PROJECT TRANSMITTAL

I. Title: BURNER CONTROLS

Proj. No. 4811 Date: 1-4-74 Work Order No's: 1-4811-000

Dept. No. 246 Premise Issued: Yes 7/31/73 (Date) No

TSD Job 91370: ______

Justification: Savings ______ $/Yr., Safety ✓ Air Pollution ___ Stream Pollution ___

Other ______, Total Project Cost $12,000

II. 5 Copies to Proj. Plan. Supervisor — W. REY

1 Copy to Prod. G.S./Prod. Supvr. — ~~[illegible]~~ G. JOHNSTON

1 Copy to TSD Supt (Proc)/TSD Engr. — B. ENGMAN, K. BOUCHER

___ Copies to Others

Circulate Copy To:		Date Reviewed	Initials
1) Safety Engineer	D. SCHILLINGER		
2) Environmental Engineer	C. BOCKLEY		
3) Mech. Stds. Engr.	C. BOEHLER		
4) Others	L. SPERANDEO		

Return Circulation Copy to Project Engineer DAN MATTISON

III. Attached is: ☐ Partial Pkg. (Complete Pkg. by / /)

☑ Complete Pkg. EXCEPT VENDOR DRAWINGS

☐ Revised Pkg. (Revision ____ to Pkg. of / /)

Shutdown req'd (if known - Yes ✓ No ____ Est. Duration (Shifts) 1

☐ Formal Safety & Environmental Review Held (/ /)

☑ Informal " " " " " (1/29/74)

☐ Field Check (is)(is not) Scheduled.

IV. Drawing No's. & Material Lists — Rev. No. — Title

DSW 311754

Rev. 6/71

STLCOPCB4071740

WORK DESCRIPTION

FOR

BURNER CONTROL

DEPARTMENT	246
ESTIMATE NO.	4811
WORK ORDER NO.	1-4811-000

MONSANTO INDUSTRIAL CHEMICALS COMPANY

TECHNICAL SERVICES DEPARTMENT

W. G. KRUMMRICH PLANT

SAUGET, ILLINOIS

Prepared By:
D. Mattison
1/2/74

I. SCOPE

This project will install a burner control unit on the #2 Aroclor still in Dept. 246.

II. DRAWINGS AND MATERIALS

All material marked with a "B" number have been ordered; all others and any additional can be obtained from stores and through project planner.

D-510 E53	REV. 2	ELEC. CHANGES + ADDITIONS . . . CHLORINATION ARE
GEA HO 36-1		Drawing
C-6942	Rev. 3	Piping Diagram 2nd Still
TS-D-9369	Rev. 1	Panel A&C & Schematic Diagrams
TS-D-5401	Rev. 4	Elec. Layout & Details Al. Stg. Tank
[redacted]		
GEA 1500 SPEC EV104	REV. 5	WIRING INSTRUMENT CONTROL PANEL

III. WORK DESCRIPTION

Move control system to second level of Dept. 246. Move in pieces if necessary.

Electrical

1. Run conduit up wall of building CR from panel C-3 to burner control cabinet.

2. Pull wires and connect up for 110 volts. Use CKT. #24.

3. Mount purple peeper in newly installed burner.

4. Run 3/4" conduit and wiring to burner leads, 8-#14's, 4 thermocouple.

5. MOUNT LIGHT BOX AND HORN IN PANEL, WIRE AS PER SKETCH ON GEA HO36-1 SEE DRAWINGS D-510-E53, EV104 AND TSD-5401

6. Mount transformer for circulating pump in circuit panel and run conduit from panel B to burner control cabinet. See drawing TS-D-5401.

