

ETHYL CORPORATION

INTER-OFFICE

File
B-2028

To	Mr. R. E. Conrad	ADDRESS	BR Plant
FROM	H. B. Beeson	ADDRESS	OAP
SUBJECT	Project B-2028 - VCI Emissions Reduction - EPA	DATE	June 28, 1978

The purpose of this memorandum is to fulfill my commitment to provide you any and all information we have on this job as it develops.

The attached Exhibits A and B represent our current thinking. I understand that the manpower availability has now been resolved in a manner that will provide adequate manning with the right crafts to complete Project 2028 in early October, 1978. I am using a target date of October 6, leaving two weeks for start-up prior to the EPA compliance date of October 21.

Unless I hear from you to the contrary, we will be assured that you can meet these dates presuming we have the materials on hand as forecast.

B
H. B. Beeson

/mbt

Attmts: Exhibit A - Weekly Status Report - Project B-2028
Exhibit B - Ethyl M&C Manpower Forecast, 3 Q '78
Project Construction Forecast, as revised 6/26/78

cc: Messrs. H. O. Bourque
R. M. Carlson
V. O. Mitchell
W. C. Strader

EC 2607

EXHIBIT A -

WEEKLY STATUS REPORT
PROJECT 8 2025 - VCL EMISSIONS REDUCTION - FPA

ITEM	TITLE	CONTROL EST. #/M	MATERIALS ON PLANT	CONSTN	MANHOURS	% of TOTAL CONSTN. %	COMPLETE	PROJ. COMPLETE WEIGHTED %	REMAINING WORK DAYS	CURRENT PAGING ITEM(S)	RESPONSIBLE INDIVIDUAL
4C 1	BACKUP STRIPPER	77	7/7	550	2	95	2			DEL. OF SPARE COLUMN PROCESS SPECS	MELVILLE
4C 9	INCIN. BACKUP- EDC FCE	100	8/14	1500	5	-	-			INSTRUMENT SPECS	STIRLING WEINER
PVC 2	AUTO. PRES. ALARM SYS	25	✓	400	1	95	1				
PVC 4	GASHELD PRES. PROTECTION	28	✓	400	1	-	-			ACTUATOR VALVE SPECS	SUMMERS
PVC 5	FLARE STACK-INCIN. BACKUP	165	✓	3000	11	90	10				
PVC 7	RUPT. DISCS-VCL SAFETY VALVES	27	✓	100	1	50	-				
PVC 8	CONT. SAMPLING-INCIN. STACK GAS	80	✓	600	2	-	-			CONSTN MINORPOWER	THOMPSON
PVC 9	VCL WASTE WATER STRIPPER	504	✓	7200	27	20	5				
PVC 12	VCL EVACUATION	56	✓	800	3	90	3				
PVC 13	POST VAC. VENT CONTROLS	10	✓	200	1	-	-				
PVC 14	VCL REC. SYS. REVISIONS	80	8/14	1200	4	-	-			ACTUATOR VALVE SPECS	SUMMERS
PVC 15	DEGAS. STREAM O ₂ ANALYZER	50	8/28	800	3	-	-			SAMPLING SYS. HOWE	WEINER
PVC 16	BAROMETRIC COND. PIPING	10	7/24	500	2	-	-			DWG APPROVALS	H. SMITH John LEE
PVC 17	INCINERATOR SPARES	50	10/2	-	-	-	-			SPARE. PARTS LIST	JOHN LEE
PVC 18	HEAD SPACE ANALYZER	30	10/16	-	-	-	-			DECISION TO PURCHASE	H. SMITH
PVC 19	STEAM PURGE SYS ADDTNS	10	7/24	200	1	-	-			INSTRUMENT DESIGN	SUMMERS
PVC 20	BROKEN BATCH HANDLING	50	8/28	800	3	-	-			S.S. PIPE & VALVES - DESIGN	SELF
PVC 21	VAC. SYS. MODIFICATIONS	CANCELLED								LETTER OF CANCELLATION	GRIFFIN
PVC 22	EMERG. VENT PREVENTION	25	9/25	100	1	-	-			PROCESS SPECS	GRIFFIN COOKE
<u>COMPLETED ITEMS:</u>											
-	HC 20, 3, 4, 6, & 7	444	✓	6700	25	100	25				
-	PVC 3a, 6, 8a, 10, & 11	124	✓	1850	7	100	7				
CONTINGENCY & RESERVE		455									
TOTAL		2200		26900			53	70*			

