

INTER-OFFICE MEMO TENNECO CHEMICALS, INC.

TO	G. I. Rozand	AT	Piscataway	DATE	April 14, 1976
FROM	E. V. Schenke	AT	Burlington	COPY TO	J. P. Sandstedt W. Miringoff C. G. Thompson T. T. Zuhl
SUBJECT	ENGINEERING PROJECT SCHEDULES				

In accordance with your request, the following are attached for your use:

- A. Progress Schedules, pages 1 - 14.
- B. Listing of EPA investigations and estimated completion dates.
- C. Listing of Active CAR's and estimated completion dates.
- D. Listing of assigned and scheduled plus unassigned and unscheduled investigations.

This is presently an internal engineering schedule and, as such, is not for general distribution.


E. V. Schenke

EVS:vph
Atts.

EPA PROJECTS

<u>Job No.</u>	<u>Job Title</u>	<u>Engineer</u>	<u>Location</u>	<u>Est. Comp. Date</u>
499	Dispersion Plant Stripping	P. Scheiner	Burlington	8/76
500	Water Drain & Vapor Recovery	E. Schwartz	Burlington	9/76
501	Recovery Compressor Leaks	J. D. Grant	Burlington	7/76
508	Reactor Recovery	P. Scheiner	Burlington	7/76
509	Carbon Absorption	E. J. Schuetz	Burlington	9/76
603	Double Mechanical Seals	I. A. Rumberg	Burlington	7/76
1002	Vessel Openings	E. Schuetz/I. Rumberg	Burlington	9/76
1006	901 Stripping	P. Scheiner	Burlington	8/76
1014	EPA Variance	J. P. Sandstedt	Burlington	8/76
1015	Utilities Review	E. V. Schenke	Burlington	9/76
**	VCM Tank Car Unloading	J. D. Grant	Burlington	8/76
489	Compressor Recovery Room	A. F. Holmes	Flemington	4/76
492	Reactor Recovery	P. Scheiner	Flemington	7/76
498	Carbon Absorption	E. J. Schuetz	Flemington	9/76
536	VCM Unloading Facility	A. F. Holmes	Flemington	7/76
604	Double Mechanical Seals	I. A. Rumberg	Flemington	7/76
1003	Vessel Openings	E. Schwartz/I. Rumberg	Flemington	9/76
1005	Water Drain & Vapor Recovery	E. J. Schuetz	Flemington	8/76
1007	Utilities Review	A. F. Holmes	Flemington	9/76
1012	Pilot Plant EPA Compliance	J. P. Sandstedt	Flemington	7/76
1013	EPA Variances	J. P. Sandstedt	Flemington	8/76
476	Pollution Discharge Elimination	E. J. Schuetz	Fords	5/76

ACTIVE CAR'S

<u>Job No.</u>	<u>Job Title</u>	<u>Engineer</u>	<u>Location</u>	<u>Est. Comp. Date</u>
52-135	Electrical Upgrade	J. P. Sandstedt	Burlington	4/76
52-207	Facilities to Meet EPA-Pt.I	J. P. Sandstedt	Burlington	5/76
52-238	Homopolymer Stripper Cond.	J. D. Grant	Burlington	6/76
52-230	Data Acq. VCM Monitoring	P. L. Wilson	Burlington	6/76
52-237	VCM Emissions Control	E. V. Schenke	Burlington	10/76
52-404	Outside Insulation	J. D. Grant	Burlington	5/76
52-396	Fluid Bed Pellet Cooler	E. V. Schenke	Burlington	11/76
65-023	Plastisol Dryer Stack	E. Schwartz	Burlington	4/76
74-024	Pilot Plant Reactor System	E. Schwartz	Flemington	8/76
74-631	"A" Transfer Noise	P. L. Wilson	Flemington	7/76
52-032	"A" Bulk Transfer System	P. L. Wilson	Flemington	6/76
52-229	Data Acq. VCM Monitoring	P. L. Wilson	Flemington	5/76
61-009	Pilot Plant Monomer Recovery	A. L. Rees	Flemington	10/76
65-080	VCM Process Stacks	A. F. Holmes	Flemington	5/76
65-104	Q. C. Lab Ventilation	A. F. Holmes	Flemington	6/76
74-051	Overhead Steam Line	J. C. Kirkwood	Fords	4/76
74-233	Chlorine Feed Tank	J. C. Kirkwood	Fords	6/76
74-470	Acid Plant Rehabilitation	J. C. Kirkwood	Fords	5/76
74-546	F. M. Insurance Requirements	J. C. Kirkwood	Fords	6/76
73-307	Air Pollution Control	W. W. Merrick	Chestertown	6/76
74-508	Phthalic Anhydride Meter	W. W. Merrick	Chestertown	5/76
52-389	Reactor Support Modifications	W. W. Merrick	Chestertown	5/76

