



8E-0796-13692

PHILLIPS PETROLEUM COMPANY

BARTLESVILLE, OKLAHOMA 74004 918 661-6600

HEALTH, ENVIRONMENT AND SAFETY

ORIGINAL

July 9, 1996

(A)

95 JUL 16 PM 12: 04

CERTIFIED MAIL/RETURN RECEIPT REQUESTED

Document Processing Center (7407)
Office of Pollution Prevention and Toxics (OPPT)
U.S. EPA
401 M. Street, S.W.
Washington, DC 20460

Attn: Section 8(e) Coordinator



8EHQ-96-13692

Dear Coordinator,

Phillips Petroleum Company submits the attached copy of a report which was sent to Texas Natural Resources Conservation Commission (TNRCC). The report describes release of hydrogen sulfide (CAS#7783-06-4) in the commercial products unit in the plant. Because of the absence of employees in the area at the time of the incident, the incident described did not result in loss of human lives.

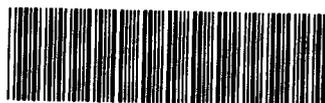
The incident was reported immediately to the National Response Center (NRC) and local Emergency Planning Commission (LEPC). A copy of the report that was sent to TNRCC is being submitted as an Emergency Incident of Environmental Contamination in order to satisfy our reporting obligations under section 8(e) of TSCA.

Please direct all questions and comments about this submission to my attention at 918-661-8153. Thank you for you attention.

Sincerely,

Fred Marashi
TSCA Compliance Coordinator
12 C1 Phillips Building
Tel: 918-661-8153
FAX: 918-662-1139

attachment



88960000172

RECEIVED
8/20/96

95 JUL 23 PM 12: 06

RECEIVED
OPPT NCIC



PHILLIPS PETROLEUM COMPANY

BORGER COMPLEX
P.O. BOX 271
BORGER, TEXAS 79008-0271

July 3, 1996

CERTIFIED MAIL/RETURN RECEIPT REQUESTED

Ms. Cathy Palmer - Acting Air Program Manager
Texas Natural Resource Conservation Commission
3918 Canyon Drive
Amarillo, Texas 79109-4996

**RE: Notification of Major Upset
Borger Complex-East
Philtex North Flare and CPU
TNRCC ACCOUNT HW-0013-C**

55 JUL 16 PM 12:04

Dear Ms. Palmer:

This is the written follow-up report for the SARA/CERCLA release that occurred on June 25, 1996 at Phillips 66 Company's Borger Complex. Approximately 4,200 pounds of sulfur dioxide (SO₂-CAS# 7446-09-5) was emitted in excess of the maximum hourly emission rate of the north flare and approximately 2,050 pounds of hydrogen sulfide (H₂S-CAS# 7783-06-4) was emitted from the Commercial Products Unit at the Borger Complex East. Sulfur dioxide and hydrogen sulfide are listed as extremely hazardous substances by the EPA. All of the material was released to the atmosphere.

The event was called to the following agencies:

Agency	Date	Time	Contact
TNRCC Austin	6/25/96	9:10 a.m.	Eileen
NRC (#348864)	6/25/96	9:01 a.m.	P.O. Bright
LEPC	6/25/96	9:13 a.m.	Helen McGinley

No acute or chronic health risks are believed to be associated with this release. No adverse effects on human health or the environment were observed or are expected as a result of this release. Exemption from TNRCC allowable emission levels pursuant to TNRCC Rule 101.11 is requested. A TNRCC major upset form is attached. If you would like additional information concerning this event, please call me at (806) 275-1578.

