

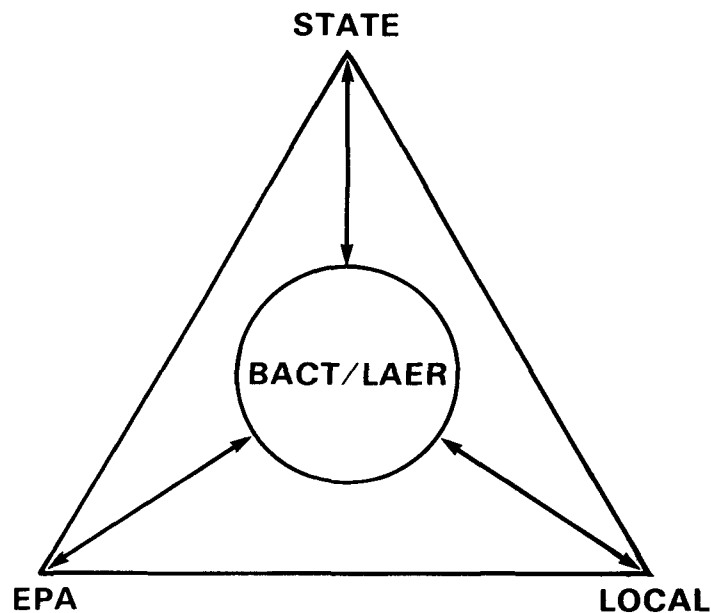
BACT/LAER Clearinghouse—

A Compilation Of Control Technology Determinations

Volume IIB

Appendix G

Source Type Codes 5.0 - 7.0



June 1985

Developed As Part Of A Joint Effort
Between The U.S. Environmental Protection Agency
And State And Local Air Pollution Control Agencies

BACT/LAER Clearinghouse

Prepared By

Emission Standards And Engineering Division

U.S. Environmental Protection Agency,
Region V, Library
230 South Dearborn Street
Chicago, Illinois 60604

U S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

June 1985

DISCLAIMER

This report was prepared by PEI Associates, Inc., Cincinnati, Ohio, under Contract No. 68-02-3890, Work Assignment No. 4. It has been reviewed by the Emission Standards and Engineering Division of the Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency. Mention of trade names or commercial products is not intended to constitute endorsement or recommendation for use. Copies of this report are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161.

 U.S. Environmental Protection Agency

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - SEPARATION 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION ARCO PETROLEUM PROD. CO. CARSON, CA

DETERMINATION IS BASED FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) LA-78-17
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)

RICK SUGAREK
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/06/79
 ESTIMATED DATE OF START-UP--
 (415)-974-8058
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
 DISTIL. UNIT, REPLACEMENT CRUDE 450.00 MMBTU/H HEA* POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

SO2 800.0000 PPM S REFIN. GAS
 0.2500 % S FUEL OIL
 SULFUR-IN-FUEL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW 04/01/1983 POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0017

SOURCE TYPE CODE 5.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - SEPARATION

COMPANY NAME/SITE LOCATION GULF STATES OIL & REFINING CO.

CORPUS CHRISTI, TX

NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8452

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/04/80
ESTIMATED DATE OF START-UP-- 1981
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
----------------------------------	---------------------	-------------------	---	-------------------------

HEATERS, 4	109.00 MBTU/H	SO2	32.9000 T/YR	BACT
------------	---------------	-----	--------------	------

			NONE - LOW SULFUR FUELS	
		NOX	19.5000 T/YR	AP42

FUGITIVE EMISSIONS		VOC	3.1000 T/YR	BACT
--------------------	--	-----	-------------	------

			MONITORING & MAINTENANCE	75.00
--	--	--	--------------------------	-------

VAC. COLUMN EJECTOR	16000.00 B/D FEED	VOC	NONE	
---------------------	-------------------	-----	------	--

			VAPORS TO FUEL SYSTEM	100.00
--	--	--	-----------------------	--------

NOTES -----
VACUUM COLUMN VAPORS ROUTED TO FUEL SYSTEM, STEAM CONDENSATE TO DESALTER. CONSIDERED AS A CLOSED SYSTEM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - SEPARATION 400.00 MMBTU/H

COMPANY NAME/SITE LOCATION THE DOW CHEMICAL CO.

FREEPORT, TX

BRAZORIA COUNTY

DETERMINATION IS BACT
PERMIT NO. (REGION FILE NO.) PSD-TX-405
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

2 VACUUM DISTALL. UNITS, GAS 200.00 MMSTU/H EA

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SO2

0.0270 LB/MMBTU

NSPS

NOX

0.1200 LB/MMBTU

BACT

LIMIT H2S TO 0.10 GR/DSCF
COM. AIR CONT. BY BURN. DESIGN

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0019

SOURCE TYPE CODE 5.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION

55000.00 EBL/D

COMPANY NAME/SITE LOCATION ASHLAND OIL, INC.

LEACH, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. C-82-127 SEE NOTE

DETERMINATION MADE BY KENTUCKY DAPC

(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/21/82

ESTIMATED DATE OF START-UP-- 1983

(502)-564-3392

(PHONE)

BILL DILLS

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CRACKER, REDUCED CRUDE W/2 FB C* 800.00 MMBTU/H

PM 69.0000 LB/H

298.0000 T/YR

FABRIC FILTER

CO 300.0000 PPM

2234.0000 T/YR

AFTERSURNER

SO2 250.0000 PPM

4260.0000 T/YR

DRY LIME INJ.

NOX 0.2000 LB/MMBTU

713.0000 T/YR

VOC 65.0000 T/YR

PROCESS CHANGE

LAER

99.70

BACT

98.70

LAER

92.90

BACT

LAER

66.20

NOTES -----

NOTE -- C-82-127 WAS NOT A NSR/PSD PERMIT. IT MODIFIED FACILITIES BEING CONSTRUCTED UNDER PERMIT C-80-127 ISSUED 12/01/80 WHICH

H WAS BOTH NSR & PSD.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 02/13/1984

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER KY-0026

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO. WILMINGTON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. LA-79-05

DETERMINATION MADE BY EPA REGION IX

(AGENCY)

LARRY BOWERMAN

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/24/80

ESTIMATED DATE OF START-UP--

(415)-974-8213

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

FCC UNIT

30000.00 BBL/D

SO2

84.0000 LB/H 2H AV

56.0000 LB/H 24H AV

SULFUR SCAVENGING ZEOLITE CATALYST

DESULFURIZATION OF FEED TO 0.2% S

ALKYLATION UNIT, HYDROFLUORIC A* 8500.00 BBL/D

SO2

230.0000 MG/DSCM H2S

0.1000 GR/DSCF

SULFUR IN FUEL

CATALYTIC POLYMERIZATION UNIT 3500.00 BBL/D

SO2

230.0000 MG/DSCM H2S

0.1000 GR/DSCF

SULFUR IN FUEL

NOTES -----

0.2% S FEED. -- FLUIDIZED CATALYTIC CRACKING UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

REVIEW STATUS: 04/01/1983

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ID NUMBER CA-0016

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 22.50 MMBL/D

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
UP RIVER ROAD/SOUTHERN

CORPUS CHRISTI, TX NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-408
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/13/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COCKER HEATER	276.00 MMBTU/H	NOX	0.1600 LB/MMBTU LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0290 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, KEROSENE HYDROTREATER C*	24.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0330 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, KEROSENE HYDROTREATER R*	25.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0320 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, MIXED DIST. HYDROTREATE*	49.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0310 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0018

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 6100.00 BBL/D

COMPANY NAME/SITE LOCATION CHEVRON RICHMOND, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 27803
 DETERMINATION MADE BY BAY AREA AQHD
 (AGENCY)

JOHN SWANSON
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/06/81
 ESTIMATED DATE OF START-UP-- 1983
 (415)-771-6000
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

FCC 61000.00 BPD PM 10.0000 LB/H 240.0000 LB/D 2 PARALLEL ESP'S 94.00

NOTES -----
 ESP COST \$9600000. FILE A 350-009

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/19/1984
 ID NUMBER CA-0045B SOURCE TYPE CODE 5.2
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 45.00 MBPSD

COMPANY NAME/SITE LOCATION EXXON CO., USA/BAYWAY REFIN.
1400 PARK AVENUE

LINDEN, NJ 07036

UNION COUNTY

DETERMINATION IS B/L
PERMIT NO.
DETERMINATION MADE BYEPA REGION II
(AGENCY)LARRY KARAS
(AGENCY CONTACT PERSON)DATE OF PERMIT ISSUANCE-- 10/27/80
ESTIMATED DATE OF START-UP--
(212)-264-9538
(PHONE)PROCESSES SUBJECT
TO THIS PERMITTHROUGHPUT
CAPACITYPOLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PROCESS HEATER

VOC	5.1000 T/YR	O2 ANALYZER/EFFICIENT COMBUSTION	LAER
NOX	1663.0000 T/YR	CONVENTIONAL BURNERS	BACT
S02	195.4000 T/YR	SCRUBBER & SULFUR PLANT .1 GR/DSCF H2S-FLUEGAS/.5% S BY WT. FUEL OIL	BACT

HYDROFINER POWER FORMER

VOC	2.5000 T/YR	FURNACE BURNER	LAER
S02	4416.6000 T/YR	3 CLAUS & 1 PARSON BEAVON UNITS	BACT

TANKAGE

VOC	4.1000 T/YR	EXT. FLOATING ROOF + DOUBBLE SEAL EXT. FLOAT. ROOF & 2 SEALS	LAER
-----	-------------	---	------

FUGITIVE EMISSIONS

VOC	203.0000 T/YR	PROPER COMBUSTION PROPER MAINTENANCE	LAER
-----	---------------	---	------

NOTES -----

A NEW 45 MB/SD CATALYTIC REFORMING UNIT (POWER FORMER) WILL UPGRADE OCTANE LEVELS OF VIRGIN AND ICN NAPHTHAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NJ-0001

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION

COMPANY NAME/SITE LOCATION KOCH REFINING CO.

