



INDUSTRIES

PPG INDUSTRIES, INC. CHEMICAL DIVISION - U.S. P. O. BOX 1000 LAKE CHARLES, LA. 70602

July 5, 1990

Mr. Tom Coerver
Department of Environmental Quality
Air Quality Division
P O Box 44096
Baton Rouge, LA 70804-4096

Dear Mr. Coerver:

Re: Quarterly Fugitive Emission Report

In accordance with the provisions of LAC 33:III.2121.F, the PPG Industries Lake Charles Complex is hereby submitting its quarterly fugitive emission monitoring report for the period of 4/01/90 through 6/30/90.

Attached for your review are the following tabulations and summaries for this quarter. The 0.61 percent of valves leaking value once again demonstrates that the PPG Complex is at the "good performance level" for the quarter.

Attachment I	Complex Performance Summary
Attachment II	Test/Repair Summaries
Attachment III	Delayed Repair Summary
Attachment IV	Turnaround Repair Summary
Attachment V	EDC #1 Unit Data
Attachment VI	EDC #2 Unit Data
Attachment VII	VDCM Unit Data
Attachment VIII	Tri-Ethane II Unit Data
Attachment IX	Ethyl Chloride Unit Data
Attachment X	Per/Tri Unit Data
Attachment XI	Waste Treatment Unit Data
Attachment XII	CPC Unit Data
Attachment XIII	VCM II Unit Data

All other required monitoring not otherwise listed was performed. Items listed in Attachment IV, Turnaround Repair Summary, are

those believed to risk higher emissions if repair is attempted without a unit shutdown.

If you have any questions regarding this report, please call me at (318) 491-4326.

Respectfully,

Esther S. Liggio

Esther S. Liggio
Environmental Engineer

Certified Mail/Return Receipt Requested

Attachment I

CARBONNE SERVICES, INC.
APR INDUSTRIES, INC.
QUARTERLY REPORT
SUMMARY AND GOOD PERFORMANCE
For Period Ended 06/30/90

Total Number of Components Monitored: 1628
Total Number of Components Leaking: 11
Total Number of Components Repaired: 8

GOOD PERFORMANCE LEVEL

Number of Valves Monitored:	1628		
Number of Valves Leaking:	10	% of Valves Leaking:	.61
Number of Valves Repaired:	8	% of Valves Repaired:	.50

All monitoring of fugitive emissions has been performed as required by Section 10.1 of the Louisiana Air Quality Regulations.

APR INDUSTRIES, INC.

CARBONNE SERVICES, INC.

Esther S. Liggio
Signature

Philip R. White
Signature

Environmental Engineer
Title

6-12-90
Date

7/3/90
Date

CARBONNE SERVICES INC.

PPG INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
PLANT SUMMARY

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	1763	1570	9	7	.57	77.8
Compressor	GAS	5	5	1	1	.20	100
PRV	GAS	59	52	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	1763	1570	9	7	.57	77.8
Compressor	ALL	5	5	1	1	.20	100
PRV	ALL	59	52	0	0	0	0
GRAND TOTAL		*1828	**1627	10	***8	.51	80

* 14 components were deleted from service since last quarter.

** 201 components were out of service this quarter.

*** 1 component went on shutdown and 1 component is waiting on parts.

REPAIR DETAILS

TAG	TYPE	TEST DATE	ATT.REP.DATE	ANT.REP.DATE	
Repair Remarks					
17078	Valve	04-25-90	No repair attempted		SHUTDOWN ITEM
6132	Valve	04-25-90	No repair attempted		WAITING ON PARTS
6765	Valve	04-25-90	04-25-90	04-25-90	
	TIGHTEN PACKING				
1159	Valve	04-26-90	04-26-90	04-26-90	
	TIGHTEN PACKING				
1175	Valve	04-26-90	04-27-90	04-27-90	
	REPLACED PACKING BOLT				
1456	Valve	04-26-90	04-27-90	04-27-90	
	REPLACED VALVE				
10764	Compressor	04-26-90	05-14-90	05-14-90	
	REPLACED SEAL				
1445	Valve	04-26-90	04-27-90	04-27-90	
	TIGHTEN PACKING				
12480	Valve	04-26-90	04-27-90	04-27-90	
	TIGHTEN PACKING				
11524	Valve	04-26-90	04-27-90	04-27-90	
	TIGHTEN PACKING				
12524	Valve	04-26-90	04-26-90	04-27-90	
	TIGHTEN PACKING				