SCHEDULED DEI/ESR's

<u>Job No.</u>	<u>Job Title</u>	<u>Engineer</u>	<u>Location</u>	<u>Est. Comp. Date</u>
160	Noise Abatement	E. V. Schenke	Burlington	n/a
216	Dust Emission-Blend Vents	Unassigned	Burlington	***
337	Individual Styrene Add. Pots	Unassigned	Burlington	***
379	VCM Rail Car Siding	J. D. Grant	Burlington	3/76
403	Spare Vent Condenser	Unassigned	Burlington	***
454	Perimeter VCM Monitoring	Unassigned	Burlington	***
487	Burlington Landfill	E. V. Schenke	Burlington	n/a
502	Homopolymer Stripper Cond.	J. D. Grant	Burlington	6/76
505	Additional Stripper	Unassigned	Burlington	***
541	Sludge Handling	Unassigned	Burlington	***
572	Management Acc't System	E. V. Schenke	Burlington	3/76
577	Pneumatic Convey. Sys.Cmpd.	Unassigned	Burlington	***
601	VCM Tank Level Gauges	J. D. Grant	Burlington	3/76
607	Warehouse Fire Loop	J. D. Grant	Burlington	3/76
1004	Re-Pipe #2 Stripper	I. A. Rumberg	Burlington	***
1008	Dispersion Primary Spoilers	I. A. Rumberg	Burlington	***
	Larger "A" Plant Water Hdr.	J. D. Grant	Burlington	7/76
	Larger Circulation Pumps	J. D. Grant	Burlington	12/76
458	Vinyl Acetate Recovery	Hold per W.M.	Flemington	***
481	R&D Ventilation	A. L. Rees	Flemington	5/76
496	Maintenance Decontamination	A. L. Rees	Flemington	4/76
512	Pilot Plant Exhaust	Comp.	Flemington	Complete
513	Pilot Plant Ventilation	Comp.	Flemington	Complete
517	Bulk Resin Transfer System	A. F. Holmes	Flemington	9/76
548	Copolymer Screening	A. L. Rees	Flemington	5/76
552	Centrifuge Overload	A. L. Rees	Flemington	4/76
565	Noise Level Control	A. F. Holmes	Flemington	4/76
599	VAC Tank Overfill Protect.	Unassigned	Flemington	***
600	Reactor Pressurization	A. L. Rees	Flemington	3/76
602	Reactor Ventilation	I. A. Rumberg	Flemington	4/76
606	Thiostop System	A. L. Rees	Flemington	4/76
1011	Flem/RTRUA	J. P. Sandstedt	Flemington	5/76
364	Stearate Expansion	E. J. Schuetz	Piscataway	Report Issued
477	Secondary Access Road	J. C. Kirkwood	Piscataway	Rept. Iss. 3/
483	Distribution Dept. Assis.	J. C. Kirkwood	Piscataway	As required
574	Resin Handling System	J. C. Kirkwood	Nixon	Due 7/76
583	Industrial Hygiene Lab	E. J. Schuetz	Piscataway	Rept. Iss. 3/
597	Phthaló-Green	E. J. Schuetz	Piscataway	Rept. Iss. 4/
1001	Intermix Station - Lockland	E. J. Schuetz	Piscataway	Due 5/76
567	Bldg. 15 Renovation	J. C. Kirkwood	Fords	Rept. Iss. 3/
568	Liquid Level Changeover	E. J. Schuetz	Fords	Awaiting Plar
579	MCT Caustic Wash	J. C. Kirkwood	Fords	Rept. Iss. 3/

<u>Job No.</u>	<u>Job Title</u>	<u>Engineer</u>	<u>Location</u>	<u>Est. Comp. Date</u>
93	Air Pollution (PA Vent)	W. W. Merrick	Chestertown	Due 5/76
241	Vent Benzoic Acid	W. W. Merrick	Chestertown	Due 4/76
416	N ₂ Unloading of Adipic Acid	W. W. Merrick	Chestertown	Holding per pl
425	Cal Ink Vehicles	W. W. Merrick	Chestertown	Hold for R&D
445	Recovery of Heat/Hot Oil	W. W. Merrick	Chestertown	Due 5/76
555	Increase Cooling Water Cap.	W. W. Merrick	Chestertown	Due 5/76
562	Steam Sparge K-132	W. W. Merrick	Chestertown	Due 4/76
578	Solid Polyester Production	W. W. Merrick	Chestertown	
593	Dust Collection TECO Bagger	W. W. Merrick	Chestertown	Awaiting plant comm.
***	Resin Handling	W. W. Merrick	Chestertown	Due 5/76
***	Cooling Systems Controller	W. W. Merrick	Chestertown	Due 4/76