CORPUS CHRISTI, TX

MUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 9398

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

KAREN NEUMANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/18/84
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, CONVERTED CO	212.50 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
----------------------	----------------	-----	------------------------------------	------

		SO2	0.1000 GR H2S/DSCF FUEL CONTENT	B/N
--	--	-----	---------------------------------	-----

		CO	35.0000 LB/MMSCF	NOTE
		PM	5.0000 LB/MMSCF	NOTE
		VOC	2.8000 LB/MMSCF	NOTE

FCCU CHARGE HEATER #BA-101	32.40 MMBTU/H	SO2	0.1000 GR H2S/DSCF FUEL CONTENT	BACT
----------------------------	---------------	-----	---------------------------------	------

		NOX	140.0000 LB/MMSCF	NOTE
		CO	35.0000 LB/MMSCF	NOTE
		PM	5.0000 LB/MMSCF	NOTE
		VOC	2.8000 LB/MMSCF	NOTE

FCCU CHARGE HEATER # BA-105	76.80 MMBTU/H	SO2	0.1000 GR H2S/DSCF FUEL CONTENT	B/N
-----------------------------	---------------	-----	---------------------------------	-----

		NOX	140.0000 LB/MMSCF	NOTE
		CO	35.0000 LB/MMSCF	NOTE
		PM	5.0000 LB/MMSCF	NOTE
		VOC	2.8000 LB/MMSCF	NOTE

BOILER, CO & FCCU FLUE GAS SCRUB	254.90 MMBTU/H	CO	1.1900 LB/MMBTU 500.0000 PPMV IN COILER STACK CO PROMOTER CATALYST	B/N
----------------------------------	----------------	----	--	-----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

(CONTINUED) KOCH REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		SO2	1.2400 LB/MMBTU EDUCTOR TYPE FLUE GAS SCRUBBER	BACT 90.00
		PM	0.2200 LB/MMBTU EDUCTOR TYPE FLUE GAS SCRUBBER	BACT 90.00
		NOX	1.7600 LB/MMBTU LOW NOX BURNERS	BACT 90.00
		VOC	1.6000 EE-3 LB/MMBTU	NOTE
		NH3	9.0000 EE-3 LB/MMBTU	NOTE
FUGITIVES		VOC	13.3500 LB/NEBL FCCU FEED FUGITIVE MONITORING & MAINTENANCE PROGRAM	B/S 75.00

NOTES -----
ANOTHER CONTACT - ED KASPRZYK, REGION 5 - CORPUS CHRISTI OFFICE, (512)-289-1696. NOTE - THESE POLLUTANTS ARE UNREGULATED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	REVIEW STATUS:	INITIAL REVIEW	POST STARTUP
PAGE G- 376	ID NUMBER TX-0157	SOURCE TYPE CODE	5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 1480.00 BPSD

COMPANY NAME/SITE LOCATION TEXAS OLEFINS CO.

, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9348

DETERMINATION MADE BY TEXAS ACB (AGENCY)

KAREN NEUMANN (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/23/83
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

POLYMERIZATION UNIT

1480.00 BPSD

VOC 54.8200 T/YR
NOX 8.4700 T/YR
CO 1.2600 T/YR
PH 0.3500 T/YR

BACT
BACT
BACT

NOTES

SIC = 2869. VOC CONTROL PROVIDED BY VAPOR RECOVERY UNIT ON LOADING OPERATIONS/ DIRECTED MAINTENANCE ON VALVES, PUMPS, ETC./ FLARES FOR UPSET EMISSIONS/ FLOATING ROOFS WITH SECONDARY SEALS ON TANKS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1994

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 20000.00 MGBL/D

COMPANY NAME/SITE LOCATION UNITED REFINING CO. WARREN, PA WARREN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/25/80
 PERMIT NO. 78PA14 ESTIMATED DATE OF START-UP-- 1980
 DETERMINATION MADE BY EPA REGION III VERNON BUTLER (215)-597-2711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIC ... PCT EFF
FCC UNIT		S02	350.0000 LB/H 0.65% S FUEL OIL	BACT
REFORMER HEATER		S02	65.0000 LB/H 1% S IN FUEL OIL	BACT
CLAUS PLANT		S02		BACT
REBOILER		S02	24.0000 LB/H 1% S FUEL OIL	NSPS

NOTES -----
 S02 EMISSIONS FROM FLUID CATALYTIC CRACKER UNIT, REFORMER HEATER, AND REBOILER IMPACT ON NON-ATTAINMENT AREA

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING 9.00 MMCFD

COMPANY NAME/SITE LOCATION COLLET VENTURES, INC. COPELAND, AL

DETERMINATION IS PERMIT NO. 108-0002-X001-X005 DATE OF PERMIT ISSUANCE-- 01/12/84
 DETERMINATION MADE BY ALABAMA DEM ESTIMATED DATE OF START-UP-- 1985
 (AGENCY) (AGENCY CONTACT PERSON) (205)-271-7861
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MCRC SULFUR REC PLANT	114.00 LT/D	SO2	0.0300 LB/LB OF INLET SULFUR TAIL-GAS INCINERATOR	BACT 98.50
ENGINE, GAS-FIRED, 2 EA	1072.00 HP	NOX	5.0000 G/HP-H CATALYTIC CONVERTERS	BACT
ENGINE, COMPRESSOR, 2 EA	412.00 HP	NOX	5.0000 G/HP-H CATALYTIC CONVERTERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP REVIEW STATUS: SOURCE TYPE CODE 5.3
 ID NUMBER AL-0024

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION ENDEVCO, INC.
ST. HWY 134
FOUKE, AR MILLER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AR-240H-1
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
TOM DIGGS
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIETHANOLAMINE RECONCENTRATOR	60000.00 BTU/H	SO2	0.1000 LB/H FIRING OF NAT. GAS	BACT
TRIETHYLENE GLYCOL	60000.00 BTU/H	SO2	0.1000 LB/H FIRING OF NAT. GAS	BACT
INCINERATION		SO2	460.0000 LB/H NO CONTROL,USED TO CONTROL H2S	BACT

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING 2.00 MMSCFD

COMPANY NAME/SITE LOCATION OIL INTERNATIONAL LTD

OILMONT, MT

TOOLE COUNTY

DETERMINATION IS PERMIT NO.

DETERMINATION MADE BY STATE OF MONTANA (AGENCY)

HARRY KELTZ (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/10/83
ESTIMATED DATE OF START-UP--
(406)-449-3454
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

INCINERATOR

2.00 MMSCFD

S02 57.0000 LB/H
249.0000 T/YR

INCINERATION

BACT

0.00

NOTES

50 WEEK/YR OPERATION - PLANT IS IN BASICALLY SAME LOCATION AS OLD PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MT-0003

SOURCE TYPE CODE 5.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION PACIFIC REFINING CORP. HERCULES, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 29180
 DETERMINATION MADE BY BAY AREA AQMD
 (AGENCY)

LEONARD CLAYTON
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/28/83
 ESTIMATED DATE OF START-UP-- 1986
 (415)-771-6000
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FUEL HANDLING, REFINERY FUEL GAS	500000.00 SCF/H	SO2	50.0000 PPM H2S IN FUEL GAS	BACT 80.00
			DIGLYCOL AMINE SCRUB SYSTEM	
FURNACE, REFORMING	275.00 MMBTU/H	NOX	20.0000 PPM AT 3% O2	BACT 85.00
			SCR & NH3 INJECTION	

NOTES -----
 SCR = SELECTIVE CATALYTIC REDUCTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 PAGE 6- 382
 ID NUMBER CA-0056
 REVIEW STATUS: 04/19/1984
 INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 5.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING 5.00 HP

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 27769
 DETERMINATION MADE BY BAY AREA AQMD
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 02/19/82
 ESTIMATED DATE OF START-UP-- 1983
 (415)-771-6000
 (PHONE)

JIM KARAS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT
 CENTRIFUGAL PUMPS

THROUGHPUT
 CAPACITY
 5.00 HP

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

VOC 500.0000 PPM
 DOUBLE MECH. SEAL W/HEAVY SEAL OIL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10.80 MMGAL

PETROLEUM REFINING - FEEDSTOCK

SOURCE TYPE/SIZE

WHITING, IN

COMPANY NAME/SITE LOCATION AMOCO OIL CO.