* TARGET COMPLETION DATE 10/6/78

HJB 6/27/78

EXHIBIT B - ETHYL MFC MANPOWER FORECAST
30 1978 - "ALL JOBS"

CONSTRUCTION MANMONTHS

JULY AUG SEPT

TEL AREA

APPROVED PROJECTS	40	34	26
PLANNED PROJECTS	<u>4</u>	<u>9</u>	<u>38</u>
TOTAL	44	43	64

H-C AREA

APPROVED PROJECTS	9	13	8
PLANNED PROJECTS	<u>4</u>	<u>11</u>	<u>22</u>
TOTAL	13	24	30

PROJECT CONSTRUCTION FORECAST

ACTION BY: **LYL FORCES (TEL-SOD-PVC-OTHER)**

DATE: **6/1/78**

SR	TITLE	PRIOR-ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	MONTH												M/M CARRY OVER	
								6	7	8	9	10	11	12	1	2	3	4	5		
APPROVED PROJECTS																					
TEL AREA																					
0	Remove A&E Building Hazards (PCO #1 to comp.)	E/C	TEL	10/75	250	5/76	1		1												
5	Replace #2A Blender & #5 Scale Tank - TEL		TEL	11/76	100	8/77	4					4									
5	Improve Furnace Gas Scrubber Service Factor (Unapproved PCO to comp)		TEL	9/76	550	8/77	8				5	3									
5	Fluid Spill Separation Sump & Drains (Emergency Partial App'l) E/C		TEL				0														
4	Furnace Disposal of Sodium Sludge		TEL	10/77	70	1/78	0														
5	Dismantle Idle TEL Facilities	E/C	TEL	5/78	725	3/79	5			3	2										
SODIUM AREA																					
7	Convert Salt Evaporators to Quadruple Effect		SOD	11/77	100	5/78	4			4											
5	Replace Three Roof Fans - Sodium Area		SOD	11/77	110	4/78	14		7	7											
PVC AREA																					
4	PCO 78P Closed Latex Feed System		PVC			9/76	1		1												
4	PCO 96P Latex Pebble Transfer System		PVC			9/76	1		1												
3	PVC 2 Autoclave Pressure Alarm System		PVC	5/78	30	12/78	0														
3	PVC 3a Emulsion Autoclave Batch Sampling		PVC	11/77	43	5/78	0														
3	PVC 4 Gasholder Over-Under Pressure Protection		PVC	11/77	28	5/78			SEE PART 5												
	PVC 5 Flare Stack for Incinerator (HC/PVC)		PVC	11/77	157	5/78	18	18													
	PVC 7 Rupture Disc - VCI Safety Valves		PVC		27	7/78	1		1												
	PVC 8 Continuous Sampling Incinerator Stack Gases		PVC			8/77	4		2	2											
	PVC 9 Water Stripper for PVC Plant Waste Water		PVC	5/78	608	12/78	62	15	16	15	16										
	PVC 12 VCI Evacuation		PVC		57	3/78	1			1											
	PVC 13 Post Vacuum Vent Controls		PVC	5/78	12	12/78	2		1		1										
	Projects \$10M & Under - PVC 1977		PVC	6/77	100	6/78	1	1													

ORATION: Engineering Department

EC 2610

INSTRUCTION BY: [REDACTED] HYL FORCES (TEL-SOD-PVC-OTHER)