Piping

1. Run new piping from gas train outlets to burner.

2. Disconnect present gas supply from burner and repipe to gas train inlet.

3. Install new John Zink burner in still. AS PER GEA DRAWING

4. Connect main and pilot gas lines to burner as per C-6942.

III. WORK DESCRIPTION

Piping (Cont'd)

5. Run air purge to burner for flame scanner. Tap nearest available plant air supply.

6. Pipe purge up as per GEA Drawing.

Any questions, call Dan Mattison at 546.

sms

MONSANTO INDUSTRIAL CHEMICALS COMPANY D. Mattison

Project Authority For Expenditure

PLANT	Bus. Group	DEPT. NO.	DATE	ENG. JOB NO.	AUTHORITY
WGK	Specialty	246	7/31/73		4811

SCRIPTION, REASON AND JUSTIFICATION FOR WORK:

DESCRIPTION: Install burner control on #2 Aroclor still

REASON: Present system does not afford adequate control or protection

JUSTIFICATION: Safety

NON-EARNINGS

EPARED BY	REVIEWED BY	GROUP DIR.	DATE	APPROVALS	DATE		DATE		
ttison	Heider Boucher	W. Corey	8/9/73					[illegible]	

M	DESCRIPTION	EQUIPMENT TRANS.	EQUIPMENT NEW	CONTR. WORK	MAT. & SUPP.	STORES O'HEAD	DIRECT LABOR	SHOP O'HEAD	TOT
	ADD-TO - 200066								
	Install Burner Control				5900	590	2800	1650	109
	Contingency								10
									120
	ITEM 133								

INFORMATION FOR EXPENDITURES

CLASSIFICATION OF AMOUNT AUTHORIZED		PROJECT SUMMARY	
1. CAPITAL EXPENDITURE	12,000	4. PROJECT TOTAL (ORIG OR REV.)	12,0
2. Transferred Eq.		5. Less Prev. Auth.	
		6. Proj. Total-This Req. (4-5)	12,0
		7. LESS TRANSFERRED EQUIP.	
		8. NET CASH REQUIRED (6-7)	12,0
3. Level For Appr. (1 + 2)	12,000	9. AMOUNT AUTHORIZED = (6)	12,0

DSW 311758

FORM A-823-1 TO DETAIL RETIREMENTS

STLCOPCB4071744

PROJECT PRIORITY LISTINGS

1 2 3 4	4 8 1 1	Project Estimate Number (e.g. 4438)
5 6 7	2 4 6	Cost Center Code – Dept. (e.g. 232)
8	5	Manufacturing Group (See Note 1)
9	5	Business Group (See Note 2)
10 11	0 8	Originating Group (See Note 3)
12 13 14 15 16 17	B U R N E R	Use spaces 12 thru 34 to Put in a JOB TITLE. Use Capital Letters and Leave Blanks Between Words.
18 19 20 21 22 23	C O N T R	
24 25 26 27 28 29	O L	
30 31 32 33 34		
35 36 37 38 39 40	1 2 0 0 0	NOTE: Right Hand Adjust All Dollar Figs. Capital Expenditures, $'s (e.g. bb12500)
41 42 43 44 45 46	1 2 0 0 0	Project Total $'s (e.g. bb14000)
47 48 49 50 51 52		JUSTIFICATION $'s Per Yr. (e.g. bb28800)
53 54 55 56 57 58	0 8 0 9 7 3	NOTE: Always Use 6 Digits for Dates Date Project Approved (e.g. Code 8/1/68 As 080168)
59 60 61 62 63 64	0 8 3 1 7 3	Est. Date Design Package To P & S
65 66 67 68 69 70		Act. Date Design Package To P & S
71 72 73 74 75 76		P & S Est'd. Date of Completion
77	1	Primary Justification Code (See Note 4)
78	2	Secondary Justification Code (See Note 4)
79		Design Package Code (1 = Package Issued)
80		Field Work Complete (1 = Yes 0 = No)

WGK-322
REVISED 8/70

① MANUFACTURING GROUP CODE:
Mfg. Group E 1
Mfg. Group A 2
Mfg. Group B 3
Mfg. Group F 4
Mfg. Group D 5
Mfg. Group C 6
Utilities 7
Other 8