DETERMINATION IS LAER FOR A NEW SOURCE.
 PERMIT NO. PC (45) 1479
 DETERMINATION MADE BY INDIANA APCD
 (AGENCY)
 KEN KEARNEY
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/27/81
 ESTIMATED DATE OF START-UP--
 (317)-633-0647
 (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

VOC

5.40 MMGAL

STORAGE TANKS, GASOLINE

WELDED TANKS & INT FLOAT ROOFS

LAER

NOTES -----
 2 GASOLINE STORAGE TANKS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 REVIEW STATUS: 04/01/1983
 INITIAL REVIEW POST STARTUP

ID NUMBER IN-0010

SOURCE TYPE CODE 5.4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION ARCO PIPELINE CO.
FT. MIFFLIN TERMINAL TINICUM TOWNSHIP, PA DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79PA24 DATE OF PERMIT ISSUANCE-- 01/18/80
DETERMINATION MADE BY EPA REGION III ESTIMATED DATE OF START-UP-- 1981
(AGENCY) BOB BLASZCZAK (215)-597-8186
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS NO. 1	10.00 MBSL	VOC	0.2700 LB/H INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 2, 13, 15	100.00 MBSL	VOC	1.6500 LB/H INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 4, 12	150.00 MBSL	VOC	2.1600 LB/H INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 9, 10	100.00 MBSL	VOC	1.3200 LB/H INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 11, 14	100.00 MBSL	VOC	1.6100 LB/H INTERNAL FLOATING ROOFS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION VENTECH REFIN.
JCT. HWY 190 & RT. 105

KROTZ SPRINGS, LA 70750

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-278A
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/13/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

TANKS, 2EA 120000.00 BBL

VOC 0.8700 LB/H
DOUBLE SEALS

BACT

TANKS, 6EA 55000.00 BBL

VOC 0.0200 LB/H
DOUBLE SEALS

BACT

TANK 25000.00 BBL

VOC 0.3500 LB/H
DOUBLE SEALS

BACT

BARGE LOAD/UNLOAD

VOC 3.0200 LB/H
VAPOR COLLECTION & INCIN. SYS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION ALLIED MATERIALS CORP.
RT. 66

STROUD, OK

LINCOLN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-344
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

BILL TAYLOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/30/81
ESTIMATED DATE OF START-UP-- 1981
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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WASTE INCINERATOR/HEAT RECOVERY*	56.00 M ³ STU/H	S02	4.4300 LB/MMBTU NONE APPLICABLE	BACT
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NOTES -----
WASTE INCIN./HEAT RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER OK-0007

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION AMERICAN PETROFINA CO. OF TEXAS

, TX

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. SEE NOTE

DETERMINATION MADE BY TEXAS ACB (AGENCY)

STUART KEIL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/21/83
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

COMBUSTION UNITS

NOX 0.1200 LB/MMBTU GAS
0.3000 LB/MGAL LIQUID
STAGED COMBUSTION

NEW & EXISTING SRU'S

NSPS

SO2 250.0000 PPM SCOT TAIL GAS CLEAN-UP
H2S NOTE #2
FUG. MONITOR & MAINTEN. FOR H2S PROCESS LEAKS

NOTES -----

NOTE -- PERMIT NO. C-9193,9194,9195,9196

NOTE #2 -- MINIMIZE FUGITIVES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0127

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 130.00 MBPSD

COMPANY NAME/SITE LOCATION AMOCO
5TH AVE. S. TEXAS CITY

TEXAS CITY, TX

GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-402
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 12 EA	144.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		SO2	0.0300 LB/MMBTU GAS FIRED	NSPS
SULFUR RECOVERY UNIT	1000.00 LT/D SULFUR	NOX	13.0000 LB/H EFFICIENT OPERATION	BACT
		SO2	250.0000 PPM 3-STAGE CLAUSS UNIT	NSPS 99.90
SRU FLARE	8.80 MMBTU/H	NOX	0.1200 LB/MMBTU EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MMBTU GAS FIRED	NSPS
HYDROTREATER FLARES, 2	6.10 MMBTU/H EA	NOX	0.1200 LB/MMBTU EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MMBTU GAS FIRED	BACT

NOTES -----
H2S LIMITED TO 0.1 GRAIN/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 50000.00 BPSD

COMPANY NAME/SITE LOCATION AMOCO TEXAS REFINING CO. 2401 5TH AVENUE SOUTH TEXAS CITY, TX 77490

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE--
 PERMIT NO. TX-101 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI JOHN BUNYAK (214)-767-1594
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE, EXISTING PREHEAT		NOX	56.2000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	63.2000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	76.5000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING HOT OIL		NOX	47.9000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, NEW DESULFURIZING		NOX	21.2000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT

NOTES -----
 MODIFIED GASOLINE REFORMER TO PRODUCE GASOLINE OF LOW LEAD CONTENT. INCREASED REFORMER CHARGE RATE FROM 49000 TO 50000 BBL/STR
 EAM DAY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0067
 SOURCE TYPE CODE 5.5
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION ARCO ALASKA, INC.
KUPARUK FIELD NEAR PRUDHOE BAY, AK

DETERMINATION IS BACT PERMIT NO. 8436-AA011 DATE OF PERMIT ISSUANCE-- 01/11/85
DETERMINATION MADE BY ALASKA DEC ESTIMATED DATE OF START-UP-- 1986
(AGENCY) (907)-465-2666
DAVE ESTES (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS	10.00 MHP TOTAL	NOX	100.0000 PPM AT 15% O2, DRY LO NOX BURNERS	BACT
		VE	10.0000 % OPACITY	BACT
		SO2	20.0000 PPM H2S IN FUEL GAS	BACT
PROCESS HEATERS	275.00 MMBTU/H TOT*	NOX	0.0800 LB/MMBTU LO NOX BURNERS	BACT
		VE	10.0000 % OPACITY	BACT
		SO2	20.0000 PPM H2S IN FUEL GAS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CALCASIEU REFIN.

CALCASIEU, LA

CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-293
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 07/22/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

JOHN BUNYAK
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

HEATERS, 3 EA

160.00 MMBTU/H

NOX

0.1100 LB/MMBTU
 LOW NOX BURNERS

BACT
 35.00

INCIN.

2.00 MMBTU/H

NOX

0.1000 LB/MMBTU
 LOW NOX BURNERS

BACT
 35.00

NOTES

THREE HEATERS AND ONE INCINERATOR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BPSD
 COMPANY NAME/SITE LOCATION CAROLINA REFINING & DIST SAVANNAH, GA CHATHAM COUNTY
 STATE HWY 21

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/10/80
 PERMIT NO. GA 063 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY GEORGIA EPD (404)-656-6900
 (AGENCY) (PHONE)
 BILL MITCHELL
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 PROCESS HEATERS 584.00 MMBTU/H
 SO2
 NOX 518.1000 T/YR CLAUD-STRETFORD
 VOC 3326.2000 T/YR GOOD OPERATION PRACTICES
 NSPS 98.00
 BACT
 BACT

NOTES -----
 OPERATION PROHIBITED BY STATE AUTHORITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993
 ID NUMBER GA-0001 SOURCE TYPE CODE 5.5
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
1200 SMITH ST., SUITE 1900

HOUSTON, TX 77002

NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-337
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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PLATFORM CHARGE HEATERS, 3 392.00 MMBTU/H

SO2	9.9000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS	NSPS
-----	--	------

TRACE H2S

NOX	47.0000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	BACT
-----	---	------

AFR CONTROL, LNB

SO2	112.7000 LB/H G/O 0.7600 LB/MMBTU G/O	NSPS
-----	--	------

TRACE H2S

NOX	67.3000 LB/H G/O 0.1700 LB/MMBTU G/O	BACT
-----	---	------

AFR CONTROLS, LNB

SO2	0.6000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS	NSPS
-----	--	------

TRACE H2S

NOX	3.0000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	NSPS
-----	--	------

AFR CONTROLS, LNB

SO2	17.5000 LB/H G/O 0.7600 LB/MMBTU G/O	NSPS
-----	---	------

TRACE H2S

NOX	4.4000 LB/H G/O 0.1700 LB/MMBTU G/O	BACT
-----	--	------

AFR CONTROLS, LNB

HEATER, PLATFORMER DEPENTANIZER 25.20 MMBTU/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0063

SOURCE TYPE CODE 5.5

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORM AROMATIC	20.30 MMBTU/H			
		SO2	0.5000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS TRACE H2S	NSPS
		NOX	2.4000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	BACT
		SO2	AFR CONTROL, LNB 13.8000 LB/H G/O 0.7600 LB/MMBTU G/O	NSPS
		NOX	TRACE H2S 3.5000 LB/H G/O 0.1700 LB/MMBTU G/O	BACT
HEATER, HYDROTREATER CHARGE	47.60 MMBTU/H			
		SO2	AFR CONTROL, LNB 1.2000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS TRACE H2S	NSPS
		NOX	5.7000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	BACT
		SO2	AFR CONTROL, LNB 33.0000 LB/H G/O 0.7600 LB/MMBTU G/O	NSPS
		NOX	TRACE H2S 8.2000 LB/H G/O 0.1700 LB/MMBTU G/O	BACT
REBOILER, HYDROTREATER STRIPPER	31.40 MMBTU/H			
		SO2	AFR CONTROL, LNB 0.8000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS TRACE H2S	NSPS
		NOX	3.8000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	BACT
		SO2	AFR CONTROLS, LNB 2.2000 LB/H G/O 0.7600 LB/MMBTU G/O	NSPS
		NOX	TRACE H2S 5.4000 LB/H G/O 0.1700 LB/MMBTU G/O	BACT
BOILERS, 3 (FUEL GAS ONLY)	47.00 MMBTU/H EA		AFR CONTROLS, LNB	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0063

