*STEP 4														
PIN 2	51.33	146.23	63.52	128.78	166.90	184.18	188.93	188.38	179.66	160.94	127.29	73.77	188.92	232.23
PIN 4	50.90	145.02	62.98	127.69	165.51	182.64	187.36	186.81	178.17	159.61	126.22	73.17	187.35	230.30
PIN 10	61.72	175.85	75.36	152.85	198.55	220.28	227.51	227.52	217.42	195.04	154.42	89.58	227.52	279.77
PIN 22	108.45	308.98	135.60	273.98	354.42	390.83	400.90	397.62	377.58	337.43	266.67	154.82	400.90	495.15
PIN 23	108.66	309.59	135.87	274.51	355.11	391.60	401.68	398.39	378.31	338.08	267.19	155.12	401.68	496.12
*STEP 5														
PIN 2	61.79	176.04	76.50	154.99	200.74	221.45	227.19	226.64	216.31	193.97	153.55	89.08	227.19	300.13
PIN 4	61.28	174.58	75.86	153.70	199.07	219.61	225.30	224.75	214.53	192.34	152.28	88.34	225.30	297.63
PIN 10	74.29	211.66	90.75	183.96	238.78	264.81	273.53	273.66	261.70	235.00	186.25	108.15	273.66	361.57
PIN 22	130.30	371.22	163.20	329.23	425.39	468.83	480.94	477.26	453.59	405.81	321.19	186.76	480.94	638.90
PIN 23	130.55	371.95	163.52	329.88	426.22	469.75	481.90	478.20	454.48	406.62	321.82	187.12	481.88	640.15
*STEP 6														
PIN 2	62.38	177.71	77.27	156.43	202.38	223.17	229.01	228.59	218.41	196.09	155.46	90.28	229.01	300.58
PIN 4	61.86	176.23	76.63	155.12	200.71	221.32	227.10	226.69	216.60	194.45	154.15	89.55	227.10	365.51
PIN 10	74.98	213.62	91.69	185.65	240.72	266.83	275.63	275.93	264.16	237.49	188.51	109.60	275.94	444.04
PIN 22	131.18	373.72	164.67	331.54	427.66	470.99	483.22	479.85	456.58	409.14	324.46	189.06	483.20	783.32
PIN 23	131.43	374.45	164.99	332.19	428.52	471.91	484.15	480.79	457.49	409.95	325.10	189.43	484.15	784.86
*STEP 7														
PIN 2	58.10	165.52	72.02	145.65	188.28	207.53	212.99	212.74	203.47	182.89	145.19	84.43	212.99	432.24
PIN 4	57.61	164.14	71.41	144.43	186.71	205.79	211.21	210.96	201.76	181.37	143.98	83.73	211.22	428.64
PIN 10	69.82	198.92	85.45	172.85	223.91	248.07	256.28	256.71	245.99	221.43	176.02	102.46	256.71	520.77
PIN 22	121.85	347.15	153.32	308.05	396.71	436.61	447.97	445.18	424.08	380.60	302.40	176.55	447.97	917.22
PIN 23	122.09	347.83	153.62	308.66	397.48	437.46	448.86	446.05	424.90	381.34	303.00	176.90	448.84	919.01

PERIOD 33
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 8														
PIN 2	61.88	176.30	76.77	155.11	200.31	224.70	226.55	226.42	216.77	195.09	155.07	90.27	226.55	499.96
PIN 4	61.37	174.83	76.11	153.82	198.63	218.86	224.66	224.53	214.96	193.46	153.78	89.51	224.66	495.79
PIN 10	74.35	211.84	91.07	184.08	238.18	263.76	272.52	273.14	261.98	236.14	187.96	109.54	273.14	602.41
PIN 22	129.45	368.79	163.24	327.34	420.89	462.87	474.97	472.34	450.46	404.91	322.34	188.56	474.96	1059.18
PIN 23	129.70	369.52	163.55	327.99	421.71	463.78	475.91	473.26	451.35	405.70	322.96	188.95	475.89	1061.25
*STEP 9														
PIN 2	61.61	175.54	76.48	154.40	199.19	219.38	225.25	225.23	215.86	194.52	154.84	90.23	225.24	567.28
PIN 4	61.10	174.07	75.85	153.12	197.51	217.54	223.36	223.36	214.06	192.90	153.55	89.48	223.36	562.56
PIN 10	74.02	210.87	90.73	183.21	236.82	262.13	270.87	271.65	260.81	235.37	187.63	109.49	271.64	683.60
PIN 22	128.53	366.18	162.45	325.12	417.32	458.63	470.65	468.40	447.23	402.64	321.15	188.26	470.64	1199.85
PIN 23	128.78	366.90	162.77	325.77	418.14	459.53	471.57	469.32	448.10	403.42	321.79	188.63	471.57	1202.20
*STEP 10														
PIN 2	61.54	175.33	76.43	154.19	198.72	218.76	224.66	224.80	215.65	194.57	155.09	90.48	224.80	634.47
PIN 4	61.03	173.87	75.80	152.90	197.06	216.93	222.79	222.92	213.86	192.95	153.80	89.73	222.92	629.19
PIN 10	73.92	210.59	90.68	182.96	236.26	261.35	270.10	271.03	260.48	235.37	187.89	109.77	271.03	764.61
PIN 22	128.04	364.78	162.20	323.96	415.15	455.88	467.89	466.00	445.46	401.68	321.02	188.56	467.88	1339.70
PIN 23	128.29	365.50	162.52	324.60	415.95	456.79	468.81	466.91	446.35	402.47	321.64	188.93	468.80	1342.32
*STEP 11														
PIN 2	61.77	176.00	76.78	154.72	199.22	219.23	225.18	225.45	216.50	195.59	156.11	91.19	225.45	701.86
PIN 4	61.26	174.53	76.13	153.43	197.55	217.40	223.31	223.58	214.69	193.95	154.82	90.42	223.57	696.01
PIN 10	74.18	211.33	91.09	183.59	236.82	261.85	270.63	271.74	261.43	236.52	189.08	110.59	271.74	845.83
PIN 22	128.17	365.15	162.75	324.38	414.98	455.36	467.41	465.87	445.88	402.69	322.44	189.78	467.40	1479.40
PIN 23	128.42	365.87	163.07	325.02	415.78	456.27	468.31	466.77	446.75	403.47	323.08	190.17	468.31	1482.30
*STEP 12														
PIN 2	58.95	167.94	73.30	147.61	189.87	208.85	214.58	214.96	206.63	186.89	149.37	87.34	214.96	766.11
PIN 4	58.46	166.54	72.70	146.39	188.28	207.11	212.79	213.17	204.91	185.33	148.13	86.62	213.17	759.73
PIN 10	70.77	201.62	86.97	175.15	225.68	249.42	257.80	259.02	249.42	225.95	180.87	105.92	259.01	923.25
PIN 22	121.98	347.51	155.24	308.79	394.39	432.45	443.92	442.78	424.28	383.78	307.89	181.59	443.91	1612.08
PIN 23	122.22	348.19	155.54	309.41	395.16	433.30	444.79	443.65	425.10	384.54	308.49	181.94	444.78	1615.24
*STEP 13														
PIN 2	62.14	177.03	77.34	155.56	199.90	219.79	225.87	226.42	217.85	197.28	157.88	92.41	226.41	833.78
PIN 4	61.62	175.56	76.68	154.27	198.23	217.97	223.98	224.53	216.05	195.64	156.58	91.64	224.52	826.83
PIN 10	74.58	212.49	91.74	184.56	237.59	262.44	271.30	272.74	262.89	238.43	191.12	112.06	272.73	1004.77
PIN 22	128.23	365.34	163.57	324.73	414.03	453.66	465.74	464.90	446.00	404.06	324.78	191.92	465.73	1751.28
PIN 23	128.48	366.05	163.89	325.37	414.85	454.54	466.66	465.80	446.87	404.84	325.42	192.29	466.64	1754.72
*STEP 14														
PIN 2	62.17	177.13	77.49	155.66	199.72	219.48	225.57	226.27	217.99	197.71	158.52	92.94	226.27	901.41
PIN 4	61.66	175.66	76.85	154.37	198.06	217.64	223.69	224.38	216.16	196.06	157.20	92.16	224.38	893.90
PIN 10	74.61	212.56	91.92	184.68	237.36	262.00	270.85	272.47	262.95	238.86	191.84	112.67	272.47	1086.21
PIN 22	127.96	364.55	163.72	324.21	412.47	451.53	463.58	463.13	444.91	403.82	325.38	192.76	463.58	1889.85
PIN 23	128.21	365.27	164.06	324.85	413.29	452.40	464.50	464.03	445.78	404.61	326.02	193.15	464.48	1893.55

PERIOD 33
POD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 15														
PIN 2	62.25	177.36	77.77	155.93	199.65	219.21	225.33	226.20	218.22	198.30	159.37	93.63	226.20	969.01
PIN 4	61.73	175.88	77.12	154.62	198.00	217.37	223.46	224.31	216.40	196.64	158.03	92.84	224.32	960.94
PIN 10	74.69	212.79	92.26	184.97	237.26	261.62	270.50	272.30	263.15	239.50	192.81	113.49	272.31	1167.60
PIN 22	127.78	364.03	164.14	324.01	411.15	449.56	461.59	461.54	444.06	403.92	326.40	193.95	461.58	2027.81
PIN 23	128.02	364.74	164.46	324.65	411.95	450.43	462.49	462.44	444.93	404.71	327.04	194.33	462.48	2031.78
*STEP 16														
PIN 2	62.07	176.84	77.72	155.52	198.75	218.02	224.14	225.18	217.55	198.05	159.54	93.93	225.18	1036.32
PIN 4	61.55	175.36	77.07	154.22	197.09	216.20	222.29	223.31	215.73	196.39	158.20	93.14	223.31	1027.69
PIN 10	74.45	212.11	92.19	184.48	236.15	260.14	268.99	271.00	262.25	239.13	192.96	113.82	271.00	1248.60
PIN 22	127.06	361.98	163.84	322.46	408.11	445.69	457.66	458.02	441.35	402.32	326.04	194.33	458.01	2164.70
PIN 23	127.30	362.69	164.17	323.09	408.91	446.58	458.56	458.91	442.20	403.10	326.69	194.70	458.91	2168.95
*STEP 17														
PIN 2	62.45	177.92	78.37	156.53	199.64	218.81	225.00	226.20	218.84	199.59	161.16	95.07	226.20	1103.93
PIN 4	61.93	176.44	77.72	155.22	197.98	216.98	223.12	224.33	217.02	197.93	159.81	94.28	224.32	1094.74
PIN 10	74.89	213.36	92.96	185.67	237.19	261.03	269.93	272.15	263.72	240.92	194.87	115.19	272.14	1329.94
PIN 22	127.49	363.21	165.04	323.83	408.76	445.88	457.89	458.64	442.63	404.36	328.65	196.46	458.64	2301.79
PIN 23	127.74	363.92	165.36	324.46	409.56	446.77	458.78	459.55	443.49	405.16	329.28	196.84	459.54	2306.30
*STEP 18														
PIN 2	61.07	173.98	76.80	153.12	194.92	213.44	219.53	220.87	213.96	195.50	158.20	93.51	220.86	1168.84
PIN 4	60.56	172.54	76.16	151.84	193.30	211.66	217.69	219.02	212.18	193.87	156.88	92.74	219.02	1159.11
PIN 10	73.22	208.60	91.10	181.62	231.55	254.59	263.27	265.63	257.77	235.90	191.26	113.28	265.63	1408.01
PIN 22	124.34	354.24	161.58	316.08	397.95	433.58	445.29	446.41	431.48	395.02	321.95	193.01	446.41	2432.99
PIN 23	124.58	354.93	161.90	316.70	398.74	434.44	446.16	447.30	432.33	395.79	322.59	193.40	447.29	2437.76
*STEP 19														
PIN 2	59.45	169.38	74.93	149.12	189.47	207.30	213.24	214.71	208.27	190.64	154.60	91.55	214.70	1233.01
PIN 4	58.96	167.97	74.31	147.88	187.89	205.58	211.46	212.92	206.53	189.05	153.32	90.80	212.91	1222.75
PIN 10	71.27	203.04	88.89	176.87	225.05	247.21	255.68	258.15	250.83	229.97	186.86	110.91	258.14	1485.16
PIN 22	120.74	343.98	157.48	307.17	385.76	419.82	431.17	432.65	418.80	384.20	313.99	188.78	432.64	2562.30
PIN 23	120.97	344.65	157.78	307.77	386.51	420.64	432.01	433.50	419.62	384.95	314.61	189.15	433.49	2567.32
*STEP 20														
PIN 2	62.75	178.77	79.26	157.43	199.65	218.26	224.55	226.25	219.78	201.53	163.79	97.19	226.25	1300.64
PIN 4	62.23	177.29	78.61	156.13	198.00	216.45	222.69	224.38	217.94	199.85	162.43	96.39	224.37	1289.81
PIN 10	75.20	214.24	94.01	186.72	237.13	260.23	269.14	271.95	264.59	243.01	197.91	117.70	271.95	1566.45
PIN 22	127.09	362.08	166.40	323.61	405.33	440.61	452.55	454.51	440.61	405.08	331.98	200.16	454.50	2698.15
PIN 23	127.34	362.79	166.72	324.23	406.13	441.46	453.44	455.40	441.48	405.88	332.63	200.54	455.39	2703.43
*STEP 21														
PIN 2	61.73	175.88	78.12	154.94	196.17	214.31	220.51	222.32	216.20	198.53	161.65	96.05	222.32	1339.40
PIN 4	61.22	174.42	77.47	153.65	194.55	212.53	218.67	220.46	214.39	196.88	160.29	95.27	220.47	1328.25
PIN 10	73.97	210.74	92.66	183.74	232.98	255.48	264.24	267.15	260.21	239.35	195.27	116.33	267.15	1613.03
PIN 22	124.77	355.47	163.85	317.91	397.35	431.51	443.24	445.48	432.40	398.20	327.07	197.65	445.47	2775.82
PIN 23	125.01	356.16	164.17	318.53	398.14	432.36	444.11	446.35	433.25	398.99	327.71	198.03	446.34	2781.26

PERIOD 34
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 1														
PIN 2	58.40	166.38	73.76	146.71	186.17	203.57	209.29	210.79	204.50	187.17	151.86	89.93	210.80	1402.41
PIN 4	58.05	165.39	73.32	145.84	185.07	202.35	208.03	209.54	203.28	186.07	150.96	89.40	209.54	1390.88
PIN 10	69.84	198.98	87.32	173.66	220.68	242.24	250.37	252.83	245.66	225.21	183.09	108.68	252.82	1688.59
PIN 22	117.31	334.21	154.00	299.40	374.88	407.40	418.11	419.53	406.30	373.03	305.43	184.03	419.52	2901.21
PIN 23	117.58	335.00	154.35	300.11	375.77	408.37	419.10	420.52	407.25	373.91	306.15	184.46	420.51	2906.94
*STEP 2														
PIN 2	62.75	178.76	79.28	157.63	199.92	218.52	224.68	226.39	219.73	201.26	163.40	96.81	226.38	1470.07
PIN 4	62.37	177.70	78.81	156.69	198.73	217.22	223.34	225.03	218.42	200.07	162.43	96.24	225.03	1458.14
PIN 10	75.02	213.74	93.85	186.57	236.94	260.01	268.73	271.44	263.87	242.09	196.96	116.98	271.42	1769.72
PIN 22	125.70	358.13	165.33	320.97	401.43	436.03	447.45	449.14	435.24	399.98	327.89	197.85	449.13	3035.45
PIN 23	126.00	358.98	165.71	321.74	402.38	437.05	448.51	450.19	436.28	400.93	328.66	198.32	450.19	3041.50
*STEP 3														
PIN 2	63.49	180.87	80.23	159.51	202.15	220.90	227.14	228.93	222.34	203.80	165.59	98.15	228.93	1538.49
PIN 4	63.11	179.80	79.76	158.55	200.94	219.59	225.78	227.57	221.02	202.58	164.61	97.56	227.57	1526.16
PIN 10	75.89	216.21	94.98	188.76	239.57	262.77	271.59	274.40	266.90	245.05	199.54	118.59	274.40	1851.73
PIN 22	126.83	361.35	167.13	324.01	404.73	439.35	450.86	452.72	439.02	403.84	331.49	200.29	452.72	3170.76
PIN 23	127.13	362.20	167.53	324.78	405.68	440.39	451.92	453.79	440.06	404.79	332.28	200.76	453.79	3177.13
*STEP 4														
PIN 2	63.27	180.25	79.98	158.95	201.33	219.95	226.15	228.02	221.58	203.25	165.28	97.99	228.02	1606.65
PIN 4	62.89	179.18	79.51	158.00	200.14	218.62	224.81	226.67	220.26	202.05	164.29	97.41	226.67	1593.90
PIN 10	75.61	215.42	94.68	188.11	238.56	261.58	270.33	273.22	265.91	244.30	199.08	118.39	273.22	1933.39
PIN 22	126.04	359.09	166.41	322.14	401.90	436.04	447.43	449.46	436.14	401.58	330.07	199.70	449.45	3305.10
PIN 23	126.34	359.94	166.82	322.91	402.85	437.06	448.49	450.51	437.18	402.54	330.84	200.19	450.51	3311.78
*STEP 5														
PIN 2	63.45	180.78	80.25	159.42	201.79	220.38	226.64	228.58	222.25	204.00	166.01	98.48	228.57	1674.96
PIN 4	63.08	179.70	79.76	158.47	200.59	219.08	225.28	227.22	220.93	202.78	165.03	97.89	227.21	1661.81
PIN 10	75.81	216.00	94.98	188.65	239.08	262.05	270.82	273.79	266.62	245.12	199.92	118.94	273.79	2015.23
PIN 22	126.06	359.14	166.77	322.34	401.65	435.52	446.88	449.07	436.08	401.90	330.75	200.41	449.06	3439.32
PIN 23	126.35	359.98	167.15	323.09	402.60	436.54	447.94	450.13	437.10	402.85	331.54	200.87	450.12	3446.32
*STEP 6														
PIN 2	56.05	159.69	70.89	140.82	178.17	194.53	200.05	201.83	196.32	180.32	146.81	87.12	201.83	1714.17
PIN 4	55.72	158.74	70.48	139.98	177.10	193.38	198.87	200.62	195.17	179.24	145.94	86.60	200.63	1700.79
PIN 10	66.96	190.76	83.93	166.63	211.06	231.27	239.02	241.69	235.45	216.60	176.77	105.20	241.69	2062.18
PIN 22	111.11	316.54	147.21	284.22	353.81	383.47	393.47	395.51	384.27	354.42	291.98	177.10	395.50	3516.15
PIN 23	111.37	317.29	147.56	284.88	354.64	384.37	394.39	396.45	385.17	355.26	292.66	177.52	396.43	3523.34
*STEP 7														
PIN 2	51.49	146.71	65.14	129.38	163.62	178.61	183.68	185.35	180.38	165.74	135.01	80.15	185.35	1769.57
PIN 4	51.19	145.83	64.76	128.61	162.65	177.54	182.59	184.25	179.29	164.76	134.21	79.66	184.25	1755.86
PIN 10	61.51	175.23	77.12	153.08	193.82	212.32	219.41	221.92	216.26	199.05	162.53	96.77	221.91	2128.51
PIN 22	101.88	290.25	135.17	260.70	324.23	351.28	360.43	362.40	352.27	325.13	268.09	162.77	362.39	3624.47
PIN 23	102.12	290.93	135.48	261.30	325.00	352.12	361.28	363.26	353.10	325.90	268.73	163.15	363.25	3631.91

PERIOD 34
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 8														
PIN 2	63.96	182.22	80.95	160.69	203.12	221.67	227.97	230.12	224.06	206.01	167.94	99.72	230.12	1838.35
PIN 4	63.58	181.14	80.46	159.74	201.91	220.35	226.62	228.76	222.72	204.77	166.93	99.13	228.75	1824.23
PIN 10	76.38	217.60	95.80	190.12	240.57	263.44	272.24	275.43	268.56	247.33	202.11	120.39	275.43	2210.83
PIN 22	126.22	359.60	167.75	323.13	401.43	434.69	446.00	448.59	436.31	403.05	332.73	202.28	448.57	3758.55
PIN 23	126.52	360.44	168.15	323.88	402.38	435.71	447.05	449.64	437.35	404.01	333.51	202.75	449.63	3766.30
*STEP 9														
PIN 2	63.86	181.95	80.85	160.46	202.68	221.13	227.44	229.66	223.73	205.86	167.94	99.77	229.66	1907.00
PIN 4	63.48	180.87	80.36	159.51	201.48	219.81	226.08	228.29	222.40	204.62	166.93	99.17	228.29	1892.47
PIN 10	76.25	217.22	95.69	189.83	240.04	262.75	271.52	274.80	268.07	247.06	202.05	120.43	274.79	2292.97
PIN 22	125.67	358.05	167.37	321.89	399.39	432.23	443.45	446.20	434.30	401.60	331.96	202.10	446.20	3891.91
PIN 23	125.97	358.89	167.75	322.64	400.34	433.25	444.51	447.25	435.32	402.55	332.74	202.56	447.25	3899.98
*STEP 10														
PIN 2	63.72	181.54	80.68	160.09	202.11	220.43	226.74	229.03	223.24	205.54	167.80	99.72	229.02	1975.45
PIN 4	63.34	180.46	80.21	159.14	200.91	219.13	225.38	227.66	221.92	204.32	166.82	99.13	227.66	1960.51
PIN 10	76.06	216.68	95.50	189.38	239.32	261.87	270.60	273.94	267.39	246.61	201.84	120.36	273.94	2374.84
PIN 22	125.04	356.24	166.85	320.42	397.07	429.47	440.59	443.50	431.98	399.84	330.94	201.74	443.49	4024.47
PIN 23	125.33	357.07	167.23	321.17	398.00	430.47	441.63	444.54	433.00	400.78	331.71	202.21	444.54	4032.85
*STEP 11														
PIN 2	64.10	182.61	81.23	161.06	203.12	221.42	227.77	230.18	224.56	206.96	169.17	100.62	230.18	2058.01
PIN 4	63.72	181.52	80.75	160.09	201.91	220.11	226.42	228.81	223.22	205.74	168.17	100.02	228.81	2042.58
PIN 10	76.45	217.79	96.14	190.52	240.49	261.87	271.75	275.23	268.88	248.23	203.42	121.41	275.23	2473.56
PIN 22	125.39	357.24	167.75	321.52	397.77	429.87	440.99	444.14	433.00	401.33	332.76	203.23	444.13	4183.76
PIN 23	125.69	358.08	168.15	322.27	398.70	430.87	442.05	445.19	434.04	402.27	333.55	203.72	445.18	4192.52
*STEP 12														
PIN 2	64.06	182.50	81.32	161.01	202.73	220.81	227.17	229.75	224.39	207.15	169.64	101.04	229.74	2139.26
PIN 4	63.68	181.42	80.83	160.06	201.53	219.51	225.82	228.38	223.07	205.93	168.64	100.44	228.37	2123.35
PIN 10	76.42	217.71	96.24	190.45	239.97	262.20	270.93	274.60	268.56	248.35	203.92	121.90	274.58	2570.68
PIN 22	124.90	355.84	167.70	320.53	395.59	427.04	438.10	441.55	431.07	400.29	332.74	203.75	441.55	4339.93
PIN 23	125.19	356.68	168.10	321.30	396.53	428.05	439.14	442.60	432.08	401.23	333.51	204.22	442.59	4349.06
*STEP 13														
PIN 2	60.74	173.06	77.22	152.73	191.99	208.99	215.01	217.59	212.77	196.69	161.35	96.22	217.58	2204.30
PIN 4	60.38	172.02	76.77	151.81	190.85	207.73	213.74	216.28	211.50	195.52	160.39	95.65	216.29	2188.00
PIN 10	72.44	206.38	91.39	180.63	227.24	248.08	256.35	259.96	254.54	235.72	193.88	116.06	259.96	2648.38
PIN 22	118.08	336.40	159.05	303.27	373.48	402.75	413.19	416.72	407.32	378.88	315.65	193.73	416.71	4464.48
PIN 23	118.36	337.20	159.44	303.99	374.35	403.71	414.16	417.71	408.29	379.78	316.40	194.18	417.70	4473.91
*STEP 14														
PIN 2	63.86	181.94	81.32	160.61	201.61	219.28	225.63	228.48	223.66	207.06	170.14	101.59	228.47	2286.24
PIN 4	63.48	180.86	80.83	159.66	200.41	217.97	224.29	227.12	222.34	205.83	169.12	100.99	227.11	2269.46
PIN 10	76.14	216.92	96.22	189.93	238.58	260.26	268.93	272.87	267.47	248.05	204.39	122.52	282.87	2746.25
PIN 22	123.77	352.61	167.27	318.14	390.91	421.14	432.04	436.03	426.72	397.62	332.01	204.25	436.03	4620.87
PIN 23	124.06	353.44	167.65	318.89	391.83	422.12	433.06	437.06	427.73	398.55	332.79	204.72	437.05	4630.66

PERIOD 34
POD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 15														
PIN 2	63.69	181.46	81.23	160.24	200.81	218.24	224.58	227.57	223.04	206.81	170.26	101.81	227.57	2367.86
PIN 4	63.31	180.38	80.75	159.29	199.62	216.93	223.24	226.22	221.72	205.59	169.24	101.21	226.21	2350.59
PIN 10	75.92	216.29	96.14	189.48	237.59	258.94	267.57	271.69	266.62	247.66	204.45	122.75	271.68	2843.70
PIN 22	123.03	350.51	166.87	316.52	387.97	417.47	428.30	432.58	423.93	395.78	331.32	204.34	432.58	4776.02
PIN 23	123.32	351.33	167.27	317.27	388.89	418.46	429.30	433.60	424.93	396.71	332.09	204.82	433.60	4786.18
*STEP 16														
PIN 2	63.79	181.75	81.48	160.54	200.87	218.16	224.51	227.66	223.39	207.43	171.05	102.41	227.65	2435.91
PIN 4	63.41	180.67	81.00	159.59	199.69	216.85	223.17	226.30	222.05	206.19	170.03	101.79	226.30	2418.23
PIN 10	76.02	216.58	96.42	189.83	237.64	258.79	267.40	271.69	266.92	248.30	205.34	123.47	271.68	2924.90
PIN 22	122.85	349.99	167.18	316.30	386.83	415.82	426.57	431.16	423.09	395.69	332.01	205.24	431.16	4904.88
PIN 23	123.14	350.82	167.59	317.05	387.75	416.80	427.59	432.18	424.08	396.63	332.79	205.73	432.18	4915.35
*STEP 17														
PIN 2	61.98	176.59	79.26	156.03	194.99	211.63	217.82	220.98	217.02	201.74	166.58	99.84	220.97	2484.34
PIN 4	61.61	175.54	78.79	155.09	193.83	210.38	216.52	219.66	215.73	200.56	165.59	99.23	219.66	2466.38
PIN 10	73.85	210.39	93.80	184.48	230.65	250.99	259.36	263.64	259.24	241.44	199.94	120.34	263.63	2982.68
PIN 22	119.07	339.23	162.47	306.78	374.52	402.23	412.66	417.32	409.91	383.90	322.69	199.85	417.31	4996.35
PIN 23	119.35	340.03	162.85	307.50	375.40	403.19	413.63	418.31	410.88	384.80	323.46	200.32	418.30	5007.03

PERIOD 35
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 1														
PIN 2	42.63	121.46	51.21	112.57	136.61	152.16	157.31	156.51	148.90	133.33	105.41	60.61	157.32	2526.66
PIN 4	41.84	119.19	50.57	103.72	134.88	150.25	155.34	154.55	147.04	131.65	104.08	59.85	155.34	2508.17
PIN 10	50.05	142.58	60.14	123.19	160.17	178.68	185.38	185.10	176.57	158.42	125.63	72.53	185.37	3032.55
PIN 22	79.89	227.60	102.76	201.95	256.45	282.79	291.74	290.57	277.36	250.42	201.81	120.13	291.73	5074.83
PIN 23	79.40	226.22	102.14	200.72	254.91	281.09	289.97	288.80	275.68	248.92	200.59	119.39	289.96	5085.03
*STEP 2														
PIN 2	48.56	138.34	58.68	120.38	156.54	174.39	180.30	179.36	170.65	152.80	120.80	69.46	180.29	2580.54
PIN 4	47.95	136.60	57.95	118.87	154.57	172.20	178.02	177.12	168.51	150.87	119.29	68.59	178.02	2561.37
PIN 10	57.36	163.40	68.92	141.19	183.56	204.77	212.45	212.13	202.36	181.55	143.96	83.14	212.44	3096.05
PIN 22	91.55	260.83	117.77	231.44	293.90	324.10	334.33	333.00	317.86	286.99	231.29	137.66	334.33	5174.75
PIN 23	91.00	259.25	117.05	230.03	292.13	322.14	332.31	330.97	315.93	285.25	229.88	136.84	332.30	5184.35
*STEP 3														
PIN 2	40.65	115.81	49.13	100.77	131.05	146.01	150.94	150.17	142.86	127.92	101.14	58.15	150.94	2618.14
PIN 4	40.14	114.36	48.51	99.52	129.41	144.17	149.05	148.28	141.07	126.32	99.87	57.43	149.04	2598.50
PIN 10	48.02	136.80	57.70	118.20	153.67	171.43	177.86	177.59	169.41	151.99	120.53	69.59	177.85	3140.34
PIN 22	76.65	218.37	98.60	193.75	246.06	271.33	279.90	278.78	266.12	240.27	193.63	115.26	279.90	5244.47
PIN 23	76.18	217.04	97.99	192.58	244.55	269.68	278.21	277.09	264.49	238.81	192.46	114.56	278.20	5253.64
*STEP 4														
PIN 2	41.18	117.31	49.77	102.08	132.76	147.93	152.90	152.11	144.72	129.58	102.44	58.90	152.89	2646.32
PIN 4	40.66	115.84	49.15	100.81	131.08	146.04	150.97	150.20	142.89	127.96	101.16	58.16	150.97	2626.32
PIN 10	48.64	138.57	58.45	119.73	155.66	173.66	180.16	179.90	171.60	153.97	122.10	70.49	180.16	3173.55
PIN 22	77.64	221.20	99.87	196.27	249.24	274.85	283.53	282.39	269.56	243.38	196.14	116.75	283.53	5296.73
PIN 23	77.17	219.86	99.27	195.09	247.73	273.17	281.81	280.69	267.92	241.91	194.95	116.04	281.81	5305.58

PERIOD 36
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 1														
PIN 2	45.26	128.94	55.29	113.70	147.83	163.87	168.49	167.05	158.47	140.99	110.64	63.10	168.48	2696.68
PIN 4	44.80	127.64	54.72	112.57	146.34	162.22	166.78	165.36	156.88	139.57	109.52	62.46	166.78	2676.17
PIN 10	53.30	151.87	64.72	132.94	172.84	191.98	198.13	197.06	187.24	166.95	131.45	75.34	198.13	3232.77
PIN 22	83.82	238.79	109.81	215.34	272.66	298.89	306.58	304.11	289.07	259.74	208.29	123.44	306.58	5388.36
PIN 23	83.27	237.25	109.09	213.94	270.90	296.95	304.61	302.15	287.19	258.07	206.93	122.65	304.59	5396.62
*STEP 2														
PIN 2	50.90	145.00	62.16	127.87	166.25	184.28	189.47	187.84	178.21	158.55	124.41	70.96	189.46	2753.30
PIN 4	50.38	143.53	61.54	126.57	164.56	182.41	187.54	185.95	176.40	156.95	123.15	70.24	187.55	2732.23
PIN 10	59.94	170.78	72.79	149.50	194.35	215.88	222.81	221.60	210.56	187.74	147.83	84.71	222.80	3299.37
PIN 22	94.25	268.53	123.47	242.16	306.61	336.11	344.76	341.98	325.07	292.09	234.21	138.81	344.75	5491.40
PIN 23	93.64	266.79	122.67	240.59	304.62	333.93	342.53	339.75	322.96	290.20	232.71	137.93	342.52	5499.00
*STEP 3														
PIN 2	49.52	141.08	60.49	124.41	161.75	179.29	184.35	182.76	173.39	154.25	121.05	69.04	184.34	2808.40
PIN 4	49.02	139.65	59.87	123.15	160.12	177.49	182.47	180.92	171.63	152.70	119.83	68.34	182.48	2786.77
PIN 10	58.32	166.16	70.81	145.45	189.11	210.04	216.78	215.61	204.87	182.66	143.83	82.44	216.78	3364.16
PIN 22	91.71	261.27	120.14	235.60	298.32	327.02	335.44	332.73	316.28	284.20	227.89	135.07	335.43	5591.65
PIN 23	91.11	259.58	119.36	234.08	296.39	324.90	333.26	330.59	314.23	282.36	226.42	134.20	333.26	5598.60
*STEP 4														
PIN 2	50.50	143.87	61.68	126.87	164.94	182.84	187.98	186.37	176.82	157.31	123.44	70.41	187.98	2864.59
PIN 4	49.99	142.41	61.06	125.58	163.29	180.98	186.09	184.50	175.03	155.72	122.20	69.69	186.08	2842.39
PIN 10	59.48	169.45	72.22	148.33	192.84	214.19	221.07	219.88	208.92	186.27	146.67	84.06	221.07	3430.23
PIN 22	93.52	266.43	122.52	240.27	304.22	333.48	342.06	339.30	322.52	289.82	232.39	137.74	342.06	5693.89
PIN 23	92.91	264.71	121.72	238.71	302.25	331.32	339.85	337.11	320.45	287.95	230.89	136.84	339.85	5700.18
*STEP 5														
PIN 2	52.08	148.38	63.62	130.85	170.11	188.56	193.88	192.23	182.36	162.23	127.30	72.62	193.87	2931.22
PIN 4	51.56	146.88	62.97	129.53	168.42	186.66	191.92	190.29	180.52	160.61	126.03	71.88	191.92	2908.35
PIN 10	61.34	174.75	74.47	152.98	198.88	220.92	227.99	226.77	215.46	192.11	151.26	86.69	228.00	3508.60
PIN 22	96.45	274.78	126.35	247.80	313.76	343.94	352.79	349.94	332.64	298.90	239.67	142.06	352.79	5815.15
PIN 23	95.83	273.01	125.53	246.19	311.72	341.71	350.51	347.68	330.49	296.96	238.13	141.14	350.50	5820.65

PERIOD 37
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 1														
PIN 2	51.95	147.99	63.60	130.40	168.97	187.06	192.44	191.22	182.00	162.60	128.21	73.44	192.45	2963.82
PIN 4	51.43	146.53	62.97	129.11	167.30	185.20	190.55	189.33	180.22	160.99	126.94	72.70	190.55	2940.62
PIN 10	61.16	174.24	74.46	152.45	197.51	219.06	226.20	225.47	214.93	192.44	152.28	87.66	226.20	3546.91
PIN 22	95.76	272.83	126.12	246.01	310.09	339.29	348.20	346.21	330.29	298.20	240.50	143.38	348.19	5874.12
PIN 23	95.17	271.14	125.33	244.49	308.19	337.18	346.04	344.07	328.24	296.36	239.02	142.49	346.04	5879.26