Attachment III

Date: 05/12/90

APG INDUSTRIES, INC. Quarterly Report Listing of Items Not Repaired Within 15 Days For Period Ended 05/30/90

Page 1

Description	Location	Stream	Unit
17028 Valve	#1 Rx Ethylene	Ethylene	Last Unit Shutdown EDC #1 03/03/90

Date Leak Located: 04/25/90 Date Component Rechecked:
Date Repair Completed: Reading on Recheck:
Number of Days to Repair:

Date Maintenance Attempted:
Date Repair Anticipated: UNKNOWN
Reason for Repair Delay: Cannot Isolate

1110 Line	#1 OHC Product Storage	EDC	Tri-Ethane II 01/03/90
--------------	---------------------------	-----	---------------------------

Date Leak Located: 04/23/90 Date Component Rechecked:
Date Repair Completed: Reading on Recheck:
Number of Days to Repair:

Date Maintenance Attempted:
Date Repair Anticipated: UNKNOWN
Reason for Repair Delay: Waiting on Parts

8846 Valve	Secondary Stripper Feed FCV	ED	Ethyl Chloride 0.89
---------------	--------------------------------	----	------------------------

Date Leak Located: 01/23/90 Date Component Rechecked: 04/04/90
Date Repair Completed: 04/02/90 Reading on Recheck: 0
Number of Days to Repair: 59

Date Maintenance Attempted: 01/23/90
Date Repair Anticipated: 04/30/90
Reason for Repair Delay: Requires shutdown to repair

11945 CV	SHIFT TANK PCV TOP DECK		GRB CPC
-------------	----------------------------	--	---------

Date Leak Located: 12/20/89 Date Component Rechecked:
Date Repair Completed: Reading on Recheck:
Number of Days to Repair:

Date Maintenance Attempted:
Date Repair Anticipated: 01/11/90
Reason for Repair Delay: Shutdown Required for Repair

* Component has been reported as repaired. Unit is currently on shutdown, will be up again in August, 1990.

SL 025274

Attachment IV

Date: 06/12/90

PRG INDUSTRIES, INC.

Page 1

Quarterly Report Items Awaiting Turnaround For Repair For Period Ended 06/30/90

```

=====
Unit: HEC #2                                Last Unit Shutdown: 03/05/90
                                           Next Turnaround: UNKNOWN
Tag #:
Description                                Location
17208                                      #1 Rx Ethylene
Valve in Gas Service
=====
Unit: Tri-Ethane II                        Last Unit Shutdown: 03/05/90
                                           Next Turnaround: UNKNOWN
Tag #:
Description                                Location
111                                       #1 OHC Product Storage
Valve in Gas Service
=====
Unit: WTU CFC                             Last Unit Shutdown:
                                           Next Turnaround: 01/31/90
Tag #:
Description                                Location
11945                                      Shift Tank PCV Top Deck
Valve in Gas Service
=====

```

DARBONNE SERVICES INC.

PPS INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
EDC #1

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 05/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	25	25	0	0	0	0
Compressor	GAS	2	2	0	0	0	0
SRV	GAS	4	4	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	25	25	0	0	0	0
Compressor	ALL	2	2	0	0	0	0
SRV	ALL	4	4	0	0	0	0
GRAND TOTAL		31	31	0	0	0	0

CARBONNE SERVICES INC.

PPG INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
EDC #2

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	06	06	1	0	1.5	0
TRV	GAS	1	1	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	06	06	1	0	1.5	0
TRV	ALL	1	1	0	0	0	0
GRAND TOTAL		07	07	*1	0	1.5	0

* Shutdown item

REPAIR DETAILS

NO	TYPE	TEST DATE	ACT. REF. DATE	ANT. REF. DATE
Repair Remarks				
115	give	04-15-80	no repair attempted	SHUTDOWN 1 REP

SL 025278

Atta ment VII

DARBONNE SERVICES INC.

PRG INDUSTRIES, INC.

P.O. BOX 1000

LAKE CHARLES

LOUISIANA 70602

ADCM

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
TYPE	GAS	83	83	0	0	0	0
TYPE	GAS	9	9	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
TYPE	ALL	83	83	0	0	0	0
TYPE	ALL	9	9	0	0	0	0
GRAND TOTAL		92	92	0	0	0	0

CARBONNE SERVICES INC.