② BUSINESS GROUP:
AG. Chem. 1
Rubber Chem. 2
Cellu. Chem. 3
Inorganic. 4
Funct. Fluids. 5
Food & Fine 6
General Chem. 7
Plasticizers. 8
Oil Additives. 9
Other 10

③ ORIGINATING GROUP CODE:
Process Group E & F. . 1
Process Group A 2
Process Group B 3
Inorganic TSD 4
Process Group D 5
Process Group C 6
Mech. Design G.P. . . . 7
Control Group. 8
Maint. Area 9
Program Planning . . . 10
Other 11

④ JUSTIFICATION CODE:
1. Safety
2. Potential Hazard
3. Stream Polution
4. Air Pollution
5. Savings
6. New Earnings
7. Retain Sales
8. Improve Quality
9. Plant Improvement
0. Maintenance

NOTE: Repeat Primary if there is no Secondary.

DSW 311759

STLCOPCB4071745

MANPOWER ESTIMATES
(ORIGINATOR)

NOTE: LABOR MAN DAYS BY SHOP GROUP

1 2 3 4	4 8 1 1	Estimate No.
5 6 7	2 4 6	Cost Center
8 9	0 8	Originating Group ①
10 11 12	D _ C	Maintenance Planners Initials (Capital Letters)
13 14 15 16 17	B U R N E	Use Spaces 13 thru 37 to Put in a JOB TITLE. Use Capital Letters and Leave Blanks Between Words.
18 19 20 21 22	R _ C O N	
23 24 25 26 27	T R O L _	
28 29 30 31 32		
33 34 35 36 37		
38		Status Code ②
39 40		Execution Group ③
41		Time ③

42 43 44	10	Electricians
45 46 47	6	Carpenters
48 49 50		Iron Workers
51 52 53		Machinists
54 55 56		Brick Layers
57 58 59	12	Pipe Fitters
60 61 62		Painters
63 64 65		Riggers
66 67 68		Laborers
69 70 71	4	Insulators
72 73 74	4	Welders
75 76 77	5	Instrument Men
78 79 80		Others

① ORIGINATING GROUP CODE

Process Group E & F	1
Process Group A	2
Process Group B	3
Inorganic TSD	4
Process Group D	5
Process Group C	6
Mech. Design Gp.	7
Control Group	8
Maint. Area	9
Program Planning	10
Other	11

② STATUS CODE:
1. In Process
2. Ready
3. Dept. Not Ready
4. Mat'l. Not Avail.
5. Equip. Not Ready
6. Project Originated

③ FOR SCHEDULING ONLY

DSW 311760

WGK-317
REVISED 8-70

STLCOPCB4071746

GRAYBAR

ESTIMATED COST
$ 6.00

REQUISITIONER: FILL IN KNOWN DATA WITH PEN OR SOFT SHARP PENCIL. PRESS FIRMLY FOR CLEAR IMAGE. PLEASE PRINT LEGIBLY.

Monsanto
COMPANY

PURCHASING DEPARTMENT
Sauget, Illinois 62201

REQUISITION
PURCHASE ORDER

DATE MATERIAL REQUIRED AT PLANT SITE. 2-1-74 OR SOONER

DATE	PURCHASE ORDER NUMBER
	B - 965

NOTE

PLEASE SHOW THIS ORDER NUMBER ON EACH INVOICE, PACKAGE, BILL OF LADING, AND SHIPPING NOTICE.

— BILLING INSTRUCTIONS —
FORWARD TO ADDRESS AT TOP OF THIS FORM
1. ACKNOWLEDGEMENT OF ORDER GIVING SHIPPING DATE
2. BILL OF LADING IN DUPLICATE
3. INVOICE IN DUPLICATE PRICING EACH ITEM SEPARATELY
4. MAIL INVOICES C/O ACCOUNTING DEPT.

