

REM

UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
ENGINEERING
SOUTH CHARLESTON, WEST VIRGINIA

TRANSMITTAL MEMORANDUM

May 6, 1977

R. E. McEldowney

MAY 16 1977

RECEIVED

PROJECT: VCM Mechanical Projects
Solvent Vinyl Resins Unit
South Charleston Plant
930-2589 - Job No. 87093

DISTRIBUTION:

	<u>Job Transmittal</u>	<u>Job Package</u>
Maintenance Central Planning	10	10
H. L. Wise	1	1
J. L. Worstell/W. C. Young	1	1
L. R. Hart	1	1
T. R. Bailey, Jr.	1	1
D. L. Ryan	1	-
G. G. Weissert	1	-
R. E. McEldowney	1	-
H. M. Keeling	1	-
P. B. Smith	1	-

ITEM: Rupture Discs at North Charleston Storage Facilities - Complete Issue

2nd Order No.

Discipline

5645

Mechanical-Piping

ISSUED FOR: Field fabrication and installation by S. C. Plant Maintenance
Departments.
Billing completed and attached to transmittals.

REMARKS: This is a "High Priority Job" with specific dates that must be met
in order to meet the waiver compliance schedule registered with
EPA regional office.

1. Installation start date - 12-30-77
2. Installation completion date - 4-28-78

Paul B. Smith
Paul B. Smith
82-723 - Ext. 2339

UCC 105130

ISSUE	PLANT ENGINEERING DEPARTMENT JOB TRANSMITTAL	PAGE 1 of 2
☒ COMPLETE	JOB TITLE OR GENERAL JOB DESCRIPTION	JOB NUMBER 87093
PARTIAL NO.	INSTALL RUPTURE DISCS AT V.C.P.	BUILDING NO. NORTH CHARLESTON
☒ FINAL	FOR VCM/EPA COMPLIANCE	PLANT AREA I RACK 09

CHARGES				SAFETY DATA (APPLIES TO PCE JOB PKG ONLY)		SHUT DOWN REQUIRED	
DEPT-SYSTEM	C/E	ORDER NO.	SHOP ORDER NO.	SAFETY DESIGN REVIEW		☒ YES - SCHEDULED FOR	
93000	06	02589	5645	☒ COMPLETED BY <u>J.D. Hutcheson</u> 5/6/77 (Signature and Date)		SEE OPER. DEPT. (Date)	
				☐ OPER. DEPT. HEAD CONDUCTED THE PROCESS SAFETY REVIEW		☐ NO	
ENVIRONMENTAL DATE (APPLIES TO PCE PKG ONLY)				(Signature) _____ DATE _____		CHECK PACKAGE CONTENTS	
ENVIRONMENTAL IMPACT UPDATE INFORMATION				☐ 514 PLE GROUP LEADER CONDUCTED REVIEW OF ALL OTHER DESIGN ASPECTS		SHOP ORDER(s)	
☐ ATTACHED ☒ NOT REQUIRED				SAFETY REVIEW BOARD		CLOSURE CARD(s)	
☐ WILL BE ISSUED ON _____				☒ NOT REQ'D ☐ WILL BE HELD ON _____		☒ 930 BREAKDOWN SHEETS	
By <u>J. V. Vintell</u> ☒ 514 EP GROUP (Signature) ☐ UNIT DPT HEAD				SAFETY CONSIDERATIONS REPORT		☒ BILL OF MATERIAL	
ENVIRONMENTAL/INDUSTRIAL HYGIENE CONSIDERATION APPROVAL				☐ ATTACHED ☒ NOT REQUIRED		EQUIPMENT TRFR NOTICE	
By <u>J. V. Vintell</u> ☒ 514 EP GROUP (Signature) ☐ UNIT DPT HEAD				☐ (WAS/WILL BE) ISSUED ON _____		UTILITY CHANGE NOTICE	

DRAWINGS, SKETCHES, FLOW DIAGRAMS (*)						ASSIGNED ENGINEERS (PCE DENOTES JOB CONTROLLER)		
NO	TYPE DRAWING	DRAWING NUMBER	NO	TYPE DRAWING	DRAWING NUMBER	DISC	NAME	EXT
10	FLOW DIAG.	SK-107212-A				MECH.	PAUL B. SMITH (PCE)	23
10	FLOW DIAG.	SK-107212-B				ELEC.		
10	PIPING DETAIL	SK-107212-A-1				CONT. SYST.		
10	PIPING DETAIL	SK-107212-A-2				CIVIL/ARCH		
10	PIPING DETAIL	SK-107212-B-1				PROCESS	UCC 105131	
10	PIPING DETAIL	SK-107212-B-2				DEPT. CONT.	LEROY HAET	24

REMARKS - GENERAL INFORMATION

1) INSTALL RUPTURE DISCS UNDER SAFETY VALVES AT VINYL CHLORIDE SPHERE AND LOADING RACK AS SHOWN ON SK-107212-A, B. THESE SAFETY VALVES ARE IDENTIFIED BY TAGS No. 1 & 2, No. 4, ATTACHED TO THE SAFETY VALVE IN THE FIELD. THEY ARE FURTHER IDENTIFIED BY VALVE NO. AND ITEM NO.