DATE: 6/1/78

EC 2611

PROJECT CONSTRUCTION FORECAST

STRUCTION BY: ETHYL FORCES (TEL-SOD-PVC-OTHER)

DATE: 6/1/78

JOB NUMBER	TITLE	PRIOR- ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	1978												1979					M/M CARRY- OVER							
								6	7	8	9	10	11	12	1	2	3	4	5													
	PLANNED PROJECTS - BUDGETED																															
	TEL AREA																															
3332	Pressure Relief Valves - C&D Scale Tanks		TEL	8/78	110		17											6	6	5												
3336	Fluid Spill Sump and Drains (Emergency Partial App'l)		TEL	8/78	50		8				4	4																				
3356	E&C Recovery - B&D Bldgs. (50M/M)		TEL		630					DEFERRED																						
3428	AA Analyzer - TEL		TEL	7/78	515		50						6	5	6	5	6	5	6	5	6	11										
3948	Improve Plant Hygiene - TEL Part 6 (20M/M)		TEL		100					HOLD																						
	SODIUM AREA																															
3226	Replace Evaporator Tubes & Shell		SOD	6/78	77		2						1	1																		
3942	Replace Three Roof Fans - Sodium Area		SOD	11/78	140		14														7	7										
	PVC AREA																															
3028	Part 5 VCI Emission Reduction - EPA (HC/PVC)		PVC							SEE NEXT PAGE																						
3649	Improve Emulsion Reaction Control		PVC	10/78	285		45									8	7	8	7	8	7											
3241	Improved Monomer Recovery		PVC	10/78	280		45									7	8	7	8	7	8											
3244	Provide Facilities - Clean Reactor Technology		PVC	11/78	75		8										4	4														
3252	Projects \$25M & Less - PVC - 1978 (Part 2)		PVC	7/78	50		6		1	1	1	1	1	1																		
	OTHER																															
3262	Improvement to Firewater System		P&U	10/78	100		7													2	3	2										
325	Toxic Substances Regulation (4M/M)		GEN		50					DEFERRED																						
376	Modernize Plant Air System (5M/M)		P&U		172					DEFERRED																						
352	Drill One Shallow Well - 1978 (E/C)		P&U	11/78	220		9									2	2	2	2	1												
	Total Budgeted Projects																															

CORPORATION Engineering Department

EC 2612

6/60/72

FTMYL FORCES (TEL-SOD-PVC-OTHER)

DATE: 6/1/78

EC 2613

PROJECT CONSTRUCTION FORECAST

STRUCTION BY: ETHYL FORCES (TEL-SOD-PVC-OTHER)

DATE: 6/1/78

JOB NUMBER	TITLE	PRIOR- ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	MONTH												H/M CARRY OVER		
								6	7	8	9	10	11	12	1	2	3	4	5			
	PLANNED PROJECTS - NOT BUDGETED																					
	TEL AREA																					
3208	Automate EtCl Feed "D" Bldg.		TEL	11/78	500		73												13	60		
3758	D Bldg. Inspection Port Interlock		TEL	7/78	120				CANCELED													
4014	Install D-2 Lead Scale Pot		TEL	8/78	45		6					6										
4021	Remove Scrubber Solids from Furnace Pits		TEL	6/78			8		3	3	2											
	SODIUM AREA																					
3223	Replace Dummy Cell Cathodes (Substituted)		SOD						DEFERRED													
3303	[3950] Provide Office - CP Area		SOD						HOLD													
3333	[3931] Brine Filter Fan		SOD		20		2					2										
3410	Revise and Repair Exhauster System		SOD	10/78	60		5							1	1	2	1					
4005	Replace No. 2 & 3 Secondary Salt Dryers		SOD						DEFERRED													
	PVC AREA																					
1901	Fourth Refrigeration Machine		PVC	8/78	830		16													16		
3243	Continuous Slurry Stripping		PVC		1100				DEFERRED													
4048	Calisole Oil Usage Reduction		PVC	10/78	40		5						1	2	2							
4049	Reduce Antifoam Usage		PVC	9/78	30		4					2	2									
4051	Recover Latex Tank Heels		PVC	9/78	50		6						2	2	2							
4052	Ammonia Injection to Degasser		PVC	9/78	50		6						2	2	2							