— SHIPPING INSTRUCTIONS —
1. DELIVER BETWEEN 8 A.M. AND 3 P.M. MONDAY THROUGH FRIDAY
2. SHIP CHEAPEST ROUTING UNLESS OTHERWISE SPECIFIED
3. ON LOCAL DELIVERIES SURRENDER DELIVERY TICKET

F.O.B	VIA	TERMS
DELIVERED		N-30
SHIPPING POINT	BEST WAY	
FREIGHT ALLOWED	VENDOR DELIVERED	

VENDOR

SHIP TO
MONSANTO COMPANY
W. G. Krummrich Plant
Sauget, Illinois 62201
618/271-5835

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE
1	1	EACH	HOFFMAN ENCLOSURE 6 x 4 x 4	
			# A 644 CH	
2	1	EACH	PANEL FOR ABOVE BOX	
			A-6P4	

SALES TAX APPLIES: ADD TO INVOICE ☐ USE TAX APPLIES: ADD TO INVOICE ☐ PURCHASE EXEMPT FROM SALES/USE TAX ☐

BY SHIPPING THE ABOVE GOODS OR BY ACKNOWLEDGING RECEIPT OF THIS ORDER, HEREAFTER CALLED "CONTRACT," YOU AGREE TO THE TERMS AND CONDITIONS SET FORTH ON THE FACE SIDE AND THE REVERSE SIDE HEREOF. ANY DIFFERENT OR ADDITIONAL TERMS IN YOUR ACCEPTANCE OF THIS OFFER ARE HEREBY OBJECTED TO.

MONSANTO COMPANY

BY

DATE	INQUIRY NO.	APPROVAL	BUYER	SAFETY JOB? ☐ YES ☐ NO
1-7-74				POLLUTION CONTROL? ☐ YES ☐ NO

DATE MATERIAL RECEIVED	COMP. SHIPMENT	PART SHIPMENT	UNLOAD AT	DELIVER TO (LOCATION)
				B. I. WGK

STANDARDS APPROVAL	DEPT.	ESTIMATE NO.	REQUISITIONER (NAME TO BE PRINTED CLEARLY)
	246	4811	MATTISON / CLARK

53 ACCOUNT DIV.	LOC.	MAIN	SUB	CLASS	AMOUNT	CR	TAX CODE	NDI	MATERIAL	QUANTITY	OTHER TYPE	DETAIL
02	03	[illegible]	31	[illegible]						100%	[illegible]	1-4811-[illegible]

DSW 311761

PU-34 Revised 1/72

STLCOPCB4071747

SUPPLIER (IF KNOWN)
GEA. AIREXCHANGERS
6 Worthington Dr. St.L. 63043

ESTIMATED COST $7200

REQUISITIONER: FILL IN KNOWN DATA WITH PEN OR SOFT SHARP PENCIL. PRESS FIRMLY FOR CLEAR IMAGE. PLEASE PRINT LEGIBLY.

4

RFQ

REQUISITION
PURCHASE ORDER

Monsanto
COMPANY
PURCHASING DEPARTMENT
Sauget, Illinois 62201

DATE MATERIAL REQUIRED AT PLANT SITE 2-1-74 OR SOONER

NOTE

DATE	PURCHASE ORDER NUMBER
OCT 19 1973	B 13171

PLEASE SHOW THIS ORDER NUMBER ON EACH INVOICE, PACKAGE, BILL OF LADING, AND SHIPPING NOTICE.

— BILLING INSTRUCTIONS —
FORWARD TO ADDRESS AT TOP OF THIS FORM
1. ACKNOWLEDGEMENT OF ORDER GIVING SHIPPING DATE
2. BILL OF LADING IN DUPLICATE
3. INVOICE IN DUPLICATE PRICING EACH ITEM SEPARATELY
4. MAIL INVOICES C/O ACCOUNTING DEPT.