PERIOD 38
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 1														
PIN 2	57.15	162.82	66.11	137.24	180.67	203.53	212.55	213.57	204.71	183.46	144.17	82.15	213.57	3027.65
PIN 4	56.82	161.87	65.73	136.45	179.63	202.36	211.31	212.33	203.52	182.39	143.33	81.68	212.34	3004.09
PIN 10	66.30	188.88	76.21	158.05	208.03	234.77	246.06	248.10	238.23	213.99	168.72	96.61	248.10	3621.06
PIN 22	101.86	290.19	125.88	249.47	320.08	356.83	372.09	374.63	360.16	326.14	261.80	154.84	374.63	5986.09
PIN 23	101.37	288.80	125.28	248.28	318.54	355.13	370.30	372.83	358.44	324.56	260.53	154.10	372.83	5990.69
*STEP 2														
PIN 2	55.49	158.09	64.17	133.01	174.85	196.86	205.74	207.03	198.87	178.71	140.99	80.66	207.03	3081.28
PIN 4	55.17	157.18	63.80	132.24	173.82	195.72	204.55	205.84	197.71	177.69	140.17	80.20	205.83	3057.41
PIN 10	64.36	183.36	73.99	153.17	201.29	227.04	238.11	240.42	231.37	208.40	164.98	94.83	240.42	3683.34
PIN 22	98.70	281.19	122.10	241.39	309.07	344.29	359.24	362.22	349.05	317.02	255.59	151.88	362.21	6079.91
PIN 23	98.22	279.83	121.52	240.22	307.60	342.63	357.52	360.48	347.38	315.50	254.36	151.14	360.47	6084.06
*STEP 3														
PIN 2	55.59	158.38	64.27	133.01	174.58	196.48	205.49	207.06	199.34	179.61	142.24	81.68	207.06	3143.17
PIN 4	55.27	157.46	63.90	132.24	173.57	195.34	204.30	205.88	198.18	178.58	141.42	81.22	205.87	3118.94
PIN 10	64.46	183.66	74.11	153.17	200.97	226.52	237.74	240.39	231.84	209.41	166.40	96.02	240.38	3755.19
PIN 22	98.67	281.12	122.20	240.99	307.95	342.75	357.87	361.35	349.04	317.94	257.43	153.65	361.34	6187.91
PIN 23	98.20	279.76	121.62	239.82	306.46	341.11	356.15	359.61	347.35	316.42	256.20	152.91	359.60	6191.54
*STEP 4														
PIN 2	56.39	160.65	65.17	134.65	176.45	198.47	207.75	209.67	202.30	182.82	145.39	83.83	209.66	3205.83
PIN 4	56.06	159.72	64.81	133.88	175.45	197.31	206.55	208.45	201.14	181.77	144.55	83.34	208.45	3181.24
PIN 10	65.37	186.25	75.14	155.04	203.10	228.78	240.29	243.31	235.22	213.09	170.03	98.51	243.32	3827.91
PIN 22	99.86	284.51	123.82	243.52	310.51	345.29	360.80	364.86	353.32	322.87	262.64	157.51	364.85	6296.96
PIN 23	99.38	283.15	123.22	242.34	309.02	343.63	359.06	363.11	351.63	321.34	261.36	156.75	363.10	6300.06
*STEP 5														
PIN 2	56.45	160.81	65.27	134.66	176.20	198.03	207.40	209.56	202.55	183.48	146.36	84.63	209.55	3268.47
PIN 4	56.12	159.88	64.91	133.88	175.18	196.89	206.19	208.34	201.38	182.41	145.50	84.14	208.34	3243.51
PIN 10	65.43	186.40	75.26	155.04	202.76	228.23	239.80	243.10	235.42	213.77	171.13	99.47	243.09	3900.57
PIN 22	99.74	284.16	123.91	243.08	309.31	343.62	359.18	363.63	352.84	323.26	263.89	158.87	363.62	6405.64
PIN 23	99.26	282.79	123.31	241.91	307.82	341.96	357.44	361.89	351.13	321.70	262.62	158.10	361.87	6408.22
*STEP 6														
PIN 2	56.44	160.80	65.41	134.78	176.12	197.78	207.08	209.29	202.45	183.58	146.64	84.90	209.29	3331.02
PIN 4	56.11	159.87	65.02	133.99	175.10	196.63	205.88	208.08	201.28	182.52	145.79	84.41	208.08	3305.71
PIN 10	65.41	186.34	75.41	155.16	202.65	227.87	239.37	242.73	235.23	213.82	171.42	99.75	242.72	3973.12
PIN 22	99.50	283.49	124.04	242.85	308.44	342.26	357.62	362.17	351.73	322.67	263.91	159.19	362.17	6513.89
PIN 23	99.02	282.12	123.44	241.68	306.95	340.61	355.90	360.43	350.04	321.12	262.64	158.42	360.43	6515.95
*STEP 7														
PIN 2	56.52	161.02	65.64	135.10	176.28	197.78	207.03	209.32	202.63	183.96	147.18	85.31	209.32	3406.10
PIN 4	56.19	160.10	65.27	134.33	175.26	196.64	205.84	208.12	201.46	182.91	146.32	84.83	208.11	3380.35
PIN 10	65.48	186.56	75.70	155.52	202.82	227.82	239.25	242.68	235.37	214.21	172.00	100.24	242.67	4060.16
PIN 22	99.40	283.18	124.38	242.95	307.94	341.28	356.47	361.13	351.05	322.52	264.31	159.77	361.12	6643.41
PIN 23	98.92	281.81	123.77	241.78	306.45	339.64	354.76	359.39	349.36	320.97	263.04	159.00	359.39	6644.85

PERIOD 38
POD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 8														
PIN 2	57.27	163.18	66.68	137.04	178.56	2[illegible].16	209.46	211.85	205.24	186.56	149.47	86.75	211.85	3469.42
PIN 4	56.94	162.23	66.29	136.25	177.54	198.98	208.24	210.63	204.05	185.48	148.60	86.25	210.62	3443.30
PIN 10	66.34	189.00	76.87	157.75	205.39	230.50	241.96	245.51	238.31	217.15	174.64	101.91	245.51	4133.54
PIN 22	100.47	286.23	126.20	245.94	311.10	344.34	359.53	364.36	354.52	326.20	267.87	162.28	364.36	6752.31
PIN 23	99.99	284.86	125.60	244.77	309.59	342.68	357.80	362.60	352.84	324.65	266.58	161.50	362.61	6753.23
*STEP 9														
PIN 2	57.09	162.65	66.60	136.72	177.92	199.25	208.47	210.93	204.49	186.07	149.28	86.75	210.92	3532.46
PIN 4	56.76	161.71	66.21	135.93	176.89	198.10	207.26	209.71	203.30	185.00	148.41	86.25	209.71	3505.99
PIN 10	66.11	188.35	76.78	157.36	204.62	229.41	240.76	244.35	237.36	216.53	174.38	101.89	244.35	4206.57
PIN 22	99.92	284.66	125.95	244.94	309.22	341.90	356.85	361.75	352.30	324.60	267.05	162.08	361.75	6860.43
PIN 23	99.44	283.29	125.35	243.75	307.74	340.24	355.13	360.01	350.61	323.04	265.76	161.31	360.11	6860.84
*STEP 10														
PIN 2	57.05	162.54	66.68	136.75	177.72	198.87	208.02	210.54	204.25	186.07	149.48	86.97	210.54	3595.39
PIN 4	56.72	161.60	66.29	135.97	176.70	197.71	206.81	209.32	203.08	184.98	148.62	86.47	209.32	3568.55
PIN 10	66.05	188.17	76.88	157.40	204.37	228.93	240.17	243.83	237.01	216.45	174.58	102.13	243.83	4279.45
PIN 22	99.62	283.82	126.00	244.55	308.15	340.32	355.08	360.08	350.98	323.81	266.90	162.32	360.08	6968.06
PIN 23	99.14	282.46	125.40	243.36	306.68	338.68	353.37	358.36	349.31	322.26	265.61	161.53	358.35	6967.94
*STEP 11														
PIN 2	57.26	163.12	67.06	137.37	178.29	199.34	208.45	211.06	204.91	186.86	150.32	87.56	211.06	3658.47
PIN 4	56.92	162.18	66.68	136.59	177.27	198.18	207.25	209.84	203.72	185.77	149.45	87.04	209.84	3631.27
PIN 10	66.27	188.81	77.32	158.10	205.01	229.41	240.60	244.35	237.69	217.30	175.51	102.80	244.35	4352.48
PIN 22	99.75	284.19	126.60	245.20	308.40	340.21	354.83	359.96	351.18	324.43	267.89	163.22	359.95	7075.64
PIN 23	99.27	282.83	126.00	244.03	306.93	338.57	353.12	358.22	349.49	322.87	266.60	162.43	358.22	7075.00
*STEP 12														
PIN 2	57.21	162.98	67.05	137.29	178.06	199.00	208.10	210.76	204.71	186.81	150.39	87.64	210.76	3721.47
PIN 4	56.88	162.04	66.66	136.49	177.04	197.85	206.90	209.54	203.53	185.72	149.52	87.14	209.54	3693.90
PIN 10	66.20	188.60	77.30	157.98	204.69	228.96	240.12	243.92	237.39	217.18	175.55	102.90	243.92	4425.38
PIN 22	99.44	283.30	126.47	244.60	307.27	338.72	353.25	358.46	349.92	323.58	267.52	163.22	358.44	7182.77
PIN 23	98.96	281.94	125.86	243.41	305.80	337.09	351.55	356.73	348.25	322.02	266.23	162.43	356.72	7181.62
*STEP 13														
PIN 2	57.00	162.39	66.78	136.74	177.32	198.16	207.26	209.97	204.02	186.22	149.97	87.41	209.98	3784.23
PIN 4	56.67	161.45	66.40	135.93	176.28	197.03	206.08	208.77	202.83	185.15	149.10	86.90	208.76	3756.29
PIN 10	65.94	187.87	76.98	157.33	203.80	227.96	239.08	242.93	236.51	216.45	175.03	102.60	242.93	4497.98
PIN 22	98.85	281.62	125.85	243.16	305.26	336.42	350.88	356.15	347.83	321.82	266.27	162.58	356.14	7289.21
PIN 23	98.37	280.27	125.23	241.99	303.80	334.80	349.19	354.42	346.16	320.27	264.98	161.81	354.43	7287.55
*STEP 14														
PIN 2	57.38	163.47	67.18	137.59	178.39	199.37	208.57	211.36	205.42	187.59	151.12	88.08	211.36	3860.04
PIN 4	57.05	162.52	66.80	136.79	177.37	198.21	207.37	210.14	204.24	186.50	150.25	87.57	210.14	3831.67
PIN 10	66.36	189.07	77.45	158.30	205.01	229.30	240.52	244.45	238.06	217.95	176.32	103.36	244.45	4585.66
PIN 22	99.26	282.79	126.50	244.20	306.33	337.50	352.03	357.42	349.24	323.33	267.74	163.64	357.42	7417.40
PIN 23	98.78	281.43	125.88	243.03	304.86	335.89	350.34	355.70	347.57	321.77	266.45	162.85	355.70	7415.13

PERIOD 38
FOD POWER

	POWER (KW)	AVERAGE	BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
						LINEAR RATINGS DISTRIBUTION (W/CM)								
*STEP 15														
PIN 2	57.35	163.38	67.13	137.46	178.21	199.17	208.39	211.25	205.37	187.59	151.17	88.11	211.24	3911.60
PIN 4	57.02	162.44	66.73	136.67	177.17	198.01	207.18	210.03	204.19	186.50	150.30	87.61	210.02	3882.93
PIN 10	66.31	188.92	77.37	158.13	204.76	229.00	240.24	244.22	237.91	217.89	176.33	103.40	244.22	4645.27
PIN 22	98.98	282.00	126.27	243.53	305.28	336.26	350.76	356.23	348.24	322.57	267.32	163.52	356.22	7504.35
PIN 23	98.50	280.64	125.65	242.36	303.80	334.63	349.07	354.51	346.55	321.02	266.03	162.73	354.51	7501.66
*STEP 16														
PIN 2	56.69	161.52	66.33	135.85	176.09	196.79	205.94	208.82	203.07	185.53	149.57	87.17	208.81	3974.01
PIN 4	56.36	160.58	65.94	135.07	175.06	195.66	204.76	207.62	201.90	184.46	148.70	86.67	207.61	3944.98
PIN 10	65.54	186.72	76.47	156.26	202.28	226.22	237.34	241.34	235.17	215.45	174.43	102.29	241.34	4717.40
PIN 22	97.65	278.20	124.68	240.27	300.99	331.47	345.79	351.26	343.52	318.36	264.02	161.63	351.26	7609.34
PIN 23	97.18	276.87	124.07	239.12	299.56	329.88	344.14	349.57	341.86	316.84	262.75	160.86	349.57	7606.14
*STEP 17														
PIN 2	57.12	162.74	66.90	136.92	177.32	198.08	207.28	210.26	204.57	187.07	150.94	88.04	210.25	4036.85
PIN 4	56.79	161.80	66.51	136.14	176.30	196.94	206.09	209.04	203.40	186.00	150.07	87.54	209.04	4007.46
PIN 10	66.02	188.10	77.12	157.48	203.67	227.64	238.81	242.93	236.84	217.17	176.00	103.30	242.92	4790.01
PIN 22	98.17	279.69	125.63	241.73	302.42	332.78	347.11	352.74	345.19	320.25	265.96	163.07	352.73	7714.77
PIN 23	97.70	278.34	125.03	240.57	300.96	331.17	345.44	351.05	343.53	318.71	264.69	162.28	351.03	7711.06
*STEP 18														
PIN 2	45.06	128.39	52.90	108.12	139.83	156.08	163.30	165.69	161.31	147.66	119.31	69.67	165.68	4050.89
PIN 4	44.80	127.65	52.59	107.50	139.03	155.17	162.35	164.72	160.39	146.81	118.62	69.27	164.73	4021.41
PIN 10	52.08	148.37	60.98	124.34	160.59	179.35	188.09	191.39	186.72	171.38	139.08	81.73	191.38	4806.22
PIN 22	77.34	220.35	99.27	190.67	238.13	261.80	273.01	277.51	271.79	252.43	209.97	128.94	277.50	7738.27
PIN 23	76.97	219.29	98.80	189.75	236.99	260.54	271.69	276.17	270.48	251.21	208.95	128.32	276.17	7734.44
*STEP 19														
PIN 2	57.48	163.77	67.62	138.04	178.29	198.85	208.00	211.11	205.69	188.48	152.48	89.15	211.11	4113.98
PIN 4	57.15	162.83	67.23	137.26	177.27	197.71	206.80	209.89	204.50	187.39	151.59	88.63	209.89	4084.15
PIN 10	66.42	189.23	77.94	158.77	204.76	228.46	239.55	243.82	238.03	218.69	177.72	104.57	243.80	4879.09
PIN 22	98.53	280.71	126.83	243.18	303.22	333.03	347.18	353.00	345.99	321.72	268.02	164.88	353.00	7843.77
PIN 23	98.05	279.35	126.23	242.01	301.75	331.42	345.51	351.31	344.32	320.18	266.73	164.07	351.31	7839.44
*STEP 20														
PIN 2	57.92	165.02	68.37	139.31	179.53	199.97	209.11	212.33	207.10	190.08	154.10	90.27	212.34	4177.45
PIN 4	57.59	164.07	67.98	138.51	178.49	198.82	207.88	211.11	205.91	188.98	153.22	89.75	211.11	4147.25
PIN 10	66.91	190.62	78.81	160.21	206.14	229.68	240.74	245.12	239.57	220.50	179.58	105.87	245.12	4952.35
PIN 22	99.06	282.22	128.16	244.95	304.61	334.03	348.05	354.07	347.47	323.71	270.38	166.77	354.07	7949.60
PIN 23	98.58	280.87	127.54	243.78	303.14	332.43	346.38	352.38	345.81	322.16	269.09	165.96	352.37	7944.76
*STEP 21														
PIN 2	56.60	161.24	67.03	136.32	175.31	195.04	203.85	207.11	202.21	185.90	151.02	88.61	207.12	4234.19
PIN 4	56.27	160.31	66.65	135.53	174.31	193.90	202.68	205.93	201.06	184.82	150.15	88.11	205.92	4203.66
PIN 10	65.36	186.22	77.27	156.76	201.26	223.94	234.63	239.02	233.85	215.58	175.93	103.92	239.01	5017.83
PIN 22	96.59	275.18	125.53	239.30	296.78	324.95	338.45	344.47	338.45	315.88	264.49	163.54	344.46	8043.98
PIN 23	96.13	273.86	124.93	238.15	295.36	323.39	336.83	342.82	336.83	314.36	263.22	162.75	342.81	8038.68

PERIOD 38
ROD POWER

	POWER (KW)	AVERAGE	LINEAR RATINGS DISTRIBUTION (W/CM) BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	PEAK	PEAK BURNUP (MWD/T)
*STEP 22														
PIN 2	57.85	164.81	68.74	139.55	179.39	198.97	207.90	211.33	206.55	190.17	154.80	91.00	211.33	4297.35
PIN 4	57.51	163.86	68.35	138.75	178.04	197.81	206.70	210.11	205.36	189.06	153.92	90.47	210.10	4266.46
PIN 10	66.79	190.28	79.24	160.44	205.54	228.41	239.20	243.78	238.76	220.46	180.30	106.69	243.78	5090.70
PIN 22	98.52	280.67	128.62	244.52	302.47	330.67	344.25	350.54	344.84	322.42	270.63	167.75	350.54	8148.75
PIN 23	98.04	279.32	128.01	243.33	301.01	329.08	342.60	348.87	343.18	320.87	269.34	166.95	348.86	8142.95
*STEP 23														
PIN 2	55.92	159.31	66.56	135.00	173.04	192.11	200.71	204.09	199.59	183.95	149.92	88.19	204.08	4357.33
PIN 4	55.60	158.39	66.18	134.21	172.03	191.00	199.55	202.90	198.43	182.87	149.05	87.69	202.90	4326.09
PIN 10	64.55	183.90	76.72	155.21	198.57	220.50	230.85	235.35	230.65	213.17	174.56	103.40	235.34	5159.86
PIN 22	95.03	270.73	124.44	236.12	291.59	318.49	331.47	337.65	332.39	311.15	261.58	162.42	337.64	8247.98
PIN 23	94.57	269.43	123.84	234.98	290.21	316.97	329.88	336.02	330.79	309.64	260.33	161.65	336.01	8241.70
*STEP 24														
PIN 2	57.59	164.09	68.64	139.11	178.16	197.70	206.51	210.04	205.53	189.55	154.62	91.02	210.04	4420.11
PIN 4	57.26	163.14	68.24	138.31	177.14	196.56	205.31	208.82	204.34	188.45	153.72	90.48	208.82	4388.50
PIN 10	66.46	189.35	79.11	159.92	204.43	226.84	237.44	242.13	237.41	219.59	179.98	106.69	242.12	5232.23
PIN 22	97.66	278.24	128.21	242.90	299.56	326.92	340.19	346.60	341.41	319.88	269.28	167.42	346.59	8351.57
PIN 23	97.19	276.90	127.59	241.73	298.12	325.35	338.55	344.92	339.77	318.34	267.99	166.61	344.92	8344.79
*STEP 25														
PIN 2	55.93	159.33	66.73	135.17	172.94	191.81	200.32	203.80	199.52	184.15	150.34	88.56	203.80	4481.02
PIN 4	55.60	158.41	66.34	134.38	171.95	190.69	199.17	202.63	198.37	183.08	149.47	88.04	202.62	4449.06
PIN 10	64.52	183.82	76.90	155.36	198.38	220.01	230.27	234.85	230.40	213.27	174.96	103.78	234.85	5302.42
PIN 22	94.63	269.59	124.53	235.57	290.12	316.38	329.15	335.42	330.62	310.06	261.35	162.72	335.42	8451.82
PIN 23	94.17	268.29	123.92	234.43	288.72	314.86	327.56	333.82	329.03	308.57	260.09	161.93	333.80	8444.56
*STEP 26														
PIN 2	53.31	151.87	63.67	128.91	164.79	182.67	190.75	194.13	190.13	175.60	143.50	84.56	194.12	4539.04
PIN 4	53.00	151.00	63.30	128.16	163.84	181.62	189.67	193.01	189.03	174.59	142.66	84.08	193.00	4506.75
PIN 10	61.49	175.17	73.39	148.15	189.01	209.49	219.21	223.63	219.49	203.32	166.97	99.10	223.62	5369.25
PIN 22	90.01	256.43	118.72	224.26	275.85	300.59	312.65	318.69	314.31	295.04	248.99	155.22	318.68	8547.07
PIN 23	89.58	255.20	118.15	223.19	274.51	299.15	311.15	317.15	312.80	293.62	247.80	154.47	317.15	8539.36
*STEP 27														
PIN 2	57.11	162.71	68.29	138.18	176.50	195.54	204.19	207.83	203.65	188.23	153.93	90.79	207.83	4601.16
PIN 4	56.78	161.77	67.90	137.37	175.48	194.42	203.00	206.63	202.48	187.14	153.05	90.25	206.63	4568.50
PIN 10	65.86	187.63	78.71	158.79	202.40	224.19	234.55	239.33	235.02	217.87	179.08	106.36	239.32	5440.79
PIN 22	96.23	274.16	127.24	239.99	294.79	321.00	333.80	340.32	335.86	315.55	266.63	166.43	340.32	8648.79
PIN 23	95.77	272.84	126.62	238.83	293.37	319.46	332.19	338.68	334.23	314.03	265.35	165.64	338.68	8640.59
*STEP 28														
PIN 2	57.03	162.47	68.25	138.03	176.18	195.10	203.70	207.40	203.30	188.03	153.88	90.79	207.39	4641.45
PIN 4	56.70	161.53	67.87	137.22	175.16	193.98	202.53	206.19	202.13	186.94	152.98	90.27	206.19	4608.56
PIN 10	65.74	187.30	78.66	158.60	202.00	223.64	233.93	238.75	234.55	217.57	178.96	106.36	238.74	5487.16
PIN 22	95.91	273.25	127.07	239.38	293.70	319.61	332.29	338.87	334.58	314.59	266.12	166.30	338.86	8714.62
PIN 23	95.45	271.94	126.45	238.23	292.30	318.07	330.70	337.23	332.98	313.07	264.83	165.49	337.23	8706.10

THE END OF PERIOD 34

AXIAL BURNUP DISTRIBUTION (MWD/T)

pin N'	BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	AVERAGE
PIN 1	853.48	1705.16	2172.81	2379.92	2446.12	2459.65	2379.67	2170.77	1753.55	1034.06	1935.52
PIN 2	861.59	1721.37	2193.49	2402.59	2469.41	2483.06	2402.30	2191.39	1770.19	1043.87	1953.93
PIN 3	863.49	1725.16	2198.31	2407.87	2474.84	2488.52	2407.59	2196.22	1774.09	1046.17	1958.23
PIN 4	855.38	1708.94	2177.63	2385.20	2451.54	2465.11	2384.95	2175.59	1757.45	1036.37	1939.82
PIN 5	1006.45	2010.49	2565.58	2821.66	2916.02	2939.71	2848.65	2602.65	2106.47	1245.15	2306.28
PIN 6	994.71	1987.01	2535.60	2788.68	2881.93	2905.35	2815.38	2572.27	2081.90	1230.64	2279.35
PIN 7	992.48	1982.56	2529.93	2782.45	2875.49	2898.86	2809.08	2566.51	2077.23	1227.88	2274.25
PIN 8	999.77	1997.14	2548.57	2802.96	2896.69	2920.21	2829.75	2585.37	2092.46	1236.87	2290.98
PIN 9	1009.29	2016.19	2572.90	2829.73	2924.36	2948.10	2856.75	2610.01	2112.38	1248.63	2312.83
PIN 10	1021.04	2039.67	2602.88	2862.72	2958.44	2982.45	2891.02	2640.39	2136.95	1263.14	2339.77
PIN 11	1023.27	2044.11	2608.55	2868.95	2964.88	2988.95	2896.32	2646.15	2141.62	1265.90	2344.87
PIN 12	1015.98	2029.53	2589.90	2848.43	2943.67	2967.58	2875.64	2627.28	2126.38	1256.91	2328.13
PIN 13	1736.02	3397.58	4279.98	4664.19	4786.46	4792.63	4625.22	4227.12	3440.75	2061.32	3801.13
PIN 14	1726.10	3378.15	4255.48	4637.49	4759.06	4765.20	4598.76	4202.94	3421.08	2049.54	3779.38
PIN 15	1722.23	3370.58	4245.97	4627.13	4748.42	4754.55	4588.46	4193.52	3413.41	2044.94	3770.92
PIN 16	1725.00	3376.04	4252.88	4634.67	4756.16	4762.29	4595.92	4200.30	3418.89	2048.21	3777.04
PIN 17	1733.99	3393.68	4275.16	4658.99	4781.13	4787.25	4619.97	4222.25	3436.70	2058.85	3796.80
PIN 18	1747.83	3420.83	4309.43	4696.37	4819.48	4825.64	4656.98	4256.01	3464.13	2075.24	3827.19
PIN 19	1764.41	3453.35	4350.46	4741.11	4865.40	4871.59	4701.29	4296.46	3497.00	2094.90	3863.60
PIN 20	1781.21	3486.29	4392.02	4786.43	4911.90	4918.14	4746.17	4337.43	3530.30	2114.81	3900.47
PIN 21	1795.68	3514.64	4427.76	4825.40	4951.90	4958.16	4784.78	4372.68	3558.97	2131.97	3932.19
PIN 22	1805.60	3534.07	4452.26	4852.11	4979.30	4985.60	4811.25	4396.87	3578.63	2143.75	3953.94
PIN 23	1809.47	3541.64	4461.78	4862.47	4989.94	4996.26	4821.54	4406.29	3586.31	2148.35	3962.41
PIN 24	1806.70	3536.18	4454.86	4854.92	4982.19	4988.51	4814.09	4399.50	3580.82	2145.08	3956.29
PIN 25	1797.72	3518.54	4432.58	4830.61	4957.23	4963.55	4790.03	4377.56	3563.01	2134.44	3936.53
PIN 26	1783.88	3491.39	4398.31	4793.23	4918.88	4925.17	4753.03	4343.80	3535.58	2118.05	3906.13
PIN 27	1767.29	3458.87	4357.28	4748.48	4872.96	4879.21	4708.71	4303.35	3502.72	2098.39	3869.73
PIN 28	1750.49	3425.93	4315.72	4703.17	4826.46	4832.67	4663.84	4262.38	3469.42	2078.47	3832.86

THE END OF PERIOD 38

AXIAL BURNUP DISTRIBUTION (MWD/T)

	BOTTOM 1	2	3	4	5	6	7	8	9	TOP 10	AVERAGE
PIN 1	1543.80	3119.14	4006.27	4425.32	4577.75	4609.59	4458.32	4059.13	3267.21	1912.77	3597.93
PIN 2	1553.11	3137.82	4030.15	4451.54	4604.75	4636.69	4484.50	4082.95	3286.40	1924.04	3619.20
PIN 3	1551.41	3134.23	4025.40	4446.15	4599.06	4630.97	4478.98	4077.97	3282.45	1921.80	3614.84
PIN 4	1542.10	3115.56	4001.52	4419.93	4572.08	4603.86	4452.80	4054.16	3263.26	1910.52	3593.58
PIN 5	1795.51	3623.78	4655.55	5155.56	5355.45	5407.39	5239.10	4779.58	3858.31	2267.86	4213.81
PIN 6	1786.53	3605.95	4632.90	5130.76	5329.93	5381.71	5214.24	4756.89	3839.94	2256.97	4193.58
PIN 7	1788.47	3610.02	4638.26	5136.83	5336.35	5388.20	5220.52	4762.57	3844.46	2259.57	4198.52
PIN 8	1801.31	3635.95	4671.61	5173.77	5374.68	5426.86	5257.89	4796.59	3871.87	2275.65	4228.62
PIN 9	1812.23	3657.86	4699.65	5204.68	5406.65	5459.05	5289.05	4824.98	3894.78	2289.15	4253.81
PIN 10	1821.21	3675.68	4722.30	5229.49	5432.18	5484.75	5313.89	4847.67	3913.15	2300.04	4274.04
PIN 11	1819.28	3671.61	4716.95	5223.40	5425.76	5478.24	5307.62	4842.00	3908.63	2297.44	4269.09
PIN 12	1806.43	3645.67	4683.57	5186.45	5387.39	5439.57	5270.24	4807.96	3881.21	2281.35	4238.98
PIN 13	3031.58	5907.55	7435.45	8137.94	8396.25	8438.19	8164.98	7482.58	6117.77	3686.91	6679.92
PIN 14	3027.07	5898.59	7424.15	8125.76	8383.91	8426.00	8153.29	7471.99	6109.27	3681.91	6670.19
PIN 15	3030.01	5904.24	7431.23	8133.68	8392.28	8434.51	8161.57	7479.63	6115.60	3685.80	6676.85
PIN 16	3039.96	5923.63	7455.67	8160.53	8420.04	8462.41	8188.59	7504.33	6135.79	3697.97	6698.89
PIN 17	3055.40	5953.80	7493.73	8202.20	8463.01	8505.52	8230.19	7542.37	6166.78	3716.58	6732.96
PIN 18	3073.98	5990.16	7539.61	8252.36	8514.61	8557.22	8280.05	7587.90	6203.83	3738.80	6773.85
PIN 19	3092.87	6027.17	7586.32	8303.35	8566.99	8609.66	8330.61	7634.04	6241.32	3761.23	6815.36
PIN 20	3109.20	6059.22	7626.76	8347.43	8612.18	8654.86	8374.14	7673.73	6273.53	3780.47	6851.15
PIN 21	3120.48	6081.40	7654.78	8377.90	8643.33	8685.91	8404.02	7700.94	6295.56	3793.58	6875.79
PIN 22	3124.99	6090.34	7666.09	8390.09	8655.66	8698.12	8415.70	7711.53	6304.06	3798.58	6885.52
PIN 23	3122.05	6084.70	7658.99	8382.16	8647.31	8689.62	8407.43	7703.89	6297.74	3794.69	6878.86
PIN 24	3112.10	6065.32	7634.55	8355.32	8619.52	8661.70	8380.42	7679.16	6277.54	3782.51	6856.81
PIN 25	3096.66	6035.14	7596.49	8313.66	8576.57	8618.58	8338.82	7641.14	6246.54	3763.90	6822.75
PIN 26	3078.08	5998.79	7550.62	8263.49	8524.96	8566.90	8288.95	7595.59	6209.49	3741.69	6781.86
PIN 27	3059.19	5961.78	7503.89	8212.48	8472.58	8514.46	8238.40	7549.48	6172.02	3719.26	6740.35
PIN 28	3042.86	5929.73	7463.46	8168.42	8427.38	8469.27	8194.88	7509.79	6139.80	3700.02	6704.56

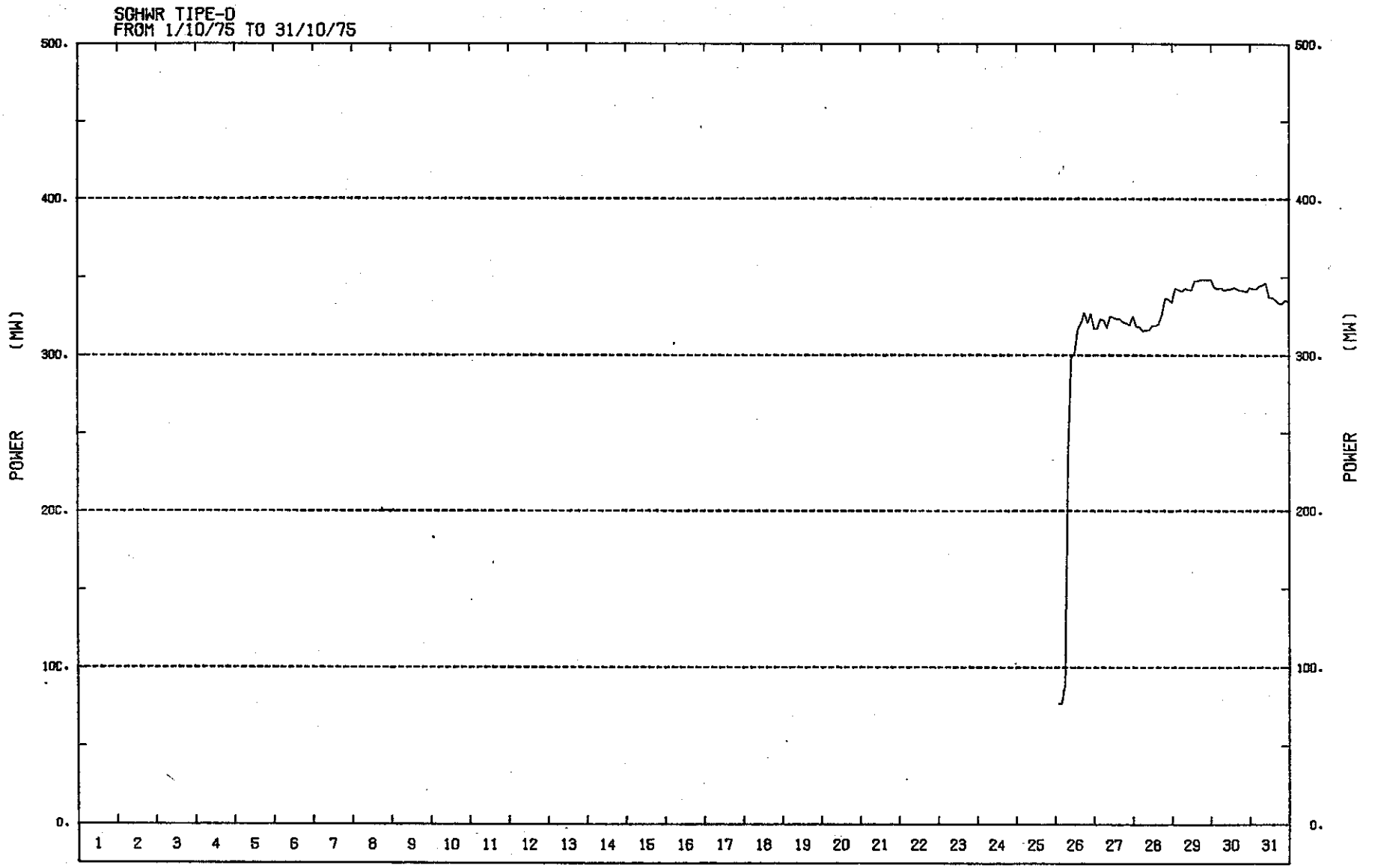
```
10/12/78   C R C  SCOPE 3.4.4H PSR 430  07/01/78    MF8

11.54.18.$JOB. TPI$K3I AT JDT 24,   /BK -- 883I
11.54.18.$IN     59 CARDS READ.  U200.
11.54.18.IP       384 WORDS - FILE INPUT  , DC 00
11.54.18.TRIDS,T200,P3,MT1.
11.54.20.$IDA,517408,KANEDA  ,      ,    ,J. P=3
11.54.20.SHAIN BANGOU 09297
11.54.20.BETA(ON) (DEFAULT)
11.54.20.FILE OPENED --- OUTPUT
11.54.22.BETA,OFF.
11.54.22.MAP,OFF.
11.54.22.KNOCK,COT,MERCURY,ID=00399.
11.54.23.PF CYCLE NO. = 001
11.54.24.COPYBF,COT,LG2.
11.54.24.FILE OPENED --- LG2
11.54.26.COPYBF,COT,OLDPL.
11.54.26.FILE OPENED --- OLDPL
11.54.27.COPYBF,COT,CARD.
11.54.27.FILE OPENED --- CARD
11.54.28.UNLOAD,COT.
11.54.28.UPDATE,L=0.
11.54.29.FILE OPENED --- COMPILE
11.54.35. UPDATE COMPLETE.
11.54.35.FTN,I,L=0.
11.54.36.FILE OPENED --- LGO
11.54.47.     2.089 CP SECONDS COMPILATION TIME
11.54.47.REWIND,LGO,LG2.
11.54.47.COPYL,LG2,LGO,LG1.
11.54.47.FILE OPENED --- LG1
11.54.48. UPDATED -- REL    / PRINT
11.54.49. UPDATED -- REL    / PLALL
11.54.50. UPDATED -- REL    / NDAY
11.54.50. COPYL COMPLETE.
11.54.51.REWIND,CARD.
11.54.51.COPYBR,INPUT,DATA.
11.54.51.FILE OPENED --- DATA
11.54.51.COPYBR,CARD,DATA.
11.54.52.REWIND,DATA.
11.54.53.LG1(DATA)
11.54.58.  CM LWA+1 =1026478, LOADER USED 1200008
11.54.58.       .852 CP     5.347 RT SEC LOAD TIME
11.55.08.FILE OPENED --- TAPE1
11.55.58. ** PLOTTER INFORMATION **
11.55.58. MACHINE=1136M, PEN=12 , BUFF LENG=  96,
11.55.58. FILES=  1, BLK.ADD.=  24, BLOCKS=  341,
11.55.58. XMIN=       .0 CM, XMAX=    889.2 CM,
11.55.58. YMIN=       .0 CM, YMAX=     24.9 CM,
11.55.58. PLOT TIME=  48.2 MIN.
11.55.58.     STOP
11.55.58.     25.430 CP SECONDS EXECUTION TIME
11.55.58.REWIND,TAPE1.
11.55.58.LABEL,A,W,L=TRIDS*PLOT,T=2.
11.55.58.( MT 072 ASSIGNED)
11.55.59. MT 72  LFN=A         (W)  VSN=001918**HI
11.55.59. MT 72  LABEL NAME =TRIDS*PLOT
11.55.59. MT 72  E=01, T=002, C=78285, V=0001
11.55.59.COPYBF,TAPE1,A.
11.56.11.MT72  BLOCKS WRITTEN -000342
11.56.11.EOI ENCOUNTERED AFTER COPY OF FILE
11.56.11.          0, RECORD  341
11.56.11.UNLOAD,A.
```

