

SHAW, PITTMAN, POTTS & TROWBRIDGE

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March 29, 1982



Mr. William H. Regan, Jr.
Chief, Siting Analysis Branch
U.S. Nuclear Regulatory Commission
4550 Montgomery Avenue
Room 5109
Bethesda, Maryland

Dear Mr. Regan:

Enclosed please find a package of information supplementing the materials previously sent to you from GPU in support of the NRC Staff's preparation of an environmental assessment concerning the psychological impact of restarting TMI-1. The first enclosure is the outstanding information in response to economic (forecast) question four provided to GPU at the February 26, 1982 meeting with the Staff in Bethesda. The schedules provided support GPU's estimate of the cost of TMI replacement energy for the period of April 1979 through December 1981. As the schedules show, TMI replacement energy was assumed to come predominately from coal-fired, non-PJM utilities at a cost (including demand and transmission charges) of 30 to 35 mills. This compares with a TMI nuclear fuel cost of 3 to 4 mills. The balance of the replacement energy was assumed to be supplied by a combination of oil and coal-fired PJM sources, as computer studies have indicated that, compared to outside purchases, GPU's internal generation is not a significant source of replacement energy.

Change:
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SHAW, PITTMAN, POTTS & TROWBRIDGE

Mr. William H. Regan, Jr.
March 29, 1982
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Also enclosed herewith are copies of four reports of public opinion surveys conducted for GPU by several independent public opinion research groups.

Sincerely,

Deborah B. Bauser
Deborah B. Bauser

DBB:jah

Enclosures

cc (w/enc.): William S. Jordan, III, Esq.

cc (w/enc. one): Dr. Richard Tepel, Oak Ridge National Laboratory
(2 copies)

GPU COMPANIES
Estimated Cost of TMI Replacement Energy
April 1979 Through 1981 by Years

	NET-ED			PENELEC			JERSEY CENTRAL			GPU SYSTEM		
	TMI-1	TMI-2	Total	TMI-1	TMI-2	Total	TMI-1	TMI-2	Total	TMI-1	TMI-2	Total
1979 (9Months, April-December)												
Assumed TMI Generation												
Gwh	2,054	1,810	3,864	1,027	905	1,932	1,027	905	1,932	4,108	3,620	7,728
Capacity Factor (%)	80.2	62.3	70.7	80.2	62.3	70.7	80.2	62.3	70.7	80.2	62.3	70.7
Estimated Replacement Cost												
\$ Millions	\$ 63	\$ 51	\$ 114	\$ 19	\$ 20	\$ 39	\$ 52	\$ 44	\$ 96	\$ 134	\$ 115	\$ 249
Mills per Kwh	30.7	28.2	29.5	18.5	22.1	20.2	50.6	48.6	49.7	32.6	31.8	32.2
1980												
Assumed TMI Generation												
Gwh	2,423	2,078	4,501	1,211	1,039	2,250	1,211	1,039	2,250	4,845	4,156	9,001
Capacity Factor (%)	71.1	53.8	61.9	71.1	53.8	61.9	71.1	53.8	61.9	71.1	53.8	61.9
Estimated Replacement Cost												
\$ Millions	\$ 61	\$ 53	\$ 114	\$ 32	\$ 26	\$ 58	\$ 63	\$ 42	\$ 105	\$ 156	\$ 121	\$ 277
Mills per Kwh	25.2	25.5	25.3	26.4	25.0	25.8	52.0	40.4	46.7	32.2	29.1	30.8
1981												
Assumed TMI Generation												
Gwh	2,415	2,468	4,883	1,208	1,234	2,442	1,208	1,234	2,442	4,831	4,936	9,767
Capacity Factor (%)	71.1	64.0	67.3	71.1	64.0	67.3	71.1	64.0	67.3	71.1	64.0	67.3
Estimated Replacement Cost												
\$ Millions	\$ 65	\$ 62	\$ 127	\$ 31	\$ 27	\$ 58	\$ 52	\$ 57	\$ 109	\$ 148	\$ 146	\$ 294
Mills per Kwh	26.9	25.1	26.0	25.7	21.9	23.8	43.0	46.2	44.6	30.6	29.6	30.1

Notes & Assumptions:

1. Replacement power is assumed to come predominantly from coal-fired, non-TJM utilities at a cost (including demand cost) of 30 to 40 mills, as compared to a TMI nuclear fuel cost of 3 to 4 mills. Breakdown among companies and units is less precise than overall GPU estimate due to complexities of GPU interchange.
2. Estimates of TMI generation that would have been produced if the TMI-2 accident had not occurred are from GPU's last official pre-accident budget (1978 "94").