— SHIPPING INSTRUCTIONS —
1. DELIVER BETWEEN 8 A.M. AND 3 P.M. MONDAY THROUGH FRIDAY
2. SHIP CHEAPEST ROUTING UNLESS OTHERWISE SPECIFIED
3. ON LOCAL DELIVERIES SURRENDER DELIVERY TICKET

F.O.B.	VIA	TERMS
DELIVERED		
✓ SHIPPING POINT	BEST WAY	N-30
FREIGHT ALLOWED	VENDOR DELIVERED	

VENDOR:
VENDOR NO. 3091759
G.E.A. AIREXCHANGERS, INC.
46 WORTHINGTON DR.
MARYLAND HEIGHTS, MO 63043

SHIP TO:
MONSANTO COMPANY
W. G. Krummrich Plant
Sauget, Illinois 62201
618/271-5835

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE
1	1	ONLY	NATURAL GAS COMBUSTION CONTROL SYSTEM PRE-PIPED AND PRE-WIRED PER ENCLOSED SPECIFICATIONS	
				7200.00

CERTIFY ON YOUR INVOICE THE COUNTRY IN WHICH THE ITEM(S) COVERED BY THIS ORDER WERE PRODUCED

SALES TAX APPLIES: ADD TO INVOICE ☐ USE TAX APPLIES: ADD TO INVOICE ☑ PURCHASE EXEMPT FROM SALES/USE TAX ☐

BY SHIPPING THE ABOVE GOODS OR BY ACKNOWLEDGING RECEIPT OF THIS ORDER, HEREAFTER CALLED "CONTRACT," YOU AGREE TO THE TERMS AND CONDITIONS SET FORTH ON THE FACE SIDE AND THE REVERSE SIDE HEREOF. ANY DIFFERENT OR ADDITIONAL TERMS IN YOUR ACCEPTANCE OF THIS OFFER ARE HEREBY OBJECTED TO.

MONSANTO COMPANY
BY W. C. [signature]

DATE	INQUIRY NO.	APPROVAL	BUYER	
10/10/73	K-454			SAFETY JOB? ☑ YES ☐ NO POLLUTION CONTROL? ☐ YES ☑ NO
DATE MATERIAL RECEIVED	COMP. SHIPMENT / PART SHIPMENT	UNLOAD AT		DELIVER TO (LOCATION) BI

STANDARDS APPROVAL

DEPT. 246 ESTIMATE NO. 4811 REQUISITIONER NAME TO BE PRINTED CLEARLY: HEIDER MATTISON BOUCHER K.H.

S3 DIV.	ACCOUNT LOC.	MAIN	SUB	CLASS	AMOUNT	CR	TAX CODE	ND	MATERIAL	QUANTITY	OTHER TYPE	DETAIL
02	03	264	.00								JN	1-4811-000
02	03	511	00	878			✓					

DSW 311762

PU-34 Revised 1/72

STLCOPCB4071748

MARK	NO. REQD.	SIZE	DESCRIPTION	STOCK NO.	P.O. NO.	COST
1.	1		GER BURNER CONTROLS		ST 13171	
2.	1		HOFFMAN ENCLOSURE		B 965	
3.	1		SCRAM LIGHT BOX AND			
			NAMEPLATE #2 STILL			
			BURNER			
			FAILURE		B	
4.	1		SONALERT WARNING DEVICE		B	
5	1		A.B. BULL 700-N200-A1			
			RELAY		B	

DSW 311763

MONSANTO COMPANY	MATERIAL LIST	MONSANTO, ILLINOIS TECHNICAL SERVICES DEPT.	BY [illegible]	DATE 1-28-7[illegible]
PROJ. TITLE #2 STILL BURNER CONTROLS		PROJ. NO. 4311	APPD.	DATE
		DEPT. 246 / BLDG.	ISSUE	DATE
		W.O. NO'S. 1-4311-000	SUPERSEDES ISSUE OF	DATE
DWG. NO.	REFERENCE DRAWINGS	MISC. DATA	ML A-4311	

WGK-1068 (6-67)

STLCOPCB4071749