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SOURCE TYPE CODE 5.5

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
EMERGENCY FLARE	16.00 SCFM	SO2	1.2000 LB/H	NSPS
			0.0250 LB/MMBTU TRACE H2S	
		NOX	5.6000 LB/H	BACT
			0.1200 LB/MMBTU	
			AFR CONTROL, LNB	
		SO2	0.1000 LB/H	BACT
		NOX	NONE	
			0.1000 LB/H	BACT
			STEAM INJECTION	

NOTES

FUEL OIL S CONTENT NOT SPECIFIED. PERMITTEE IS REQUIRED TO SAMPLE & ANALYZE S CONTENT OF FUEL OIL AT LEAST ONCE/DAY TO DETERMINE COMPLIANCE WITH THE ALLOWABLE SO2 EMISSION LIMITS. EMERGENCY FLARE OPERATED ONLY UNDER EMERGENCY CONDITIONS. WHEN PROCESS GASES ARE VENTED TO FLARE FOR MORE THAN 5 MIN. IN ANY 2 HOUR PERIOD, RECORDS SHALL BE KEPT FOR 2 YEARS FOLLOWING SUCH OCCURRENCE. TRACE = <0.10 GR/DSCF. LNB = LOW NOX BURNERS. AFR CONTROLS =AIR/FUEL RATIO CONTROLS. G/O = GAS/OIL MIX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5

ID NUMBER TX-0063

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 7000.00 GPCD

COMPANY NAME/SITE LOCATION CHEVRON USA REF. BASCAGOULA, MS JACKSON COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 12/10/80
 PERMIT NO. MS 024 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY MISSISSIPPI DNR DWIGHT WILEY (601)-354-2550
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS EQUIPMENT	16000.00 GPCD	SO2	0.1000 GR/DSCF BEAVON S REM. PROC. TAIL GAS LOW SULFUR	NSPS
		NOX	125.0000 PPM GAS DESIGN	BACT

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27797

DETERMINATION MADE BY BAY AREA AQMD

(AGENCY)

JOHN SWANSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/08/82

ESTIMATED DATE OF START-UP-- 1984

(415)-771-6000

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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FURNACE #4	57.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #5	18.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #6	15.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #1	12.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #2	19.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #3	66.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #7	22.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #8	28.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #9	26.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

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ID NUMBER CA-0045

SOURCE TYPE CODE 5.5

(CONTINUED) CHEVRON USA, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
FURNACE #10	15.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	
		NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	

NOTES -----

SCR = SELECTIVE CATALYTIC REDUCTION, FURNACES ARE BURNING REFINERY MAKE GAS OF 1025 BTU/ACF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
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	ID NUMBER CA-0045	SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CITIES SERVICE CO.
P.O. BOX 1562
LAKE CHARLES, LA 70602

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 01/18/80
ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) (PHONE)
JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMER FURNACE, B-501,502,506*	198.50 MMBTU/H	NOX	0.0030 LB/MMBTU 37.6000 LB/H LOH NOX BURNERS & LEA FIRING	BACT
		VOC	0.0030 LB/MMBTU 0.6000 LB/H COM. CONT. F. G. 02 METER	BACT
REFORMER FURNACE, B-503,504,505*	536.90 MMBTU/H	NOX	0.1900 LB/MMBTU 101.7000 LB/H LOH NOX BURNERS	BACT
		VOC	0.0030 LB/MMBTU 1.5000 LB/H COM. CONT. F. G. 02 METER	BACT
C REFORMER, REGEN. VENT		NOX	NONE	
		VOC	NONE	
A REFORMER FURNACE, B-102 - 106	93.10 MMBTU/H GAS	VOC	0.9600 LB/H 0.0130 MMBTU/H NONE	BACT
		NOX	34.5000 LB/H 0.0400 LB/MMBTU NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5
ID NUMBER LA-0038
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(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
A REFORMER FURNACE, B-201	64.80 MMBTU/H	NOX	14.2000 LB/H 0.0003 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
A REFORMER FURNACE, B-202	53.00 MMBTU/H	NOX	11.6000 LB/H 0.0003 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
B REFORMER FURNACE, B-401	60.40 MMBTU/H	NOX	13.2000 LB/H 0.0003 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
B REFORMER FURNACE, B-406	57.30 MMBTU/H	NOX	12.6000 LB/H 0.0003 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
B REFORMER FURNACE, B-402	55.90 MMBTU/H	NOX	12.2000 LB/H 0.0003 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
B REFORMER FURNACE, B-403,404,4*	330.00 MMBTU/H	NOX	50.6000 LB/H 0.2200 LB/MMBTU NONE	BACT
		VOC	2.3000 LB/H 0.0030 LB/MMBTU NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER FURNACE, B-101	108.20 MMBTU/H	NOX	23.70% LB/H 0.0030 LB/MMBTU NONE	BACT
		VOC	0.3000 LB/H 0.0030 LB/MMBTU NONE	BACT
COKER FURNACES, B-201	82.40 MMBTU/H	NOX	18.0000 LB/H 0.2200 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
TOPPER FURNACE, B-2C	65.90 MMBTU/H	NOX	14.4000 LB/H 0.2200 LB/MMBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU NONE	BACT
POWER HOUSE BOILER, B-3, B-3B	173.00 MMBTU/H GAS	NOX	60.5000 LB/H 0.0050 LB/MMBTU NONE	BACT
		VOC	0.9000 LB/H 0.0050 LB/MMBTU NONE	BACT
POWER HOUSE BOILER, B-A3,3C	173.00 MMBTU/H	NOX	60.5000 LB/H 0.3500 LB/MMBTU NONE	BACT
		VOC	0.9000 LB/H 0.0050 LB/MMBTU NONE	BACT
TANKAGE		VOC	581.7000 LB/H BACT FOR FUGITIVE HC	BACT
REFINERY, MSC. SOURCES		VOC	291.0000 LB/H BACT FOR FUGITIVE HC	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

ID NUMBER LA-0038

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(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPLEX COOLING TOWERS		VOC	234.4000 LB/H BACT FOR FUGITIVE HC	BACT

NOTES -----

REFINERY MODIFICATIONS INCLUDE: INSTALLATION OF NEW "C" REFORMER, REVISION OF REFINERY FUEL BALANCE, INSTALLATION OF AIR PREHE
AT AND FLUE GAS WASTE HEAT BOILERS FOR EMERGENCY CONSERVATION, CRUDE DISTILLATION COLUMN MODIFICATION,
AND CONVERSION OF CONE ROOF TANKS TO INTERNAL FLOATING PANS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
	REVIEW STATUS: 04/01/1983	
PAGE 6- 403	ID NUMBER LA-0038	SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL CO., WOOD RIVER REFIN.
P.O. BOX 7

HARTFORD, IL 62048

MADISON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 81060081

DETERMINATION MADE BY

ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/25/81
ESTIMATED DATE OF START-UP-- 1986
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PROCESS HEATERS

NOX	389.3000 T/YR	LOW NOX BURNERS
SO2	1.0000 LB/MMBTU	
PM	92.9000 T/YR	BURNING BYPRODUCT GAS WITH OIL
CO	55.5000 T/YR	
VOC	70.2000 T/YR	

STORAGE TANKS

NOTES -----

NOX EMISSION LIMIT ON PROCESS HEATERS WILL BE SPECIFIED UPON SUBMISSION OF DETAILED ENGINEERING SPECIFICATIONS. ALSO PERMIT # 119 050 AAA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER IL-0003

SOURCE TYPE CODE 5.5

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL, MT. AIRY REFINERY

GARYVILLE, LA

ST. JOHN BAPTIST PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-392

LAGD/EPA REGION VI

(AGENCY)

DATE OF PERMIT ISSUANCE-- 12/22/83

ESTIMATED DATE OF START-UP--

(504)-342-8940

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

RECOVERY UNIT, SULFUR

12.00 LT/D

S02

50.0000 LB/H

CATALYTIC AFTER BURNER

B/A

96.00

NOTES -----

NSFS NOT APPLICABLE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER LA-0045

