



CATALYTIC, INC.

P. O. BOX 151, MIDDLETOWN, PENNSYLVANIA 17057

E-26

TMI-240

12 February 1979

Mr. C. J. O'Neill
Metropolitan Edison Company
P. O. Box 542
Reading, Pennsylvania 19603

Subject: Catalytic, Inc. Contract No. 36590
Supplemental Maintenance & New Construction Service
Met. Ed. - TMI - Units 1 and 2
Final Cost Report thru 31 December 1978

Dear Mr. O'Neill:

In response to your letter dated 10 January 1979, attached is an updated Final Cost Report. This report covers expenditures by CATALYTIC, INC. TMI - Unit #2 thru 31 December 1978. As agreed, quantities have not been updated.

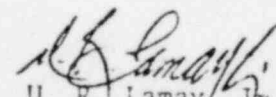
By e on 31 January you requested that in addition to updating the information from our earlier report, we provide 1) average number of men per month (by craft) for each month during the period August '77 - August '78, and 2) man-hours per month (by craft) for the same period. CATALYTIC's accounting system at TMI accumulates data by craft for specific tasks and accounts, and summarizes by total job (includes Unit 1 and 2). In addition there is a daily Force Report reflecting how many of each craft for each TMI unit were brassed in on a given day. By manually averaging the Force Report data, item #1 above can be derived; two to three days dedicated effort for one person will be required. Item #2 will necessitate appreciable manual extraction and compilation; two to three weeks of dedicated effort will be required.

The personnel resources required for these tasks are not available without diversion from current higher priority work. I strongly recommend that you withdraw your request for these items.

If you determine that these report elements are required, it is requested that the effort be authorized by Mr. C. R. Montgomery.

If you have any further questions concerning this matter please do not hesitate to contact the originator or G. M. Huggins.

Very truly yours,


U. R. Lamay, Jr.
Project Manager

URL/jw

cc: C. R. Montgomery J. A. Murryny
 J. T. Faulkner M. R. Gross, Jr.
 R. W. Heward G. M. Huggins
 E. J. Miller
 T.S.J. Uilkema
 J. J. Barton
 File

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CATALYTIC, INC. FINAL COST REPORT
 Three Mile Island - Unit #2
 Report Date: December 31st, 1978

ITEM #1

FINAL COST REPORT SUMMARY

	<u>MANHOURS</u>	<u>COST</u>
Direct Labor	396,859	7,163,168
Indirect Labor	412,865	4,395,652
Premium Time	111,416	1,393,903
Subcontract Support	33,039	468,046
Startup Support	<u>90,875</u>	<u>1,404,156</u>
TOTAL LABOR	1,045,054	14,824,925
Subcontracts	---	1,213,133
Material	<u>---</u>	<u>4,138,457</u>
TOTAL	1,045,054	20,176,515

ITEM #2

MAN-MONTHS AND MANHOURS BY CRAFT & SUPERVISION/STAFF

	<u>MANHOURS</u>	<u>MAN-MONTHS</u>
Craft Labor	933,638	5492
Supervision & Staff	<u>174,916</u>	<u>1029</u>
TOTAL	1,108,554	6521

* MAN-MONTH = 170 MANHOURS

CATALYTIC, INC. - FINAL COST REPORT
 Three Mile Island - Unit #2
 Report Date: December 31st, 1978

ITEM #2	<u>EXPENDED MANHOURS BY CRAFT</u>		
<u>CRAFT</u>	<u>CONSTRUCTION</u>	<u>MAINTENANCE</u>	<u>TOTALS</u>
Asbestos Workers	-0-	5,657	5,657
Boilermakers	393	31,754	32,147
Bricklayers	79	-0-	79
Carpenters	32,568	38,167	70,735
Cement Finishers	14,215	286	14,501
Electricians	111,658	158,527	270,185
Ironworkers	31,111	15,908	47,019
Laborers	42,888	82,445	125,333
Millwrights	-0-	44,381	44,381
Operating Engineers	8,913	1,648	10,561
Painters	-0-	1,773	1,773
Pipefitters	139,054	161,092	300,146
Teamsters	<u>1,474</u>	<u>9,647</u>	<u>11,121</u>
Total	382,353	551,285	933,638

CATALYTIC, INC.
FINAL COST REPORT
TMI - Unit #2
Report Date 12/32/78

ITEM #3 Direct Craft Worked Manhours Curve

Causes of major changes between weekly expenditures:

W/E	7/09/78	Holiday - Independence Day
	9/10/78	Holiday - Labor Day
	10/08/78	Priority job - overtime - Diesel fuel transfer
	10/29/78	Priority job - overtime - Generator Exciter
	11/12/78	Turbine Screen Outage
	11/19/78	Turbine Screen Outage
	11/26/78	Holiday - Thanksgiving
	12/03/78	Hunting Season
	12/24/78	Priority job - overtime - Condensate Polisher

CATALYTIC, INC.
 FINAL COST REPORT
 TMI - Unit #2
 Report Date: 12/31/78



CATALYTIC FINAL COST REPORT
Three Mile Island - Unit #2
Report Date: December 31st, 1978

ITEM #4

DIRECT CRAFT MANHOURS BY MONTH AND CUMMULATIVE

	<u>MONTH</u>	<u>CURRENT</u>	<u>CUMMULATIVE</u>
1977	August	2,305	2,305
	September	39,845	42,150
	October	41,485	83,635
	November	62,417	146,052
	December	90,311	236,363
1978	January	81,800	318,163
	February	23,199	341,362
	March	7,299	348,661
	April	6,568	355,229
	May	1,703	356,932
	June	2,532	359,464
	July	3,855	363,319
	August	3,784	367,103
	September	2,835	369,938
	October	5,492	375,430
	November	11,614	387,044
	December	9,815	396,859

CATALYTIC FINAL COST REPORT

Project #36592

TMI - Unit #2

Report Date: December 31st., 1978

ITEM #5

START UP CRAFT MANHOURS BY MONTH/BY CRAFT

	<u>9/77-5/78</u>	<u>6/78</u>	<u>7/78</u>	<u>8/78</u>	<u>9/78</u>	<u>10/78</u>	<u>11/78</u>	<u>12/78</u>	<u>TOTAL</u>
Asbestos Workers			12	16	95	170	12		305
Boilermakers	758			8		67			833
Carpenters	1156	16	19	135	82	147			1555
Electricians	39289	389	1	9	141	16			39845
Ironworkers	523								523
Laborers	267		6	45	19	110			447
Millwrights	12564	236		16	136	113			13065
Operating Engineers	37								37
Painters				2					2
Pipefitters	32592	329	171	87	230	564	11		33984
Teamsters	216			9	14	40			279
TOTALS	87402	970	209	327	717	1227	23		90875

CATALYTIC FINAL COST REPORT
Three Mile Island - Unit #2
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Items #6 - 9 Subcontracts

Catalytic engaged only two subcontractors at TMI - Unit #2.

These were service subcontractors with no reportable manhours.

Dollar costs are recorded below:

Harry F. Ortlip	Original P.O.	\$ 100,000.00
	Supplements	<u>\$ 194,808.00</u>
	Total	\$ 294,808.00
J. P. Modesto	Original P.O.	\$ 50,000.00
	Supplements	<u>\$ 868,325.00</u>
	Total	\$ 918,325.00
Total Subcontract Costs		<u><u>\$1,213,133.00</u></u>