PLANT SITE: Chestertown

DATE: 4-14-76

ISSUED BY: FVS

PROGRESS SCHEDULE
CAPITAL APPROPRIATION REQUESTS

Tenneco Chemicals, Inc.
P. O. Box 365
Piscataway, N. J. 08854

DESCRIPTION	SCHED.	ACT.	DESCRIPTION	SCHED.	ACT.
QUOTATIONS REQUESTED	X	☒	ENGINEERING COMPLETE	☐	☐
PURCHASE ORDER DATE	▽	▽	FIELD ERECTION START	△	△
EQUIPMENT DELIVERY	◇	◇	FIELD ERECTION COMPL.	○	○
RELEASED TO ENG'G	•	⊙	EQUIPMENT START-UP	○	○

[illegible]

COLORITE 017378

Burlington

4-14-76

Tenneco Chemicals, Inc.

ISSUED BY: EVS.

Piscataway, New Jersey

PROCESS INVESTIGATION	X	PROJECT DESIGN	U
PROCESS DESIGN	▽	PROJECT ESTIMATE	△
PROJECT INVESTIGATION	◇	D&E COMPLETE/REPT. ISSUED	○
RELEASED TO PROJ. ENG.	•		○

Job No.	DESCRIPTION	MANDAYS		PRIORITY	TYPE EST. REQUESTED	% COMPLETE	ORIGINAL ISSUE DATE	ESTIMATED COMPLETION DATE	A-ACTIVE I-INACTIVE	RELEASED TO PROJ. ENG.		ESTIMATED		ACTUAL						
		A. Original	B. Revised							TIME REQUIRED										
		C. Total																		
		To-Date																		
PROC.	PROJ.	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.										
160	Noise Abatement E. V. Schenke	N.A.	A- B- C-	3	C	-	4-72		I	AS REQUESTED.										
216	Dust Emission - Blender Vents	N.A.	A- B- C	2	C	-	6-72		A											
337	Individual Styrene Add. Pots	N.A.	A- B- C	3	C	-	7-73		A											
379	VCM Rail Car Siding J. D. Grant	N.A.	A-35 C-35		C	100	3-74	3-76	I											
403	Spare Vent Condenser	N.A.					4-74													
406	Effluent - Phase II J. D. Grant	N.A.			A	100	5-74	1-76	A	ESTIMATED CONSTRUCTION MAN DAYS										
										10	5	10	10	5	10	10	15			
454	Perimeter VCM Monitoring						10-74													
487	Burlington Landfill E. V. Schenke	N.A.	A-30 B-20 C-15	2	C	100	4-75	11-75	I	FILLING AS AND WHEN REQUIRED.										
										4	3	2	2	4						
499	Dispersion Plant Strip P. Scheiner	A-50 SCHAP	A-38	1	C	0	4-75	8-76	A EPA		*	▽	0							
	Water Drain and Vapor Recov.									8	10	10	10							
500	E. Schwartz	MEDER	A-50	1	C	0	3-76	9-76	A EPA						0					
	Recovery Comp. Leaks									8	8	10	8	8	8					
501	J. D. Grant	N.A.	A-35	1	C	10	2-76	7-76	A EPA		◇	□	0							
5500										5	5	5	5							
NO.																				

COLORITE 017379

ISSUED BY: EVS

Tenneco Chemicals, Inc.

Piscataway, New Jersey

PROCESS INVESTIGATION	X	☒	PROJECT DESIGN	☐
PROCESS DESIGN	▽	☒	PROJECT ESTIMATE	△
PROJECT INVESTIGATION	◇	☐	D&E COMPLETE/REPT. ISSUED	○
RELEASED TO PROJ. ENG.	•	☒		○
TIME REQUIRED	ESTIMATED		ACTUAL	

[illegible]

COLORTITE 017380

ISSUED BY: EUS

Tenneco Chemicals, Inc.