EC 2614

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DATE: 6/1/78

* LESS THAN 1 M/M

RE: 6/1/78

DATE: 6/1/78

EC 2616

PROJECT CONSTRUCTION FORECAST

INSTRUCTION BY: ETHYL FORCES (HC-R&D-OTHER)

11/20/78
DATE: 6/1/78

JOB NUMBER	TITLE	PRIOR- ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	MONTH												W/M CARRY OVER	
								1978					1979								
								6	7	8	9	10	11	12	1	2	3	4	5		
	PLANNED PROJECTS - NOT BUDGETED																				
	HC AREA																				
3370	Reduction of Chlorinated Hydrocarbon Discharge to GPE		HC		200					DEFERRED											
3377	Replace Piping - VCI Furnaces		HC		210					HOLD											
3378	Increased Aftercooler Capacity for AC-21		HC		70					HOLD											
4002	Remove Acetylene from MeCl		HC	7/78	150		11					3	4	4							
	R&D																				
2630	PPE Pilot Plant - R&D		R&D		1000					DEFERRED											
3959	Oxychlorination Vent Gas Incineration		R&D		40		2			2											
	Total Approved Projects						51	8	9	13	8	5	4	3	1						
	Total Planned Projects						236		4	11	22	3	4	4	1	15	23	23	17	109	
	Total Ethyl Forces (H-C-R&D-Other)						287	8	13	24	30	8	8	7	2	15	23	23	17	109	

EC 2617

DATE: 6/1/78

UNIVERSAL (ALL AREAS)

DATE _____

EC 2618

ACTION BY: OTHER CONTRACTORS (ALL AREAS)

DATE: 6/1/78

FEC 2619

PROJECT CONSTRUCTION FORECAST

STRUCTION BY: OTHER CONTRACTORS (ALL AREAS)

DATE: 6/1/78

JOB NUMBER	TITLE	PRIOR- ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	1978												1979					M/M CARRY OVER
								6	7	8	9	10	11	12	1	2	3	4	5						
	PLANNED PROJECTS - BUDGETED																								
	TEL AREA																								
2012	Rotary Furnace Installation		TEL	7/78	500		128					16	16	16	16	16	16	16	16	16					
	SODIUM AREA																								
565	Repair Sodium Bldg. Roof - Central Area		SOD	11/78	750		90								20	25	25	20							
	HC AREA																								
765	Improved MeCl Tank Car Loading (Budgeted by ICD) E/C		HC	6/78	90	.	6		3	3															
	R&D																								
772	Injection Molder - PPE		R&D		110				DEFERRED																
1536	Farrel Roll Mill - PPE		R&D		24				DEFERRED																
	OTHER																								
2029	Waste Solids Disposal (20M/M)		GEN						DEFERRED																
256	Replace South H-C Cooling Tower (E/C)		P&U	9/78	500		40							10	10	10	10								
257	Repair North H-C Cooling Tower (E/C)		P&U	11/78	270		24												8	16					
261	Main High Voltage Substation (Part 1, Engr. Only)		P&U	9/78	300		0																		
3330	Air Regulation (6M/M)		GEN						DEFERRED																
3369	Repair Plant Railroads - 1978 (Part 2)		GEN	1/78	540		100				14	16	16	16	16	16	6								
3751	Lab Modifications - ETC		ETC	9/78	30		4						2	2											
3752	Drill One Shallow Well - 1978 (E/C)		P&U	11/78	220		15							3	3	3	3	3							
	Total Budgeted Projects						407		3	3		14	32	34	67	70	70	55	27	32					