THI Accident Effect on Energy Cost
GPU, April-December 1979

	Actual			Add Normal THI-1			Add Normal THI-2			THI-1 Effect	THI-2 Effect
	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/MWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) = (4-1)	(11) = (7-4)
Generation											
Gen THI	256 436	18 646	13.8	256 436	18 646	13.8	256 436	18 646	13.8		
THI-1	14	(32)	-	10 856	4 108	2.6	10 856	4 108	2.6	10 842	
THI-2	15	(65)	-	15	(65)	-	13 101	3 620	3.6		13 086
Total Generation	256 465	18 549	13.8	267 307	22 689	11.8	280 393	26 374	10.6		
Purchased Power											
THI Related	125 576	4 260	29.5	62 788	2 130	29.5	0	0	-	(62 788)	(62 788)
Sales	0	0	-	0	0	-	0	0	-		
Export Inc. & Cogen.	360	12	30.0	360	12	30.0	360	12	30.0		
Total Purchased Pwr.	125 936	4 272	29.5	63 148	2 142	29.5	360	12	30.0		
FPI Purchase	120 104	2 939	40.9	37 938	929	40.8	0	0		(82 166)	(37 938)
GPU Purchase	42 979	1 742	24.7	43 543	2 143	20.3	42 037	2 359	17.8		
FBI Sale	(25 232)	(572)	44.1	(25 232)	(572)	44.1	(52 841)	(1 198)	44.1		(27 609)
GPU Sale	(42 979)	(1 742)	24.7	(43 543)	(2 143)	20.3	(42 037)	(2 359)	17.8		
Total Energy	477 273	25 188	18.9	343 161	25 188	13.6	227 912	25 188	9.0	(134 112)	(115 249)

Reduce Purchase Power 50%
 Balance PJM Purchases

Remove Purchase Power
 Remove PJM Purchases
 Balance PJM Sales

THI Accident Effect on Energy Cost
Penelec April-December 1979

	Actual			Add Normal THI-1			Add Normal THI-2			THI-1 Effect	THI-2 Effect
	\$1,000 (1)	GWh (2)	\$/MWh (3)	\$1,000 (4)	GWh (5)	\$/GWh (6)	\$1,000 (7)	GWh (8)	\$/MWh (9)	\$1,000 (10) = (4-1)	\$1,000 (11) = (7-4)
Generation											
Non THI	123 266	9 392	13.1	123 266	9 392	13.1	123 266	9 392	13.1		
THI-1	4	(8)	-	2 714	1 027	2.6	2 714	1 027	2.6	2 710	
THI-2	5	(16)	-	5	(16)	-	3 275	905	3.6		3 270
Total Generation	123 275	9 368	13.2	125 985	10 403	12.1	129 255	11 324	11.4		
Purchased Power											
THI Related	31 344	1 065	29.4	15 672	532	29.4	0	0	-	(15 672)	(15 672)
Salem	0	0	-	0	0	-	0	0	-		
Beverly & Cogen.	360	12	30.0	360	12	30.0	360	12	30.0		
Total Purchased Pwr.	31 704	1 077	29.4	16 032	544	29.5	360	12	30.0		
GPU Purchase	6 474	136	47.6	2 047	43	47.6	0	0	-	(4 427)	(2 047)
GPU Purchase	430	6	70.3	0	0	-	0	0	-	(430)	
GPU Sale	(8 156)	(219)	37.2	(8 156)	(219)	37.2	(17 075)	(459)	37.2		(8 919)
GPU Sale Units	(20 466)	(1 046)	19.6	(29 400)	(1 728)	17.0	(34 457)	(2 114)	16.3	(8 934)	(5 057)
Short Term	(16 435)	(559)	29.4	(8 224)	(280)	29.4	0	0		8 211	8 224
Total Energy	116 826	8 763	13.3	98 284	8 763	11.2	78 083	8 763	8.9	(18 542)	(20 201)