Piscataway, New Jersey

PROCESS INVESTIGATION	X	⊗	PROJECT DESIGN	U
PROCESS DESIGN	▽	⊗	PROJECT ESTIMATE	△
PROJECT INVESTIGATION	◇	⊗	D&E COMPLETE/REPT. ISSUED	○
RELEASED TO PROJ. ENG.	•	⊙		○
TIME REQUIRED	ESTIMATED		ACTUAL	

[illegible]

COLORITE 017381

PLANT SITE: Flemington

DATE: 2 14 76

ISSUED BY: EUS

Tenneco Chemicals, Inc.

Piscataway, New Jersey

PROCESS INVESTIGATION	X	PROJECT DESIGN	U
PROCESS DESIGN	▽	PROJECT ESTIMATE	△
PROJECT INVESTIGATION	◇	D&E COMPLETE/REPT. ISSUED	○
RELEASED TO PROJ. ENG.	*		○
TIME REQUIRED	ESTIMATED	ACTUAL	

Job No.	DESCRIPTION	MANDAYS		PRIORITY	TYPE EST. REQUESTED	Z COMPLETE	ORIGINAL ISSUE DATE	ESTIMATED COMPLETION DATE	A-ACTIVE I-INACTIVE	April May June July August Sept. Oct. Nov. Dec.											
		PROC.	PROJ.																		
	Vinyl Acetate Recovery						11-74	NOT ASSIGN PER W.M.													
458	R&D Ventilation						3-75	5-76	A	◇		□	○								
481	A. L. Rees										5		10								
	Compressor Recovery Room Ventilation		A-10	1	C	50	4-75	4-76	A		△	○									
489	A. F. Holmes (incl. Nash Pumps)		B-10						EPA		2										
	Reactor Recovery	A-10	A-15	1	C	80	4-75	7-76	A			X		▽	○						
492	P. Scheiner	DOUGLAS							EPA		2		5		5						
	Maintenance Decontamination			2	C	100	4-75	4-76	A	○											
496	A. L. Rees																				
	Carbon Absorption		A-10	1	C	0	4-75	9-76	A											○	
508	E. J. Schuetz	JACOBS							EPA				10		5		5		5		
	Pilot Plant Exhaust. System	N.A.		1	B	100	4-75	2-76	I												
512																					
	Pilot Plant Ventilation	N.A.		1	B	100	4-75	2-76	I												
513																					
	Bulk Resin Trans. System Upgrade	N.A.	A-42	2	C	0	4-75	9-76	A										□	△	○
517	A. F. Holmes										2		8		8		8		8		
	VCM Unloading Facility	N.A.	A-20	1	C	10	6-75	7-76	A					□	△	○					
536	A. F. Holmes								EPA		5		5		5		5				
	Copolymer Screening	N.A.	A-10	2	C	40	8-75	5-76	A	◇		□	○								
548	A. F. Holmes										5		5								
550E																					
NO.																					

COLORITE 017382

ISSUED BY: *2/2*

Piscataway, New Jersey

PROCESS INVESTIGATION	X	☒	PROJECT DESIGN	☐
PROCESS DESIGN	▽	☒	PROJECT ESTIMATE	△
PROJECT INVESTIGATION	◇	☒	D&E COMPLETE/REPT. ISSUED	○
RELEASED TO PROJ. ENG.	•	○		○

TIME REQUIRED	ESTIMATED	ACTUAL
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55
NO

COLORITE 017384

PLANT SITE: Miscellaneous

DATE: 2-14-76

ISSUED BY: *LEVS*

Tenneco Chemicals, Inc.

Piscataway, New Jersey

DESCRIPTION	STATUS	DATE	DESCRIPTION	STATUS	DATE
PROCESS INVESTIGATION	X	8/1	PROJECT DESIGN	□	
PROCESS DESIGN	◇	8/1	PROJECT ESTIMATE	△	
PROJECT INVESTIGATION	◇	8/1	D&E COMPLETE/REPT. ISSUED	○	
RELEASED TO PROJ. ENG.	•	8/1		○	
TIME REQUIRED	ESTIMATED		ACTUAL		

[illegible]

COLORTITE 017385

ISSUED BY: *E/S*

Tenneco Chemicals, Inc.

Piscataway, New Jersey

PROCESS INVESTIGATION	X	☒	PROJECT DESIGN	☐
PROCESS DESIGN	▽	☑	PROJECT ESTIMATE	△
PROJECT INVESTIGATION	◇	◐	D&E COMPLETE/REPT. ISSUED	○
RELEASED TO PROJ. ENG.	•	○		○
TIME REQUIRED	ESTIMATED		ACTUAL	

[illegible]

COLORITE 017386

DATE: 4-17-76

Tenneco Chemicals, Inc.