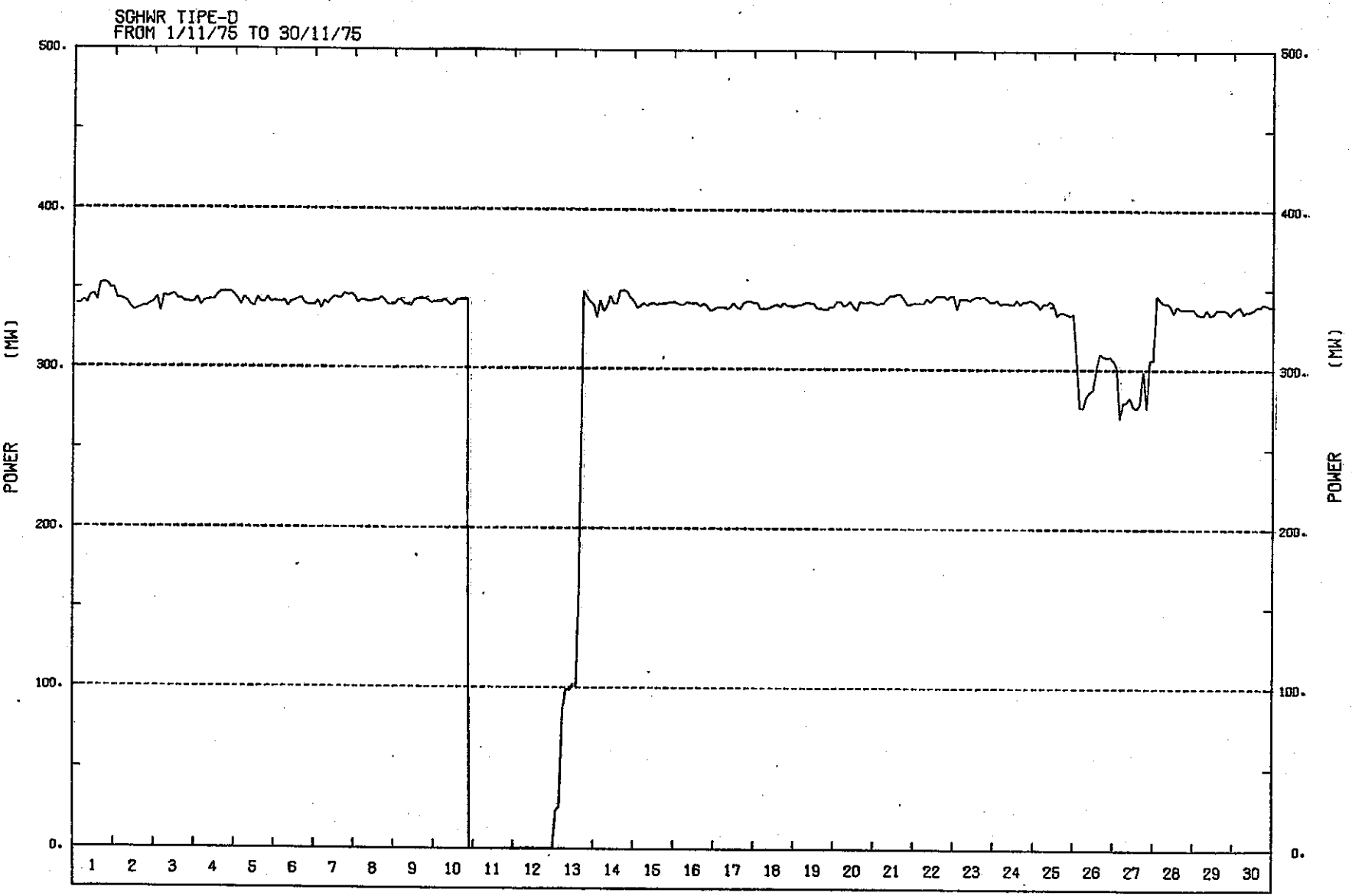
```
11.56.11.CHOSITE.
11.56.11.SC       7488 WORDS - FILE LG2    , EQ AY
11.56.11.SC       6016 WORDS - FILE OLDPL  , EQ AY
11.56.11.SC      10880 WORDS - FILE DATA   , EQ AY
11.56.11.SC      10880 WORDS - FILE CARD   , EQ AY
11.56.11.SC       3584 WORDS - FILE COMPILE, EQ AY
11.56.11.OP      19136 WORDS - FILE OUTPUT , DC 40
11.56.11.SC      21824 WORDS - FILE TAPE1  , EQ AY
11.56.11.SC       1664 WORDS - FILE LGO    , EQ AY
11.56.11.SC       7552 WORDS - FILE LG1    , EQ AY
11.56.11.COUNTERS. PU0 PR0 PL0.
11.56.11.MS    21504  WORDS  (MAX    28 *4096WDS)
11.56.11.CP       30.216 SEC.        30.216 ADJ.
11.56.11.IO       55.005 SEC.
11.56.11.CM     840.648 KWS.          6.567 ADJ.
11.56.11.AVFL     16 KW
11.56.11.SS                          36.784 SEC.
11.56.11.$ ACC#T SYSTEM TIME=      0.70 MIN.(P=3)
11.56.11.CH       14 SEC. DSIO     6349 PRU
11.56.11.RC     1663 TIMES.   TAKAHASI    Q062CM
11.56.11.PP       43.414 SEC.      DATE 10/12/78
11.56.12./11G883I517408KANEDA              J
11.56.12./12G883I531012TRI$K       0.70 300(000)
11.56.12./13G883I    59    31     56  16     0.70
11.56.12.EJ  END OF JOB, **
     41 PAGES PRINTED
   1853 LINES PRINTED
```

付 録 4

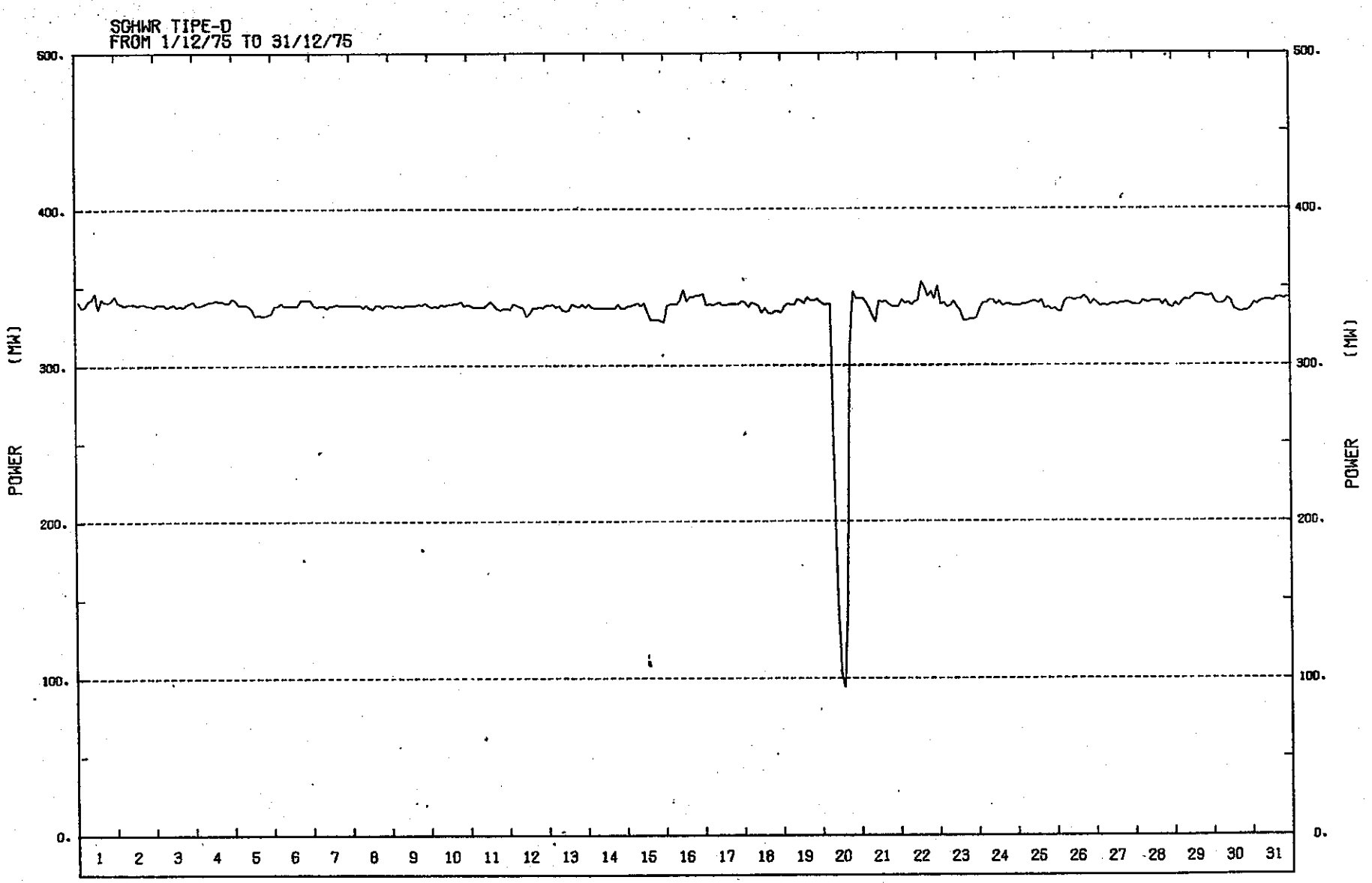
TYPE－D 集合体照射期中の SGHWR 原子炉出力履歴の詳細



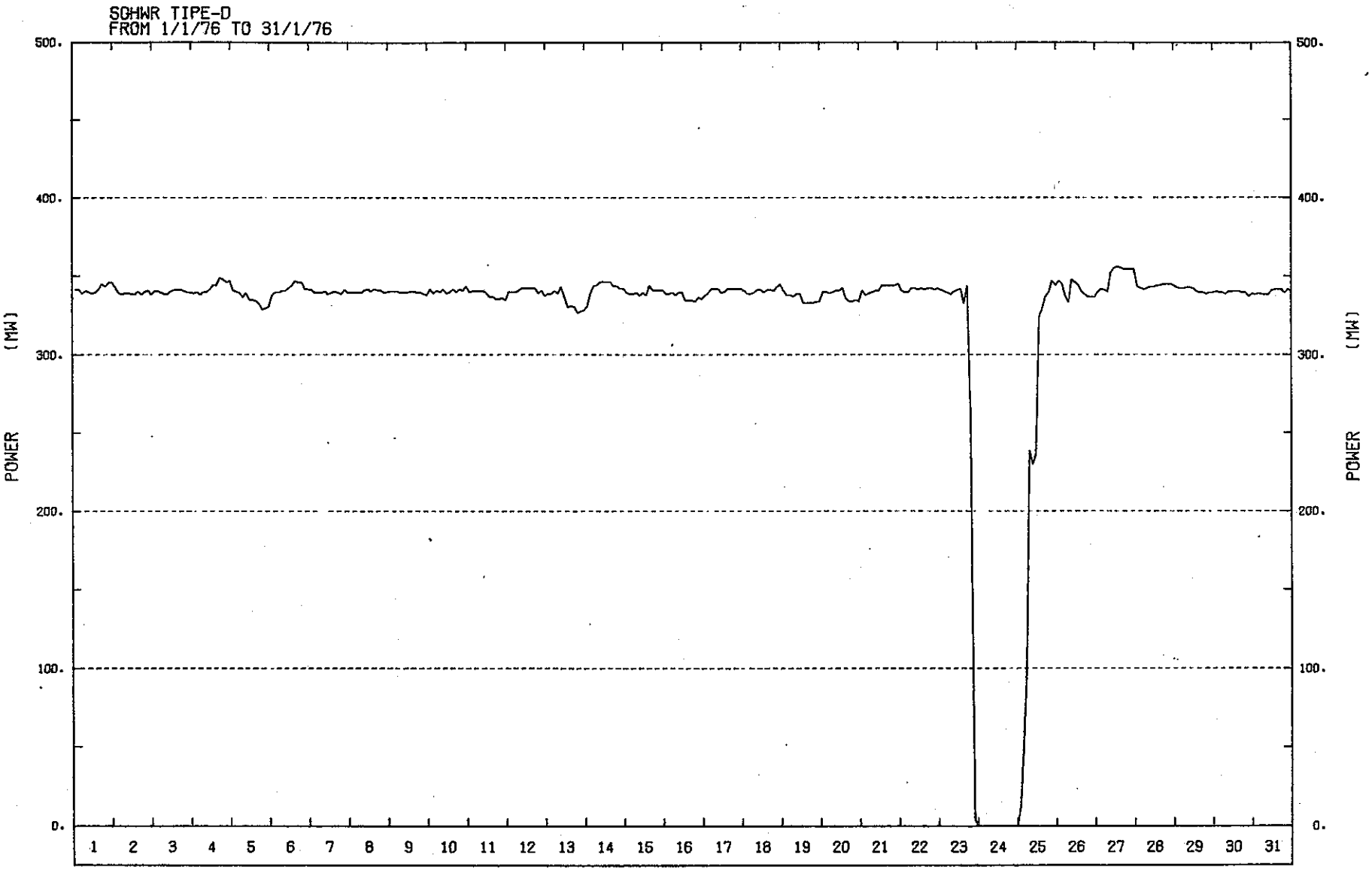
REACTOR POWER HISTORY



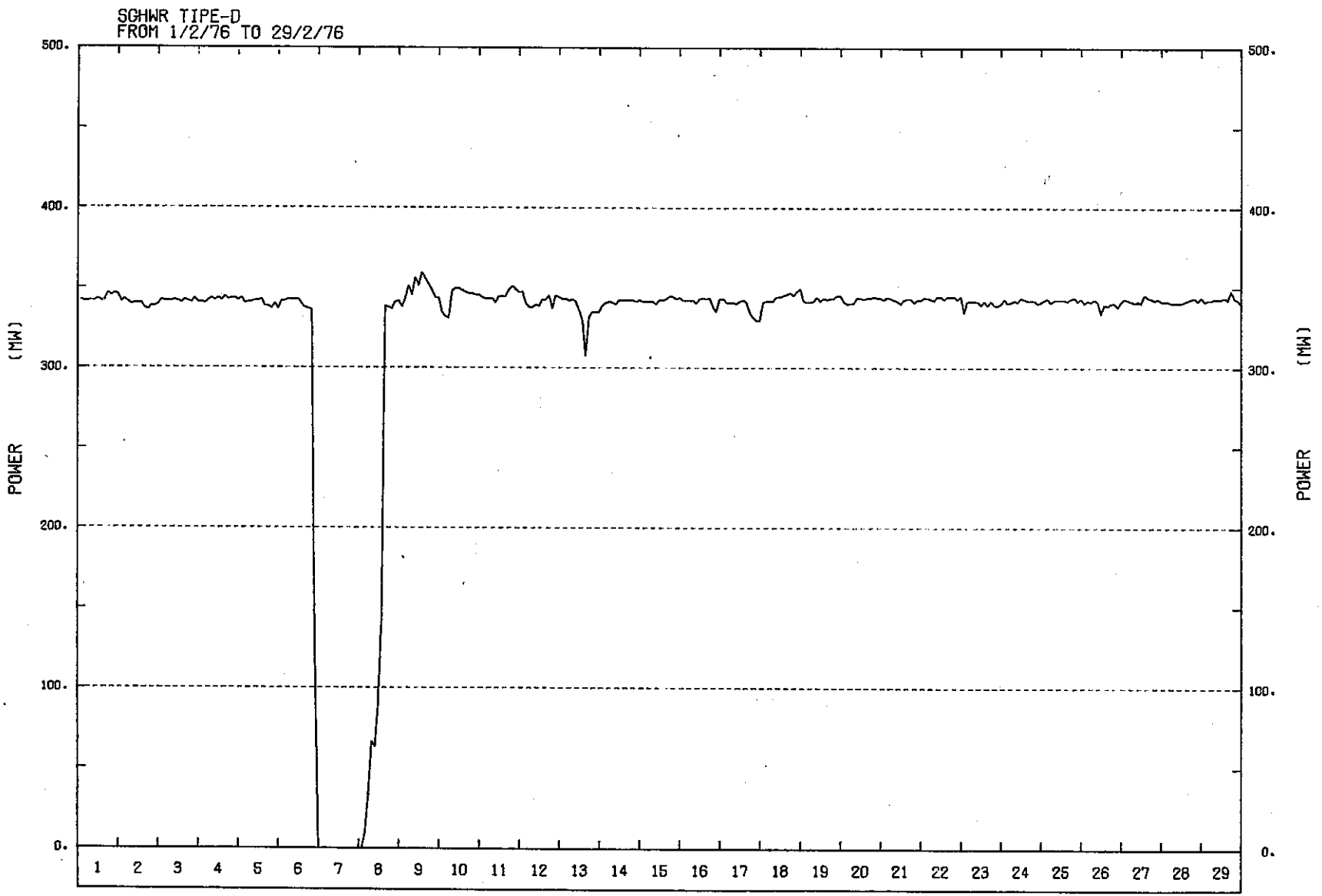
REACTOR POWER HISTORY



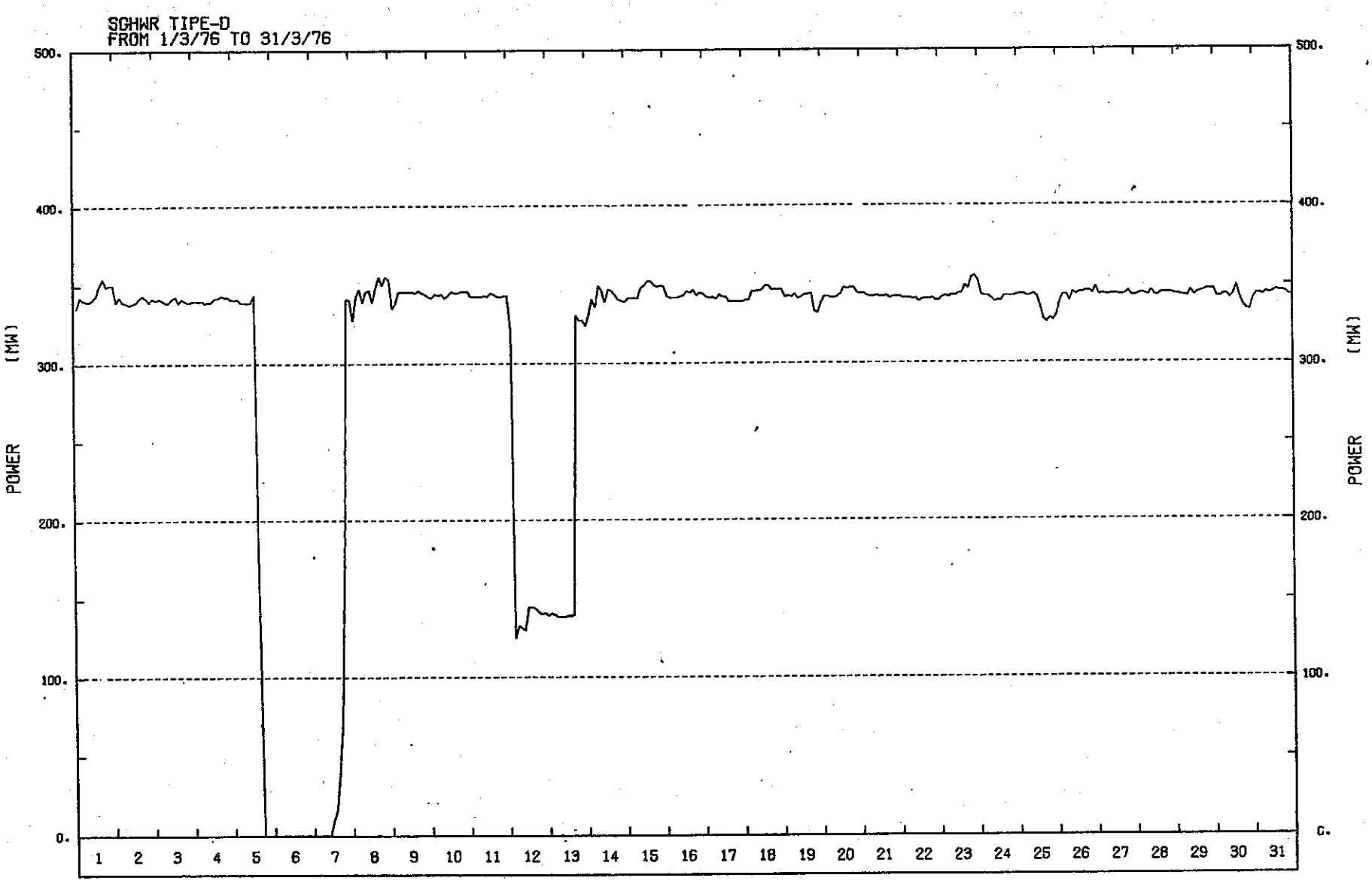
REACTOR POWER HISTORY



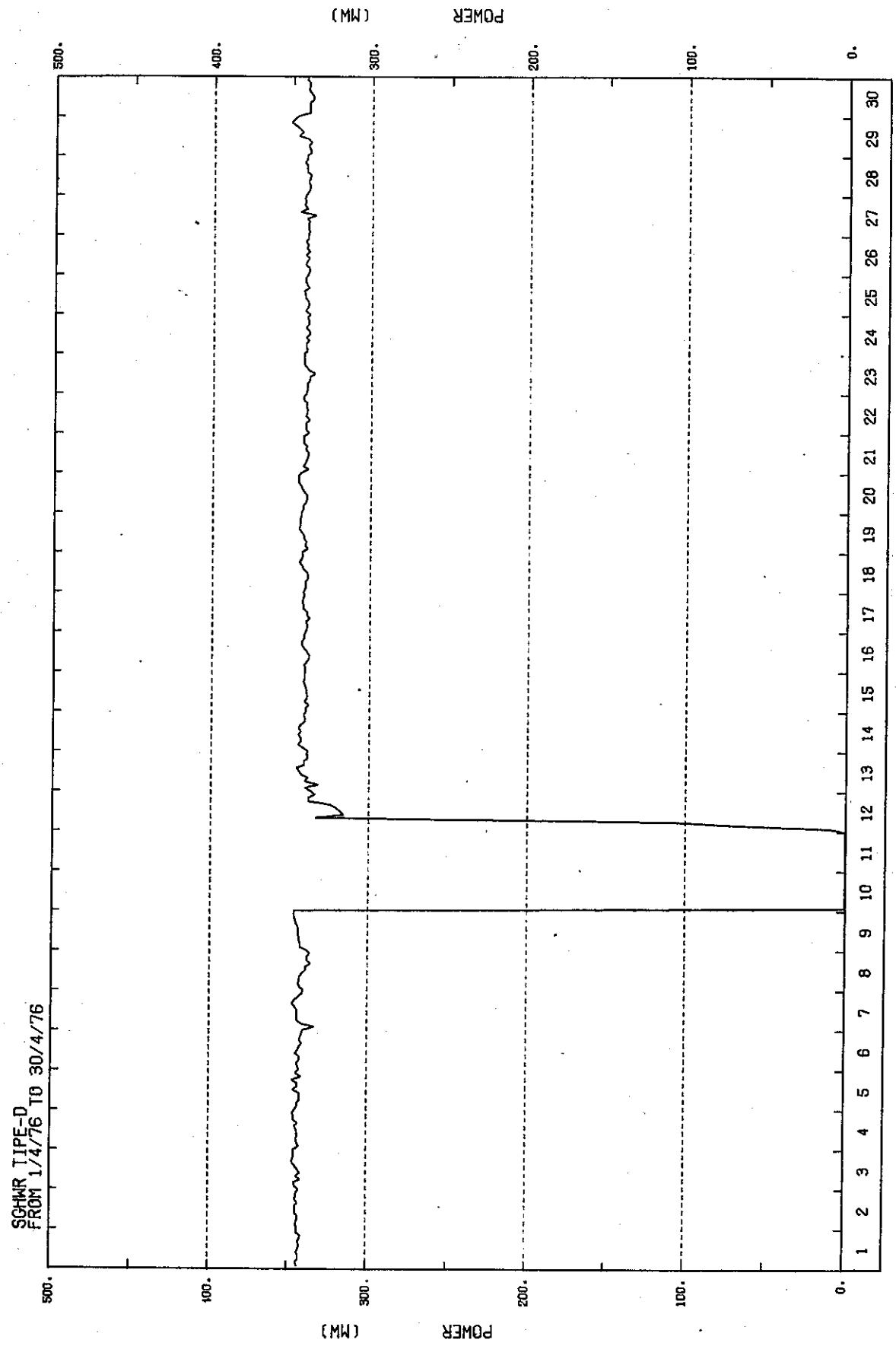
REACTOR POWER HISTORY



REACTOR POWER HISTORY



REACTOR POWER HISTORY



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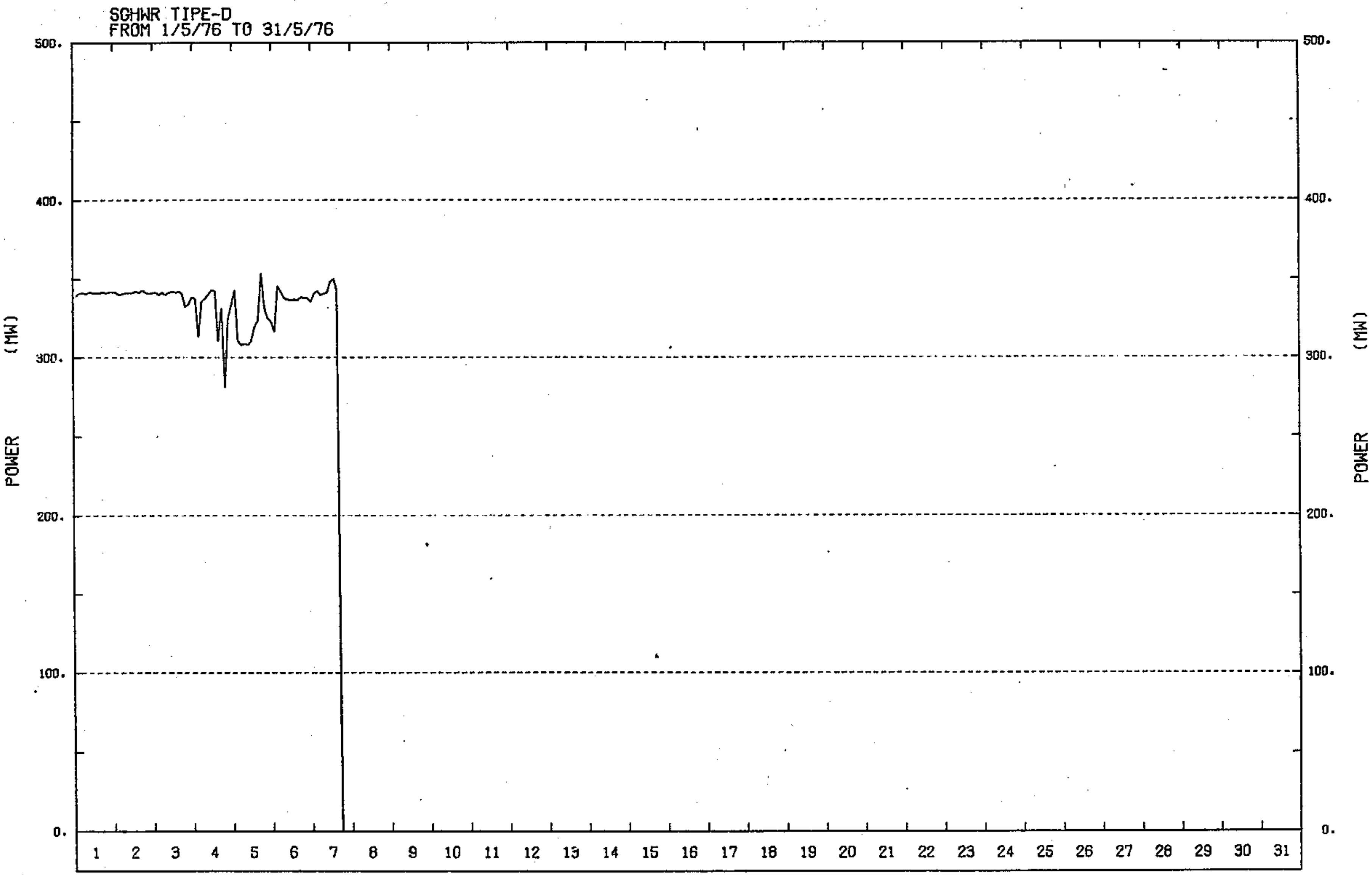

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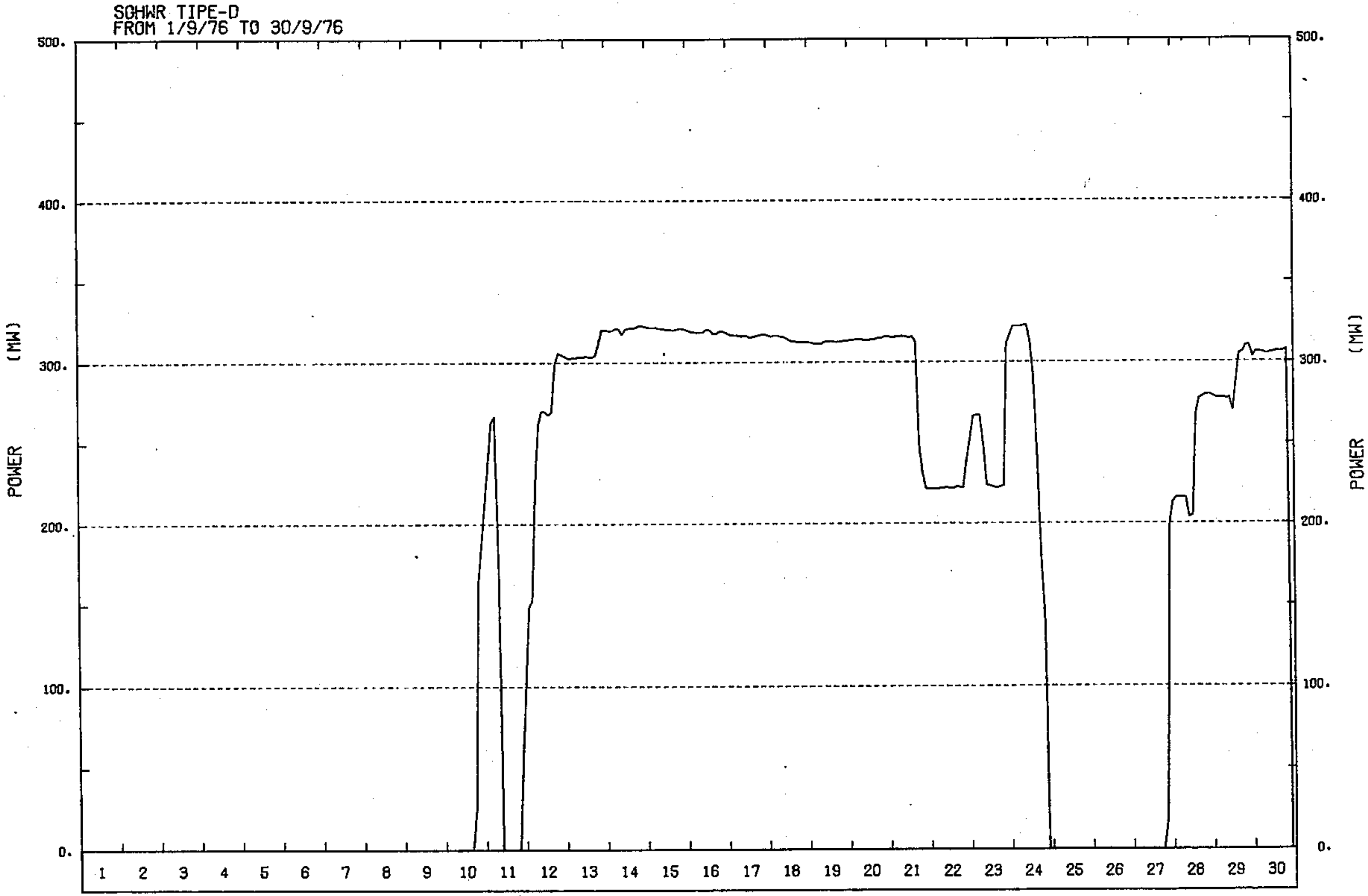