Reduce Purchase Power 50%
 Adjust PJM Purchases
 Remove GPU Purchases
 Balance GPU Sales
 Additional GPU Sales at
 Non THI Generation Rate
 { (1728) - (1046) } 13.1 = (8934)

Remove Purchase Power
 Remove PJM Purchases
 Adjust PJM Sales
 Balance GPU Sales
 Additional GPU Sales at
 Non THI Generation Rate
 { (2114) - (1728) } 13.1 = (5057)

IMI Accident Effect on Energy Cost
Met-Ed April-December 1979

	Actual			Add Normal IMI-1			Add Normal IMI-2			IMI-1 Effect	IMI-2 Effect
	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/GWH	\$1,000	GWH	\$/MWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) = (4)-(1)	(11) = (7)-(4)
Generation											
Non IMI	48 654	3 216	15.1	48 654	3 216	15.1	48 654	3 216	15.1		
IMI-1	9	(16)	-	5 428	2 054	2.6	5 428	2 054	2.6	5 419	
IMI-2	10	(33)	-	10	(33)	-	6 551	1 810	3.6		6 541
Total Generation	48 673	3 167	15.4	54 092	5 237	10.3	60 633	7 080	8.6		
Purchased Power											
IMI Related	62 688	2 130	29.4	31 344	1 065	29.4	0	0	-	(31 344)	(31 344)
Salon	0	0	-	0	0	-	0	0	-		
Borderline & Copen.	0	0	-	0	0	-	0	0	-		
Total Purchased Power	62 688	2 130	29.4	31 344	1 065	29.4	0	0	-		
IMI Purchase	43 566	1 018	42.8	13 782	322	42.8	0	0	-	(29 784)	(13 782)
GPU Purchase	9 485	409	23.2	1 870	109	18.7*	0	0	-	(7 615)	(1 870)
IMI Sale	(7 747)	(225)	34.4	(7 747)	(225)	34.4	(16 202)	(471)	34.4		(8 455)
GPU Sale	(5 919)	(135)	44.0	(5 919)	(135)	44.0	(7 580)	(245)	30.9		(1 661)
Total Energy	150 746	6 364	23.7	87 422	6 364	13.7	36 851	6 364	5.8	(63 324)	(50 571)

Reduce Purchase Power 502
 Adjust PJM Purchases
 Balance GPU Purchases

*PN Sales Rate

Remove Purchase Power
 Remove PJM Purchases
 Remove GPU Purchases
 Adjust PJM Sales
 Balance GPU Sales
 Additional GPU Sales
 at Non IMI Generation Rate

$$\{(245)-(135)\} 15.1 = (1661)$$

THI Accident Effect on Energy Cost
Jersey April-December 1979

	Actual			Add Normal THI-1			Add Normal THI-2			THI-1 Effect	THI-2 Effect
	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/MWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(4-1)	(11)-(7-4)
Generation											
Normal THI	84 516	6 038	14.0	84 516	6 038	14.0	84 516	6 038	14.0		
THI-1	1	(8)	-	2 714	1 027	2.6	2 714	1 027	2.6	2 713	
THI-2	0	(16)	-	0	(16)	-	2 275	905	3.6		3 275
Total Generation	84 517	6 014	14.1	87 230	7 049	12.4	90 505	7 970	11.4		
Purchased Power											
THI Related	31 544	1 065	29.6	15 772	533	29.6	0	0	-	(15 772)	(15 772)
Sales	0	0	-	0	0	-	0	0	-		
Borderline & Cogen.	0	0	-	0	0	-	0	0	-		
Total Purchased Power	31 544	1 065	29.6	15 772	533	29.6	0	0	-		
FBI Purchase	70 064	1 785	39.2	22 109	564	39.2	0	0	-	(47 955)	(27 109)
GPU Purchase	33 064	1 327	24.9	41 673	2 013	20.4	42 037	2 359	17.8	8 609	364
FBI Sale	(9 329)	(128)	73.0	(9 329)	(128)	73.0	(19 564)	(268)	73.0		(10 233)
GPU Sale	(159)	(2)	66.1	0	0	-	0	0	-	159	
Total Energy	209 701	10 061	20.8	157 455	10 061	15.7	112 978	10 061	11.2	(52 246)	(44 477)

Reduce Purchase Power 50%
Adjust FBI Purchases
Remove GPU Sales
Balance GPU Purchases