ISSUED BY: EWS

Piscataway, New Jersey

PROCESS DESIGN	▽	▽	PROJECT ESTIMATE	△	△
PROJECT INVESTIGATION	◇	◇	D&E COMPLETE/REPT. ISSUED	○	○
RELEASED TO PROJ. ENG.	9	○		○	○
TIME REQUIRED	ESTIMATED		ACTUAL		

ob no.	DESCRIPTION	MANDAYS		PRIORITY	TYPE EST. REQUESTED	Z COMPLETE	ORIGINAL ISSUE DATE	ESTIMATED COMPLETION DATE	A-ACTIVE I-INACTIVE	TIME REQUIRED												ESTIMATED			ACTUAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		A. Original B. Revised C. Total To-Date	PROC.							PROJ.	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Air Pollution (PA Vent)			1		10	10-71	5-76	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

COLORITE 017387

COLORTITE 017388

ISSUED BY: *EVS*

CAPITAL APPROPRIATION REQUESTS

Piscataway, N. J. 08854

EQUIPMENT DELIVERY	✓	✓	FIELD ERECTION COMPL.	U	U
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[illegible]

COLORITE 017389

ISSUED BY: *EVS*

Piscataway, N. J. 08854

April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
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SUE
Q.

COLORTTE 017390

PLANT SITE: Fords

DATE: 4 14 76

ISSUED BY: EVS

Tenneco Chemicals, Inc.
P. O. Box 365
Piscataway, N. J. 08854

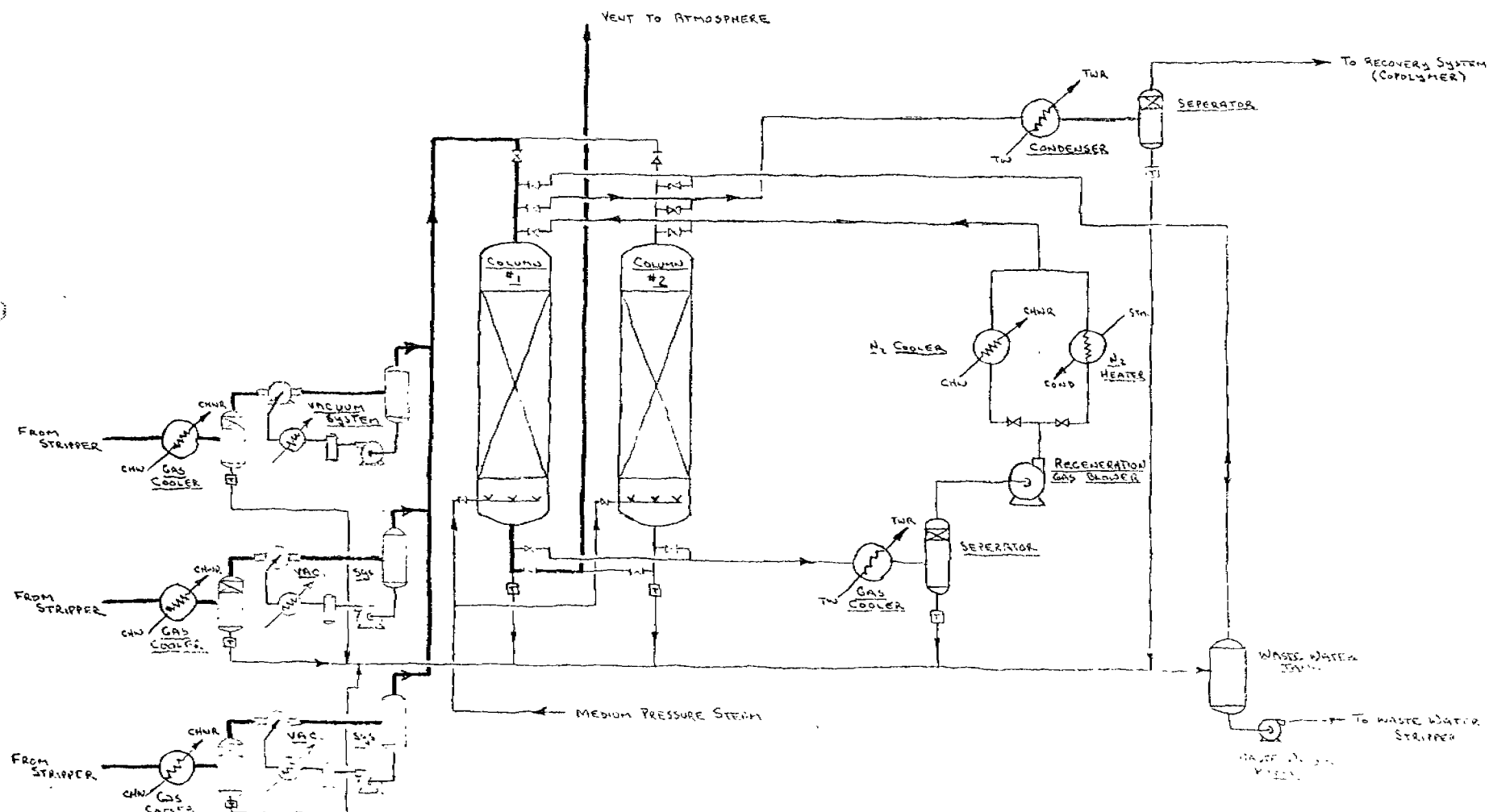
April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
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SUE
O.