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EC 2620

CORPORATION Engineering Department

PROJECT CONSTRUCTION FORECAST

STATION BY: OTHER CONTRACTORS (ALL AREAS)

DATE:

6/1/78

TITLE	PRIOR- ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	MONTH												M/M CARRY OVER
							1978					1979							
							6	7	8	9	10	11	12	1	2	3	4	5	
PLANNED PROJECTS - NOT BUDGETED																			
TEL AREA																			
Replace Elevator Platform - C Bldg.		TEL	7/78	60		6					6								
PVC AREA																			
External Latex Degassing		PVC	9/78	1200		140									28	28	28	28	28
R&D																			
Special Purpose Lab Modifications		R&D	10/78	350		42											5	5	32
Main Lab Building Modifications		R&D	10/78	600		80											7	7	66
Total Approved Projects						320	30	33	38	39	27	25	15	15	15	15	15	15	38
Total Planned Projects						675		3	3		20	32	34	67	93	98	95	67	158
Total Other Contractors (All Areas)						995	30	36	41	39	47	57	49	82	113	113	110	82	196

EC 2621

PROJECT CONSTRUCTION FORECAST

PUCTION BY: PURCHASE ONLY

17EV 18
DATE: 6/1/78

S SER	TITLE	PRIOR- ITY	AREA	DATE APPRO.	SM APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	MONTH												M/M CARRY OVER
								6	7	8	9	10	11	12	1	2	3	4	5	
	APPROVED PROJECTS																			
	TEL AREA																			
96	Purchase Spare Lead Scale Pot		TEL	3/78	35	9/78					✓									
	SODIUM AREA																			
25	Purchase 2 Sodium Container Forklifts		SOD	1/78	30	9/78					✓									
	HC AREA																			
13	[3290] Purchase Spare Reboiler and Heads		HC	3/78	15						✓									
	PVC AREA																			
32	Spare Equipment - PVC - 1977		PVC	6/77	130	3/78						✓								
	R&D																			
79	Purchase GC/Mass Spectrometer		R&D	11/77	152	2/78					✓									
34	Scanning Electron Microscope		R&D	1/78	154	5/78		✓												
	OTHER																			
31	Automobile Replacement - Baton Rouge 1978		GEN	1/78	7	7/78			✓											
32	Purchase Forklift - HC Maintenance		GEN	1/78	22	7/78					✓									
33	[3750] Replace Copiers - Baton Rouge Plant		GEN	3/78	25	5/78		✓		HOLD										
33	[3941] Purchase Spare MeCl Compressor Crankshaf		GEN	3/78	25	6/78		✓												
36	Purchase Forklifts (Part 1)		GEN	1/78	25	12/78								✓						
35	Replace Control Lab Instruments		GEN	4/78	34	8/78					✓									
31	Purchase 42 Tank Cars		GEN	9/77	1120	1/78		✓		✓										

EC 2622

PROJECT CONSTRUCTION FORECAST

17 07/26/78
DATE: 6/1/78

INSTRUCTION B PURCHASE ONLY

JOB NUMBER	TITLE	PRIOR- ITY	AREA	DATE APPRO.	\$M APPRO.	COMP. DATE ON REQUEST	M/M TO COMP.	1978					MONTH					1979					M/R CARRY OVER
								6	7	8	9	10	11	12	1	2	3	4	5				
	PLANNED PROJECTS - BUDGETED																						
	ENGINEERING																						
3940	Replace Reproduction Equipment - BR Plant		GEN		52																		
	R&D																						
3952	Mercury Porosimeter		R&D		22																		
3953	Thermal Analysis System		R&D		30																		
	OTHER																						
3306	Purchase Forklifts (Part 2)		GEN		35																		
3365	Purchase Tank Cars - 1978		GEN																				
	PLANNED PROJECTS - NOT BUDGETED																						
	PVC																						
3064	Spore FCM Barrel - PVC		PVC	1978	40																		

EC 2623

EC 2623