Remove Purchase Power
Remove FBI Purchases
Balance GPU Purchases

TMI Accident Effect on Energy Cost
GPU Calendar Year 1980

	Actual			Add Normal TMI-1			Add Normal TMI-2			TMI-1 Effect	TMI-2 Effect
	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/MWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) = (4-1)	(11) = (7-4)
Generation											
Gen. TMI	400 521	22 756	17.6	400 521	22 756	17.6	400 521	22 756	17.6		
TMI-1	37	(41)	-	15 120	4 845	3.1	15 120	4 845	3.1	15 083	
TMI-2	16	(56)	-	16	(56)	-	14 853	4 156	3.6		14 837
Total Generation	400 574	22 659	17.7	415 657	27 545	15.1	430 494	31 757	13.6		
Purchased Power											
TMI Related	358 060	11 105	32.2	219 346	6 812	32.2	83 720	2 600	32.2	(138 714)	(135 626)
Nuclear	0	0	-	0	0	-	0	0	-		
Gasoline & Cogen.	622	20	31.1	622	20	31.1	622	20	31.1		
Total Purchased Pwr.	358 682	11 125	32.2	219 968	6 832	32.2	84 342	2 620	32.2		
PJM Purchase	133 150	2 428	54.8	100 634	1 835	54.8	100 634	1 835	54.8	(32 516)	
GPU Purchase	26 700	805	33.2	41 090	1 733	23.7	49 873	2 287	21.8		
PT Sale	(52 532)	(1 208)	43.5	(52 532)	(1 208)	43.5	(52 532)	(1 208)	43.5		
GPU Sale	(26 700)	(805)	33.2	(41 090)	(1 733)	23.7	(49 873)	(2 287)	21.8		
Total Energy	839 874	35 004	24.0	683 727	35 004	19.5	562 938	35 004	16.1	(156 147)	(120 789)

PJM Purchase from TMI 2 Case

Balance Purchase Power

Use 2600 GWH Purchase Power to
replace Oyster Creek

Remove Remaining Purchase Power

Balance PJM Purchases

TMI Accident Effect on Energy Cost
Penelec Calendar Year 1980

	\$1,000	Actual GWh	\$/MWh	\$1,000	GWh	\$/GWh	\$1,000	GWh	\$/MWh	TMI-1 Effect \$1,000	TMI-2 Effect \$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(4)-(1)	(11)-(7)-(4)
Generation											
Non TMI	168 388	11 477	14.7	168 388	11 477	14.7	168 388	11 477	14.7		
TMI-1	9	(10)	-	3 780	1 211	3.1	3 780	1 211	3.1	3 771	
TMI-2	4	(14)	-	4	(14)	-	3 713	1 039	3.6		1 709
Total Generation	168 401	11 453	14.7	172 172	12 674	13.6	175 881	13 727	12.8		
Purchased Power											
TMI Related	52 751	1 665	32.1	26 386	822	32.1	0	0	-	(26 365)	(26 386)
Salmon	0	0	-	0	0	-	0	0	-		
ForcedTime & Cogen.	622	20	31.1	622	20	31.1	622	20	31.1		
Total Purchased Pwr.	53 373	1 665	32.1	27 008	842	32.1	622	20	31.1		
PPI Forchase	10 860	162	66.9	8 162	122	66.9	8 162	122	66.9	(2 698)	
GPU Forchase	1 552	18	87.4	0	0	-	0	0	-	(1 552)	
PPI Sale	(13 234)	(339)	39.1	(13 234)	(339)	39.1	(13 234)	(339)	39.1		
GPU Sale	(15 771)	(639)	24.7	(20 769)	(979)	24.2	(24 165)	(1 210)	20.0	(4 998)	(3 396)
Total Energy	305 181	12 320	16.7	173 339	12 320	14.1	147 266	12 320	12.0	(31 842)	(26 073)