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 225.00 MEPSD

COMPANY NAME/SITE LOCATION COASTAL STATES PETROLEUM P.O. DRAWER 521
CORPUS CHRISTI, TX 78043 NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-243
DETERMINATION MADE BY EPA REGION VI
(AGENCY) JOHN BUNYAK
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/14/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCIN.	15.70 MMBTU/H	NOX	2.3000 LB/H 0.1500 LB/MMBTU LEA FIRING	BACT
		CO	0.3000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, COKER CHARGE	113.00 MMBTU/H	NOX	13.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	2.0400 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, FCCU FEED	65.00 MMBTU/H	NOX	7.8000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.1700 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
REBOILER, ISOSTRIPPER	89.00 MMBTU/H	NOX	10.7000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
GAS OIL HDS HEATER	73.00 MMBTU/H	CO	1.6000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
		NOX	8.8000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
REBOILER, GAS OIL HDS	36.00 MMBTU/H	CO	1.3100 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
		NOX	4.3000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
REBOILER, CRUDE UNIT	55.00 MMBTU/H	CO	0.6500 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
		NOX	6.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
HEATER, VACUUM CHARGE	51.00 MMBTU/H	CO	0.9900 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
		NOX	5.4000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
HEATER, CRUDE CHARGE	45.00 MMBTU/H	CO	0.9200 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
		NOX	5.4000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
HEATER, TAIL GAS UNIT	6.30 MMBTU/H	CO	0.8100 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
		NOX	5.4000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, REFORMER	123.00 MMBTU/H	NOX	0.8000 LB/H	BACT
			0.1200 LB/MMBTU	
			LEA FIRING/LOW NOX BURNERS	
		CO	0.1100 LB/H	BACT
			0.0200 LB/MMBTU	
			LEA FIRING	
		NOX	14.8000 LB/H	BACT
			0.1200 LB/MMBTU	
			LEA FIRING/LOW NOX BURNERS	
		CO	2.2200 LB/H	BACT
			0.0200 LB/MMBTU	
			LEA FIRING	
HEATER, NAPTHA HDS	35.00 MMBTU/H	NOX	4.2000 LB/H	BACT
			0.1200 LB/MMBTU	
			LEA FIRING/LOW NOX BURNERS	
		CO	0.6300 LB/H	BACT
			0.0200 LB/MMBTU	
			LEA FIRING	
		NOX	2.0000 LB/H	BACT
			0.1200 LB/MMBTU	
			LEA FIRING/LOW NOX BURNERS	
		CO	0.2900 LB/H	BACT
			0.0200 LB/MMBTU	
			LEA FIRING	
REBOILER, KEROSENE HDS	12.50 MMBTU/H	NOX	1.5000 LB/H	BACT
			0.1200 LB/MMBTU	
			LEA FIRING/LOW NOX BURNERS	
		CO	0.2300 LB/H	BACT
			0.0200 LB/MMBTU	
			LEA FIRING	
		NOX	1.1000 LB/H	BACT
			0.1200 LB/MMBTU	
HEATER, DIESEL HDS	9.10 MMBTU/H		LEA FIRING/LOW NOX BURNERS	
		CO	0.1600 LB/H	BACT
			0.0200 LB/MMBTU	
			LEA FIRING	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REGOILER, DIESEL HDS	10.30 MMBTU/H	NOX	1.2000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.1800 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
BOILER, UTILITY	88.00 MMBTU/H	NOX	10.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
BOILER, UTILITY	88.00 MMBTU/H	NOX	10.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
REGENERATOR, FCCU		NOX	160.0000 LB/H NONE	BACT
		CO	103.9000 LB/H HIGH TEMP. REGENERATION	BACT

NOTES -----
CAPACITY INCREASE FROM 185 TO 225 MSPSD.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 12000.00 BPSD

COMPANY NAME/SITE LOCATION CONOCO, INC.
LAKE CHARLES REFIN. WESTLAKE, LA CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-419 DATE OF PERMIT ISSUANCE-- 10/08/81
DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP-- 1982
JOHN BENHAM (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HDS CHARGE	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
REBOILER, HDS STRIPPER	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, REFORMER CHARGE	52.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERPASS	46.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERPASS	37.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
REBOILER, DEPROPANIZER	32.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) CONOCO, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAME PROCESS (CONTINUED)

	INITIAL REVIEW	POST STARTUP
(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	REVIEW STATUS: 04/01/1983	
PAGE G- 411	ID NUMBER LA-0008	SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 100000.00 BBL/D
 COMPANY NAME/SITE LOCATION CONOCO, INC. WESTLAKE, LA CALCASIEU PARISH
 LAKE CHARLES REFIN.

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 08/10/81
 PERMIT NO. (REGION FILE NO.) PSD-LA-390 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATERS, 2 DELAYED REG.	99.00 MMSTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
HEATER, CRACKED DISTIL HYDRO DE*	16.00 MMSTU/H	NOX	0.1200 LB/MMSTU LOW NOX BURNER LOW EXCESS AIR	BACT
HEATER, HEAVY VACUUM GAS OIL HY*	15.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
INCIN., SULFUR RECOVERY PLANT	9.68 MMBTU/H	NOX	0.1200 LB/MMSTU LOW NOX BURNER LOW EXCESS AIR	BACT

NOTES -----
 4 FUEL GAS-HEATERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
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 ID NUMBER LA-0010 SOURCE TYPE CODE 5.5
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 48000.00 BBL/D

COMPANY NAME/SITE LOCATION CRA, INC. COFFEYVILLE, KS MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 09/04/80
 DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP--
 (AGENCY) DANIEL RODRIGUEZ (816)-374-6525
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, UNIT 40 (RETROFIT)	51.00 MMSTU/H	NOX	0.1300 LB/MMSTU LOW NOX BURNERS	BACT
HEATER, UNIT 41 (BUILT, BUT NOT*)	32.00 MMSTU/H	NOX	0.1500 LB/MMSTU	BACT
HEATER, UNIT 42 (RELOCATE)	136.00 MMSTU/H	NOX	0.1600 LB/MMSTU CONVENT. BURN W/AIR PREHEAT	BACT
HEATER, UNIT 43 (RELOCATE)	27.60 MMSTU/H	NOX	0.1300 LB/MMSTU LOW NOX BURNERS	BACT
HEATER, UNIT 44 (NEW)	21.70 MMSTU/H	NOX	0.1300 LB/MMSTU LOW NOX BURNERS	BACT
HEATER, UNIT 45 (NEW)	62.20 MMSTU/H	NOX	0.1300 LB/MMSTU LOW NOX BURNERS	BACT

NOTES -----
 LIMITS FOR UNITS 42 & 43 WERE AMENDED FROM 0.15 LB/MMSTU ON JULY 6, 1981. SIZE IS REFINERY CAPACITY. UNITS 41 & 42 EQUIPPED WITH CONVENTIONAL BURNERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 EBL/M

COMPANY NAME/SITE LOCATION CYPRESS REFINING CO., HILL PETROLEUM CO. KROTZ SPRINGS, LA ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/03/84
 PERMIT NO. PSD-LA-504 LAGD/EPA REGION VI BHARAT CONTRACTOR ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY (AGENCY) (AGENCY CONTACT PERSON) (504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, #1-82	99.50 MMSTU/H	NOX	15.3200 LB/H COMB. CONTRL W/O2 MONITOR	BACT
		VE	20.0000 % OPACITY COMB. CONTRL W/O2 MONITOR	BACT
BOILER, #2-82	99.50 MMSTU/H	NOX	17.5100 LB/H COMB. CONTRL W/O2 MONITOR	BACT
		VE	20.0000 % OPACITY COMB. CONTRL W/O2 MONITOR	BACT

NOTES -----
 BOTH BOILERS ARE FIRED WITH REFINERY FUEL GAS. BOTH BOILERS HAVE THE SAME RATED HEAT INPUT, HOWEVER, THE EMISSION RATES FOR NO X ARE DIFFERENT DUE TO DIFFERENT FIRE BOX CONFIGURATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: SOURCE TYPE CODE 5.5
 ID NUMBER LA-0027A
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 60000.00 BBL/D
 COMPANY NAME/SITE LOCATION DIAMOND SHAMROCK CORP.
 P.O. BOX 631 AMARILLO, TX 77173 MOORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. TX-346 DATE OF PERMIT ISSUANCE-- 09/04/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
 (AGENCY) JOHN BUNYAK (214)-767-1594
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS BOILER, 2	240.00 MMBTU/H	SO2	103.8700 LB/H	B/N
			SCRUB FUEL GAS & 0.7% S FUEL OIL	
		NOX	130.0000 LB/H	BACT
			LOW NOX BURNERS	
		CO	6.8100 LB/H	BACT
			EFFICIENT COMBUSTION	
		PM	10.0600 LB/H	BACT
			SCRUB FUEL GAS & 0.7% FUEL OIL	
FCCU REGEN STACK, 2	45000.00 BBL/D	SO2	931.5000 LB/H	BACT
			NONE	
		NOX	24.4000 LB/H	BACT
			HIGH TEMP REGENERATION	
		CO	195.0000 LB/H	BACT
			HIGH TEMP REGENERATION	
		PM	22.7000 LB/H	BACT
			ESP	98.80

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1985

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION EXXON CHEMICAL AMERICAS

BAYTOWN, TX 77520

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-302
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

TOM DIGGS
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/30/81
 ESTIMATED DATE OF START-UP-- 1984
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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HEATERS, NAT. GAS-FIRED, 3 EA	275.00 MMBTU/H	NOX	0.2300 LB/MMBTU CONTROL OF EXCESS OXYGEN	BACT
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NOTES

EPA ORIGINALLY SPECIFIED 0.12 LB/MMBTU AS BACT, BUT EXXON PROVIDED INFORMATION ON THE HEATER DESIGN AND TEST DATA ON SIMILIAR HEATERS TO JUSTIFY THE NEED FOR 0.23 LB/MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION EXXON CO. USA BENICIA, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27599