Sincerely,

Scott Harmon
Environmental Compliance Specialist

Attachment

cc: Steve Mason, EPA Region VI, Dallas, TX (with attachment)
Danny Richards, Hutchinson County LEPC (with attachment)
Compliance Division, TNRCC, Austin, TX (with attachment)

REPORT FORM FOR NOTIFICATION REQUIREMENTS FOR MAJOR UPSET (RULE 7),
PLANNED MAINTENANCE (RULE 8), START-UP OR SHUTDOWN

MSSL ACCOUNT NO: _____ REGION: _____ (This line for State use only)
COMPANY NAME: Phillips 66 Company, a division of Phillips Petroleum Company
PLANT LOCATION: Borger Complex, 2 miles northeast of Borger on State Spur 119
MAILING ADDRESS: P.O. Box 271 CITY: Borger STATE: Texas ZIP CODE: 79008-0271
OWNER, OPERATOR OR RESPONSIBLE MANAGEMENT: T. E. Nance, General Manager
TELEPHONE NUMBER: (806) 275-1201

NATURE OF UNIT OR PROCESS AFFECTED (AND OTHER PROCESSES AFFECTED, IF ANY):
Borger Complex-East Commercial Products Unit and North Flare

INCLUSIVE DATES IF FOR SHUTDOWN AND START-UP: NA

TIME AND EXPECTED DURATION OF EXCESSIVE EMISSIONS: 8:20 a.m. until 9:15 p.m.

REASON OR CAUSE: Planned Maintenance { } Major Upset { x }

EXPLANATION: There was a loss of nitrogen pressure to the East Complex Commercial Products Unit emergency dump PMV panel. This caused a chain of events that ultimately led to the exceedance at the north flare and the Commercial Products Unit.

LEVEL OF EMISSIONS (GIVE BASIS FOR ESTIMATE), PHYSICAL AND CHEMICAL COMPOSITION, RATE, CONCENTRATION, AND DURATION: Approximately 4,200 pounds of sulfur dioxide was emitted in excess of the maximum allowable emission rate for the north flare, and approximately 2,050 pounds of hydrogen sulfide was emitted to the atmosphere at the Commercial Products Unit. Engineering judgement was used as the basis for this estimate.

MEASURES (TO BE) TAKEN TO MINIMIZE QUANTITY AND DURATION OF EMISSIONS: Operations immediately began looking for the source of the release as the hydrogen sulfide alarms activated. The valve was blocked that was the cause of the hydrogen sulfide being released to the atmosphere and a backup nitrogen supply valve was opened to restore the emergency PMV's to their normally closed positions.

MEASURES (TO BE) TAKEN TO PREVENT RECURRENCE (IF NOT DETERMINED YET, GIVE DATE WHEN MEASURES WILL BE SUBMITTED): Two nitrogen valves have been car sealed open which will minimize the potential of this event from being repeated. There are other recommendations that are also being evaluated as a result of this event.

DATE, TIME, AND MEANS OF NOTIFICATION (LETTER, TELEPHONE, ETC):

COMPLIANCE DIVISION: By copy of this report.

REGIONAL OFFICE: By this report and by telephone on 6/25/96 Eileen

LOCAL PROGRAM: Not applicable.

DATE: 07/13/96

SIGNED: Scott Harmon

Scott Harmon, Environmental Compliance Specialist

cc : Compliance Division, Austin, TX

Triage of 8(e) Submissions

Date sent to triage: _____

NON-CAP

CAP

Submission number: 13692A

TSCA Inventory: Y N D

Study type (circle appropriate):

Group 1 - Gordon Cash (1 copy total)

ECO AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX SBTOX SEN w/NEUR

Group 3 - HERD (1 copy each)

STOX CTOX EPI RTOX GTOX
STOX/ONCO CTOX/ONCO IMMUNO CYTO NEUR

Other (FATE, EXPO, MET, etc.): _____

Notes:

- This is the **original** 8(e) submission; refile after triage evaluation.
- This **original** submission has been **split**; rejoin after triage evaluation.
- Other:

Photocopies Needed for Triage Evaluation

entire document: 0 1 2 3

front section and CECATS: 0 1 2 3

Initials: _____

Date: _____

This submission will not be triaged because it contains no health or Eco data

CECATS DATA: Submission # 8HQ-0796-13692 SEQ. A

TYPE: (INT) SUPP FLWP

SUBMITTER NAME: Phillips Petroleum

Company

INFORMATION REQUESTED: FLWP DATE:

- 0501 NO INFO REQUESTED
- 0502 INFO REQUESTED (TECH)
- 0503 INFO REQUESTED (VOL ACTIONS)
- 0504 INFO REQUESTED (REPORTING RATIONALE)

DISPOSITION:

- 0677 REFER TO CHEMICAL SCREENING
- 0678 CAP NOTICE

VOLUNTARY ACTIONS:

- 0400 NO ACTION REQUIRED
- 0402 STUDIES PLANNED/IN PROGRESS
- 0403 NOTIFICATION OF WORKING METHODS
- 0404 LABEL/MSDS CHANGES
- 0405 PROCESS/HANDLING CHANGES
- 0406 APP/USE DISCONTINUED
- 0407 PRODUCTION DISCONTINUED
- 0408 CONFIDENTIAL

SUB. DATE: 07/09/96 OTS DATE: 07/16/96 CSRAD DATE: 08/20/96

CHEMICAL NAME:

CASE
7783-06-4
7446-09-5

INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C
0201 ONCO (HUMAN)	01 02 04	0216 EPICLJN	01 02 04	0241 IMMUNO (ANIMAL)	01 02 04
0202 ONCO (ANIMAL)	01 02 04	0217 HUMAN EXPOS (PROD CONTAM)	01 02 04	0242 IMMUNO (HUMAN)	01 02 04
0203 CELL TRANS (IN VITRO)	01 02 04	0218 HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243 CHEM/PHYS PROP	01 02 04
0204 MUTA (IN VITRO)	01 02 04	0219 HUMAN EXPOS (MONITORING)	01 02 04	0244 CLASTO (IN VITRO)	01 02 04
0205 MUTA (IN VIVO)	01 02 04	0220 ECO/AQUA TOX	01 02 04	0245 CLASTO (ANIMAL)	01 02 04
0206 REPRO/TERATO (HUMAN)	01 02 04	0221 ENV. OCCUREL/FATE	01 02 04	0246 CLASTO (HUMAN)	01 02 04
0207 REPRO/TERATO (ANIMAL)	01 02 04	0222 EMER INCI OF ENV CONTAM	01 02 04	0247 DNA DAM/REPAIR	01 02 04
0208 NEURO (HUMAN)	01 02 04	0223 RESPONSE REQEST DELAY	01 02 04	0248 PRODAUSE/PROC	01 02 04
0209 NEURO (ANIMAL)	01 02 04	0224 PROD/COMP/CHEM ID	01 02 04	0251 MSDS	01 02 04
0210 ACUTE TOX. (HUMAN)	01 02 04	0225 REPORTING RATIONALE	01 02 04	0299 OTHER	01 02 04
0211 CHR. TOX. (HUMAN)	01 02 04	0226 CONFIDENTIAL	01 02 04		
0212 ACUTE TOX. (ANIMAL)	01 02 04	0227 ALLERG (HUMAN)	01 02 04		
0213 SUB ACUTE TOX (ANIMAL)	01 02 04	0228 ALLERG (ANIMAL)	01 02 04		
0214 SUB CHRONIC TOX (ANIMAL)	01 02 04	0229 METAB/PHARMACO (ANIMAL)	01 02 04		
0215 CHRONIC TOX (ANIMAL)	01 02 04	0240 METAB/PHARMACO (HUMAN)	01 02 04		

TRIAGE DATA: YES NON-CBI INVENTORY YES ONGOING REVIEW YES (DROP/REFER) NO (CONTINUE) REF:R SPECIES N/A TOXICOLOGICAL CONCERN: LOW MED HIGH USE: PRODUCTION:

CAS SR NO IN PERMITS REF:R

00595212