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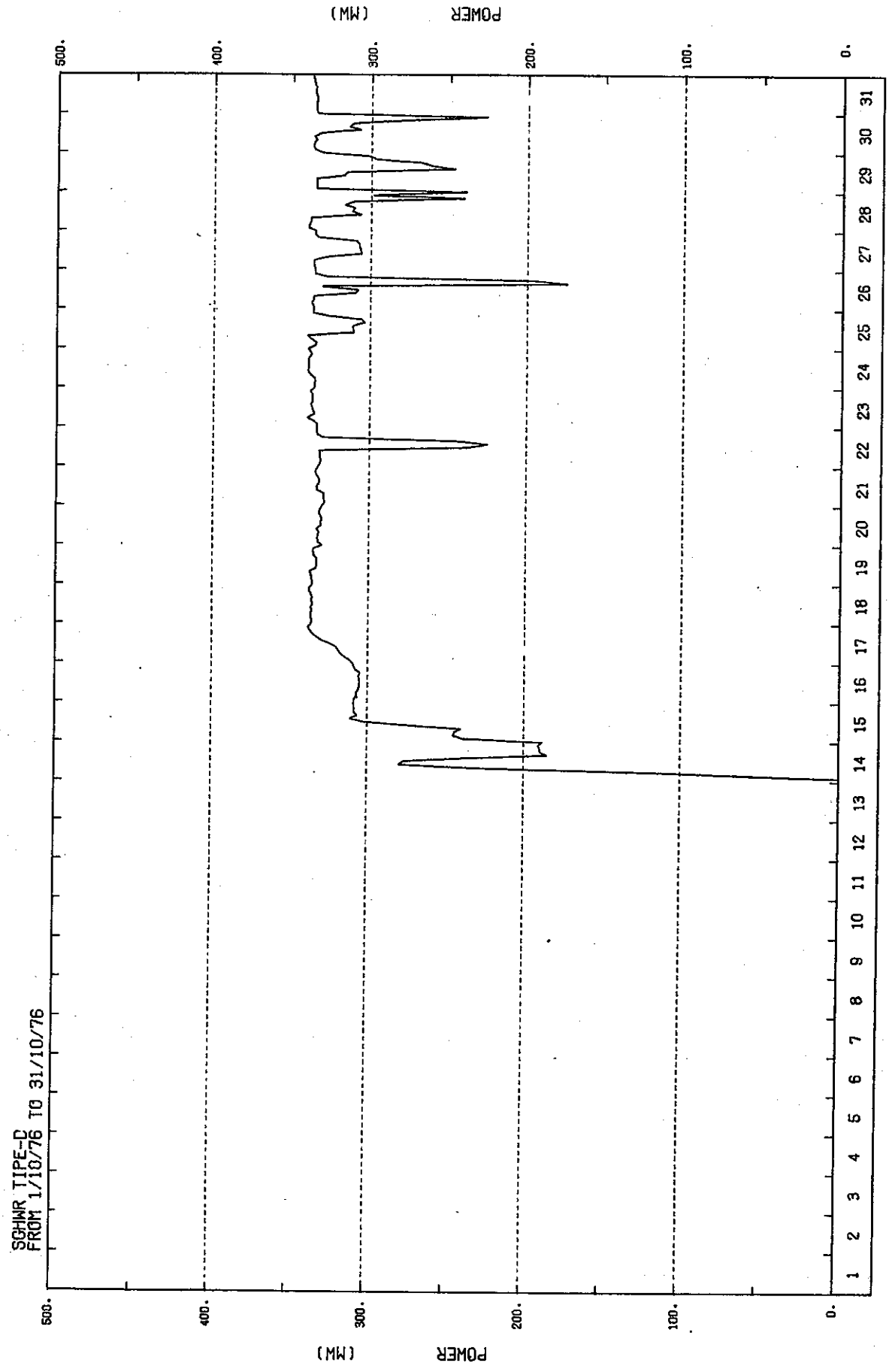
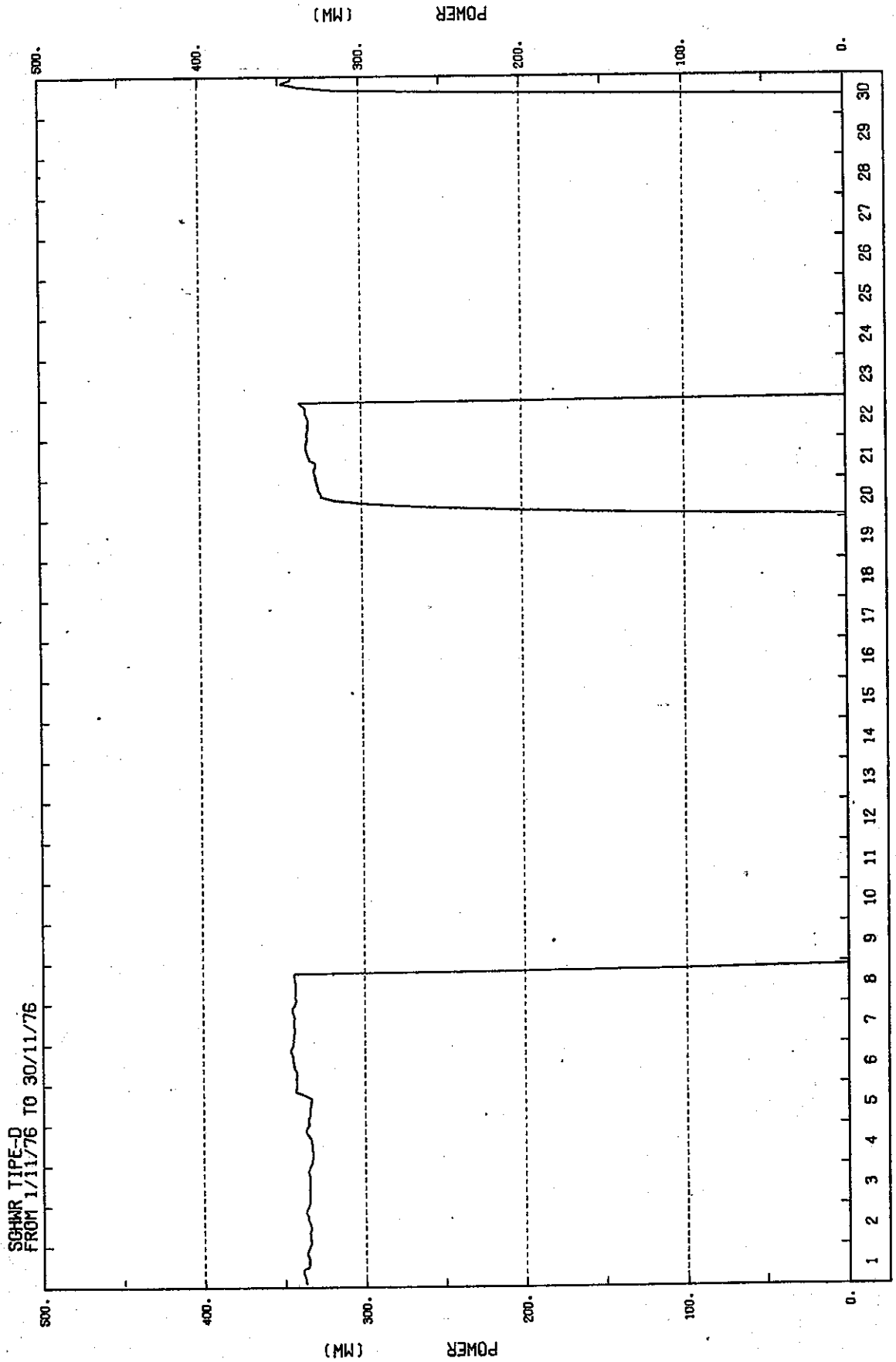
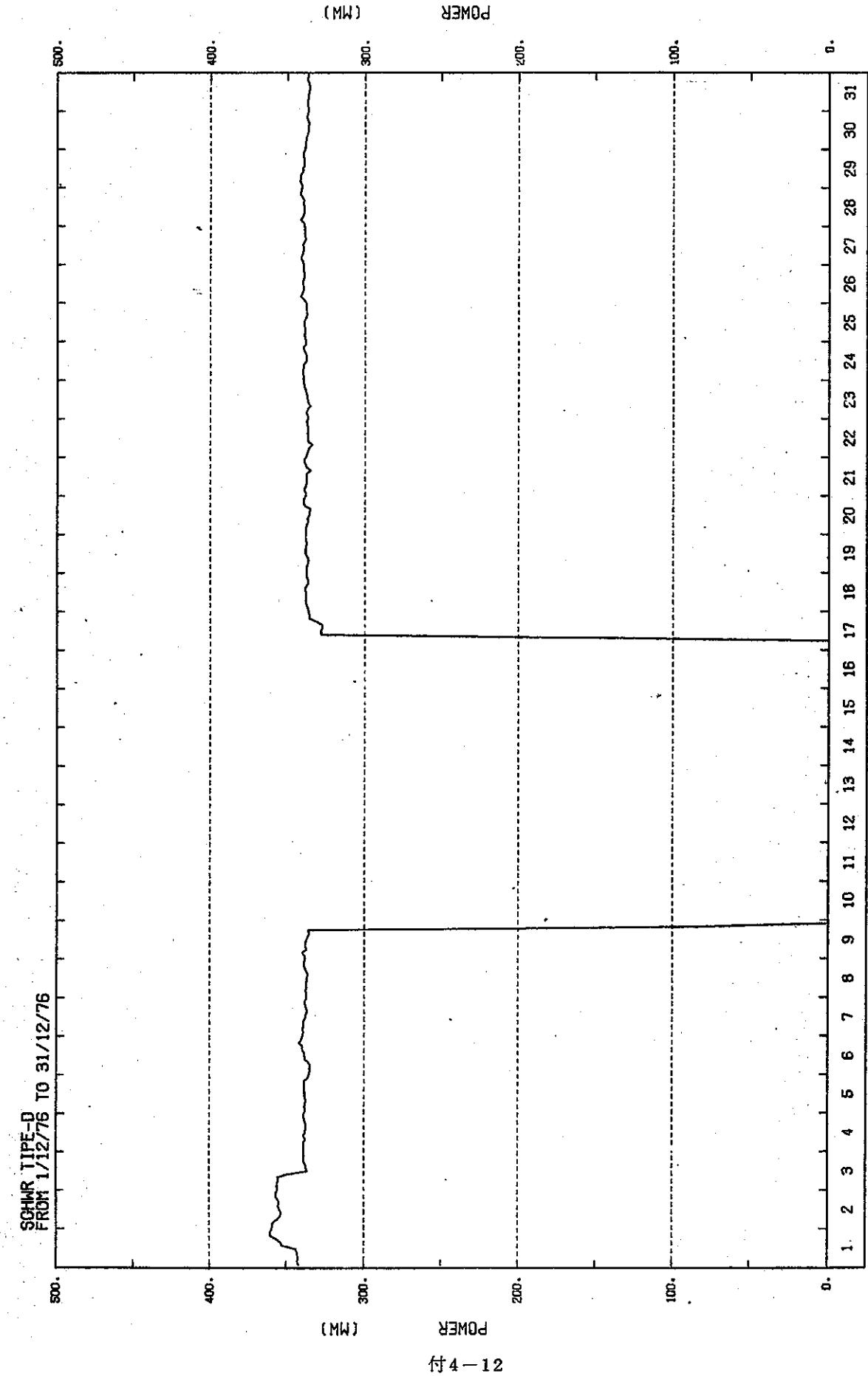
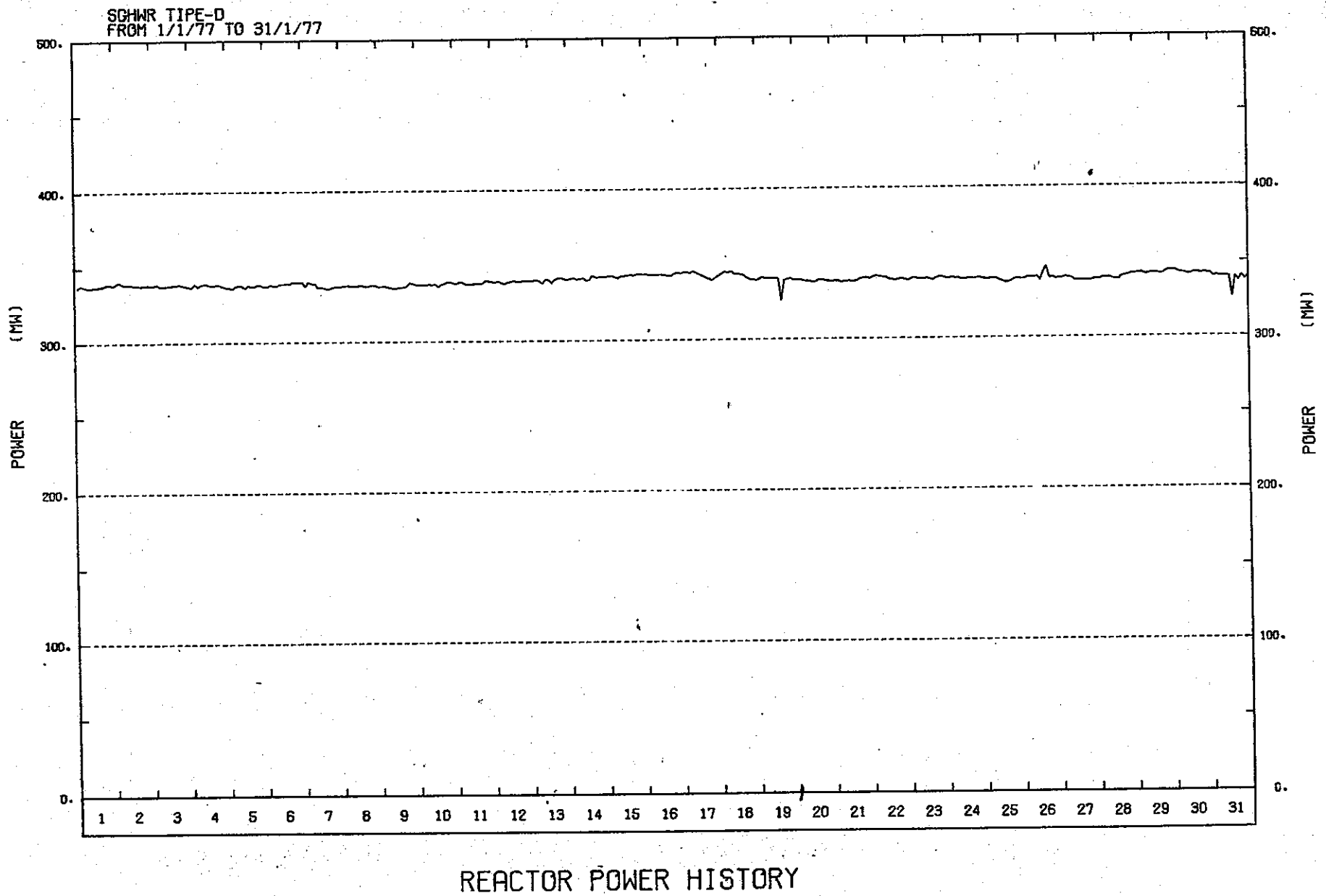

REACTOR POWER HISTORY
SGHWR TIPE-D
FROM 1/10/76 TO 31/10/76
POWER (MW)
500.
400.
300.
200.
100.
0.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

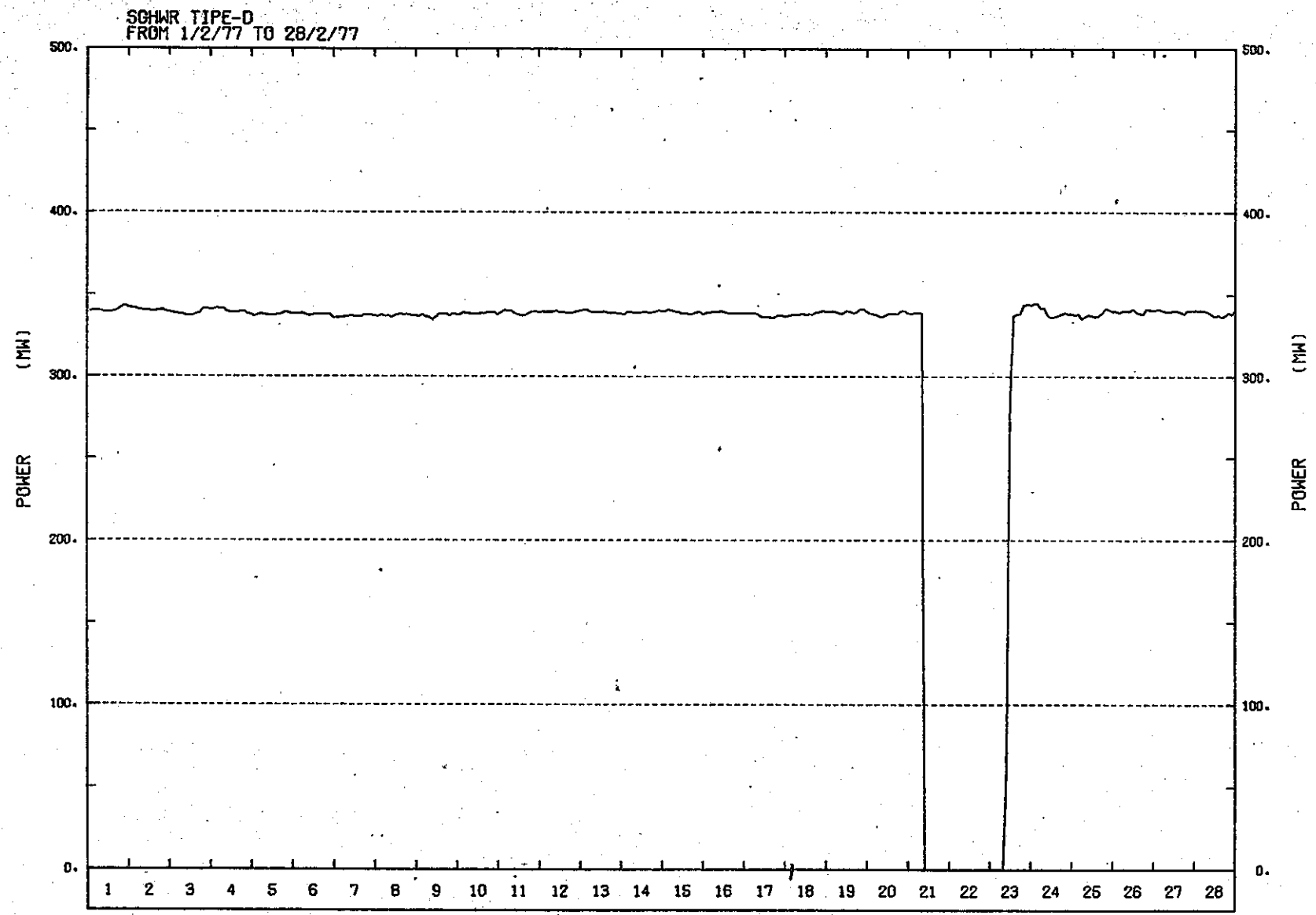


REACTOR POWER HISTORY

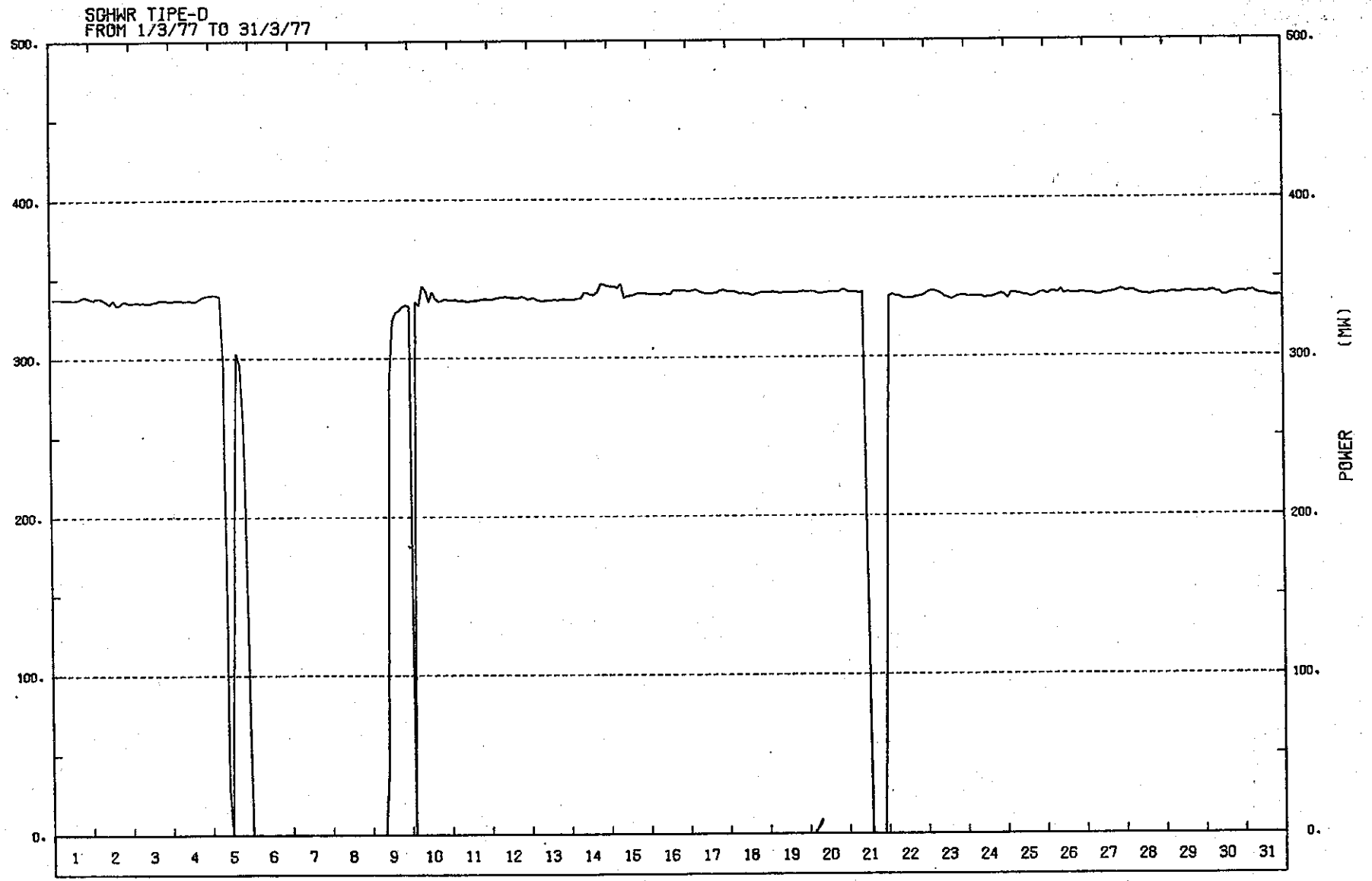


REACTOR POWER HISTORY

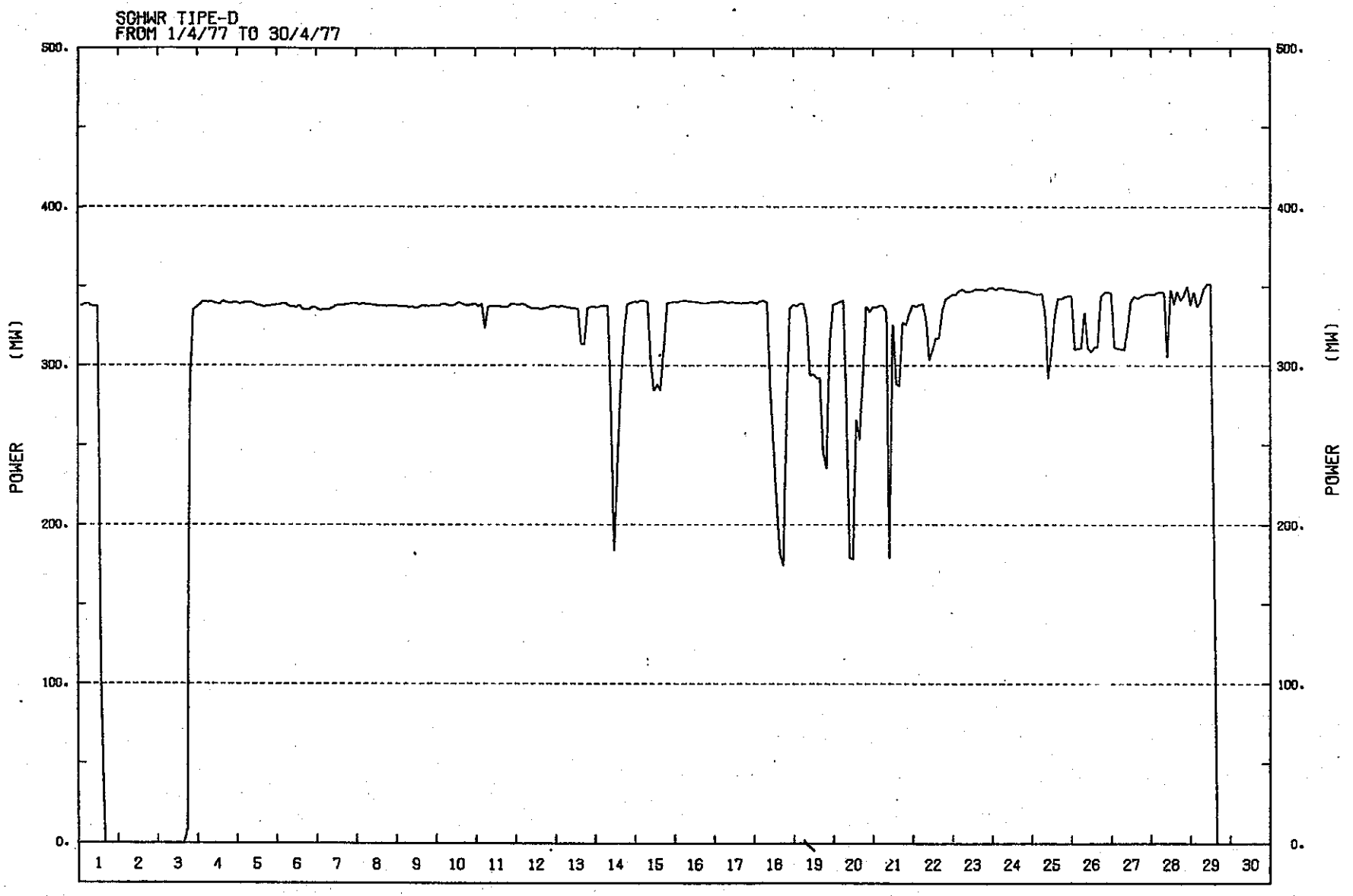

SGHWR TIPE-D
FROM 1/1/77 TO 31/1/77
500.
400.
300.
200.
100.
0.
POWER (MW)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
REACTOR POWER HISTORY



REACTOR POWER HISTORY



REACTOR POWER HISTORY



REACTOR POWER HISTORY

付 録 5

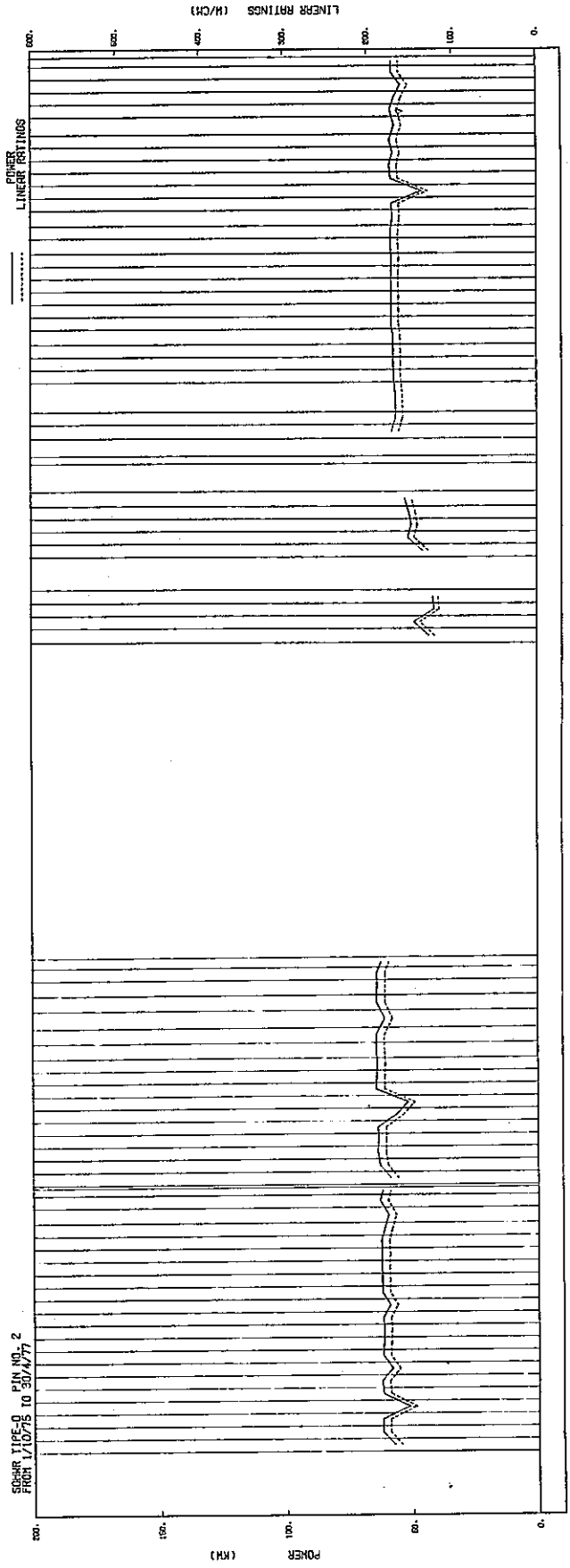
ROD POWER HISTORY AND LINEAR RATINGS

ROD No. 2 (A2)

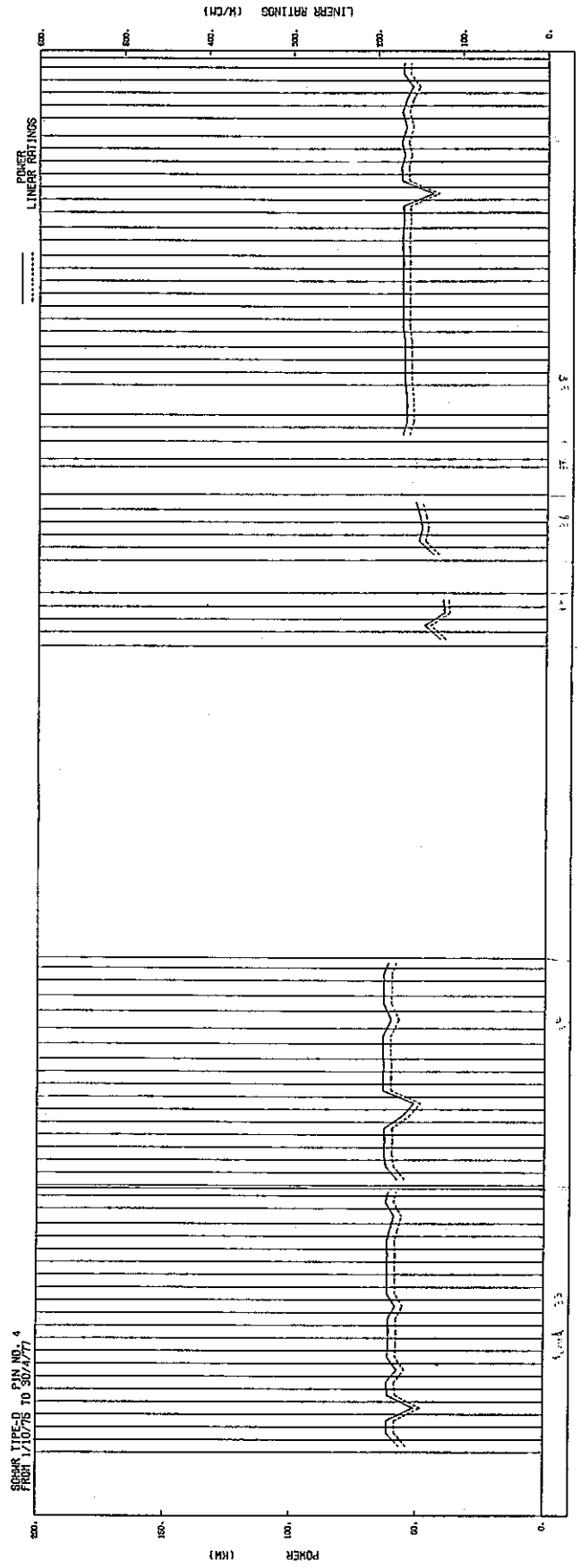
No. 4 (A4)

No. 10 (B6)

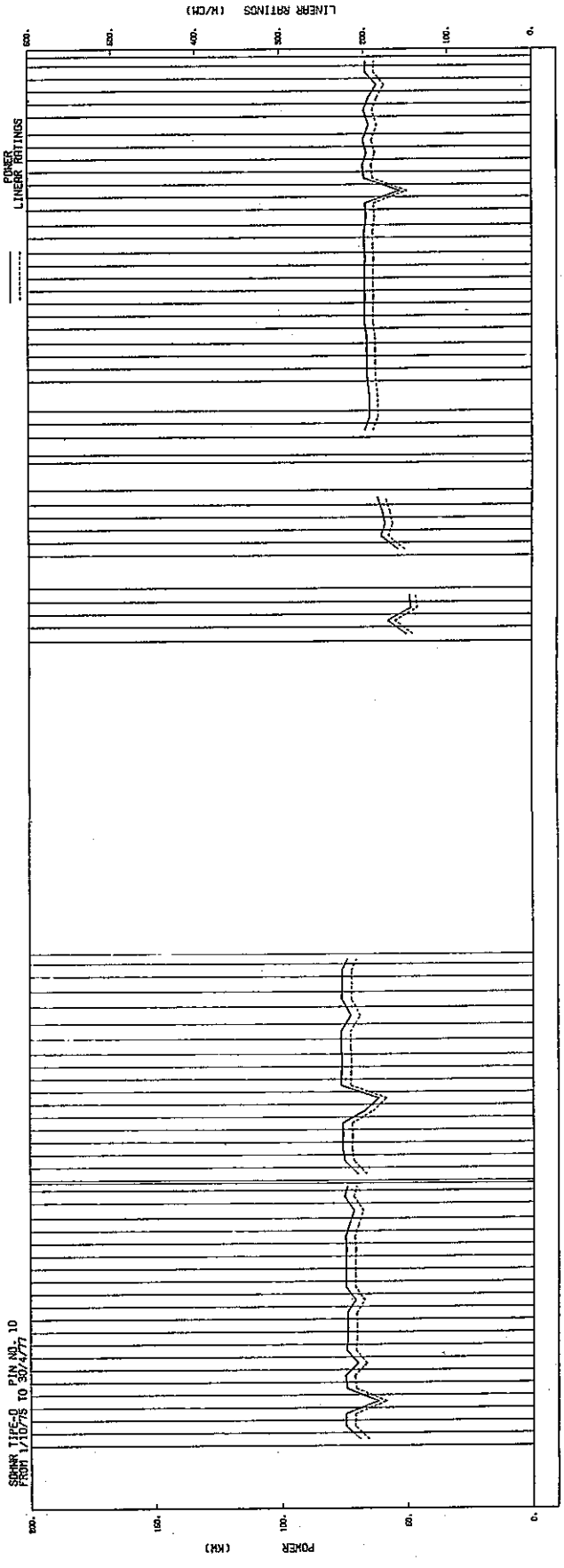
No. 22 (C10)



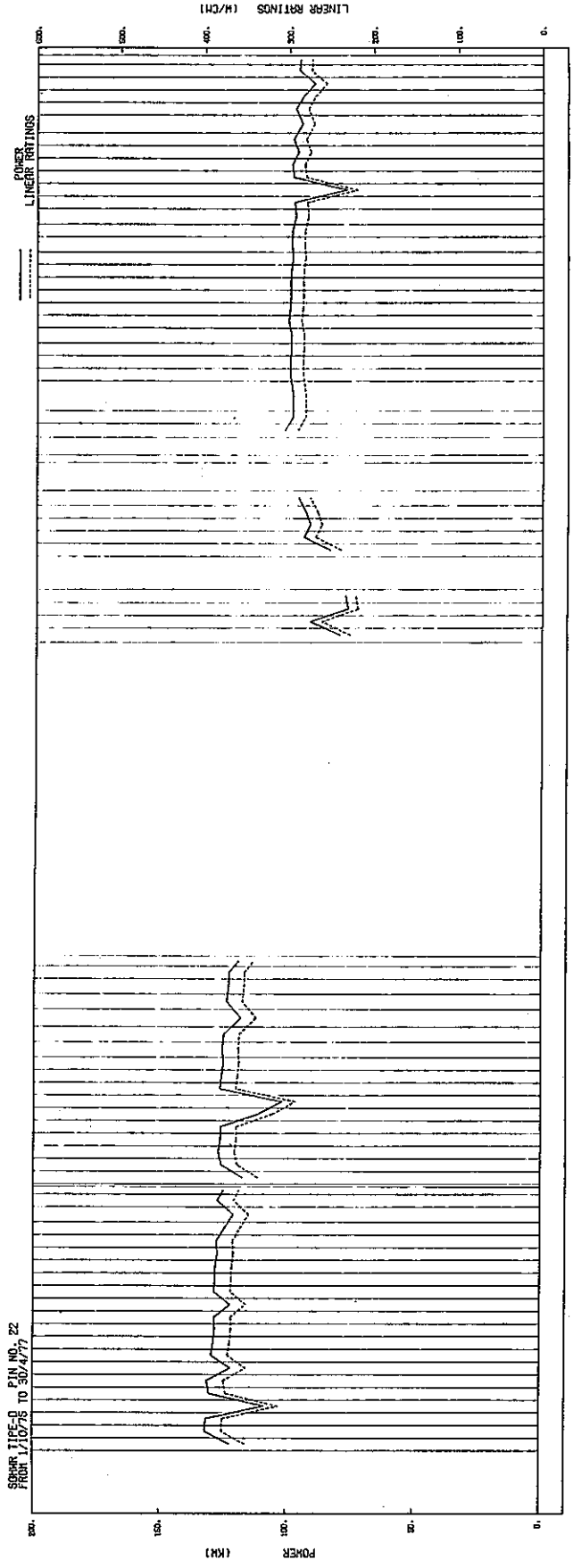
ROD POWER HISTORY AND LINEAR RATINGS



ROD POWER HISTORY AND LINEAR RATINGS



ROD POWER HISTORY AND LINEAR RATINGS


LINEAR RATINGS (W/CM)
POWER
LINEAR RATINGS
SOHHR TYPE-D PIN NO. 22
FROM 1/10/75 TO 30/4/77
POWER (KW)
ROD POWER HISTORY AND LINEAR RATINGS

付 録 6

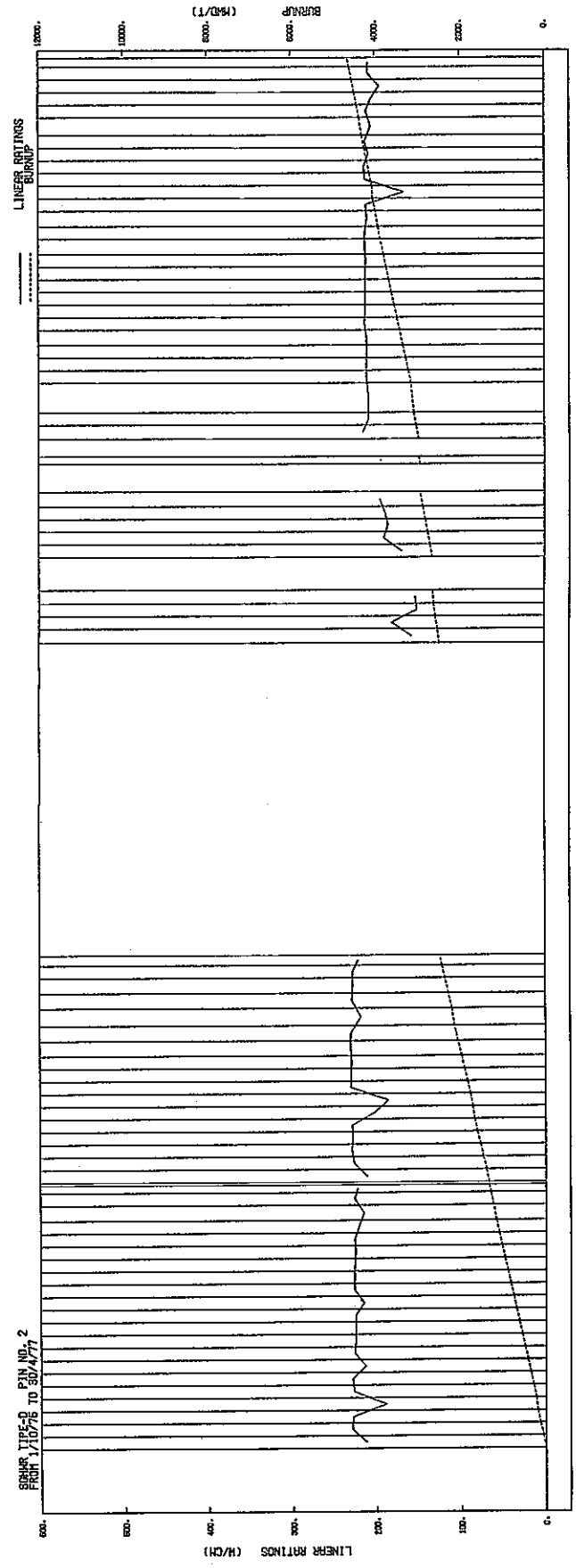
ROD PEAK LINEAR RATINGS AND BURNUP

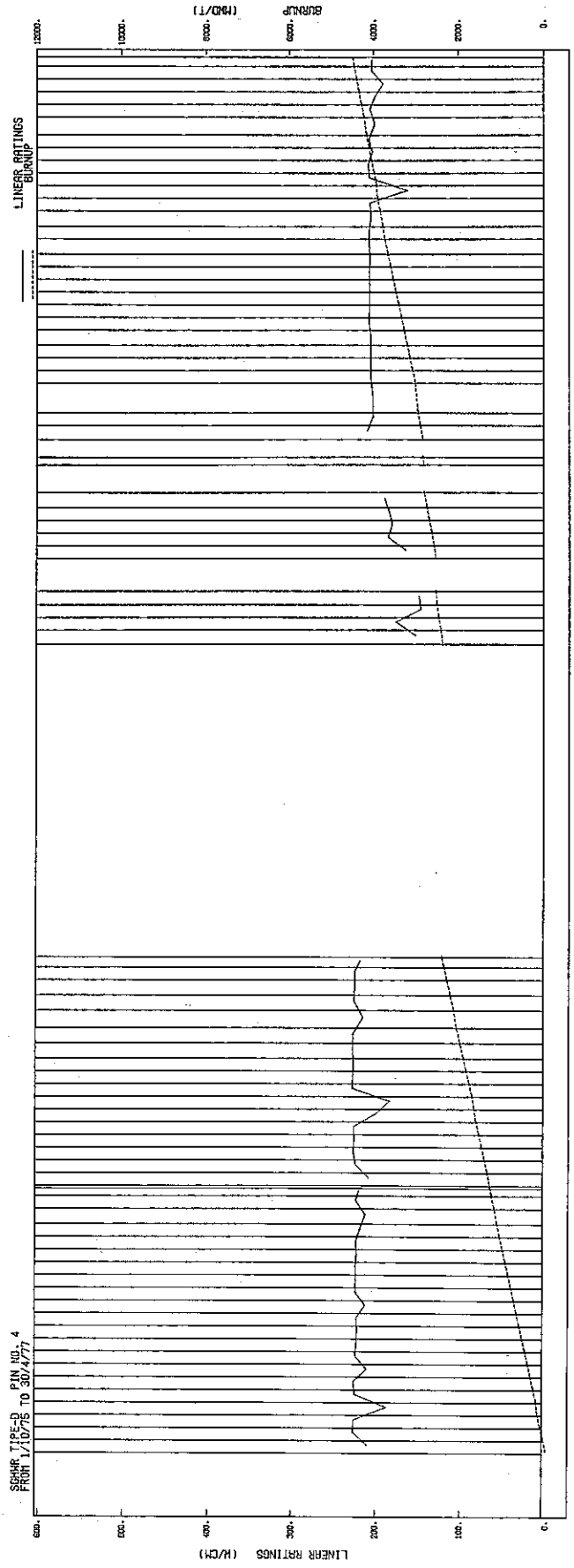
ROD No. 2 (A 2)