DETERMINATION MADE BY

BAY AREA AQMD
(AGENCY)

LEONARD CLAYTON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/10/80
ESTIMATED DATE OF START-UP-- 1982
(415)-771-6000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

FURNACE, REFINERY PROCESS

165.00 MMBTU/H

NOX

40.0000 PPM AT 3% O2
207.0000 LB/D

LOW NOX BURNERS & THERMAL DE-NOX

70.00

NOTES

DEMONSTRATED TECHNOLOGY. FILE A 310-010

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1934

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ID NUMBER CA-0057

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION FRIENDSWOOD REFIN.
CHOATE ROAD HOUSTON, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-387
DETERMINATION MADE BY EPA REGION VI
(AGENCY) JOHN BUNYAK
(AGENCY CONTACT PERSON) (214)-767-1594
(PHONE)

DATE OF PERMIT ISSUANCE-- 06/30/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

HEATERS, 4 75.00 MMSTU/H

PM 0.0042 LB/MMBTU GAS FIRED BACT

SO2 0.0224 LB/MMBTU NSPS

NOX 0.1000 LB/MMBTU REFINERY GAS FIRED BACT

CO 0.0142 LB/MMBTU LOW NOX BURNERS BACT

EFFICIENT COMBUSTION

BOILER 40.00 MMSTU/H

PM 0.00+2 LB/MMBTU GAS FIRED BACT

SO2 0.0214 LB/MMBTU NSPS

NOX 0.1000 LB/MMBTU REFINERY GAS FIRED BACT

CO 0.0142 LB/MMBTU LOW NOX BURNERS BACT

EFFICIENT COMBUSTION

SULFUR RECOVERY UNIT

SO2 9.1500 LB/H BACT

FCCU REGENERATOR

PM 24.0000 LB/H 99.00 BACT

ESP (0.85 LB/MLB OF COKE)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0022

SOURCE TYPE CODE 5.5

(CONTINUED) FRIENDSWOOD REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO BOILER COMPLEX				
		SO2	48.0000 LB/H	NSPS
			SULFUR REDUCTION CAT.	75.00
		NOX	103.5000 LB/H	BACT
			NO CONTROL	
		CO	175.5000 LB/H	NSPS
			CO BOILER (500 PPM)	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0002 SOURCE TYPE CODE 5.5

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05/21/1985

SOURCE	TYPE/SIZE	PETROLEUM REFINING - AUXILIARY
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
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45	45	45
46	46	46
47	47	47
48	48	48
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73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

350.00 MMBTU/H

COMPANY NAME/SITE LOCATION	GETTY OIL CO.
	ROUTE 1, BOX 197-X

BAKERSFIELD, CA 93308

DETERMINATION IS BACK FOR A MODIFIED SOURCE.
 PERMIT NO. SJ-81-11
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)

JOE SLAMOVICH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/24/92
ESTIMATED DATE OF START-UP--
(415)-974-8235

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS

... & BASIS
... PCT EFF

STEAM GENERATOR, 7

240.00 BBL/D

XON

0.1500 LB/MMBTU PER GEN.
AMMONIA INJECTION

63.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0030

SOURCE TYPE CODE **5.5**

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

350000.00 BPSD

GOOD HOPE REFIN., INC.
P.O. BOX 126, 257 PROSPECT AV*

600D HOPE, LA 70079

ST. CHARLES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 05/08/81

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

EPA REGION VI

(AGENCY)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STRIPPER REBOILER

26.00 MMBTU/H

PM

0.3000 LB/H

0.0110 LB/MMBTU

GASEOUS FUEL

BACT

SO2

0.5000 LB/H

0.0190 LB/MMBTU

0.10 GRH2S/DSCF

NSPS

NOX

3.1000 LB/H

0.1200 LB/MMBTU

LOW NOX BURNERS, LEA FIRING

BACT

CO

0.4000 LB/H

0.0140 LB/MMBTU

COMBUSTION CONTROL

BACT

REFORMER STABILIZER

26.00 MMBTU/H

PM

0.3000 LB/H

0.0110 LB/MMBTU

GASEOUS FUEL

BACT

SO2

0.5000 LB/H

0.0190 LB/MMBTU

0.10 GRH2S/DSCF

NSPS

NOX

3.1000 LB/H

0.1200 LB/MMBTU

LOW NOX BURNERS, LEA FIRING

BACT

CO

0.4000 LB/H

0.0140 LB/MMBTU

COMBUSTION CONTROL

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0032

SOURCE TYPE CODE 5.5

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRUDE HEATER	317.00 MMBTU/H	PM	3.4000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	6.1000 LB/H 0.0190 LB/MMBTU	NSPS
		NOX	0.10 GRH2S/DSCF 39.0000 LB/H 0.1200 LB/MMBTU	BACT
		CO	LOW NOX BURNERS, LEA FIRING 4.5000 LB/H 0.0140 LB/MMBTU	BACT
FCCU FURNACE	45.00 MMBTU/H		COMBUSTION CONTROL	
		PM	0.5000 LB/H 0.0110 LB/MMBTU	BACT
		SO2	GASEOUS FUEL 0.9000 LB/H 0.0190 LB/MMBTU	NSPS
		NOX	0.10 GRH2S/DSCF 5.4000 LB/H 0.1200 LB/MMBTU	BACT
		CO	LOW NOX BURNERS, LEA FIRING 0.6000 LB/H 0.0140 LB/MMBTU	BACT
FCCU FURNACE	39.00 MMBTU/H		COMBUSTION CONTROL	
		PM	0.4000 LB/H 0.0110 LB/MMBTU	BACT
		SO2	GASEOUS FUEL 0.7000 LB/H 0.0190 LB/MMBTU	NSPS
		NOX	0.10 GRH2S/DSCF 4.7000 LB/H 0.1200 LB/MMBTU	BACT
		CO	LOW NOX BURNERS, LEA FIRING 0.6000 LB/H 0.0140 LB/MMBTU	BACT
VACUUM COLUMN FURNACE	244.00 MMBTU/H		COMBUSTION CONTROL	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAME PROCESS (CONTINUED)

		PM	2.6000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	4.7000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	29.3000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	3.5000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT

DEMEX HEATER

25.00 MMBTU/H

		PM	0.3000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	3.0000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT

WISEBREAKING FURNACE, 3 EA

40.00 MMBTU/H

		PM	0.4000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.8000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	4.8000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT

FCCU REGENERATOR

82000.00 BBL/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
	REVIEW STATUS: 04/01/1993	
PAGE G- 423	ID NUMBER LA-0032	SOURCE TYPE CODE 5.5

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		PM	64.9000 LB/H THIRD-STAGE CYCLONE SEPARATOR	NSPS 95.00
		SO2	761.7000 LB/H	BACT
		NOX	242.6000 LB/H SULFUR REDUCTION CATALYST	BACT
		CO	138.6000 LB/H LEA FIRING COMBUSTION CONTROL	NSPS
SULFUR PLANT INCIN.		SO2	12.8000 LB/H TAIL-GAS TREATMENT (SCOT)	NSPS 98.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER LA-0032
SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
20 M SE BEAUMONT H 73

PORT ARTHUR, TX 77640

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-214
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/13/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4 EA	425.00 MMBTU/H	NOX	0.3000 LB/MMBTU	BACT
			AIR/FUEL RATIO	
		SO2	0.5800 LB/MMBTU	NSPS
		CO	LOW SULFUR FUEL (.5 % S)	BACT
			0.0370 LB/MMBTU	
			EFFICIENT COMBUSTION	
		PM	0.0580 LB/MMBTU	BACT
			EFFICIENT COMBUSTION	
		SO2	70.4000 LB/H	NSPS
			DESULFURIZED FUEL	

TREATING UNIT, SCOT TAIL GAS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO. PORT AURTHUR, TX 77640 JEFFERSON COUNTY
P.O. BOX 701

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/21/80
PERMIT NO. TX-342 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SOLVENT EXTRACTION UNIT #1643	122.30 MMBTU/H	SO2	2.0000 LB/H 0.0200 LB/MMBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	14.6700 LB/H 0.1200 LB/MMBTU LEA CONTROLS, LNB	BACT
LUBE VACUUM UNIT #147	124.30 MMBTU/H	SO2	72.3000 LB/H 0.6000 LB/MMBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	37.3000 LB/H 0.3000 LB/MMBTU LEA CONTROLS, LNB	BACT
GULFINING UNIT #243	66.70 MMBTU/H	SO2	38.3000 LB/MMBTU 0.6000 LB/H NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	20.0000 LB/H 0.3000 LB/MMBTU LEA CONTROLS, LNB	BACT
CATALYTIC DEWAXING UNIT #1944	20.00 MMBTU/H	SO2	11.6000 LB/H 0.6000 LB/MMBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER TX-0062 SOURCE TYPE CODE 5.5
PAGE 6- 426