50% Reduction in TMI Purchase Power
Remove GPU Purchases
Adjust PJM Purchases

Balance GPU Sales
Added GPU Sales at Non TMI
Generation Rate

$$[(979)-(639)] 14.7 = (4998)$$

Remove Purchased Power

Balance GPU Sales
Added GPU Sales at Non TMI
Generation Rate

$$[(1210)-(979)] 14.7 = (3396)$$

TMI Accident Effect on Energy Cost
Net-Ed Calendar Year 1980

	\$1,000	Actual	\$/MWH	\$1,000	Add Normal TMI-1	\$/MWH	\$1,000	Add Normal TMI-2	\$/MWH	TMI-1 Effect	TMI-2 Effect
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(4)-(1)	(11)-(7)-(4)
Generation											
Base TMI	89 350	5 436	16.4	89 350	5 436	16.4	89 350	5 436	16.4		
TMI-1	19	(21)	-	7 560	2 423	3.1	7 560	2 423	3.1	7 541	
TMI-2	8	(28)	-	8	(28)	-	7 427	2 078	2.6		7 419
Total Generation	89 377	5 387	16.6	96 918	7 831	12.4	104 337	9 337	10.5		
Purchased Power											
Base Purchased	110 691	3 566	31.0	55 273	1 783	31.0	0	0	-	(55 418)	(55 273)
Sales	0	0	-	0	0	-	0	0	-		
Total Cogen. & Cogen.	0	0	-	0	0	-	0	0	-		
Total Pur. Pwr.	110 691	3 566	31.0	55 273	1 783	31.0	0	0	-		
GPU Purchase	12 063	190	63.6	9 158	144	63.6	9 158	144	63.6	(2 905)	
GPU Purchase	843	24	35.5	0	0	-	0	0	-	(843)	
GPU Sale	(14 575)	(461)	31.6	(14 575)	(461)	31.6	(14 575)	(461)	31.6		
GPU Sale	(10 629)	(163)	65.4	(20 321)	(754)	27.0	(25 618)	(1 077)	23.8	(9 692)	(5 297)
Total Energy	187 770	8 543	22.0	126 453	8 543	14.8	73 302	8 543	8.6	(61 317)	(53 151)

50% Reduction in TMI Purchase Power
Eliminate GPU Purchases
Adjust PJM Purchases

Balance GPU Sales
Added GPU Sales at Non TMI
Generation Rate

$$\{(754)-(163)\} 16.4 = (967)$$

Remove Purchased Power

Balance GPU Sales
Added GPU Sales at Non TMI
Generation Rate

$$\{(1077)-(754)\} 16.4 = (5297)$$

IMI Accident Effect on Energy Cost
Jersey Calendar Year 1980

	Actual			Add Normal IMI-1			Add Normal IMI-2			IMI-1 Effect	IMI-2 Effect
	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/GWH	\$1,000	GWH	\$/MWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) = (4-1)	(11) = (7-4)
Generation											
Non IMI	142 783	5 843	24.4	142 783	5 843	24.4	142 783	5 843	24.4		
IMI-1	9	(10)	-	3 780	1 211	3.1	3 780	1 211	3.1	3 771	
IMI-2	4	(14)	-	4	(14)	-	3 713	1 039	3.6		3 709
Total Generation	142 796	5 819	24.5	146 567	7 040	20.8	150 276	8 093	18.6		
Purchased Power											
IMI Related	194 618	5 894	33.0	137 687	4 207	32.7	83 720	2 600	33.0	(56 931)	(53 967)
Salem	0	0	-	0	0	-	0	0	-		
Borderline & Cogen.	0	0	-	0	0	-	0	0	-		
Total Purchased Pwr.	194 618	5 894	33.0	137 687	4 207	32.7	83 720	2 600	33.0		
FJM Purchase	110 227	2 076	53.1	83 314	1 569	53.1	83 314	1 569	53.1	(26 913)	
GPU Purchase	24 305	763	31.9	41 090	1 733	23.7	49 783	2 287	21.8	16 785	8 693
FJM Sale	(24 723)	(408)	60.6	(24 723)	(408)	60.6	(24 723)	(408)	60.6		
GPU Sale	(300)	(3)	90.6	0	0	-	0	0	-	300	
Total Energy	446 923	14 141	31.6	381 935	14 141	27.2	342 370	14 141	24.2	(62 988)	(41 565)

Adjust FJM Purchases
Adjust GPU Purchases
Remove GPU Sales
Balance Purchase Power

Use 2600 GWH Purchase Power
to replace Oyster Creek
Remove Remaining Purchase Power
Balance GPU Purchases