No. 4 (A 4)

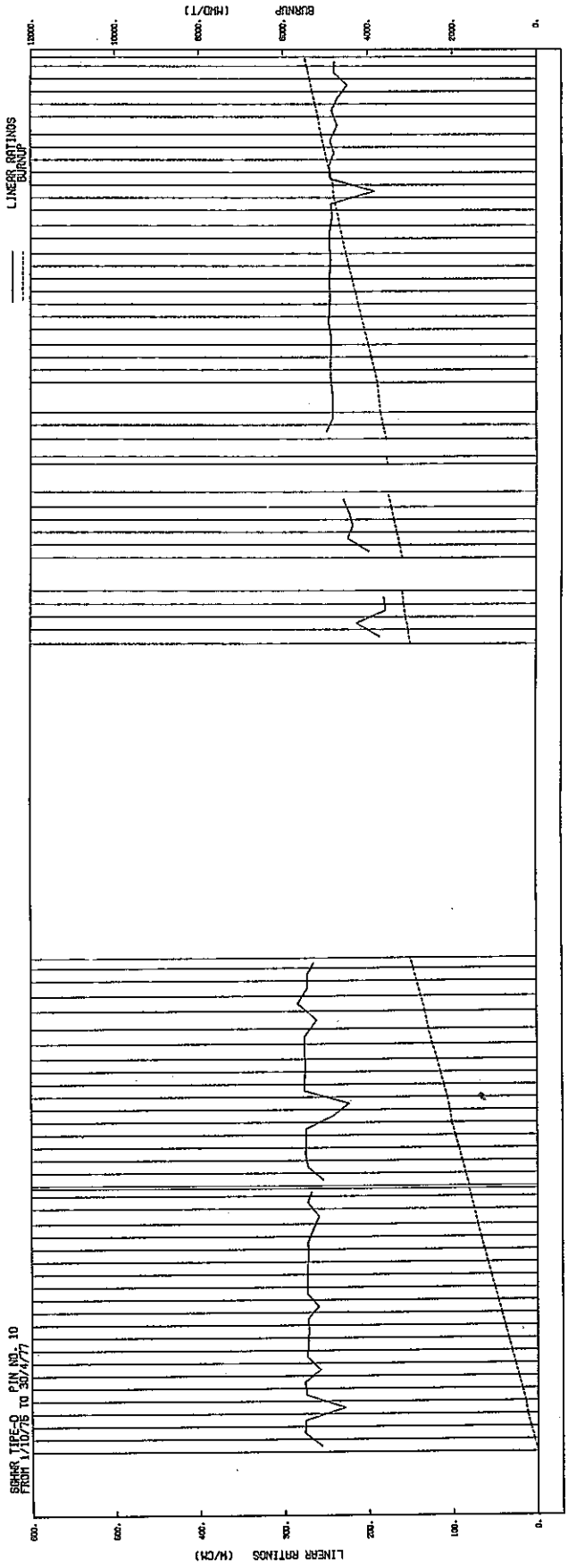
No. 10 (B 6)

No. 22 (C 10)

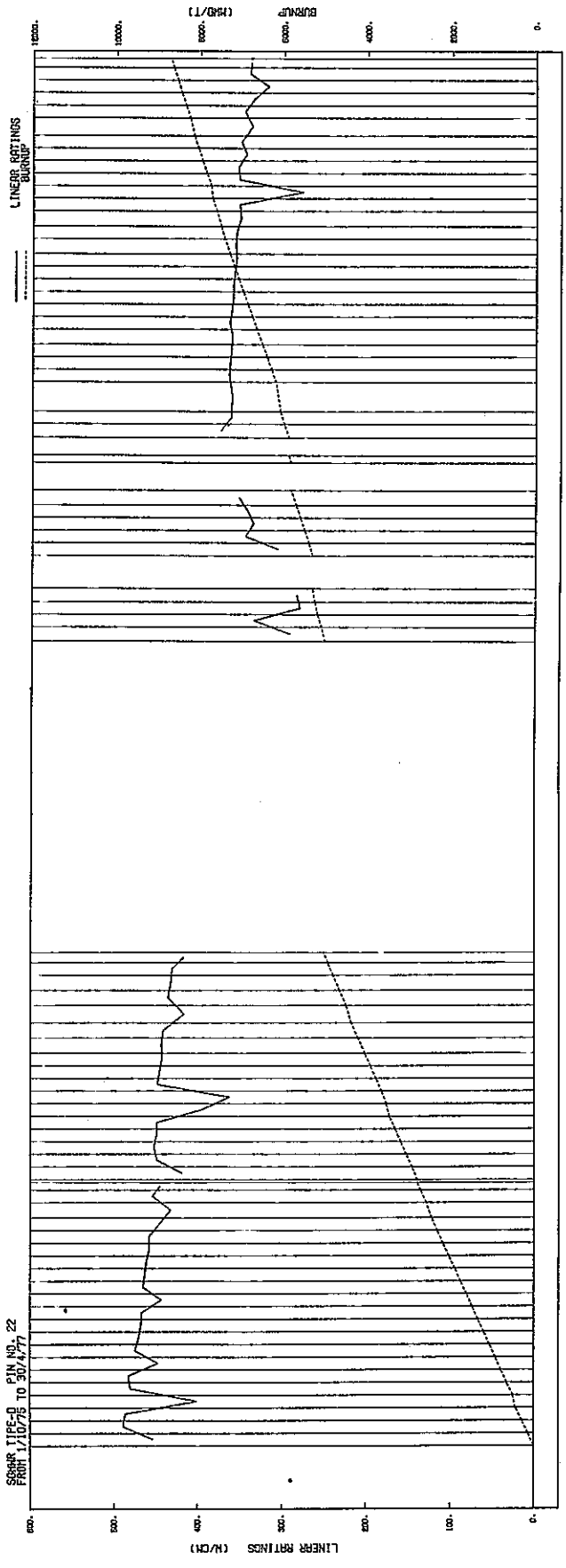

ROD PEAK LINEAR RATINGS AND BURNUP
LINEAR RATINGS (W/CM)
BURNUP (MWD/T)
LINEAR RATINGS
BURNUP
SENHR TIPE-D PIN NO. 2
FROM 1/10/76 TO 30/4/77



ROD PEAK LINEAR RATINGS AND BURNUP



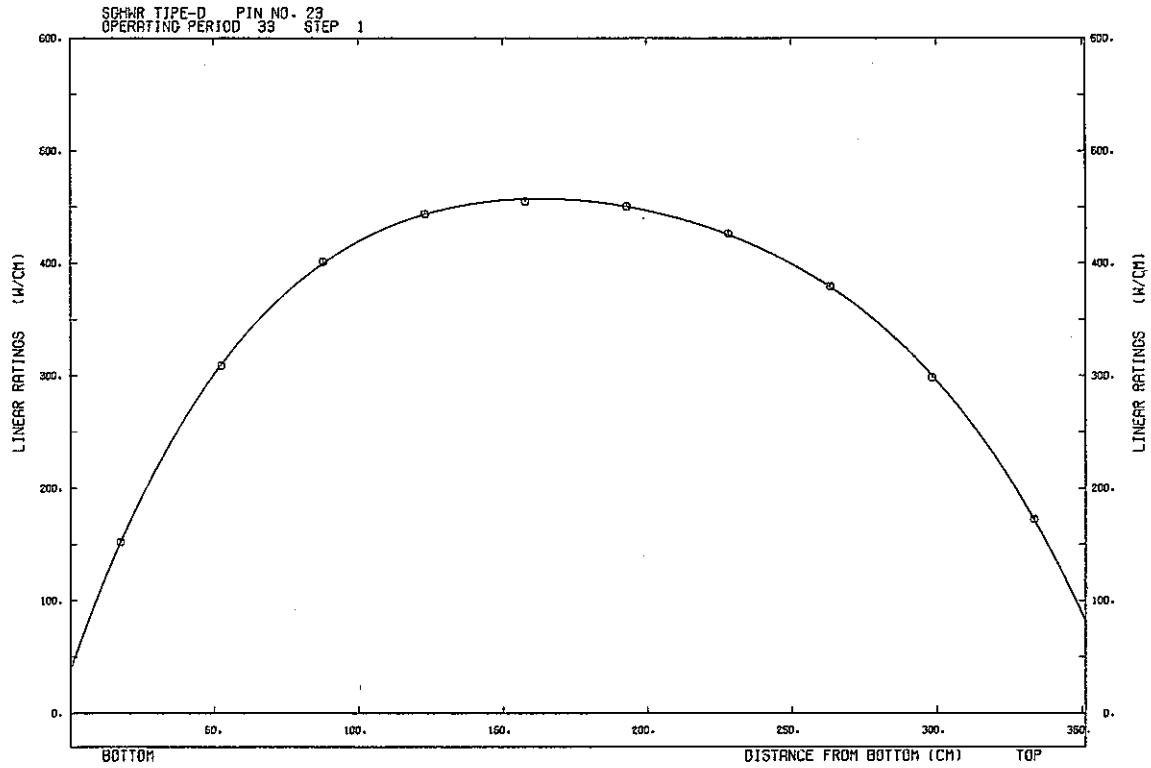
ROD PEAK LINEAR RATINGS AND BURNUP


ROD PEAK LINEAR RATINGS AND BURNUP
LINEAR RATINGS (KW/CM)
BURNUP (MWD/T)
LINEAR RATINGS
BURNUP
SGHAR TYPE-D
FROM 1/10/75 TO 30/4/77
PIN NO. 22

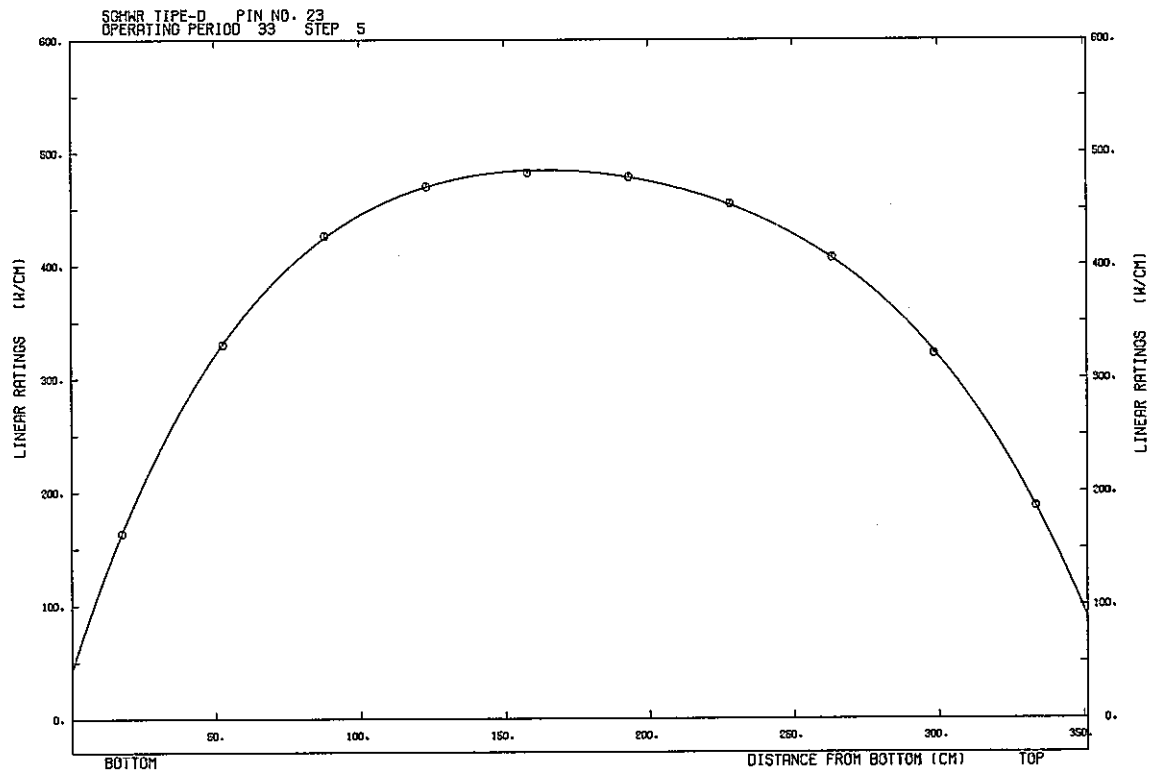
付 録 7

AXIAL ROD POWER DISTRIBUTION OF PIN No.23 (C11)

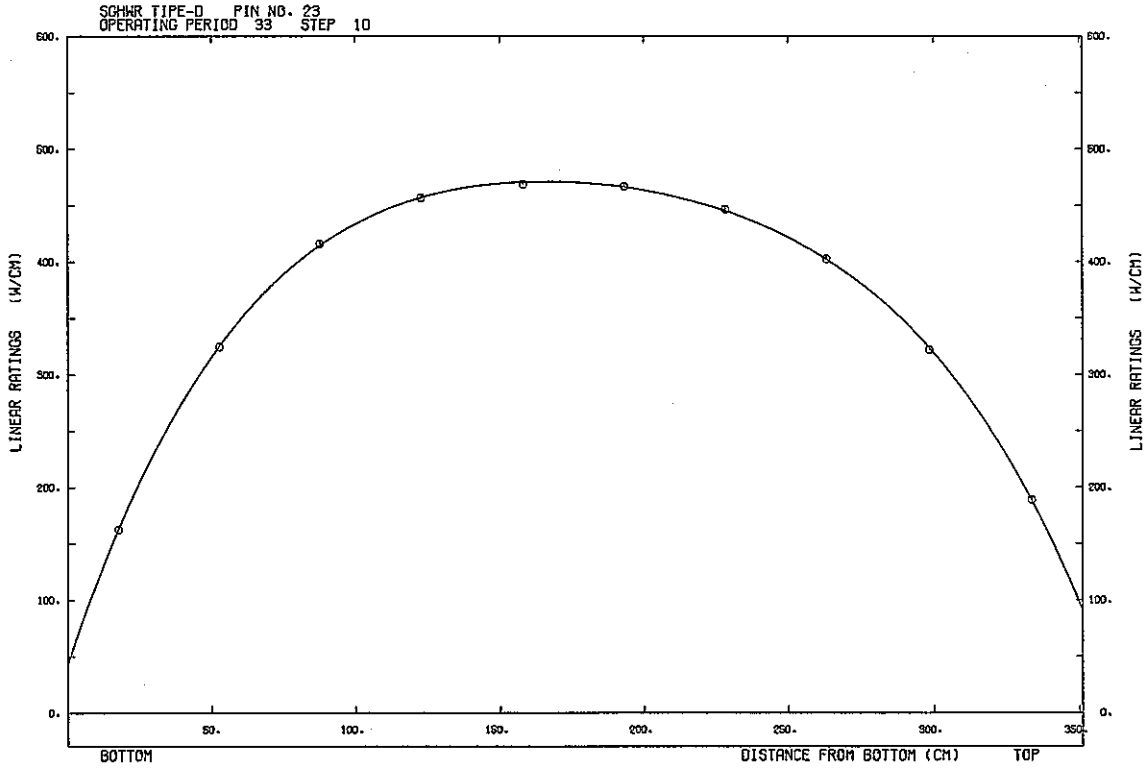
ピン23(C11)の軸方向出力分布をStep 5毎に全照射期間にわたって示したものである。



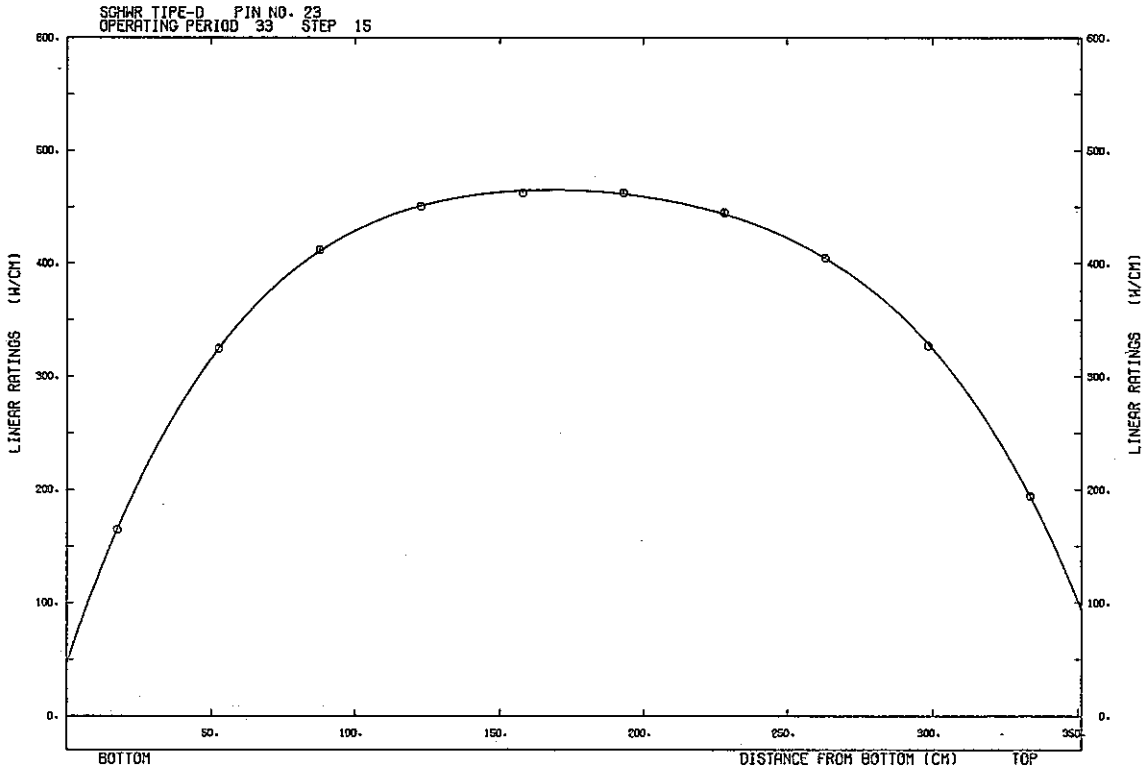
AXIAL ROD POWER DISTRIBUTION



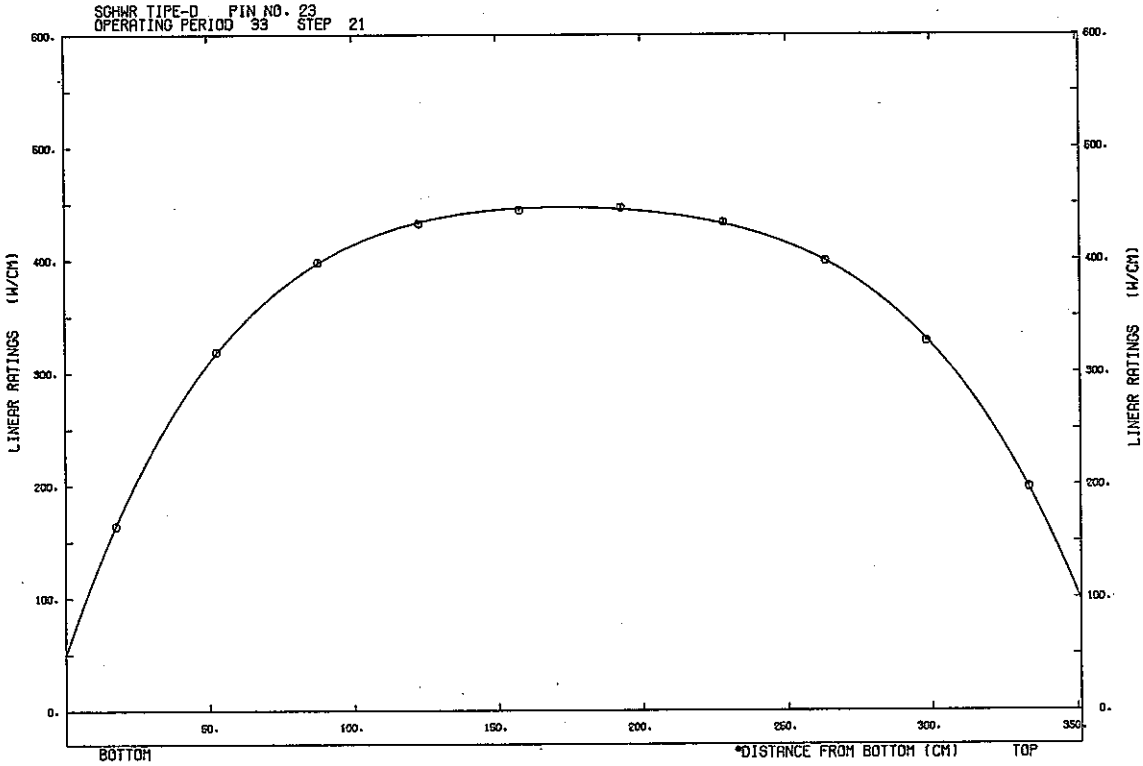
AXIAL ROD POWER DISTRIBUTION



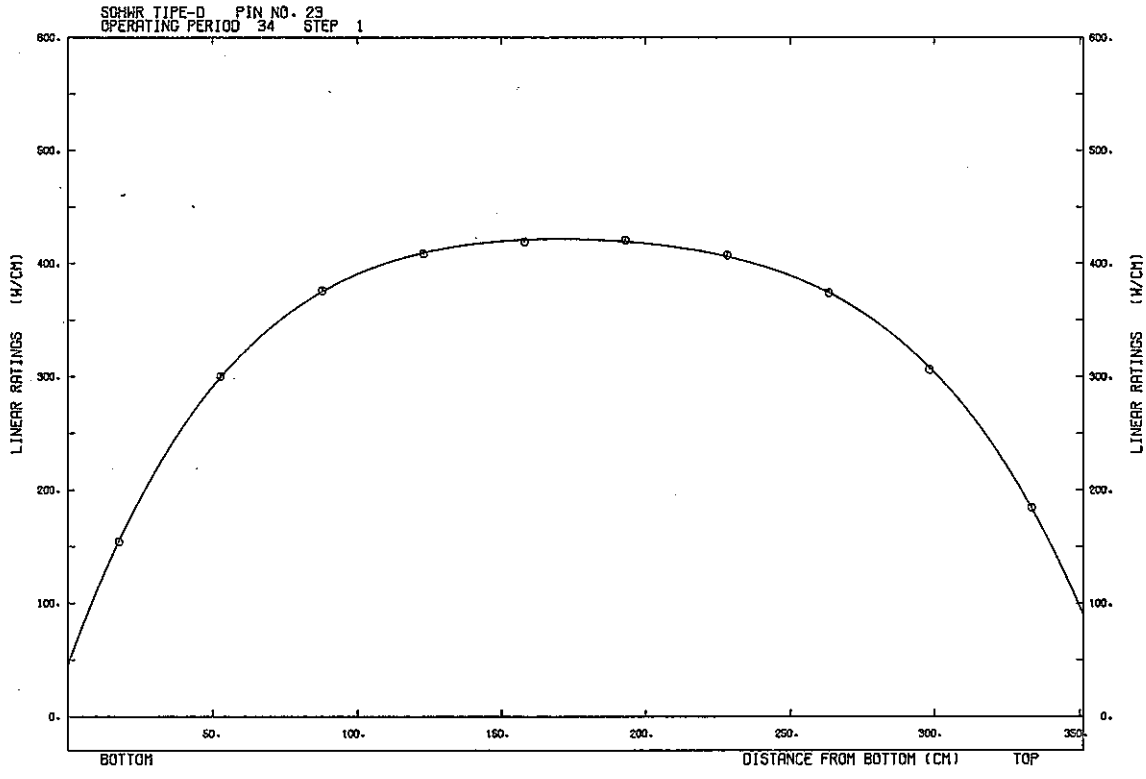
AXIAL ROD POWER DISTRIBUTION



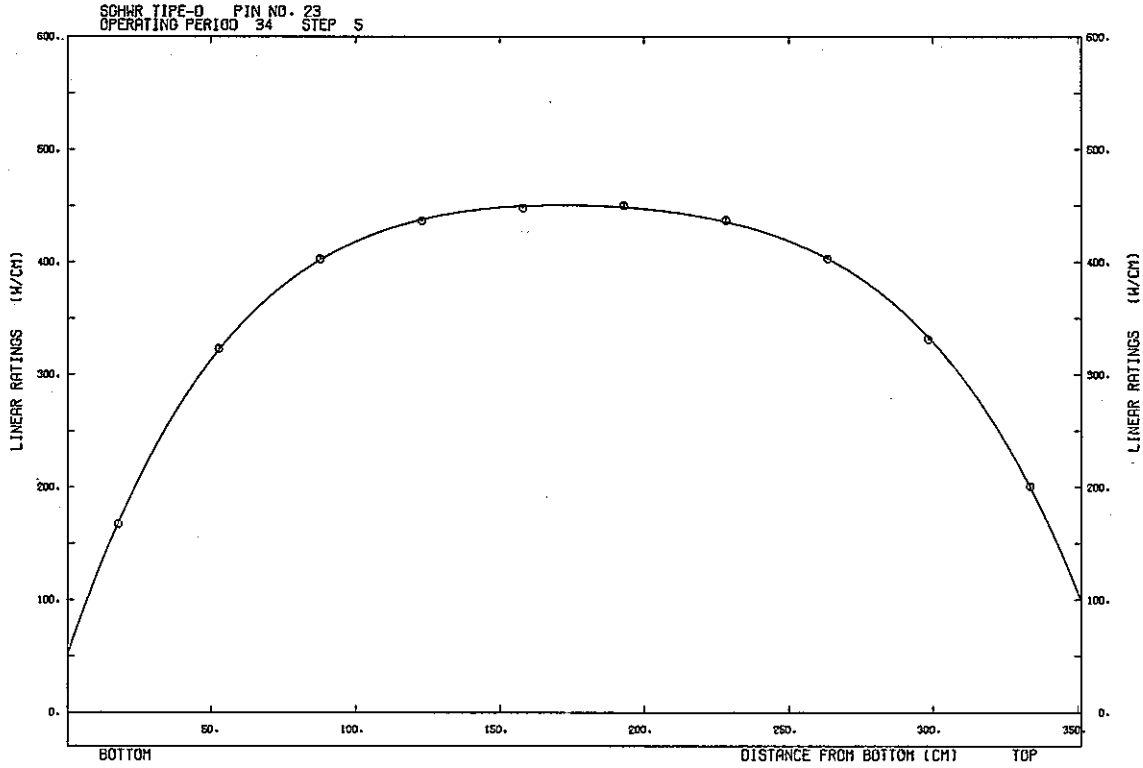
AXIAL ROD POWER DISTRIBUTION



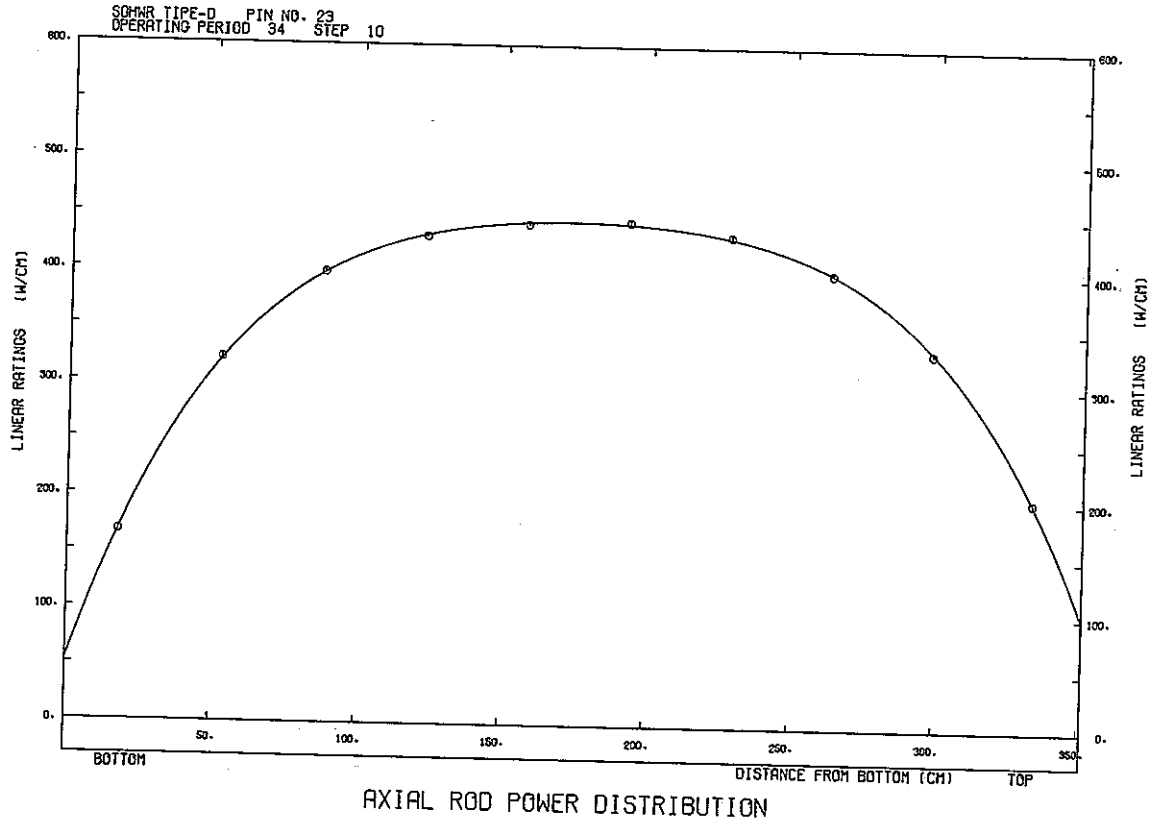
AXIAL ROD POWER DISTRIBUTION



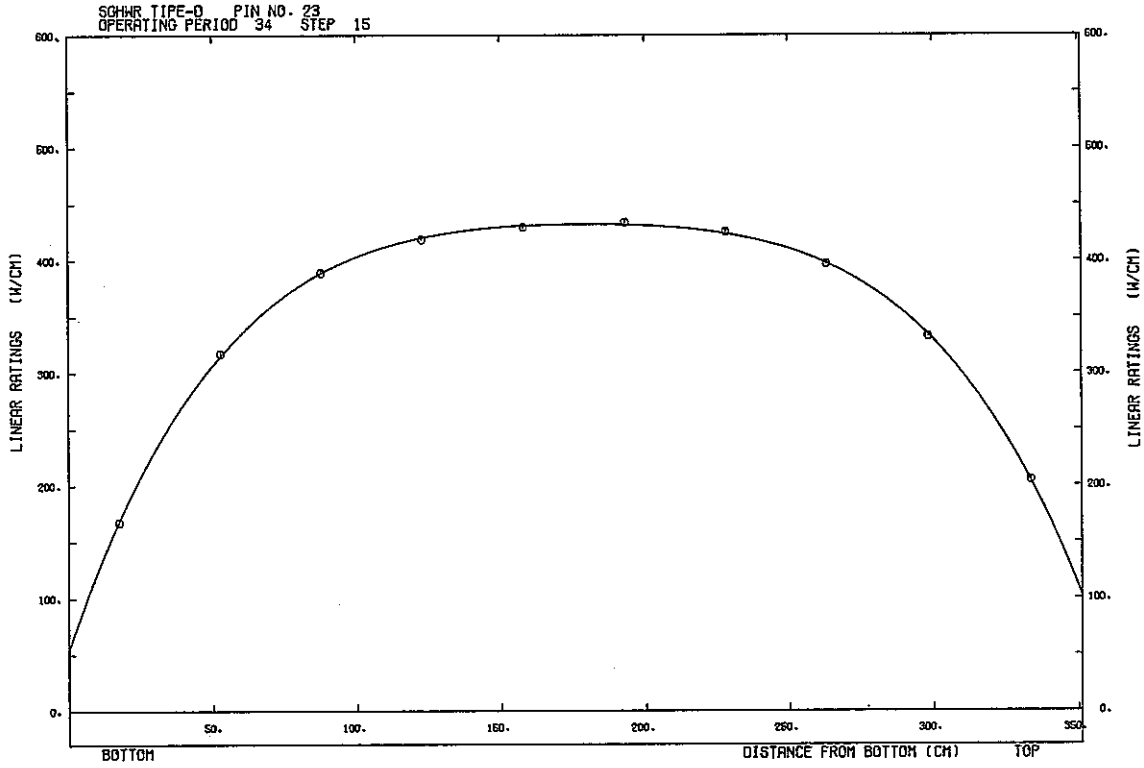
AXIAL ROD POWER DISTRIBUTION



AXIAL ROD POWER DISTRIBUTION



AXIAL ROD POWER DISTRIBUTION



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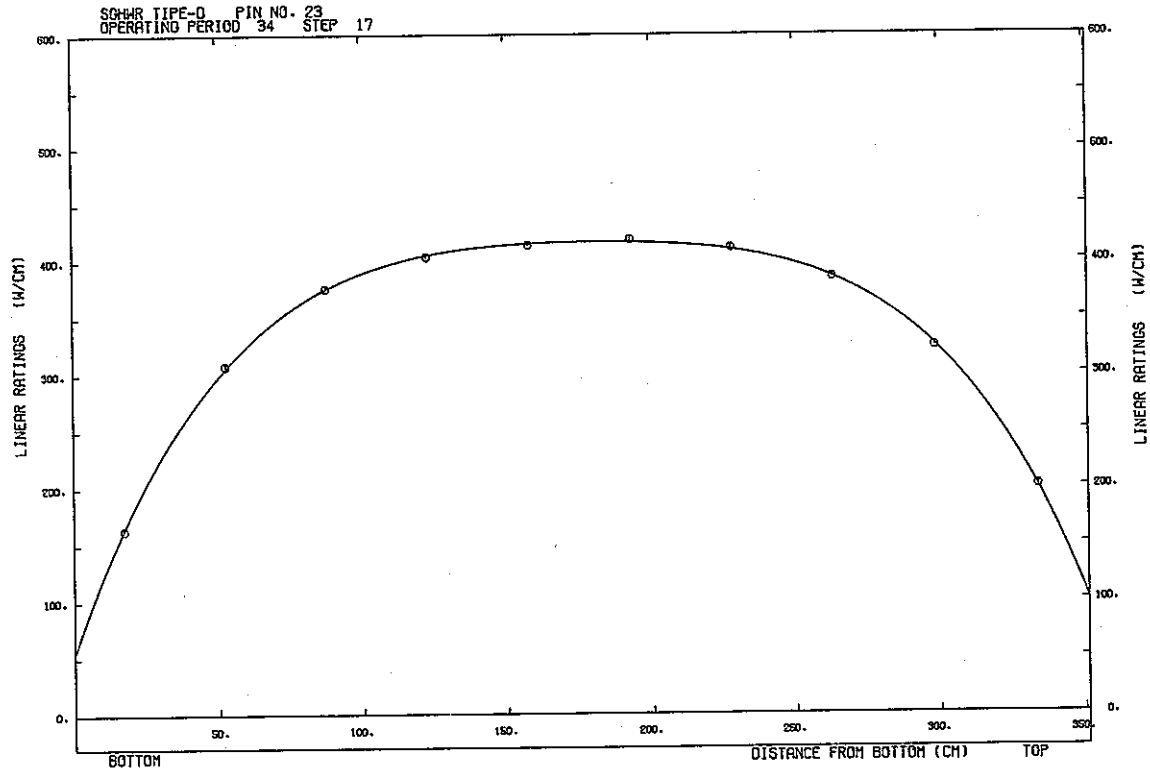
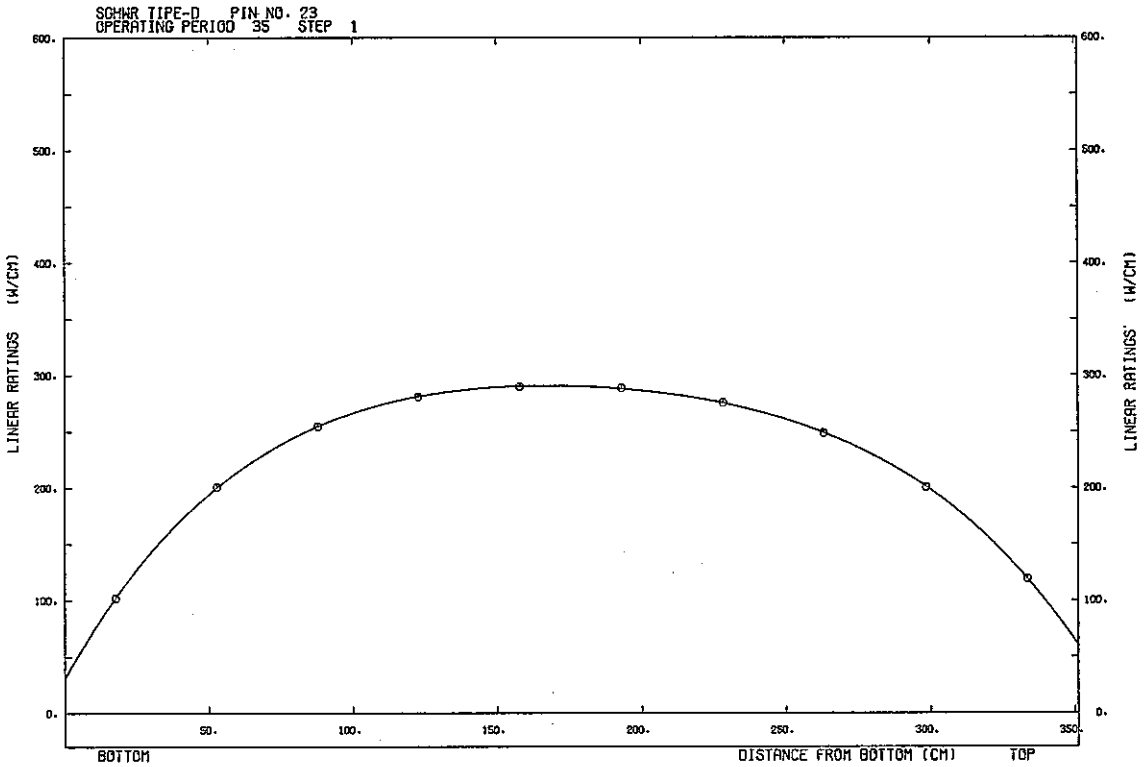
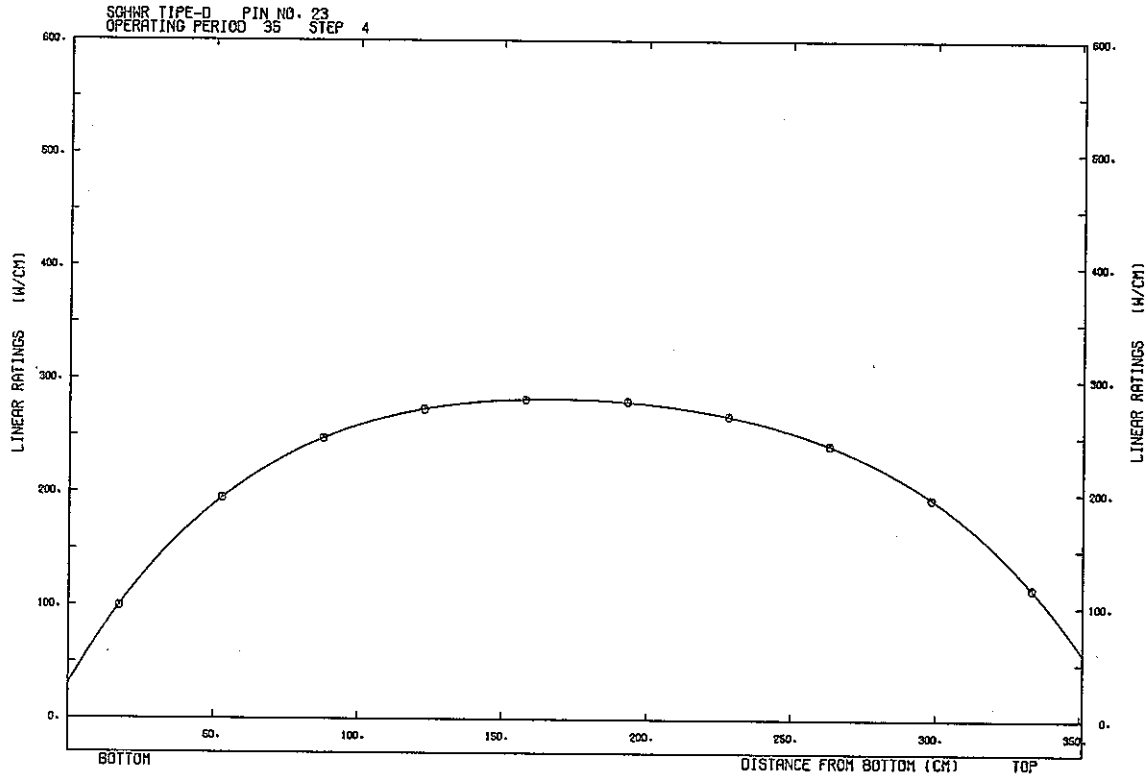