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
SULFUR RECOVERY UNIT #544	15.70 MMBTU/H	NOX	6.0000 LB/H 0.3000 LB/MMBTU LEA CONTROLS, TRACE H2S	BACT
		SO2	45.0000 LB/H NAT. GAS FIRED	NSPS 99.90 BACT
		NOX	1.9000 LB/H LEA CONTROLS, LNB	
		SO2	3.0000 LB/H 0.0300 LB/MMBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
SOLVENT DEWAXING UNIT	100.10 MMBTU/H	NOX	67.4000 LB/H 0.6700 LB/MMBTU NONE	BACT
		SO2	1.1000 LB/H 0.0300 LB/MMBTU REFIN. GAS/NAT. GAS, TRACE H2S	NSPS
SOLVENT DEWAXING UNIT #1943	35.60 MMBTU/H	NOX	23.9000 LB/H 0.6700 LB/MMBTU NONE	BACT
		SO2	34.9000 LB/H 0.6000 LB/MMBTU 0.5% S IN OIL	NSPS
GULFINING UNIT #244	60.00 MMBTU/H	NOX	18.0000 LB/H 0.3000 LB/MMBTU LEA CONTROL, LNB	BACT
		SO2	3.5000 LB/H 0.0200 LB/MMBTU TRACE H2S	NSPS
DELAYED COKING UNIT	116.00 MMBTU/H	NOX	13.9000 LB/H 0.1200 LB/MMBTU LEA FIRING, LNB	BACT
		SO2		

NOTES -----

SOLVENT DEWAXING UNIT #1943: CHANGE FUEL TYPE FROM REFINERY GAS ONLY TO REFINERY GAS/NATURAL GAS. LNB -- LOW NOX BURNERS. TRAC
E H2S -- <0.10 GR H2S/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HAWAIIAN INDEPEN. REFIN.

EWA BEACH, HI

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) HI 81-01

DETERMINATION MADE BY EPA REGION IX

(AGENCY)

DENNIS BEAUREGARD

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/18/81

ESTIMATED DATE OF START-UP--

(415)-974-8236

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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HEATER, CRUDE OIL, #4	110.00 MMBTU/H	NOX	0.4000 LB/MMBTU LOW NOX BURNERS	
-----------------------	----------------	-----	---------------------------------	--

		SO2	60.0000 LB/MMBTU 0.5% S #6 FUEL OIL	
--	--	-----	-------------------------------------	--

		PM	6.1000 LB/H 0.5% S #6 FUEL OIL	
--	--	----	--------------------------------	--

REFORMER FURNACE, H2 GEN. PLANT	125.00 MMBTU/H	NOX	0.1700 LB/MMBTU LOW NOX BURNERS	
---------------------------------	----------------	-----	---------------------------------	--

		SO2	2.4000 LB/H BURN REF GAS - 0.1 GR H2S/DSCF	
--	--	-----	--	--

		PM	1.4000 LB/H NONE	
--	--	----	------------------	--

NOTES

BACT IS DETERMINED BY TECHNOLOGY AND ECONOMICS. FACILITY EXPANSION FROM 95000 BBL/DAY TO 125000 BBL/DAY BY INSTALLATION OF A H EATER AND HYDROGENATION PLANT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER HI-0001

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 2.00 MMSCFD

COMPANY NAME/SITE LOCATION HIGH PRAIRIE ENERGY CO.

NEAR CUT BANK, MT

TOOELE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VIII (AGENCY)

JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/05/80
ESTIMATED DATE OF START-UP--
(303)-837-3763
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY 2.00 MMSCFD

POLLUTANT EMITTED

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

INCINERATOR

SO2 65.0000 LB/H
INCINERATION

BACT 0.00

NOTES -----
4 YEAR PERMIT LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MT-0001

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

66550.00 BPSD

PETROLEUM REFINING - AUXILIARY

SOURCE TYPE/SIZE

HILL PETROLEUM
KROTZ SPRINGS TERMIN

KROTZ SPRINGS, LA 70750

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/10/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER	146.00 MMBTU/H	VOC	0.0020 LB/MMBTU EFFICIENT COMBUSTION	BACT
HEATER	31.00 MMBTU/H	VOC	0.0020 LB/MMBTU EFFICIENT COMBUSTION	BACT
TANKS, 11 EA	80000.00 BBL	VOC	2.4200 LB/H DOUBLE SEALS	BACT
TANKS, 4 EA	100000.00 BBL	VOC	2.5800 LB/H DOUBLE SEALS	BACT
TANKS, 2 EA	150000.00 BBL	VOC	7.3200 LB/H DOUBLE SEALS	BACT
LOADING DOCK WASTEWATER		VOC	3.8200 LB/H MAINTENANCE PROGRAM	BACT
SEPARATOR		VOC	0.3100 LB/H MAINTENANCE PROGRAM	BACT
PUMP SEALS		VOC	0.6500 LB/H MAINTENANCE PROGRAM	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0027

SOURCE TYPE CODE 5.5

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(CONTINUED) HILL PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VALVES & FLANGES		VOC	7.7200 LB/H MAINTENANCE PROGRAM	BACT
RELIEF VALVES		VOC	1.2000 LB/H MAINTENANCE PROGRAM	BACT
COMPRESSOR SEALS		VOC	0.1900 LB/H MAINTENANCE PROGRAM	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HYDROCARBON RECYCLERS, INC. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. T81-15 & T82-101

DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT JIM VAN SANDT
(AGENCY) (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982
(918)-744-1000
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

ATMOS. & VACUUM DISTIL. USED OI* 500000.00 GAL/YR

VOC 13.0000 T/YR

INCIN. IN OIL PREHEAT FURNACE

98.00

DISTIL. OF CHLORINATED HC 150000.00 GAL/YR

VOC

CLOSED SYS-DISTIL. UNIT & TANKAGE-2"H2O PRV

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER OK-0014

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

COMPANY NAME/SITE LOCATION INDEPENDENT REFIN.

MINNIE, TX

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-388
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 09/11/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

TOM DIGGS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY
 96.50 MMBTU/H

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

HEATERS, 6

NOX 0.1100 LB/MMBTU
 LOW NOX BURNERS

NSPS

REBOILER

NOX 0.1100 LB/MMBTU
 LOW NOX BURNERS

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0021

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

404.00 LT/D

COMPANY NAME/SITE LOCATION KOCH REFINING CO.

ROSEMOUNT, MN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 106-81-1-19

MINNESOTA PCA

(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/18/81
ESTIMATED DATE OF START-UP-- 1982

(612)-298-7718

(PHONE)

ARTO NIEMIOJA

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CLAUS SULFUR RECOVERY UNIT #3 170.00 LT/D

SO2

250.0000 PPM

TAIL GAS SCRUBBER

NSPS
99.85

NOTES

THE EMISSION LIMIT IS BASED ON NSPS AVERAGING TIMES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/19/1984

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ID NUMBER MN-0008

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 404.00 LT/D

COMPANY NAME/SITE LOCATION KOCH REFINING CO.

ROSEMOUNT, MN

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 106A-83-I-23
DETERMINATION MADE BY MINNESOTA PCA
(AGENCY)

DATE OF PERMIT ISSUANCE-- 01/25/83
ESTIMATED DATE OF START-UP-- 1983
(612)-296-7718
(PHONE)

AHTO NIEMIOJA
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CLAUS SULFUR RECOVERY UNIT #4 234.00 LT/D

SO2 150.0000 PPM

TAIL GAS SCRUBBER

99.85

NOTES

THE EMISSION LIMIT IS BASED ON NSPS AVERAGING TIMES. A CONTINUOUS EMISSION MONITORING SYSTEM WILL BE USED TO VERIFY COMPLIANCE
OF COMBINED SRU 3 & 4 GASES AS A 30 D ROLLING AVERAGE AT 200 PPM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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ID NUMBER MN-0008A

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BPSD
 COMPANY NAME/SITE LOCATION LONGVIEW REFIN. 5 KM SW POST OFFICE
 LONGVIEW, TX GREGG COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-TX-364
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY) JOHN BUNYAK
 (AGENCY CONTACT PERSON) (214)-767-1594
 (PHONE) DATE OF PERMIT ISSUANCE-- 05/08/81
 ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF.
FCC REGENERATOR	15000.00 BBL/D	PM	10.6000 LB/H	ESP	BACT
		SO2	190.3000 LB/H	S REDUCTION CATALYST	NSPS 75.00 BACT
		NOX	32.7000 LB/H	NONE	BACT
		CO	79.5000 LB/H	HIGH TEMP REGENERATION	BACT
TURBINE, 3	6275.00 HP	PM	0.0700 G/HP-H	REF. FUEL GAS	BACT
		SO2	0.1200 G/HP-H	REF. FUEL GAS	BACT
		NOX	1.3000 G/HP-H	REF. FUEL GAS	BACT
		CO	0.4900 G/HP-H	EFFICIENT COMBUSTION	NSPS
HEATERS, 25	80.60 MMBTU/H	PM	0.0100 LB/MMBTU	FUEL GAS/LOW S OIL	BACT
		SO2	0.0270 LB/MMBTU	FUEL GAS/LOW S OIL	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0029
 SOURCE TYPE CODE 5.5
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(CONTINUED) LONGVIEW REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILERS, 2	74.00 MMBTU/H	CO	0.0200 LB/MMBTU EFFICIENT COMBUSTION	BACT
		PM	0.0100 LB/MMBTU FUEL GAS	BACT
		SO2	0.0270 LB/MMBTU FUEL GAS	BACT
		NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		CO	0.0200 LB/MMBTU EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT	40.00 T/D	SO2	3 STAGE CLAUS PLANT	NSPS 99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW	POST STARTUP
REVIEW STATUS: 04/01/1983	
ID NUMBER TX-0029	SOURCE TYPE CODE 5.F