COLORTITE 017391

BY E.J.S. DATE 4/20/76 SUBJECT DEI-609 VCM ADSORPTION SHEET NO. OF
 CHKD. BY DATE BIRMINGHAM, DUAL COLUMNS - No. JOB NO.
 N₂ RECYCLE; MULTIPLE USERS PLASTISOL - ARDO

SAME SYSTEM WHETHER SINGLE OR MULTIPLE USERS. SAME TOTAL AMOUNT OF CARBON REQUIRED WHETHER SINGLE OR MULTIPLE USER. LARGER EQUIPMENT BUT FEWER CONTROL SYSTEMS FOR MULTIPLE USE DESIGN.

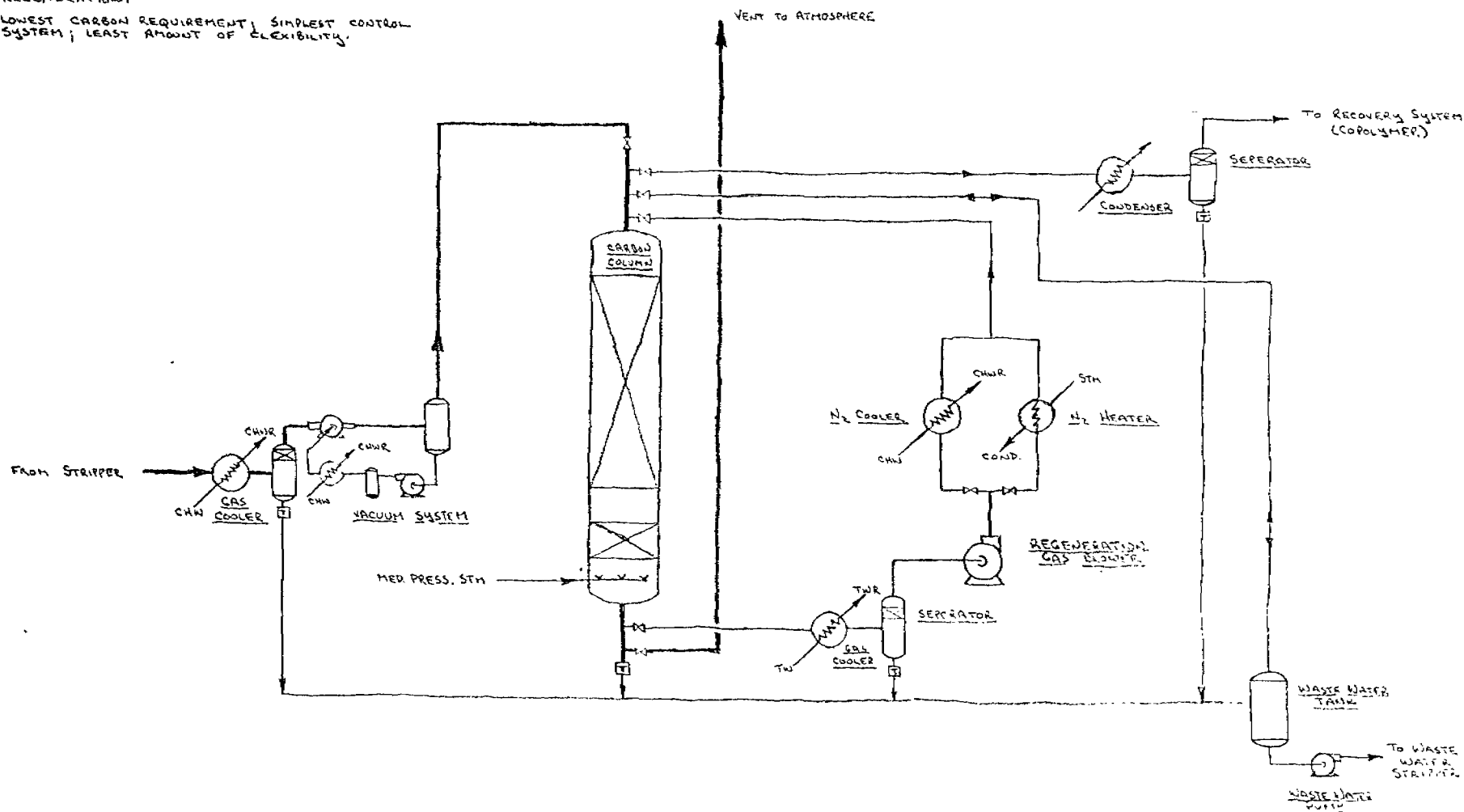


COLORITE 017392

BY E.S. DATE 4/20/76 SUBJECT DET-SO₂ VCM ADSORPTION SHEET NO. OF
 CHKD. BY DATE BURLINGTON; SINGLE COLUMN - No. JOB NO.
N₂ RECYCLE - SCALE USER PLASTISOL & ARDO

SYSTEM IS HIGHLY DEPENDENT UPON A GOOD MATCH BETWEEN STRIPPER CYCLE + CARBON UNIT CYCLE. IDEALLY, STRIPPING SHOULD BE RELATIVELY SHORT PERIOD TO ALLOW ADEQUATE TIME FOR REGENERATION.

LOWEST CARBON REQUIREMENT, SIMPLEST CONTROL SYSTEM; LEAST AMOUNT OF FLEXIBILITY.