2) SEE PIPING DETAILS SK-107212-A-1, SK-107212-A-2, SK-107212-B-1, AND SK-107212-B-2 FOR INSTALLATION.

3) SAFETY VALVES TAGGED No. 3 & No. 4, AT TANK CAR LOADING RACK ARE TO BE DISCONNECTED FROM THE VENT HEADER, AND THE VENT HEADER PLUGGED. THE DISCHARGE FROM THESE VALVES ARE THEN TO BE ROUTED UPWARD AS PER THESE TWO DISCHARGES SHOULD BE RUN PARALLEL TO EACH OTHER, SUPPORTED TO EACH OTHER AND TO THE FENCE BY THE FIELD.

AREA HAZARD CLASSIFICATION:	CLASS	DIVISION	GROUP
(*) NOTE: CHANGES BY FIELD MUST BE APPROVED BY ORIGINATING ENGINEER. ALL FIELD CHANGES TO BE MARKED & DRAWINGS RETURNED TO ORIGINATING ENGINEER. ELECTRICAL CHANGES TO BE RETURNED TO ORIGINATING ENGINEER UPON COMPLETION OF WORK.			
ENGINEERED BY: <u>Paul B. Smith</u> DATE: 5-4-77		PCE APPROVAL: <u>Paul B. Smith</u> DATE: 5-4-77	
DISCIPLINE: <u>REMELDAM</u> DATE: 5-5-77		CRE. LINE APPROV: <u>REMELDAM</u> DATE: 5-5-77	

PLANT ENGINEERING DEPARTMENT
FIELD INSTRUCTIONS TRANSMITTAL

JOB NO

SEQUENCE	CHARGE				ACTION
	DEPT-SYSTEM	C/E	ORDER NO.	SHOP ORD. NO.	
	93000	06	02589	5645	

- 5.) THE RUPTURE DISCS ARE QUICKSEAL TYPE. CARE SHOULD BE TAKEN TO BE SURE THE PROPER RUPTURE DISC IS PLACED UNDER THE APPROPRIATE SAFETY VALVE.
- 6.) CONTACT LE ROY HART FOR SHUT DOWN OF EQUIPMENT AND TO BE SURE AREA IS SAFE BEFORE PROCEEDING WITH WORK.

UCC 105132

930-2583

Job Scope:

I. Source # 012

- 1- Install new O-Ring safety valve & new rupture disc on #14 compressor pot.

II. Source # 013

- 1- Buy new O-Ring safety valves for tanks 2611, 2613, (2621), and (2623)

No Action

(n) placed order for o-ring type safety valve - have to replace regardless -

- 2- Buy o-ring conversion kits for

- (a) # 2 Dilution Tank.

- (b) Tank # 2626

- (c) Tank # 2622

- (d) Rec. Col. base

See Table I

No Action

- 3- Waiting on action from EPA to order rupture disc for all valves

III. Source # 014, 015, 016, & 017

- 1- Buy new safety valves 3(EA.) per Autoclave. (Not O-Ring)
- 2- Buy new rupture discs.
3. 3(EA.) per Autoclaves.

930-2583 , Job # 20829

I. Schedule I, Group III > Source # 012

1- No. 14 Compressor Trap

Compressor P.N.: 6476-1159

Item No.: K-514

Location of PSV: Bldg. 153 Roof-North End

Sketch: SK-20829-1-3

Pipe Spec: 1C2, No insulation

Exist. PSV: 1½ H

II. Schedule II, Group II > Source # 013

Tank P.N.	Tank No.	Exist. PSV	New PSV	Location
6395-2268	#2 Dilution	3K4 Conv.-	3K4	Bldg. 153 NW
6392-888	2611	? 3K4	3K4 3L4	Bldg. 191 Tk. Fan
6392-958	2613	? 3K4	3L4	"
6392-893	2621 ^{go}	2H3	3K4	Bldg. 191 Tk. Fan
6392-1636	2622	3K4 Conv	3K4	Bldg. 154 NE
6392-895	2623 ^{go}	2J3	3K4	Bldg. 191 Tk. F
6392-1529	2626	3K4 Conv	3K4	Bldg. 154 S.E.
6471-464	Rectifying Col.	3L4 Conv	3L4	Bldg. 153 no

REVISE
piping

? have to go
line

Note: All of above have 3" Rupture Discs
except the #2 Dilution Tank which is
still uncertain.

GDM

UCC 105134

SourceIdentification

012	Compressor Pot	Bldg. 153 Roof
013	Tanks (See list Table I)	
014	B1 Autoclave	Bldg. 153
015	B2 Autoclave	"
016	B5 Autoclave	"
017	B6 Autoclave	"