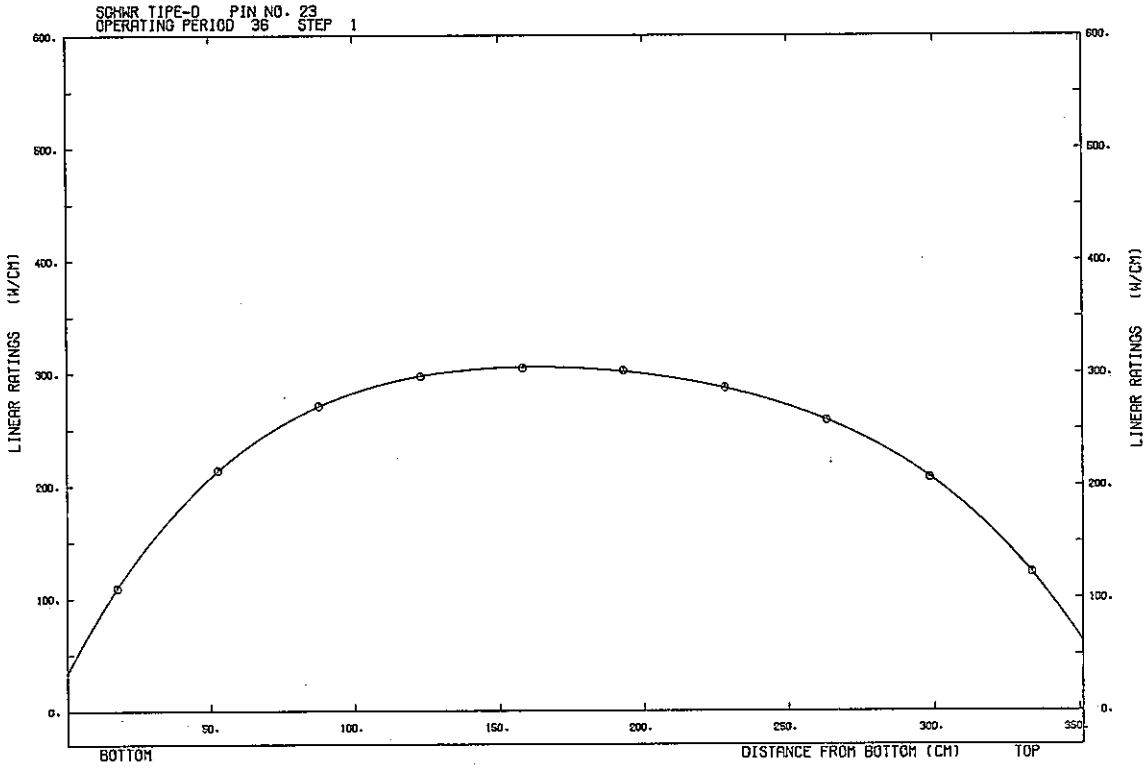
AXIAL ROD POWER DISTRIBUTION



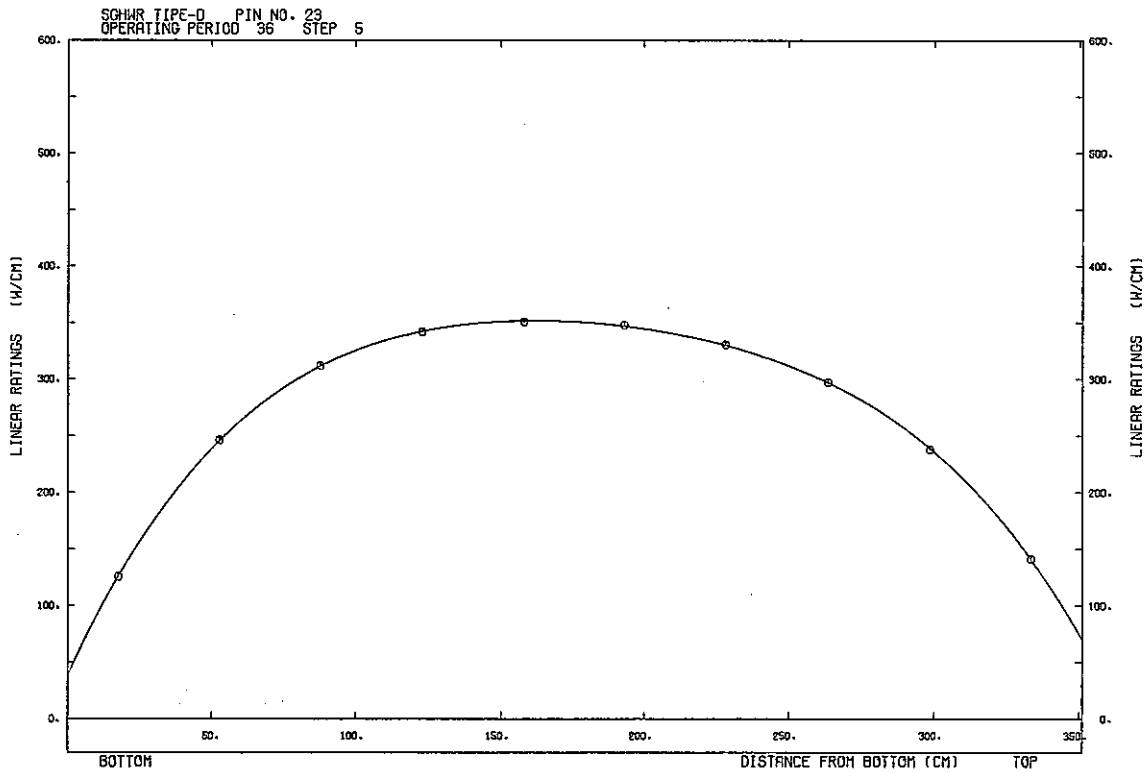
AXIAL ROD POWER DISTRIBUTION



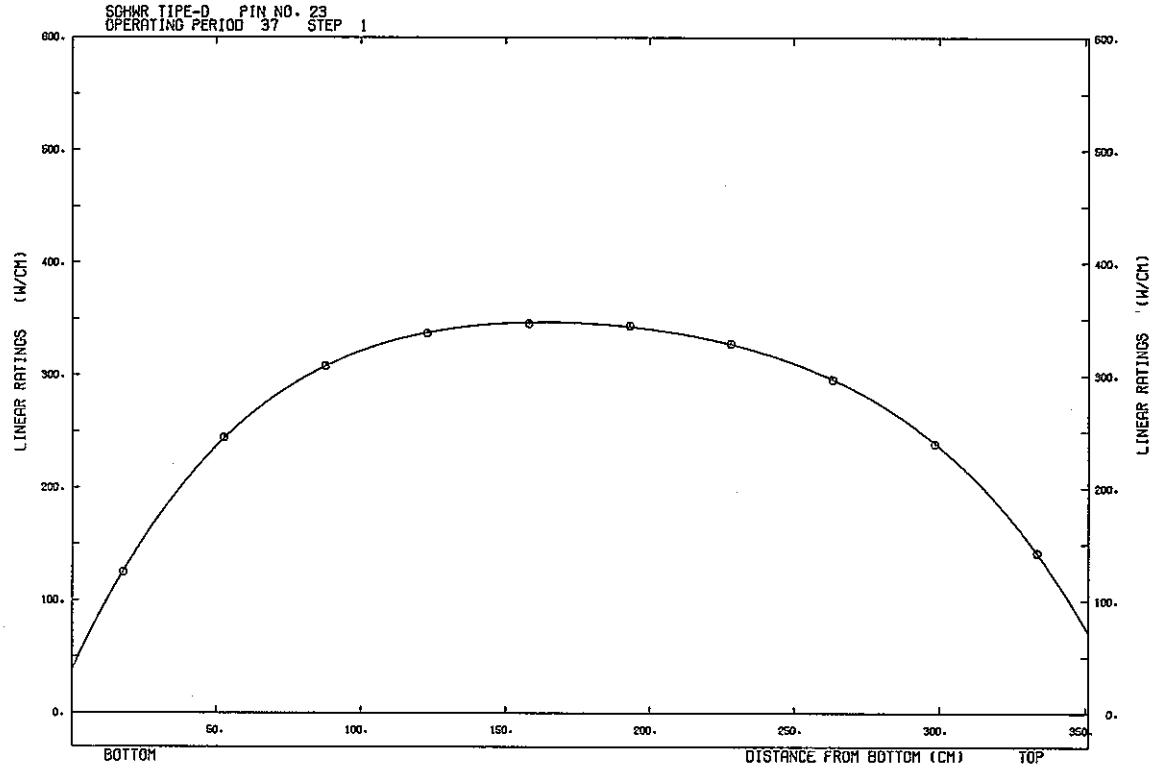
AXIAL ROD POWER DISTRIBUTION



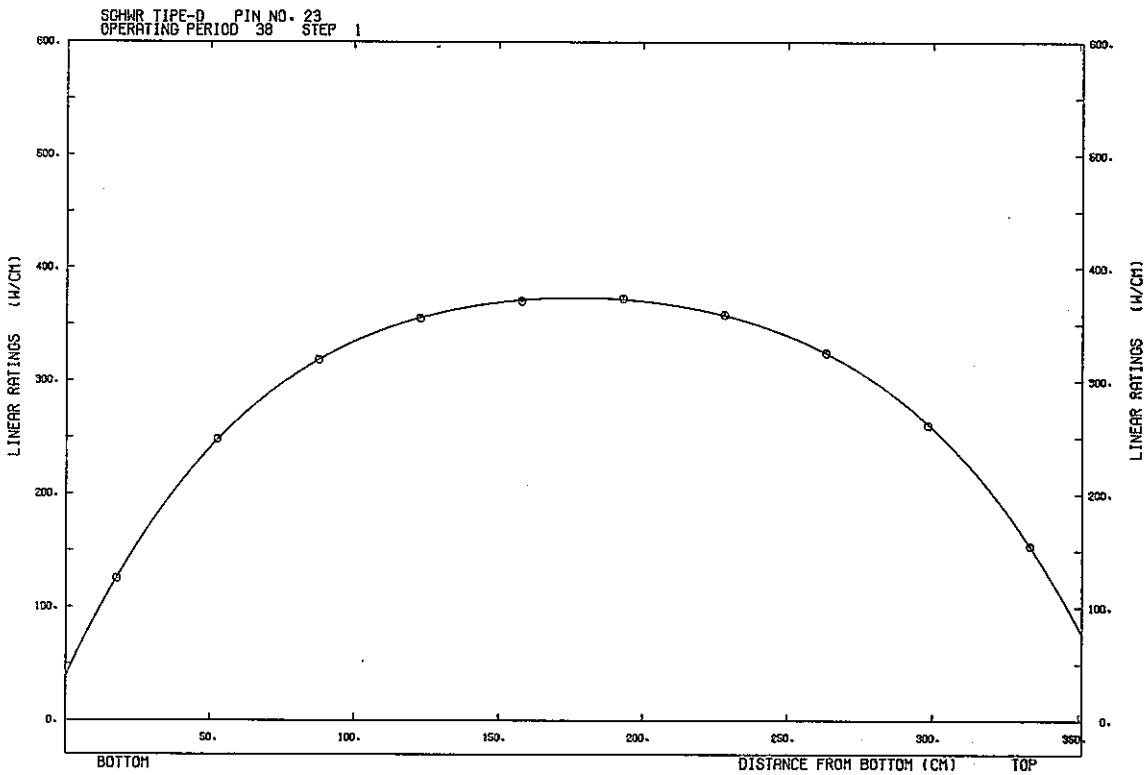
AXIAL ROD POWER DISTRIBUTION



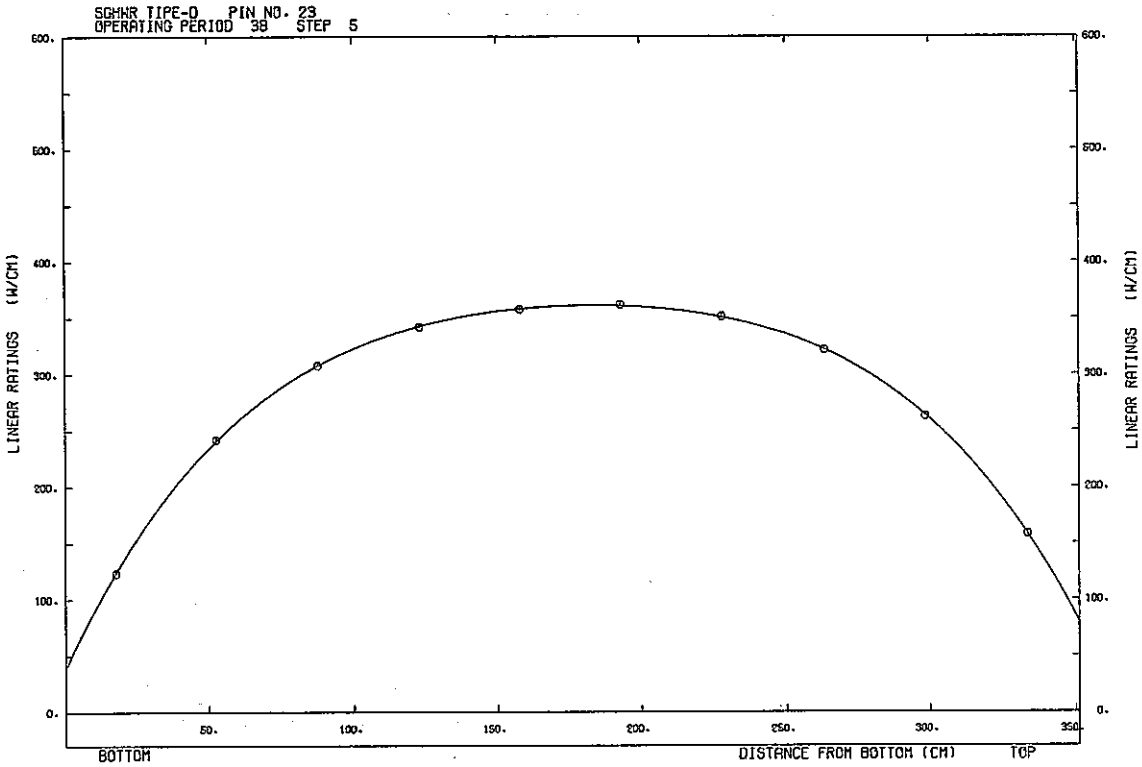
AXIAL ROD POWER DISTRIBUTION



AXIAL ROD POWER DISTRIBUTION



AXIAL ROD POWER DISTRIBUTION



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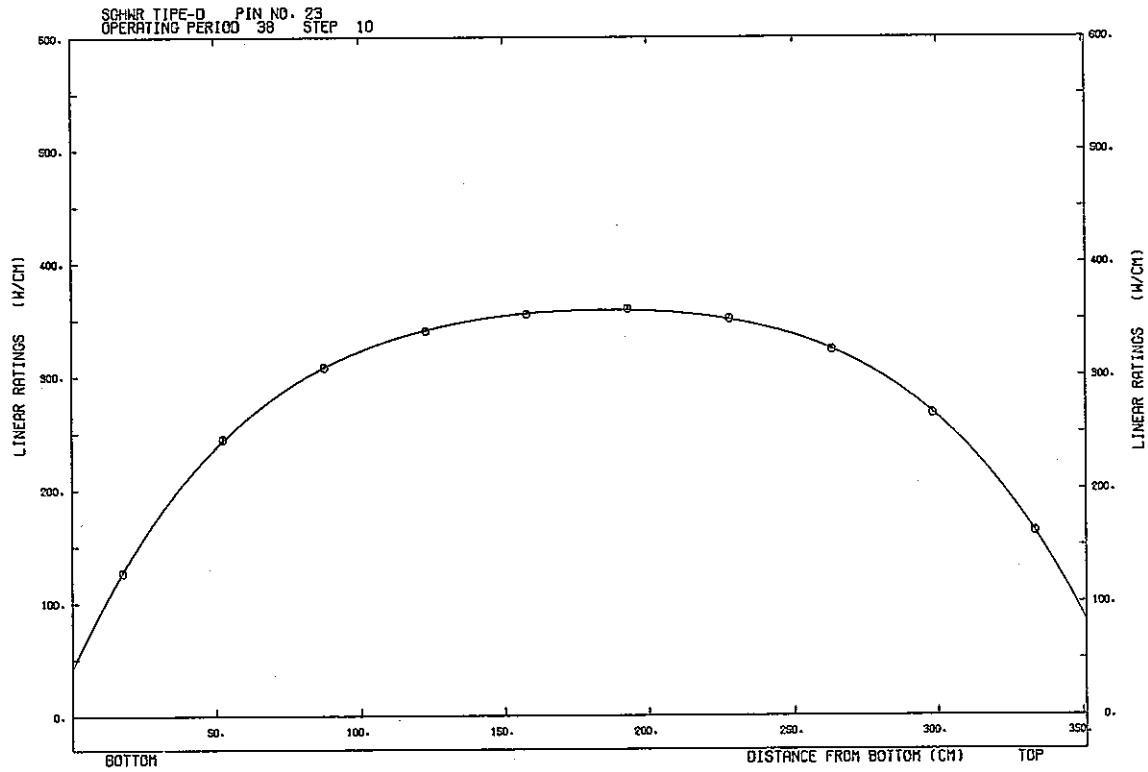

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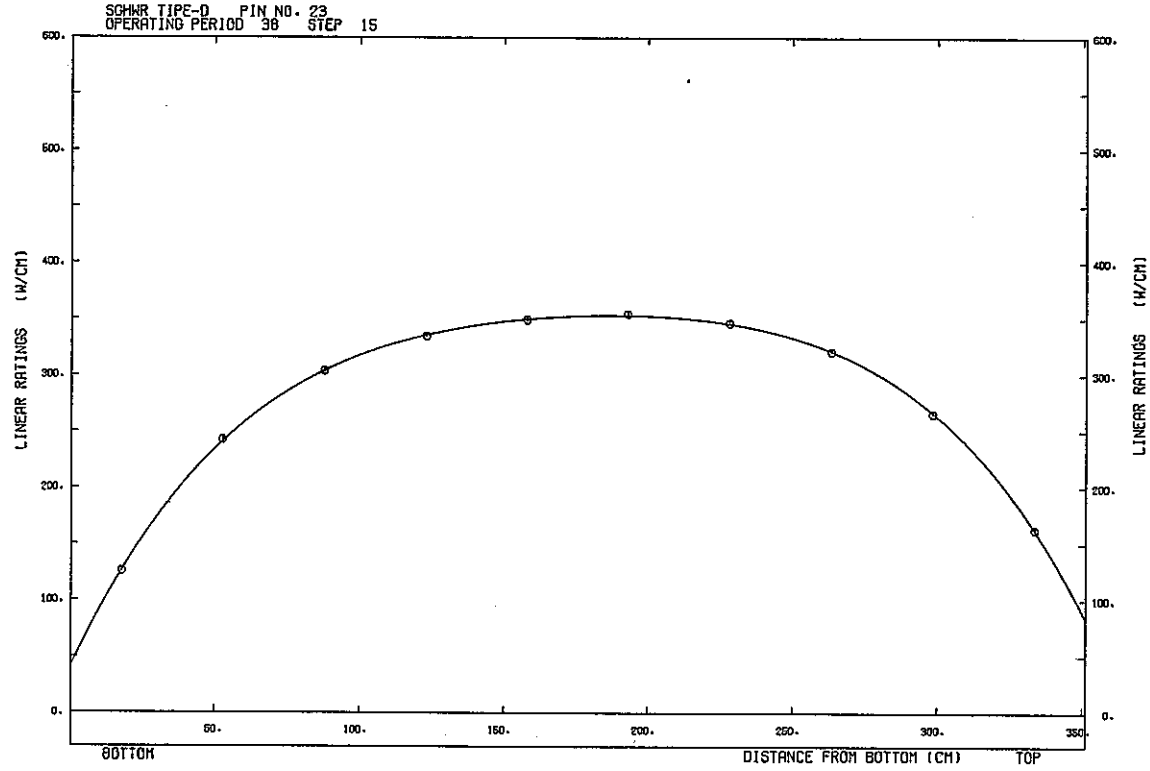

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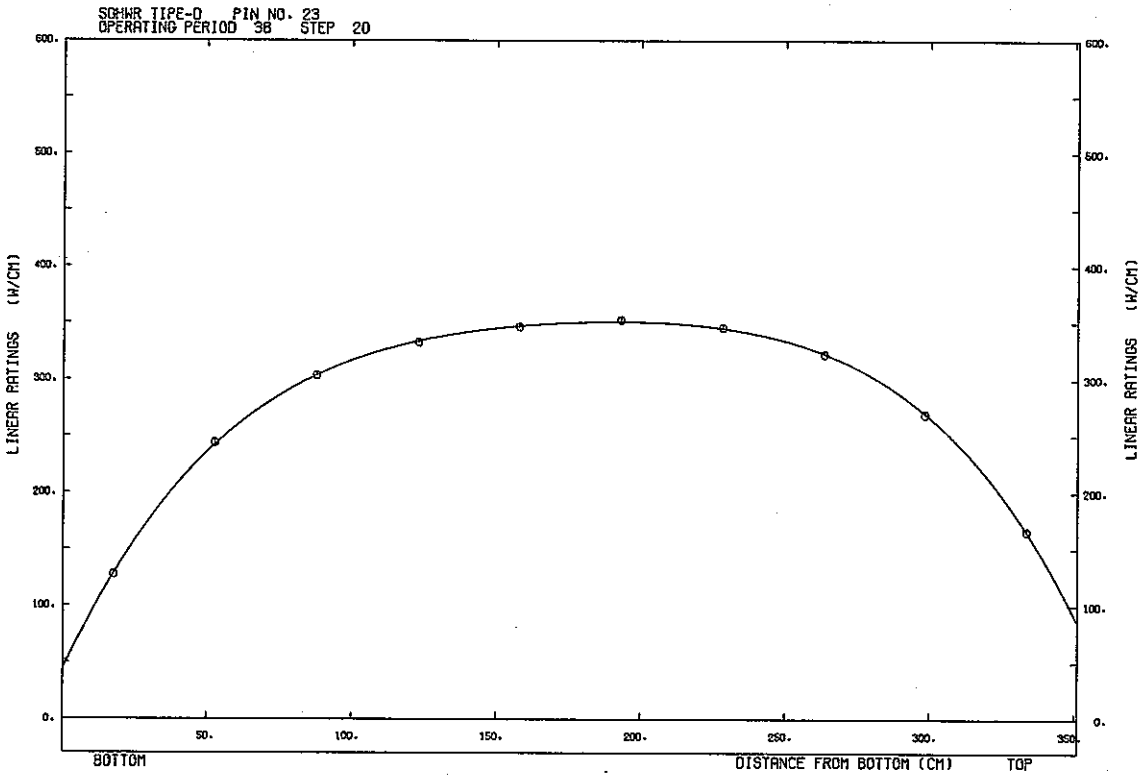

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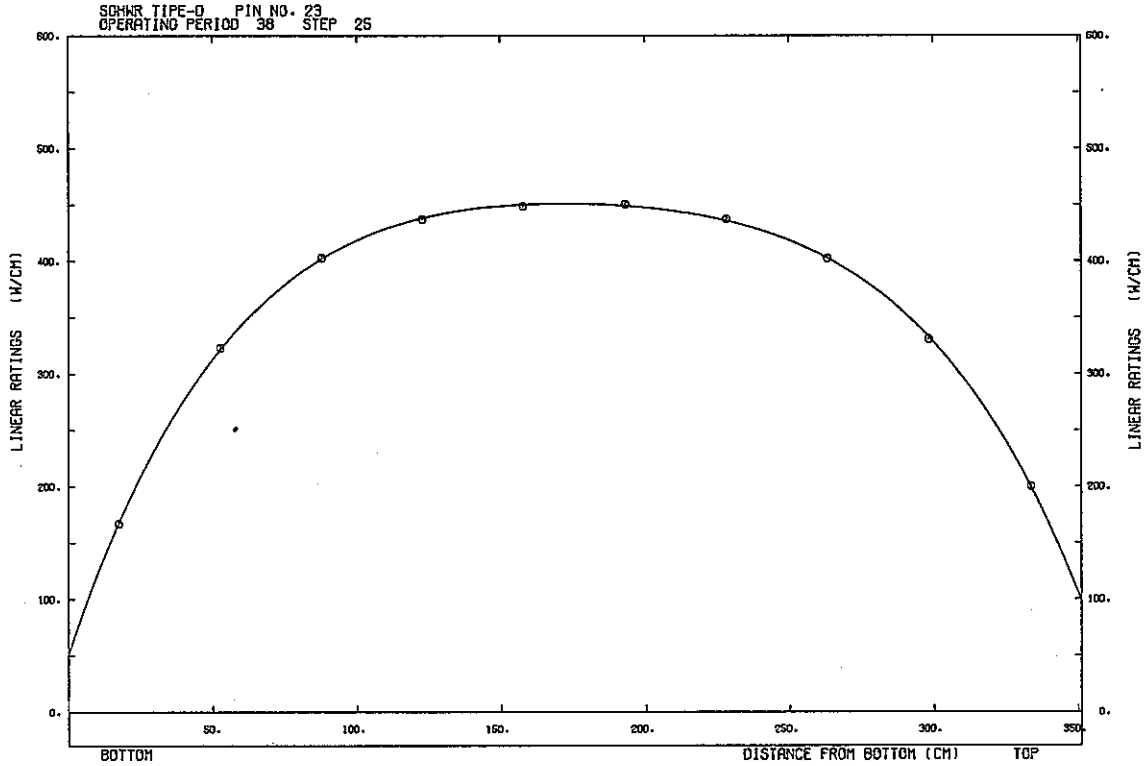

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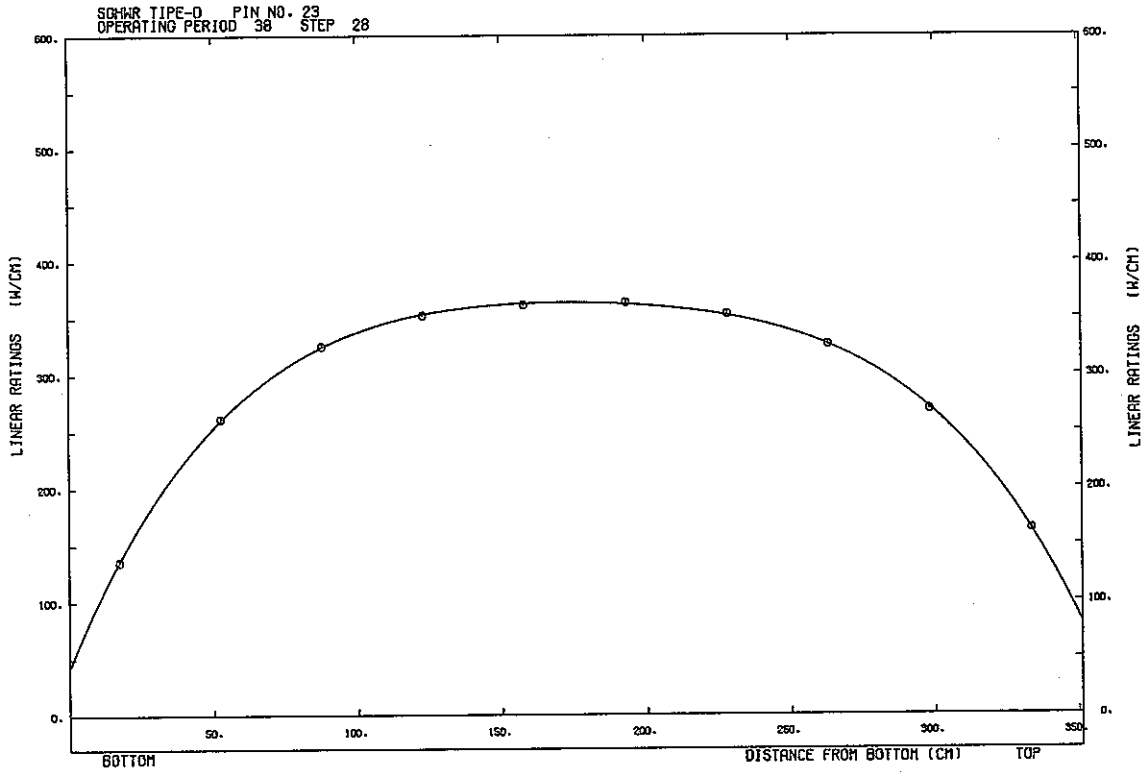
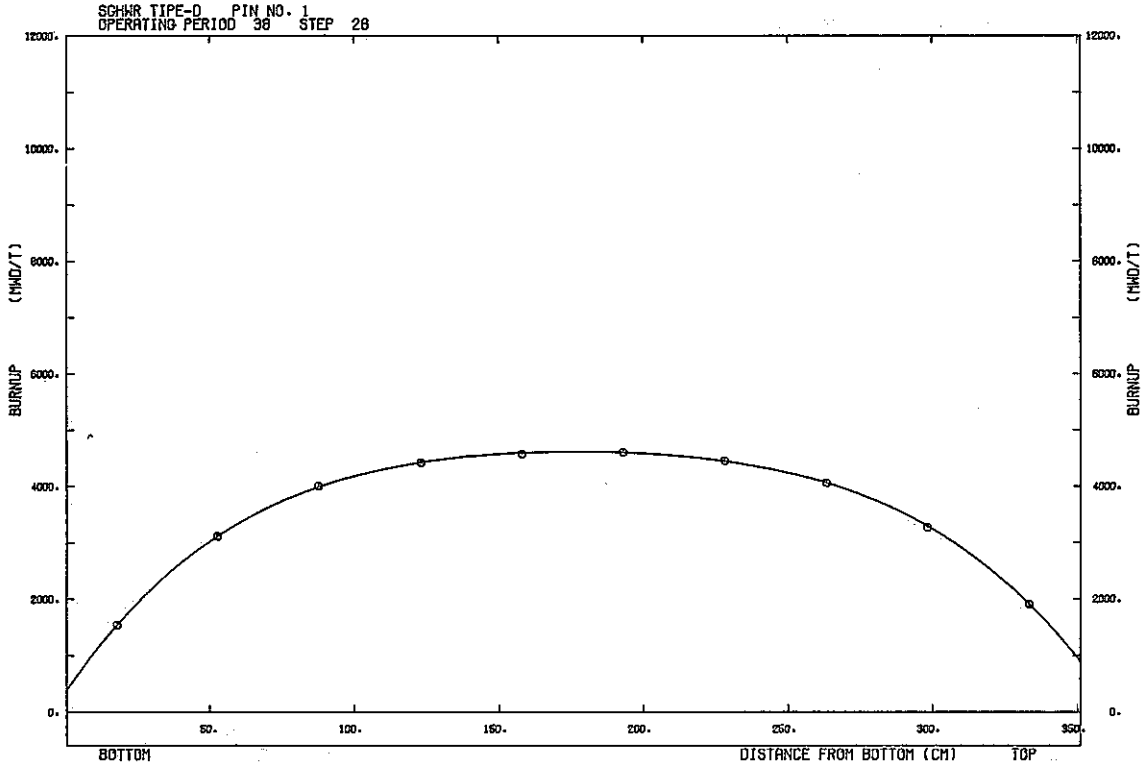


AXIAL ROD POWER DISTRIBUTION

付 録 8

AXIAL ROD BURNUP DISTRIBUTION

全燃料要素について示す。



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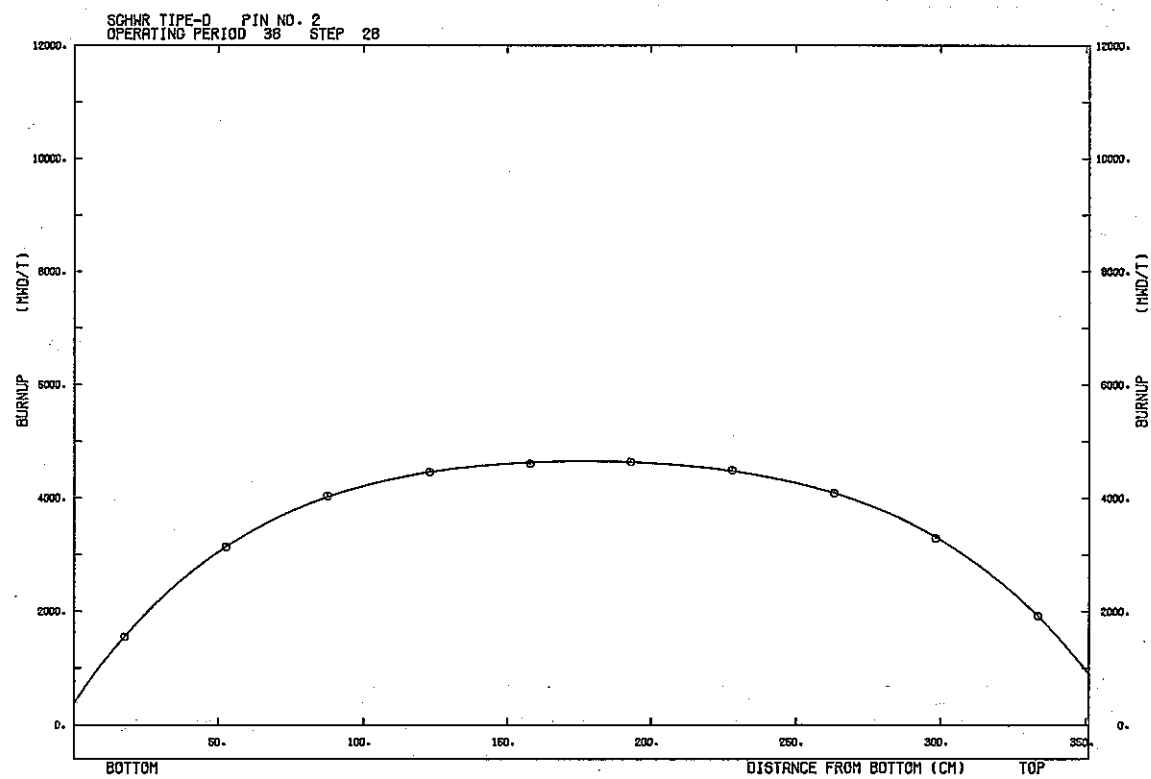