TMI Accident Effect on Energy Cost
GPM Calendar Year 1981

	Actual			Add Normal TMI-1			Add Normal TMI-2			TMI-1 Effect	TMI-2 Effect
	\$1,000 (1)	GWH (2)	\$/GWH (3)	\$1,000 (4)	GWH (5)	\$/GWH (6)	\$1,000 (7)	GWH (8)	\$/GWH (9)	\$1,000 (10) = (4-1)	\$1,000 (11) = (7-4)
Generation											
Non TMI	435 319	22 354	19.5	435 319	22 354	19.5	435 319	22 354	19.5		
TMI-1	731	(56)	-	17 427	4 331	3.6	17 427	4 831	3.6		
TMI-2	13	(31)	-	13	(31)	-	17 111	4 937	2.5		
Total Generation	436 063	22 267	19.6	452 759	27 154	16.7	469 857	32 122	14.6	16 696	17 098
Purchased Power											
TMI Related	361 505	10 675	33.9	196 213	5 788	33.9	0	0	-	(165 292)	(196 213)
Salmon	41 872	1 217	34.4	41 872	1 217	34.4	41 872	1 217	34.4		
Berberline & Cogen.	613	14	42.8	613	14	42.8	613	15	42.8		
Total Purchased Pwr.	403 990	11 906	33.9	238 698	7 019	34.0	42 485	1 231	34.5		
PJM Purchase	117 796	2 047	57.5	117 796	2 047	57.5	117 796	2 047	57.5		
GPM Purchase	25 148	675	37.3	39 340	1 469	26.8	63 590	2 797	22.7		
PJM Sale	(52 217)	(1 294)	40.4	(52 217)	(1 294)	40.4	(19 122)	(474)	40.3		33 095
GPM Sale	(25 148)	(675)	37.3	(39 340)	(1 469)	26.8	(63 590)	(2 797)	22.7		
Total Energy	905 632	34 926	25.9	757 036	34 926	21.7	611 016	34 926	17.5	(148 596)	(146 020)

Adjust TMI Related Purchase Pwr.

Eliminate TMI Purchase Pwr.
Balance PJM Sales

TMI Accident Effect on Energy Cost
Pencelec Calendar Year 1981

	Actual			Add Normal TMI-1			Add Normal TMI-2			TMI-1 Effect TMI-2 Effect	
	\$1,000	GWh	\$/MWh	\$1,000	GWh	\$/MWh	\$1,000	GWh	\$/MWh	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(4)-(1)	(11)-(7)-(4)
Generation											
Base TMI	195 070	11 448	17.0	195 070	11 448	17.0	195 070	11 448	17.0		
TMI-1	244	(14)	-	4 357	1 208	3.6	4 357	1 208	3.6	4 113	
TMI-2	4	(8)	-	4	(8)	-	4 278	1 234	3.5		4 274
Total Generation	195 318	11 426	17.1	199 431	12 648	15.8	203 705	13 890	14.7		
Purchased Power											
TMI Related	56 076	1 687	33.2	28 038	844	32.2	0	0	-	(28 038)	(28 038)
Sales	0	0	-	0	0	-	0	0	-		
Borderline & Cogen.	596	14	42.6	596	14	42.6	596	14	42.6		
Total Purchased Pwr.	56 672	1 701	33.3	28 634	858	33.4	596	14	42.6		
Fuel Purchase	11 486	171	67.3	11 486	171	67.3	11 486	171	67.3		
GPU Purchase	1 243	19	65.4	0	0	-	0	0	-	(1 243)	
Fuel Sale	(11 535)	(319)	36.1	(11 535)	(319)	36.1	(4 224)	(117)	36.1		7 311
GPU Sale	(15 463)	(553)	28.0	(21 583)	(913)	23.6	(31 783)	(1 513)	21.0	(6 120)	(10 200)
Total Energy	217 721	12 445	19.1	206 433	12 445	16.6	179 780	12 445	14.4	(31 288)	(26 653)