COLORITE 017393

BY EWS DATE 4/24/76

CHKD. BY _____ DATE _____

SUBJECT DES. SO₂-N₂ ADSORPTION

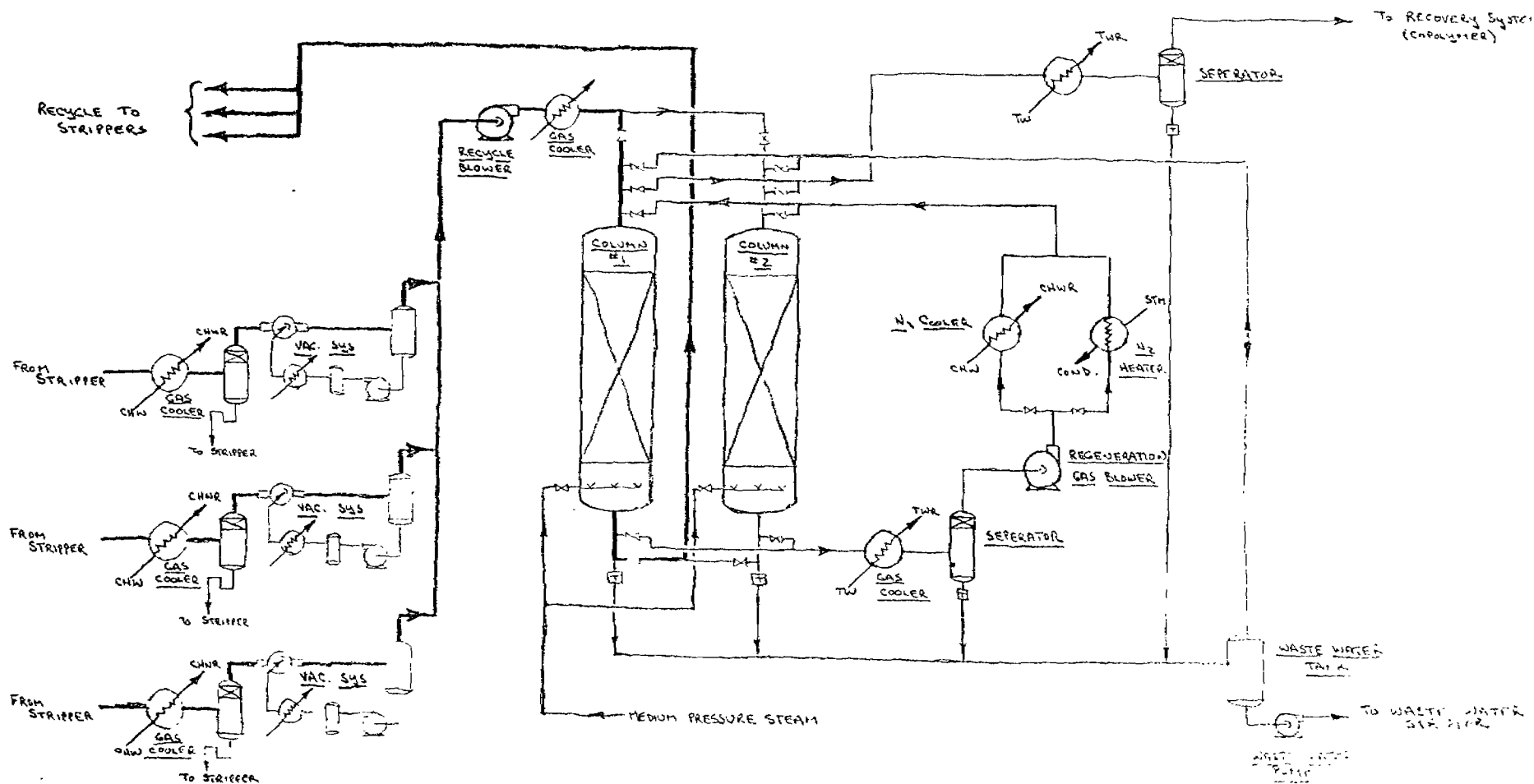
FUNCTION: DUAL COLUMN; NITROGEN

RECYCLE; MULTIPLE USES

SHEET NO. _____ OF _____

JOB NO. _____

PLASTISOL + ARDO



COLORITE 017394

BY _____ DATE _____ SUBJECT DEI-509 VCM ADSORPTION SHEET NO _____ OF _____
 CHKD. BY _____ DATE _____ SYSTEM - BURLINGTON JOB NO _____
PLASTICOL & ARDO STRIPPING

	①	②	③	④	⑤	⑥	⑦	⑧
	DEDICATED SINGLE TOWERS LOW N ₂ RATE	DEDICATED SINGLE TOWERS N ₂ RECYCLE	DEDICATED DUAL TOWERS LOW N ₂ RATE	DEDICATED DUAL TOWERS N ₂ RECYCLE	TWO DUAL TOWER SYSTEMS SET #1 - "A" RT. + ARDO SET #2 - "B" RT LOW N ₂ RATE	TWO DUAL TOWER SYSTEMS SET #1 - "A" RT. + ARDO SET #2 - "B" RT N ₂ RECYCLE	ONE DUAL TOWER SYSTEM LOW N ₂ RATE	ONE DUAL TO- SYSTEM N ₂ RECYCLE
1. <u>ADSORBER TOWERS</u> -								
No. Required	5	5	10	10	4	4	2	2