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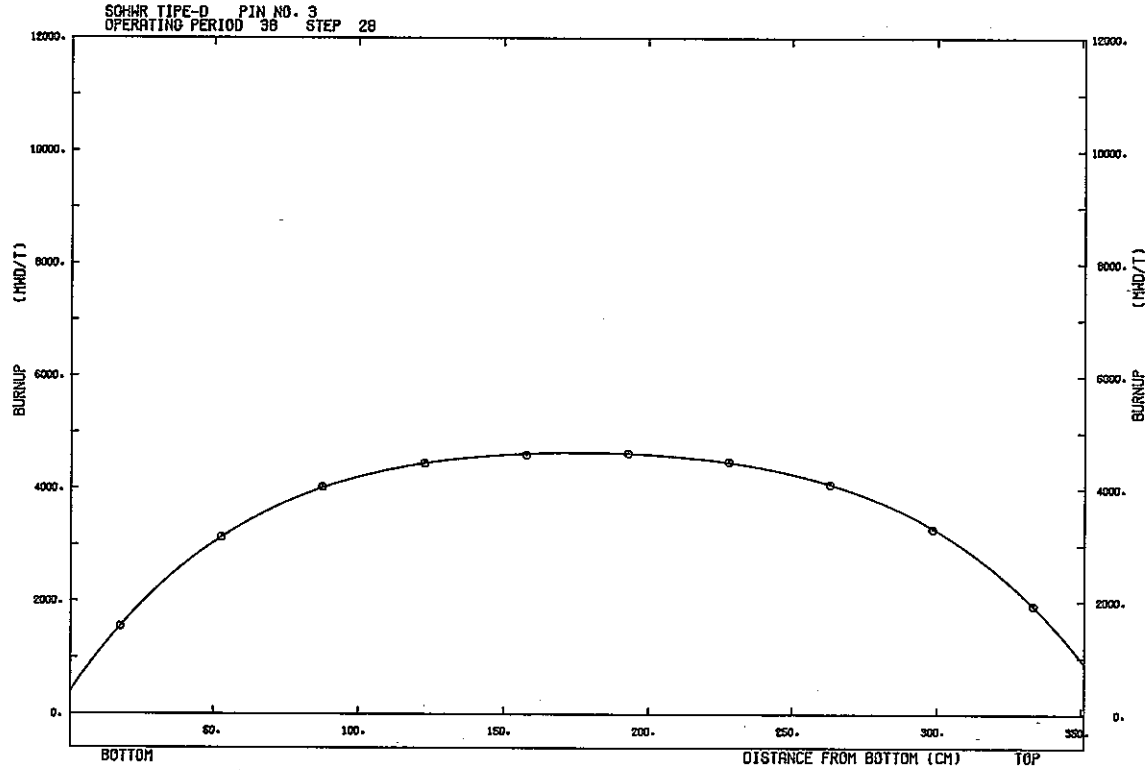

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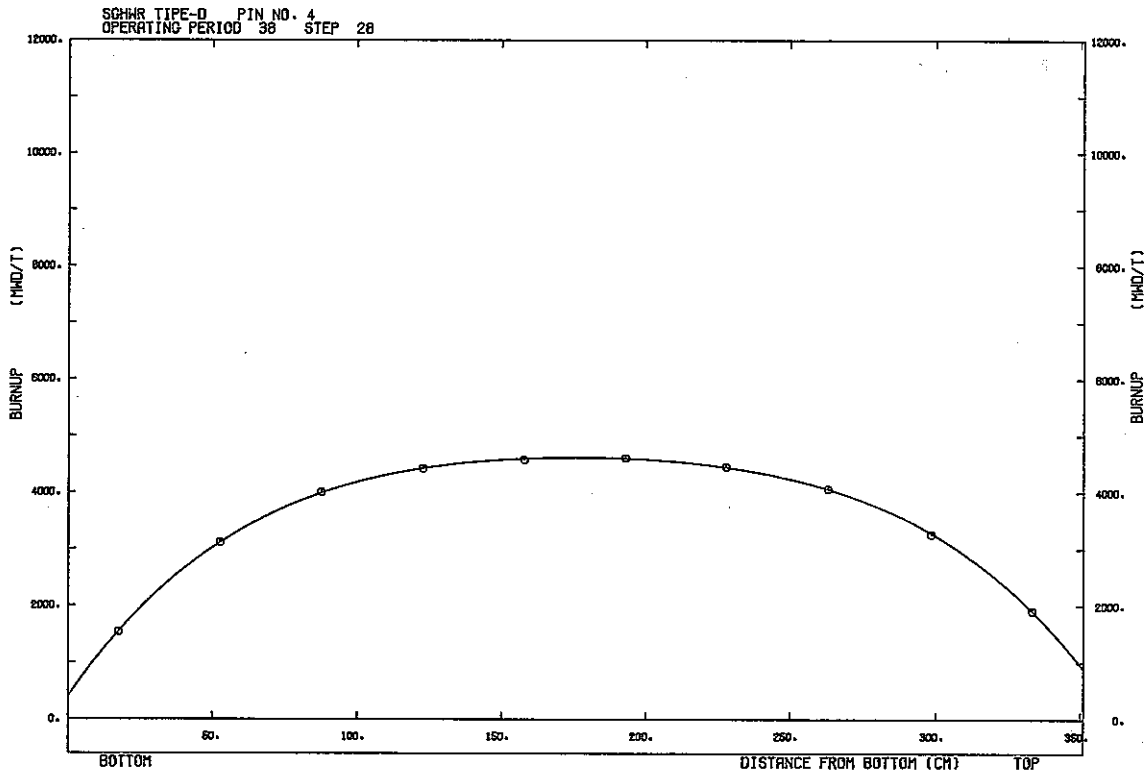

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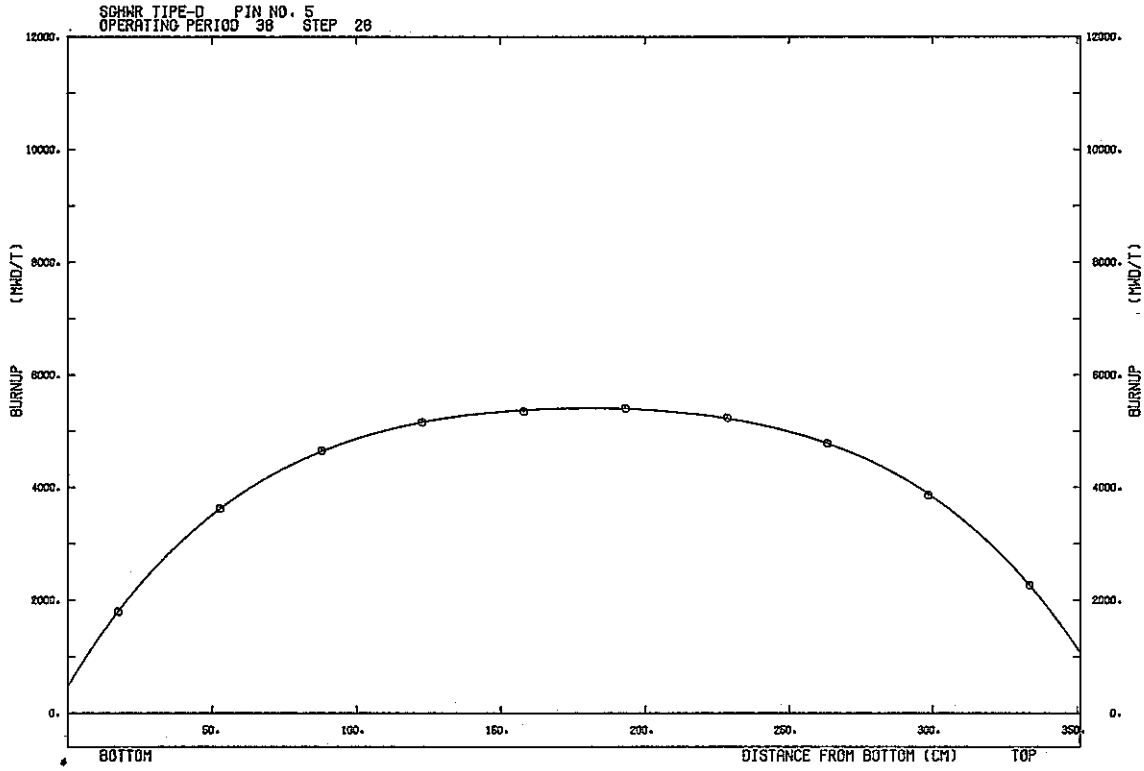

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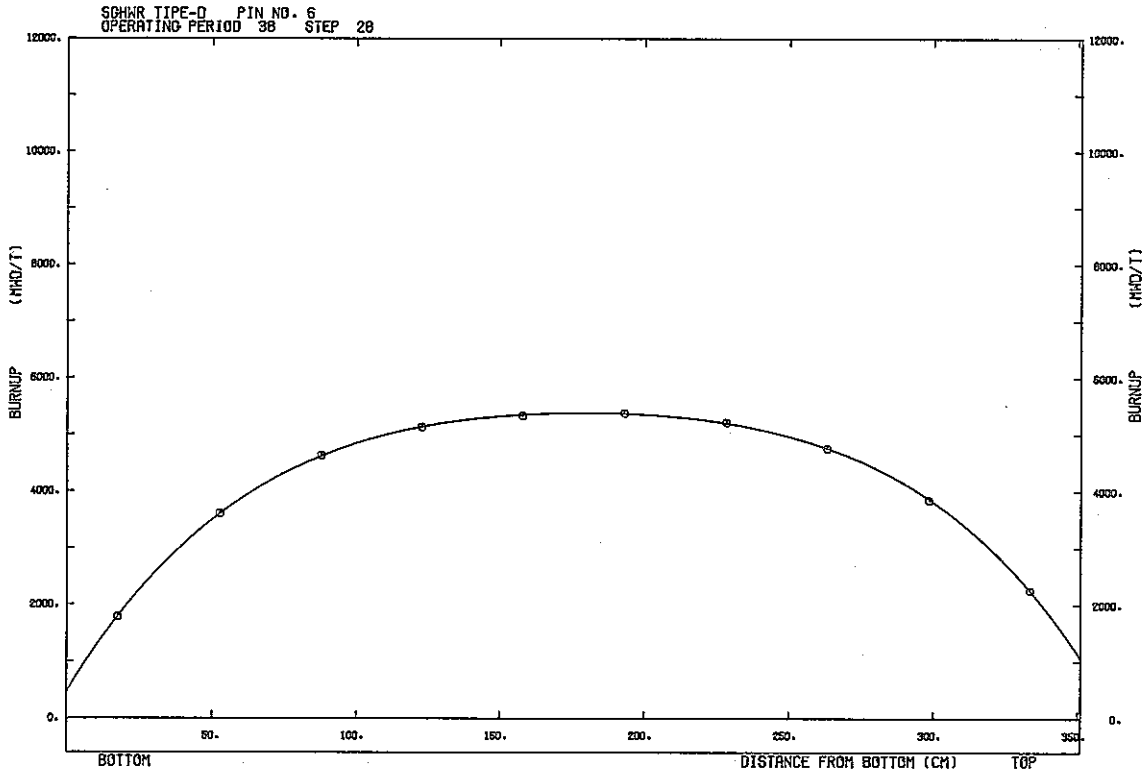

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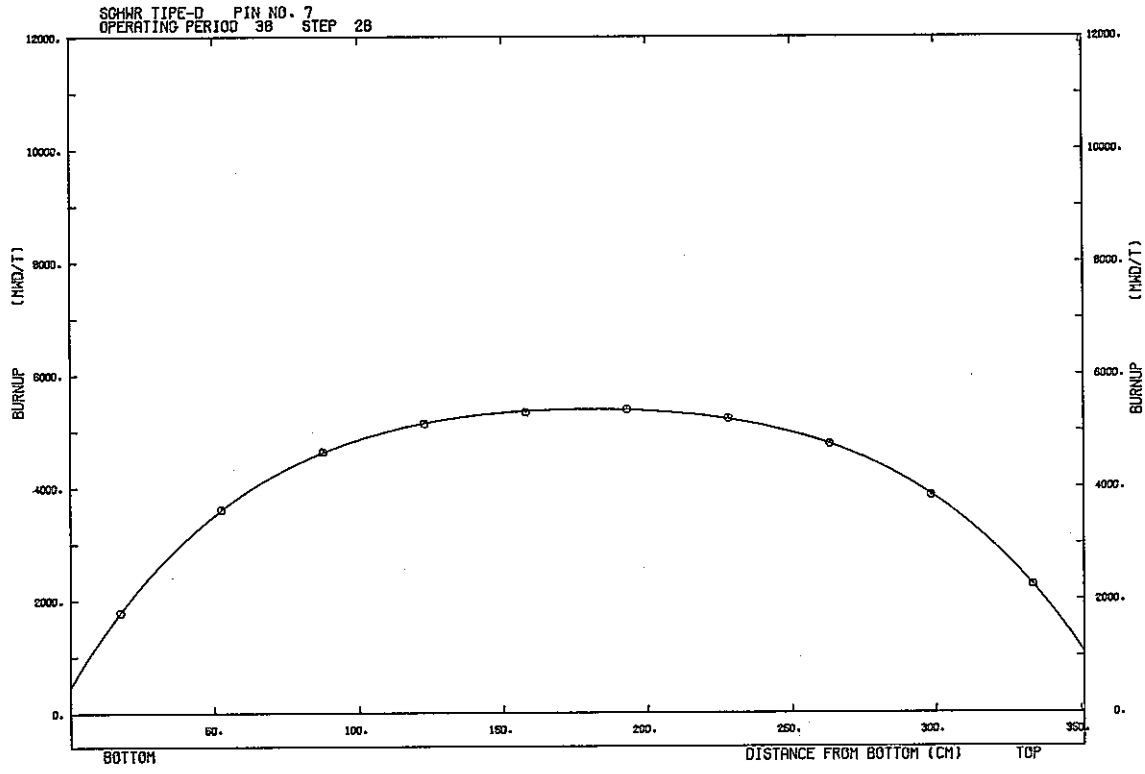

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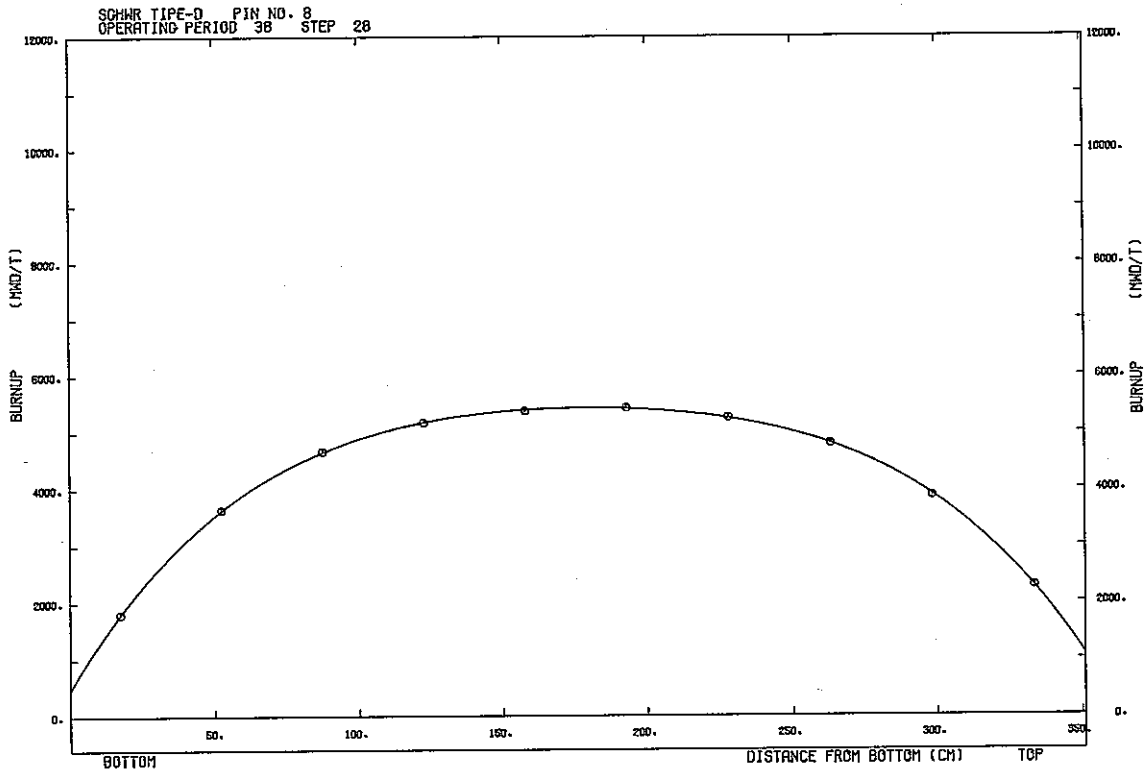

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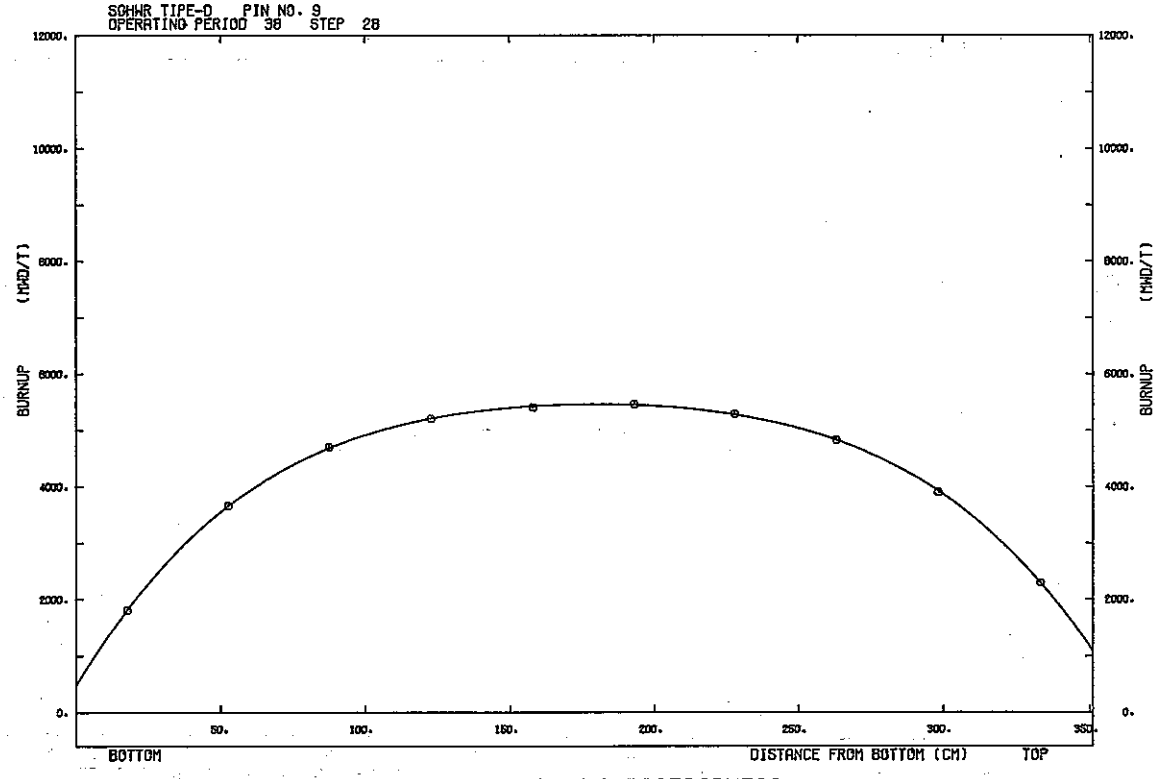

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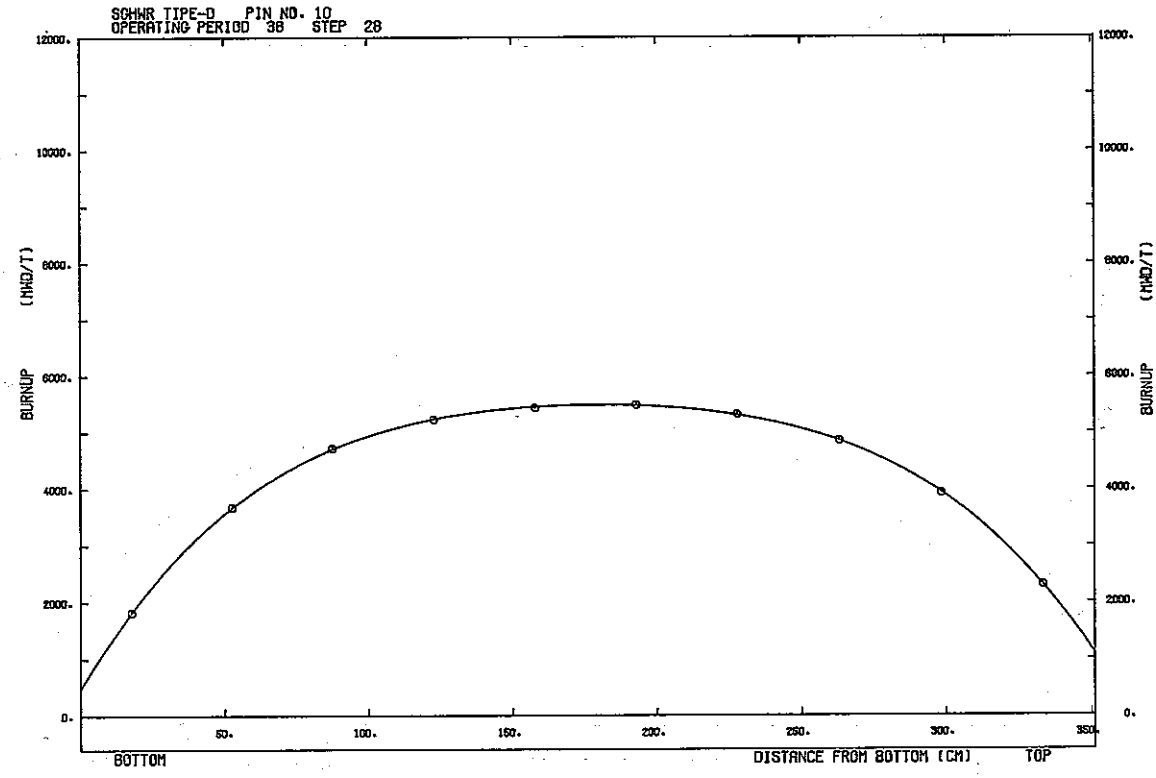

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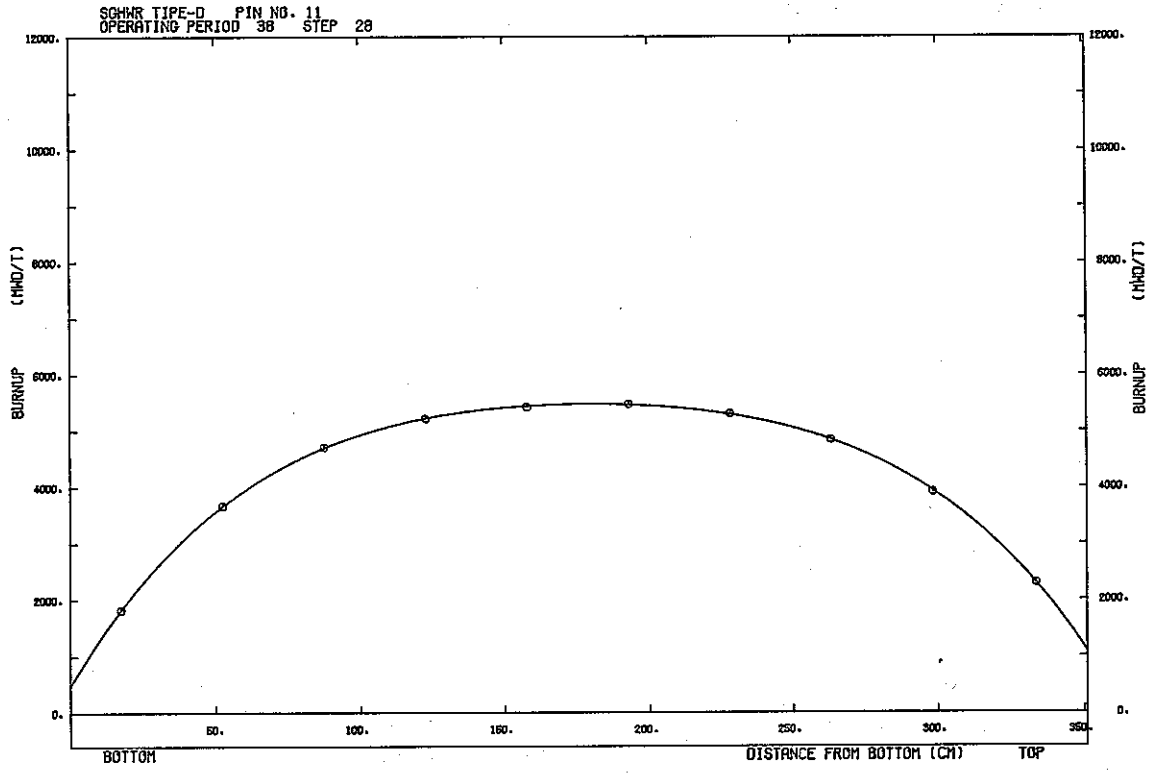

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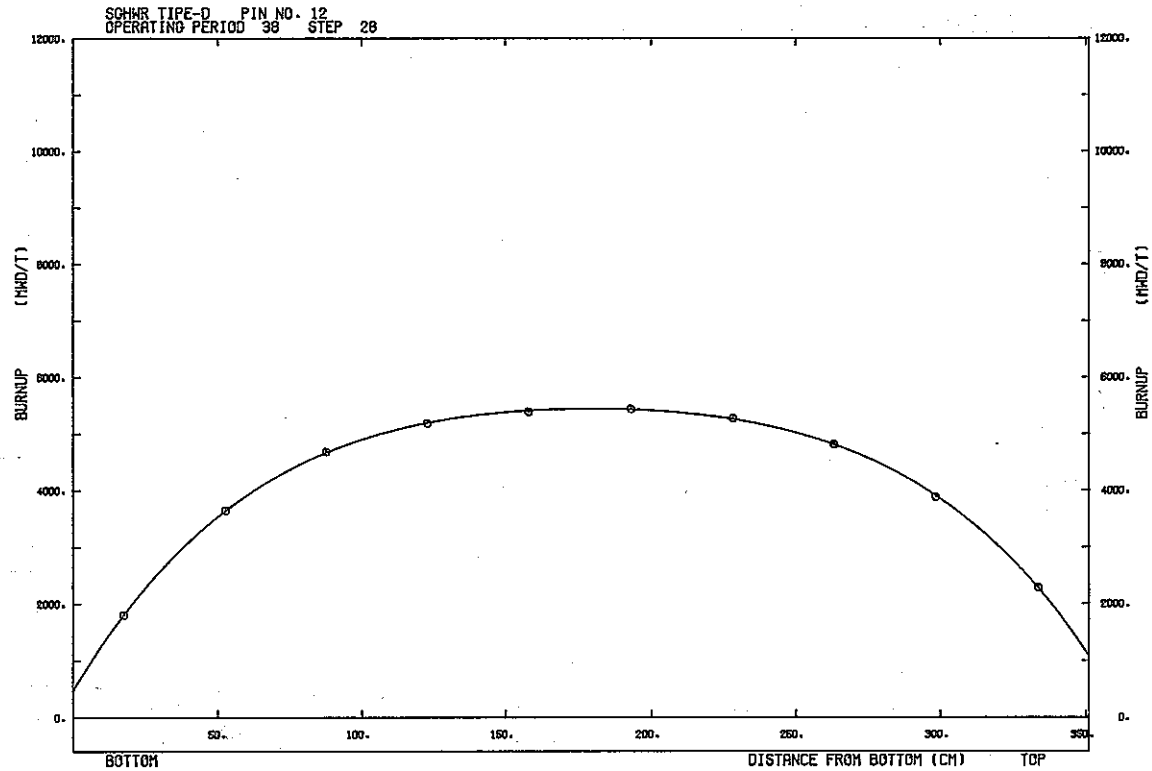

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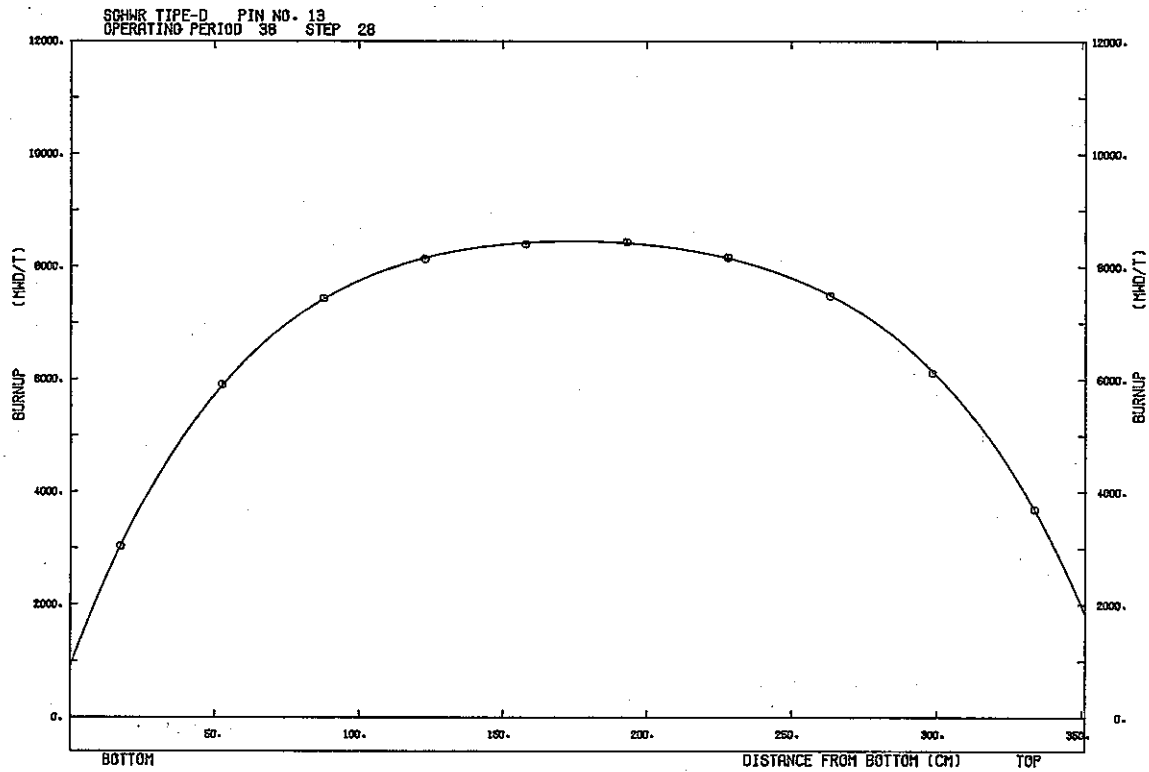

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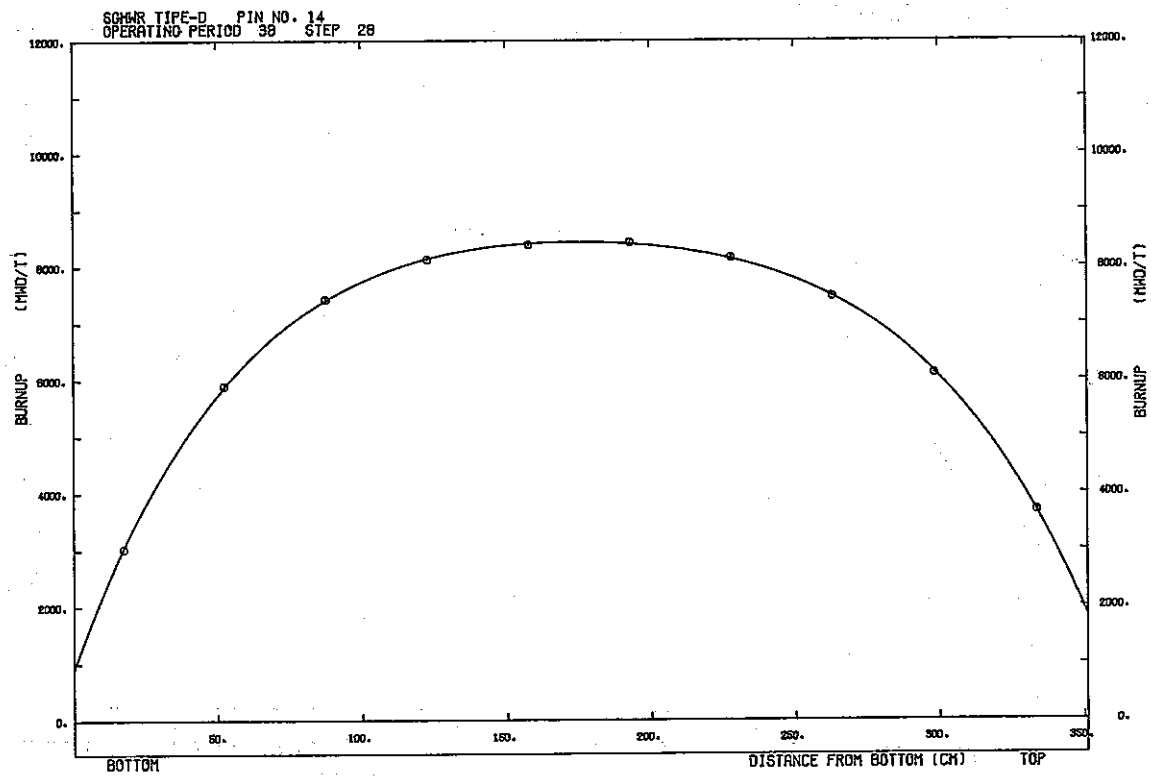

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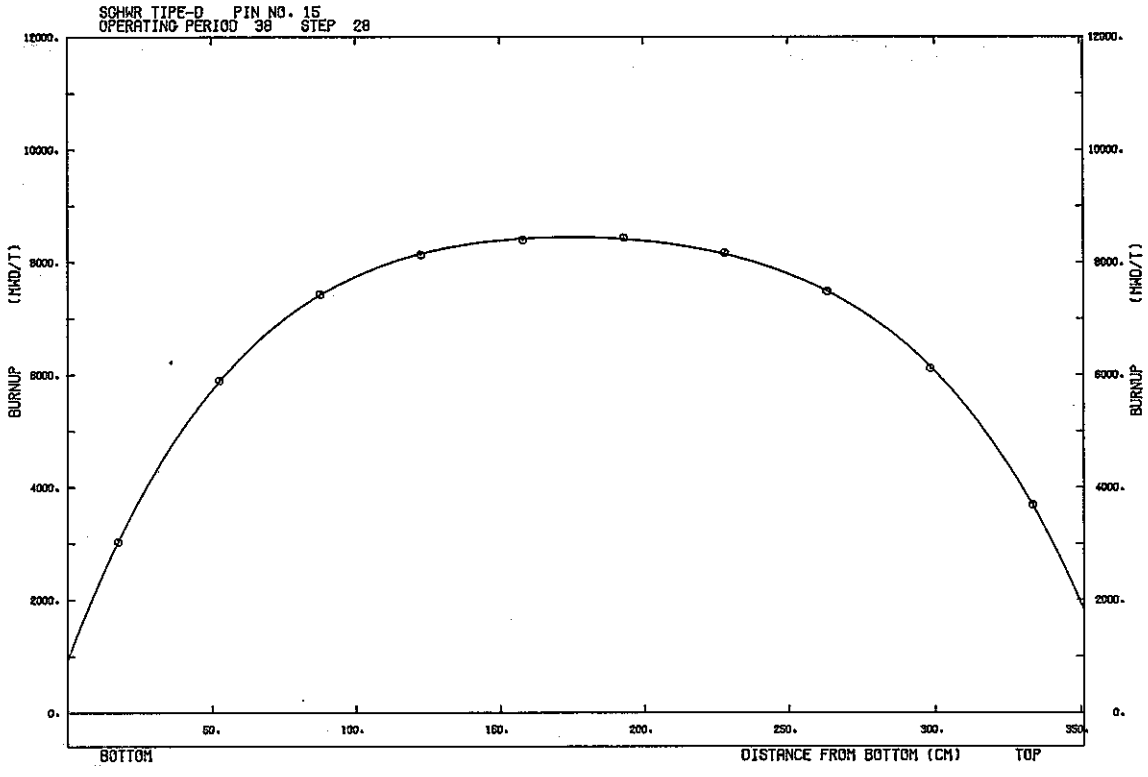