RRS INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
TRI-ETHANE II

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	177	176	1	0	.57	0
RV	GAS	4	4	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	177	176	1	0	.57	0
RV	ALL	4	4	0	0	0	0
GRAND TOTAL		181	*180	**1	0	.55	0

* 1 Component was out of service this quarter.

** waiting on parts

REPAIR DETAILS

TAG	TYPE	TEST DATE	ATT.REP.DATE	INT.REP.DATE
Repair Remarks				
132	Valve	04-25-90	No repair attempted	WAITING ON PARTS

DARBONNE SERVICES INC.

PPG INDUSTRIES
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
ETHYL CHLORIDE

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	181	177	1	1	.56	100
RV	GAS	7	1	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	181	177	1	1	.56	100
RV	ALL	7	1	0	0	0	0
GRAND TOTAL		184	178	1	1	.56	100

5 components were out of service.

REPAIR DETAILS

PAG	TYPE	TEST DATE	ATT.REP.DATE	ANT.REP.DATE
Repair: Remarks				
1765	valve	04-25-90	04-25-90	04-25-90
TIGHTEN PACKING				

CARBONNE SERVICES INC.

PPG INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
PER TRI

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	470	470	3	3	.64	100
SRV	GAS	5	5	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	470	470	3	3	.64	100
SRV	ALL	5	5	0	0	0	0
GRAND TOTAL		475	475	3	3	.63	100

SL 025284

REPAIR DETAILS

TAG	TYPE	TEST DATE	ATT.REP.DATE	ANT.REP.DATE
Repair Remarks				
1159	Valve	04-26-90	04-26-90	04-26-90
TIGHTEN PACKING				
1175	Valve	04-26-90	04-27-90	04-27-90
REPLACED PACKING BOLT				
7486	Valve	04-26-90	04-27-90	04-27-90
REPLACED VALVE				

CARBONNE SERVICES INC.

SPG INDUSTRIES, INC.

P.O. BOX 1000

LAKE CHARLES

LOUISIANA 70602

WASTE TREATMENT UNIT

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	237	196	0	0	0	0
Compressor	GAS	2	1	1	1	100	100
FRV	GAS	4	3	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	237	196	0	0	0	0
Compressor	ALL	2	1	1	1	100	100
FRV	ALL	4	3	0	0	0	0
GRAND TOTAL		243	*200	1	1	.5	100

* 43 components were out of service this quarter.

REPAIR DETAILS

TAG	TYPE	TEST DATE	ATT.REP.DATE	ANT.REP.DATE
Repair Remarks				
10764	Compressor	04-26-90	05-14-90	05-14-90
REPLACED SEAL				

CARBONNE SERVICES INC.

PPG INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
WTU CPC

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	118	0	0	0	0	0
PRV	GAS	2	0	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	118	0	0	0	0	0
PRV	ALL	2	0	0	0	0	0
GRAND TOTAL		120	0	0	0	0	0

* WTU CPC was out of service.

CARBONNE SERVICES INC.

PPG INDUSTRIES, INC.
P.O. BOX 1000
LAKE CHARLES
LOUISIANA 70602
NOM 11

TEST ACTIVITY SUMMARY FOR THE PERIOD 04/01/90 through 06/30/90

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	GAS	406	377	3	3	.30	100
Compressor	GAS	2	2	0	0	0	0
PRV	GAS	27	25	0	0	0	0

SUMMARY BY COMPONENT TYPES

COMPONENT		NUMBER OF COMPONENTS				PERCENT	
TYPE	SERVICE	IN UNIT	TESTED	LEAKING	REPAIRED	LEAKING	REPAIRED
Valve	ALL	406	377	3	3	.30	100
Compressor	ALL	2	2	0	0	0	0
PRV	ALL	27	25	0	0	0	0
GRAND TOTAL		435	404	3	3	.74	100

* 31 components were out of service this quarter.

REPAIR DETAILS

TAG	TYPE	TEST DATE	ATT.REP.DATE	ANT.REP.DATE
Repair Remarks				
12445	Valve	04-26-90	04-27-90	04-27-90
	TIGHTEN PACKING			
12480	Valve	04-26-90	04-27-90	04-27-90
	TIGHTEN PACKING			
12524	Valve	04-26-90	04-27-90	04-27-90
	TIGHTEN PACKING			
12524	Valve	04-26-90	04-26-90	04-27-90
	TIGHTEN PACKING			