SIZE	4' 0" x 18' T/T	4' 0" x 18' T/T	4' 0" x 15' T/T	4' 0" x 15' T/T	(6' 0" x 16' 0") (6' 0" x 16' 0")	(6' 0" x 16' 0") (6' 0" x 16' 0")	8' 0" x 18' T/T	8' 0" x 18' T/T
HEIGHT OF CARBON BED	9' + 2'	9' + 2'	11'	11'	12' 6" 14'	12' 6" 14'	13' 9"	13' 9"
CARBON QUANTITY PER TOWER	4200 LBS. (140 cu. ft.)	4200 LBS. (140 cu. ft.)	4200 LBS. (140 cu. ft.)	4200 LBS. (140 cu. ft.)	10500 LBS. (350 cu. ft.) 8400 LBS. (280 cu. ft.)	10500 LBS. (350 cu. ft.) 8400 LBS. (280 cu. ft.)	21000 LBS. (700 cu. ft.)	21000 LBS. (700 cu. ft.)
TOTAL CARBON REQ'D.	21000 LBS.	21000 LBS.	42000 LBS.	42000 LBS.	37800 LBS.	37800 LBS.	42000 LBS.	42000 LBS.
DESIGN BED CAPACITY #VCM/100°C	7#/100#	7#/100#	7#/100#	7#/100#	7#/100#	7#/100#	7#/100#	7#/100#
2. <u>CYCLE TIMES</u>								
ADSORPTION								
REGENERATION - STEAMING								
HEATING								
COOLING								

COLORITE 017395