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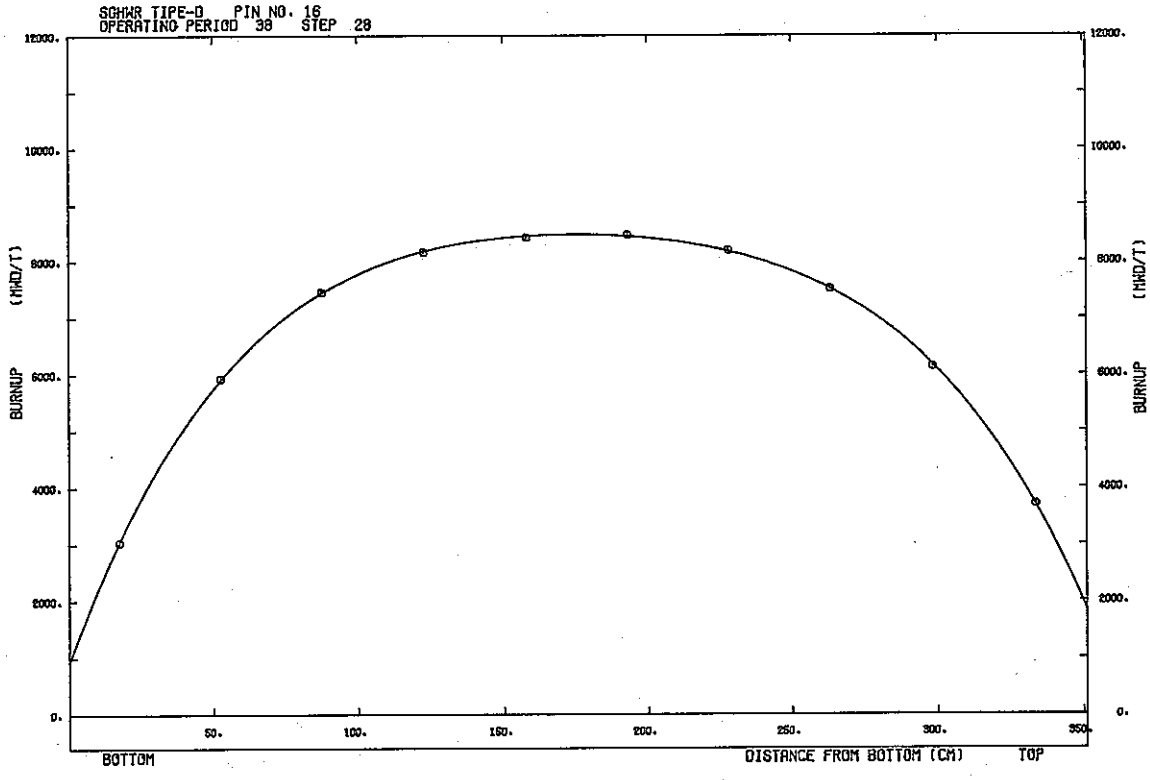

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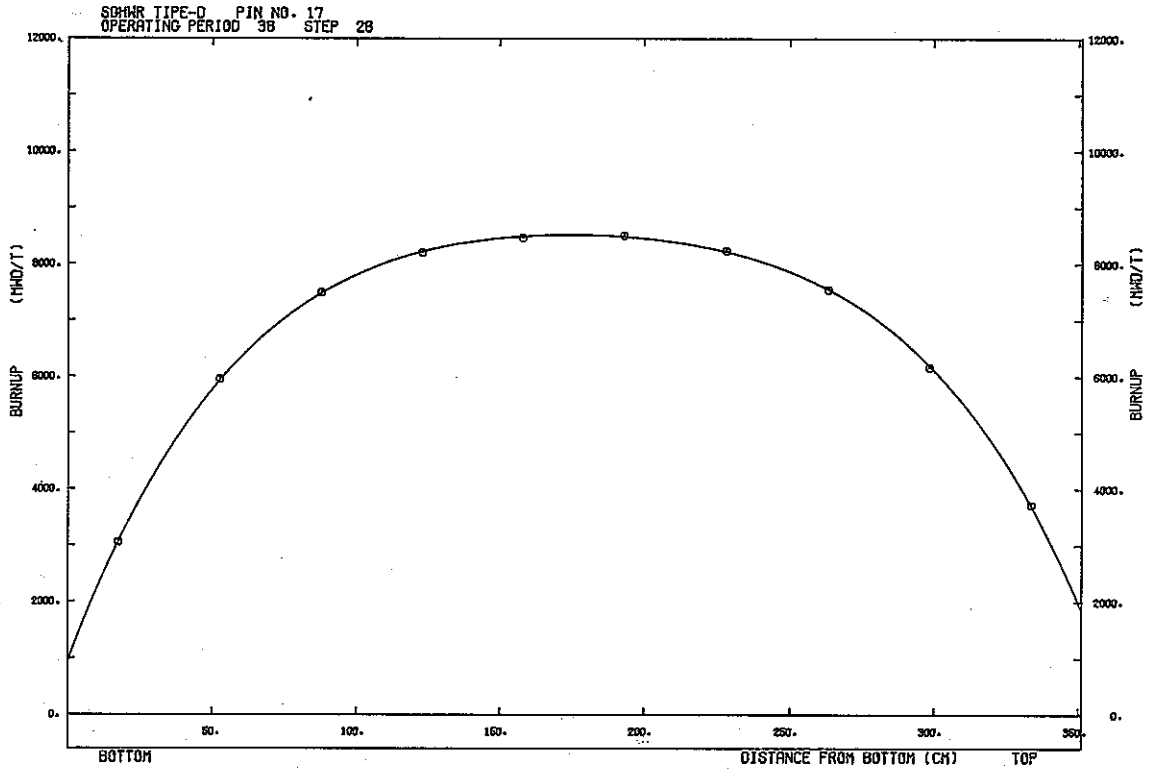

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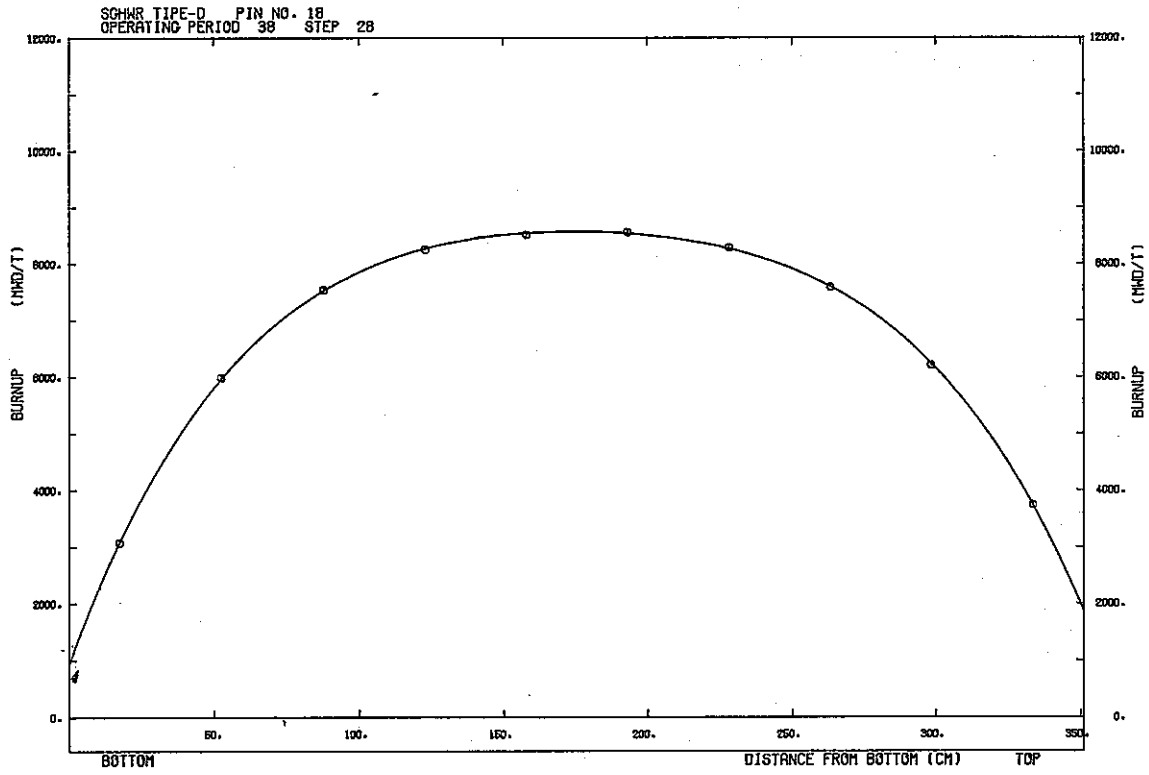

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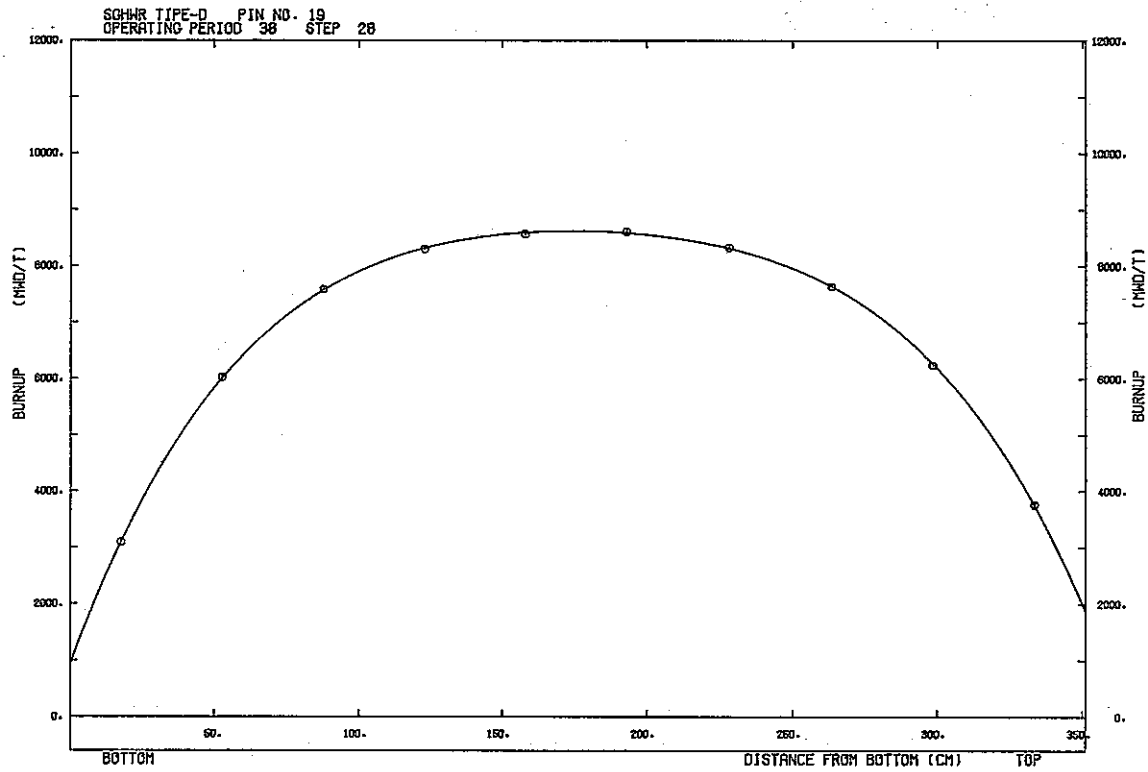

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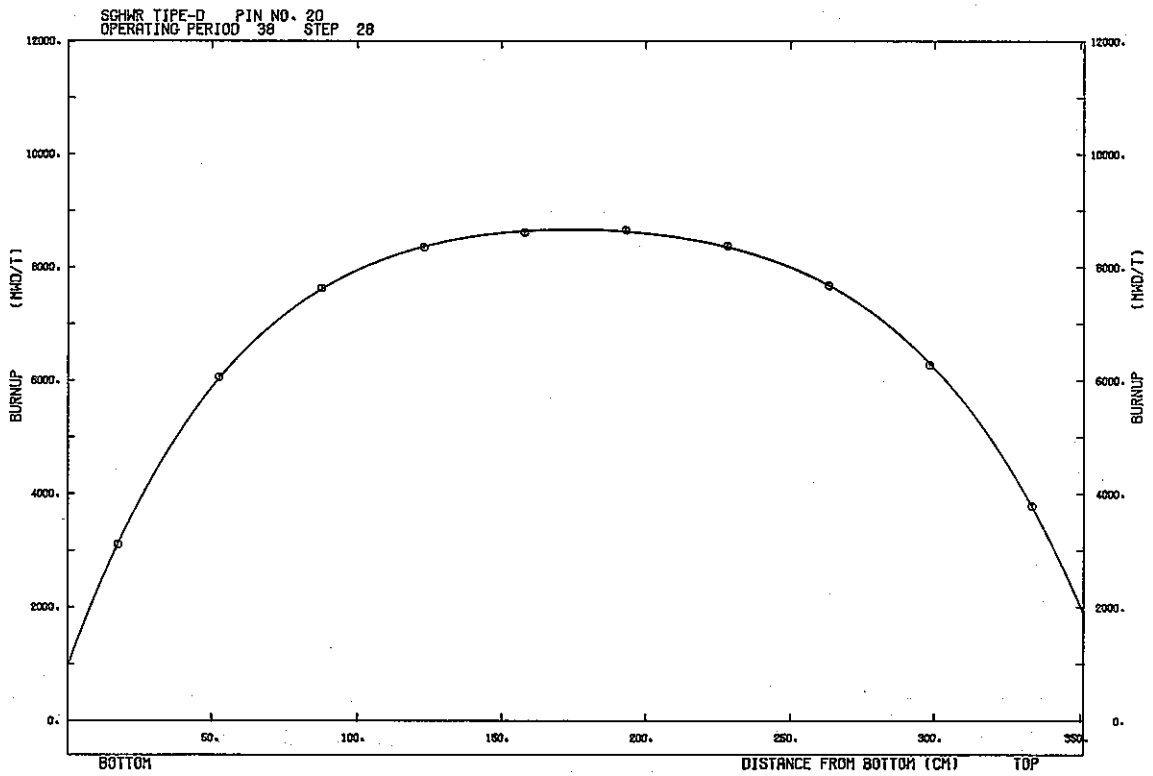

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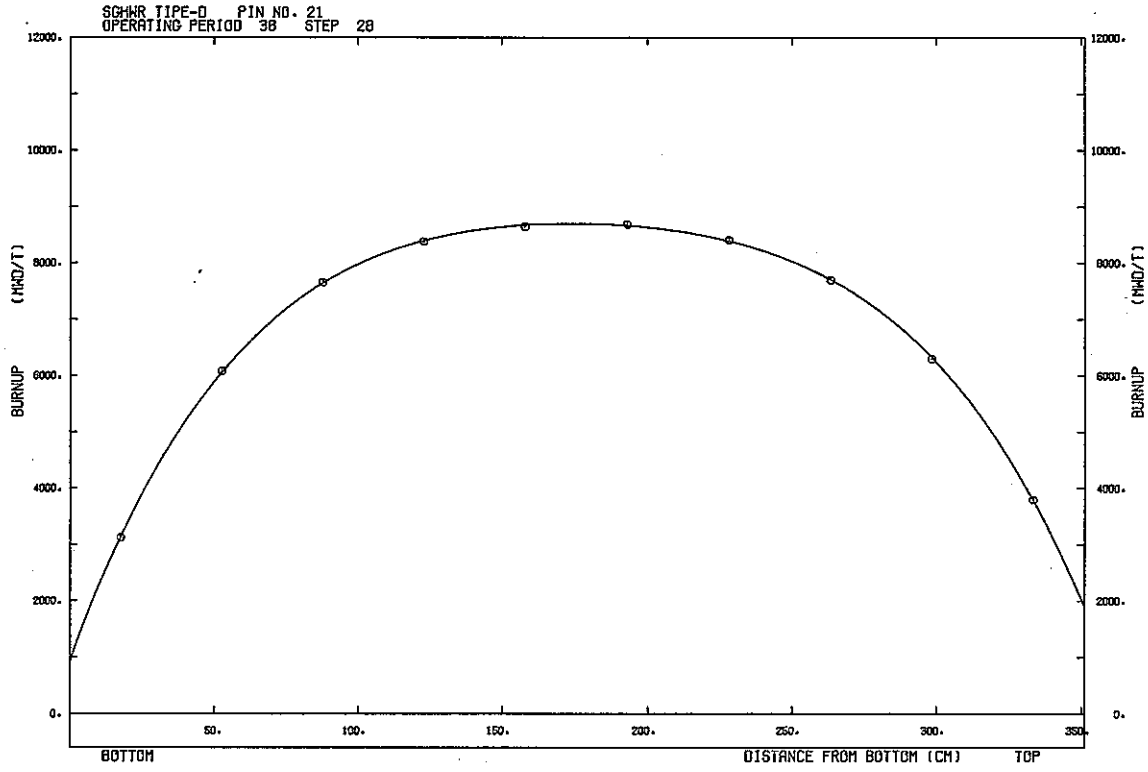

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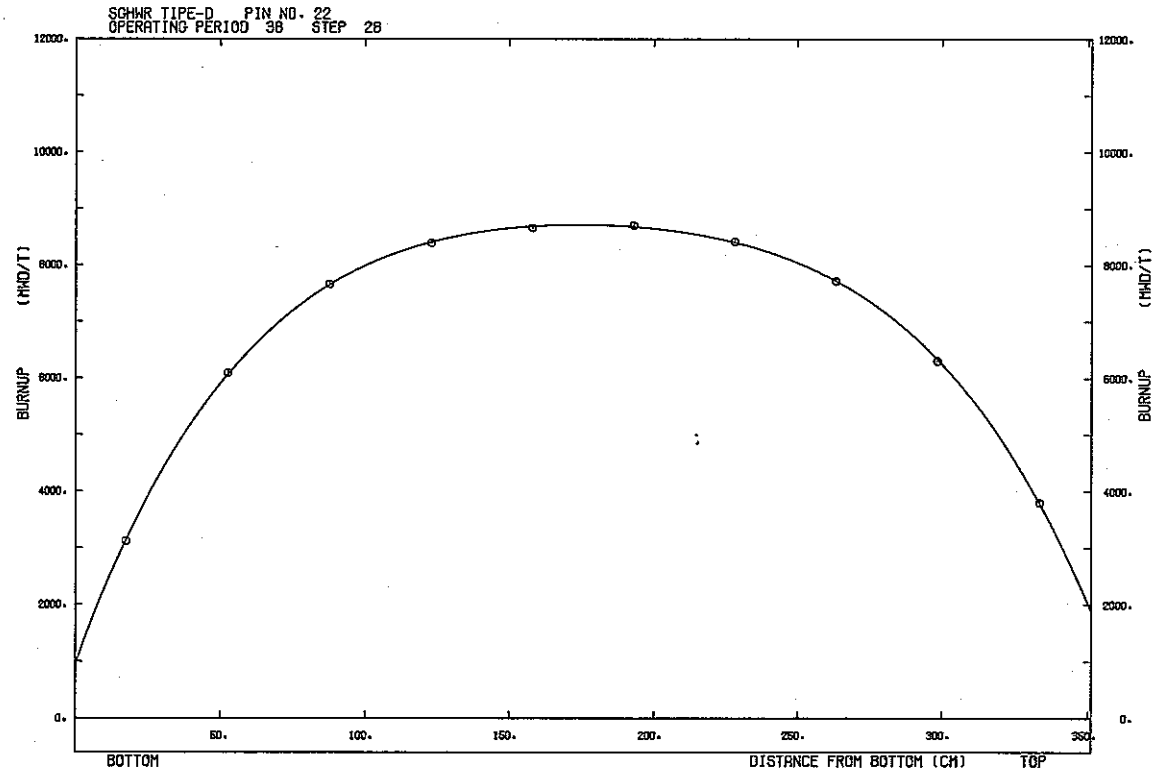

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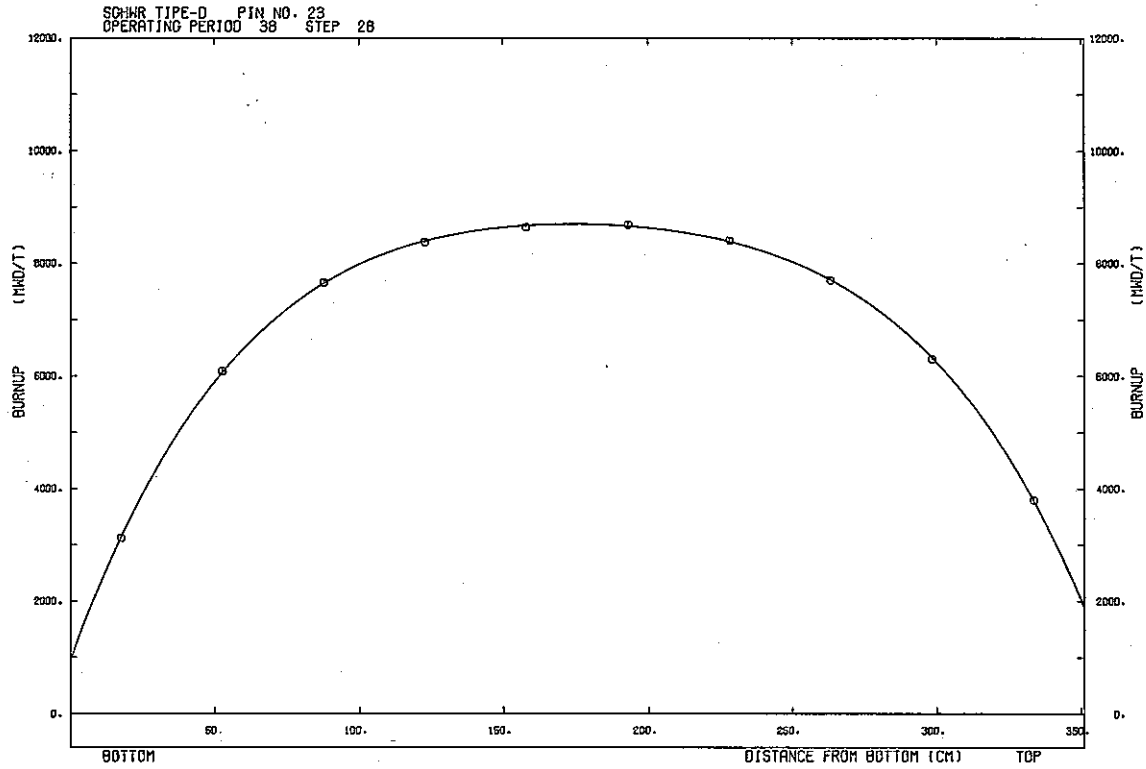

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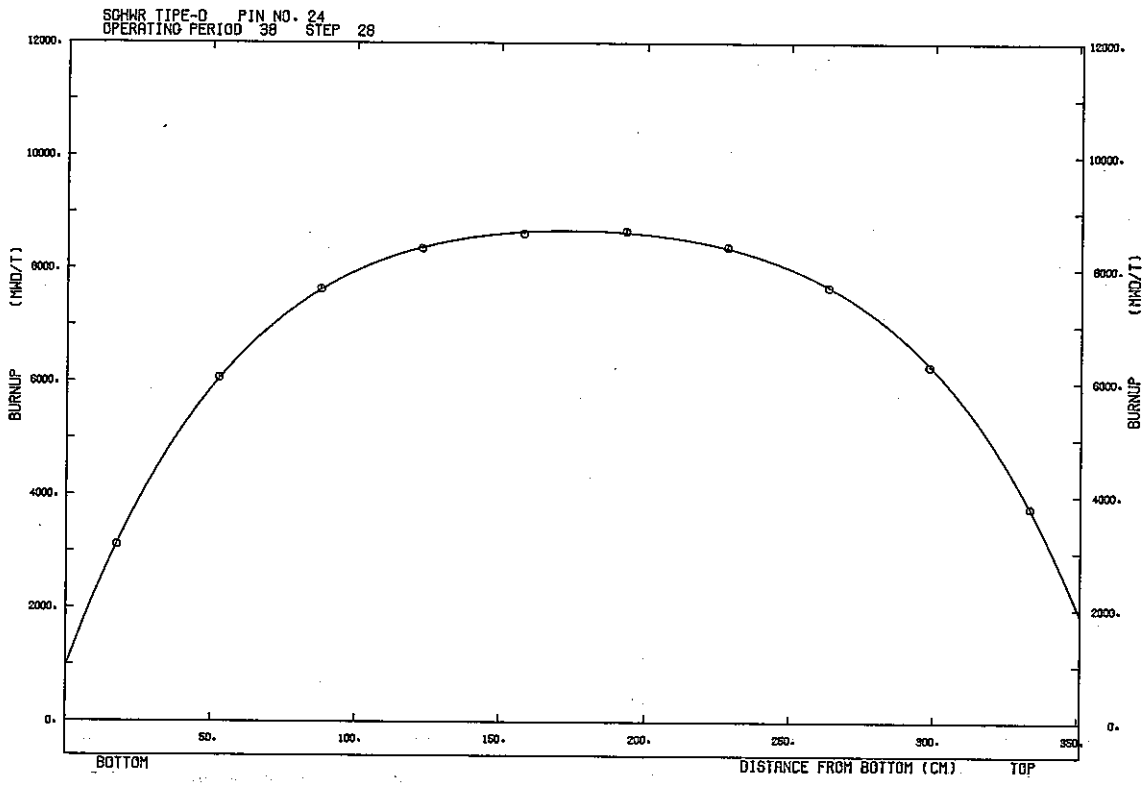

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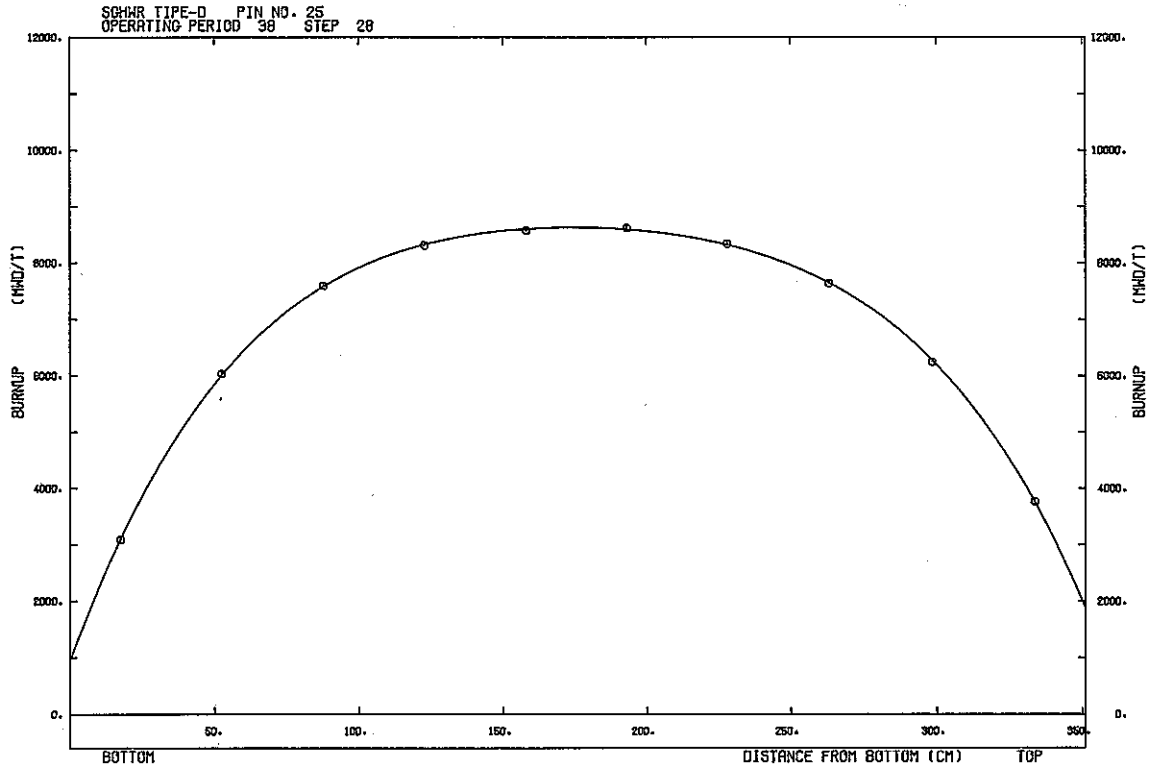

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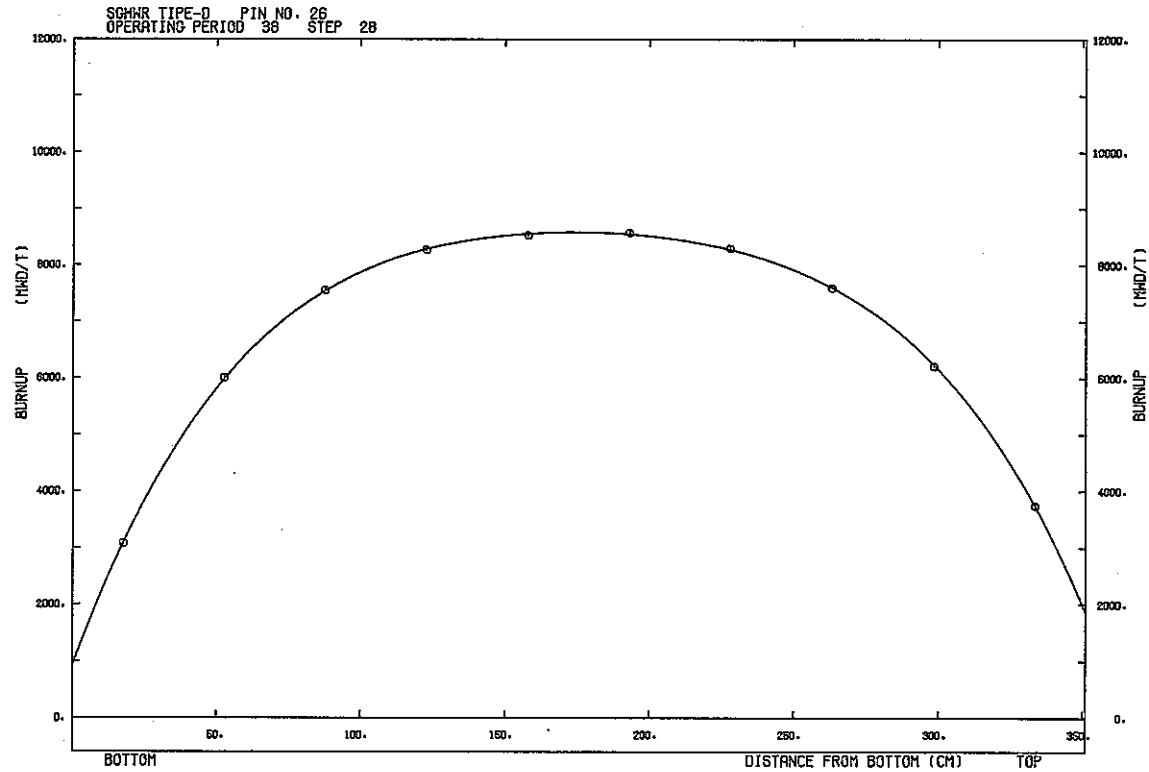

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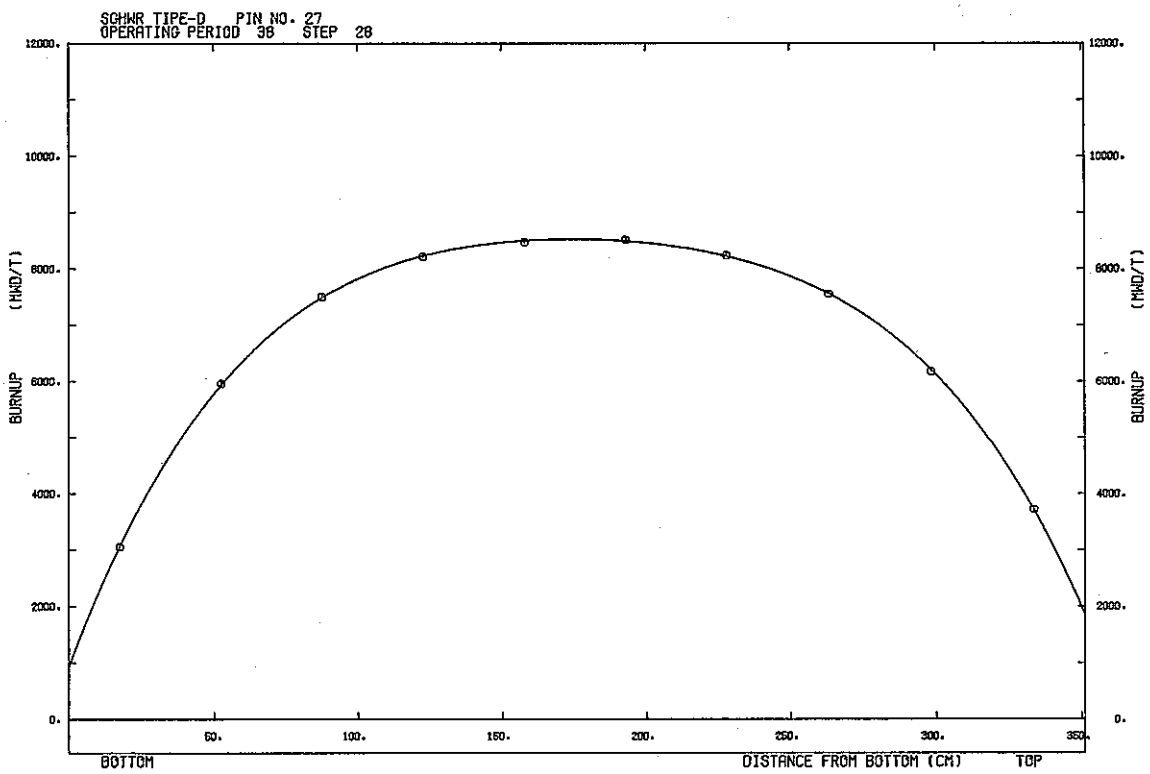

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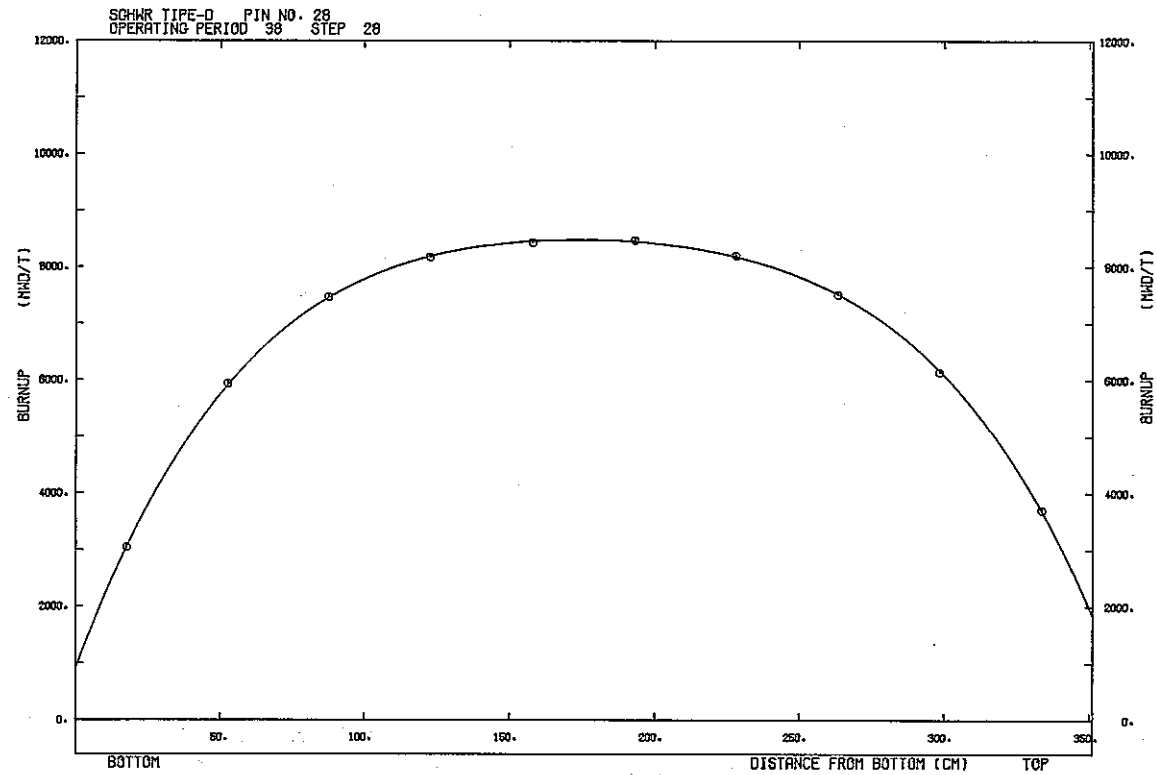

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