50% Reduction in TMI Purchase Power
Remove GPU Purchases
Balance GPU Sales
Additional GPU Sales at Non TMI
Generation Rate

$$[(913)-(553)] 17.0 = (6120)$$

Remove TMI Purchase Power
Adjust PJM Sales
Balance GPU Sales
Additional GPU Sales at Non TMI
Generation Rate

$$[(1513)-(913)] 17.0 = (10200)$$

TMI Accident Effect on Energy Cost
Met-Ed Calendar Year 1981

	Actual			Add Normal TMI-1			Add Normal TMI-2			TMI-1 Effect	TMI-2 Effect
	\$1,000	GWH	\$/MWH	\$1,000	GWH	\$/GWH	\$1,000	GWH	\$/MWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(4-1)	(11)-(7-4)
Generation											
Non-TMI	93 968	4 881	19.3	93 968	4 881	19.3	93 968	4 881	19.3		
TMI-1	487	(28)	-	8 713	2 415	3.6	8 713	2 415	3.6	8 226	
TMI-2	9	(15)	-	9	(15)	-	8 555	2 469	3.5		8 546
Total Generation	94 464	4 838	19.5	102 690	7 281	14.1	111 236	9 765	11.4		
Purchased Power											
TMI Related	128 585	3 975	32.3	64 293	1 988	32.3	0	0	-	(64 292)	(64 293)
Sales	0	0	-	0	0	-	0	0	-		
Bank-Line & Cogen.	11	0	-	11	0	-	11	0	-		
Total Purchased Pwr.	128 596	3 975	32.3	64 304	1 988	32.3	11	0	-		
PJM Purchase	5 606	83	67.5	5 606	83	67.5	5 606	83	67.5		
GPU Purchase	537	15	35.7	0	0	-	0	0	-	(537)	
PJM Sale	(12 014)	(366)	32.8	(12 014)	(366)	32.8	(4 395)	(134)	32.8		7 619
GPU Sale	(9 246)	(115)	80.7	(17 757)	(556)	31.9	(31 807)	(1 284)	24.8	(8 511)	14 050
Total Energy	207 943	8 430	24.7	142 829	8 430	18.9	80 651	8 430	9.6	(65 114)	(62 178)

50% Reduction in TMI Purchase Power
Remove GPU Purchases
Balance GPU Sales
Additional GPU Sales at Non TMI
Generation Rate

$$\{(556)-(115)\} 19.3 = (8511)$$

Remove TMI Purchase Power
Adjust PJM Sales
Balance GPU Sales
Additional GPU Sales at Non TMI
Generation Rate

$$\{(1284)-(556)\} 19.3 = (14050)$$

THI Accident Effect on Energy Cost
Jersey Calendar Year 1981

	Actual			Add Normal TH1-1			Add Normal TH1-2			TH1-1 Effect	TH1-2 Effect
	\$1,000	GWH	\$/GWH	\$1,000	GWH	\$/GWH	\$1,000	GWH	\$/GWH	\$1,000	\$1,000
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(4)-(1)	(11)-(7)-(4)
Generation											
Non-TH1	146 281	6 025	24.3	146 281	6 025	24.3	146 281	6 025	24.3		
TH1-1	0	(14)	-	4 357	1 208	3.6	4 357	1 208	3.6	4 357	
TH1-2	0	(8)	-	0	(8)	-	4 278	1 234	3.5		4 278
Total Generation	146 281	6 003	24.4	150 638	7 225	20.8	154 916	8 467	18.3		
Purchased Power											
TH1 Purchased	176 844	5 013	35.3	103 882	2 956	35.1	0	0	-	(72 962)	(103 882)
Sales	41 872	1 217	34.4	41 872	1 217	34.4	41 872	1 217	34.4		
Transfer Line & Cogen.	6	0	-	6	0	-	6	0	-		
Total Purchased Pwr.	218 722	6 230	35.1	145 760	4 173	34.9	41 878	1 217	34.4		
TH1 Purchase	100 704	1 793	56.2	100 704	1 793	56.2	100 704	1 793	56.2		
GPU Purchase	23 368	641	36.5	39 340	1 469	26.8	63 590	2 797	22.7	15 972	24 250
TH1 Sale	(28 668)	(609)	47.1	(28 668)	(609)	47.1	(10 503)	(223)	47.1		18 165
GPU Sale	(439)	(7)	60.6	0	0	-	0	0	-	439	
Total Energy	459 968	14 051	32.7	407 774	14 051	29.0	350 585	14 051	25.0	(52 194)	(57 189)

Adjust TH1 Purchase Power
Remove GPU Sales
Balance GPU Purchases

Remove TH1 Purchase Power
Adjust PJM Sales
Balance GPU Purchases