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

MAPCO PETROLEUM REFINERY EXPANSION NORTH POLE, AK

DETERMINATION IS BACT PERMIT NO. 8431-AA010 DETERMINATION MADE BY ALASKA DEC (AGENCY) DAVE ESTES (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 02/19/85 ESTIMATED DATE OF START-UP-- 1985 (907)465-2666 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS	150.00 MMBTU/H	SO2	150.0000 PPM	BACT
		NOX	0.0800 LB/MMBTU, GAS	BACT
			0.1500 LB/MMBTU, OIL	
		H2S	0.1000 GR/DSCF IN FUEL GAS	BACT
		VE	10.0000 % OPACITY	

NOTES

SO2 CONTROL ALSO INCLUDES NETTING OF EXISTING EMISSIONS, SO THE TOTAL CONTROL LEVEL CONSIDERED BACT IS EQUAL TO FUEL CONTENT OF 0.07% SULFUR IN LIQUID.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: ID NUMBER AK-0011 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

ROBINSON, IL

CRANFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. C 80C5034

DETERMINATION MADE BY ILLINOIS EPA

(AGENCY)

CHRIS ROMAINE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/01/80

ESTIMATED DATE OF START-UP-- 1982

(217)-762-2113

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

HEATERS

250.00 MMBTU/H MAX

S02 1.0000 LB/MMBTU H2S FUEL LIM :0.10 GR/DSCF

NOX 0.3000 LB/MMBTU

PM 0.1000 LB/MMBTU LOW NOX BURNERS

HEATER

250.00 MMBTU/H MAX

S02 0.8000 LB/MMBTU

NOX 0.3000 LB/MMBTU

PM 0.1000 LB/MMBTU LOW NOX BURNERS

NOTES -----

S02 EMISSION LIMIT TO BE MET WITH REFINERY GAS, RESID. OIL, OR ANY COMBINATION. H2S IN FUEL GAS LIMITED TO 0.1 GR/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER IL-0007

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.
P.O. BOX 1191

TEXAS CITY, TX 77590

GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-241
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE	175.00 MMBTU/H	NOX	36.7400 LB/H NAT GAS 0.2200 LB/MMBTU NAT GAS LOW NOX BURN./LEA FIRING	BACT
		SO2	4.3000 LB/H NAT GAS 0.0260 LB/MMBTU NAT GAS <0.1 GR H2S/DSCF	NSPS
		NOX	52.5000 LB/H FUEL OIL 0.3000 LB/MMBTU FUEL OIL LOW NOX BURN./LEA FIRING	BACT
		SO2	115.8000 LB/H FUEL OIL 0.6600 LB/MMBTU FUEL OIL 0.6% S FUEL OIL	NSPS

NOTES -----
REPLACES AN EXISTING CRUDE HEATER FIRING REFINERY GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

70000.00 BBL/D

COMPANY NAME/SITE LOCATION NATIONAL COOP. REFIN. ASSOC.

MCPHERSON, KS

MCPHERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 07/17/81

PERMIT NO.

ESTIMATED DATE OF START-UP--

DETERMINATION MADE BY EPA REGION VII
(AGENCY)

DANIEL PUDRIGUEZ
(AGENCY CONTACT PERSON)

(816)-374-6525
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATER, UNIT HF-009	64.00 MMBTU/H	NOX	0.1500 LB/MMBTU MAX LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HF-010	64.00 MMBTU/H	NOX	0.1500 LB/MMBTU MAX LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HP-012	32.90 MMBTU/H	NOX	0.1500 LB/MMBTU MAX LOW EXCESS AIR	BACT

NOTES -----

REFINERY BEING MODIFIED TO ALLOW PROCESSING OF HIGH SULFUR CRUDES (SCC PROJECT). CAPACITY TO BE INCREASED FROM 57000 TO 70000 BBL/D. SOURCE SIZE IS REFINERY CAPACITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 35.00 MBPSD

COMPANY NAME/SITE LOCATION NEDERLAND PROCESSING CO. P.O. BOX 1567 NEDERLAND, TX 77627 JEFFERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. PERMIT NO. TX-262 DATE OF PERMIT ISSUANCE-- 10/31/80
 DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK ESTIMATED DATE OF START-UP-- (214)-767-1594
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM UNIT FURNACE	150.00 MMBTU/H	PM	7.9000 LB/H OIL 0.0530 LB/MMBTU OIL	LIQUID OR GASEOUS FUEL	BACT
		SO2	70.0000 LB/H OIL 0.4670 LB/MMBTU OIL		BACT
		NOX	45.0000 LB/H OIL 0.3000 LB/MMBTU OIL	0.42% S OIL	BACT
		CO	5.5000 LB/H OIL 0.0370 LB/MMBTU OIL	LEA FIRING	BACT
		VOC	1.1000 LB/H OIL 0.0070 LB/MMBTU OIL	COMBUSTION CONTROLS	LAER
		PM	2.0000 LB/H GAS 0.0130 LB/MMBTU GAS		EACT
		SO2	3.5000 LB/H GAS 0.0230 LB/MMBTU GAS	LIQUID OR GASEOUS FUEL	HSPS
		NOX	18.0000 LB/H GAS 0.1200 LB/MMBTU GAS	0.1% GR H2S/DSCF	BACT
				LEA FIRING	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0060 SOURCE TYPE CODE 5.5

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
FCCU REGEN		CO	2.3000 LB/H GAS 0.0150 LB/MMBTU GAS COMBUSTION CONTROLS	BACT
		VOC	0.4000 LB/H GAS 0.0070 LB/MMBTU GAS	BACT
		PM	8.4000 LB/H 1.0000 LB/MLB COKE ESP	NSPS
		SO2	42.7000 LB/H S REDUCTION CATALYST	95.00 BACT
		NOX	31.5000 LB/H LEA FIRING	75.00 BACT
		CO	73.5000 LB/H 500.0000 PPMV, LESS THAN COMBUSTION CONTROL	NSPS
		VOC	7.9000 LB/H	BACT
		PM	4.7000 LB/H OIL 0.0520 LB/MMBTU OIL LIQUID OR GASEOUS FUEL	BACT
		SO2	42.0000 LB/H OIL 0.4670 LB/MMBTU OIL 0.42% S OIL	BACT
		NOX	27.0000 LB/H OIL 0.3000 LB/MMBTU OIL LEA FIRING	BACT
ISOSTRIPPER REBOILER	90.00 MMBTU/H	CO	3.3000 LB/H OIL 0.0370 LB/MMBTU OIL COMBUSTION CONTROLS	BACT
		VOC	0.7000 LB/H OIL 0.0080 LB/MMBTU OIL	BACT
		PM	1.2000 LB/H GAS 0.0130 LB/MMBTU GAS LIQUID OR GASEOUS FUEL	BACT
		SO2	2.1000 LB/H GAS 0.0230 LB/MMBTU GAS 0.1% GR H2S/DSCF	NSPS
		NOX	10.8000 LB/H GAS 0.1200 LB/MMBTU GAS LEA FIRING	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1933

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
SULFUR PLANT	2.70 MMBTU/H GAS	CO	1.4000 LB/H GAS 0.0160 LB/MMBTU GAS COMBUSTION CONTROLS	BACT
		VOC	0.2000 LB/H GAS 0.0080 LB/MMBTU GAS	BACT
		SO2	2.2000 LB/H SCOT TAIL GAS TREAT.	BACT 95.00 BACT
		NOX	0.3000 LB/H 0.1200 LB/MMBTU NONE	
FLARE		PM	TRACE SMOKELESS OPERATION	BACT
		SO2	NEGLECTIBLE	BACT
		NOX	NONE TRACE SMOKELESS/STEAM INJECTION	BACT
		CO	TRACE SMOKELESS OPERATION	BACT
BOILER	170.00 MMBTU/H OIL	PM	8.9000 LB/H OIL 0.0520 LB/MMBTU OIL LIQUID OR GASEOUS FUEL	BACT
		SO2	79.3000 LB/H OIL 0.4670 LB/MMBTU OIL 0.42% S FUEL	BACT
		NOX	51.0000 LB/H OIL 0.3000 LB/MMBTU OIL LEA FIRING	BACT
		CO	6.2000 LB/H OIL 0.0360 LB/MMBTU OIL COMBUSTION CONTROLS	BACT
		VOC	1.2000 LB/H OIL 0.0070 LB/MMBTU OIL	BACT
		PM	2.3000 LB/H GAS 0.0140 LB/MMBTU GAS LIQUID OR GASEOUS FUEL	BACT
		SO2	4.2000 LB/H GAS 0.0250 LB/MMBTU GAS 0.1% GR H2S/DSCF	BACT

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		NOX	20.4000 LB/H GAS 0.1200 LB/MMBTU GAS	BACT
		CO	COMBUSTION CONTROLS 2.6000 LB/H GAS 0.0150 LB/MMBTU GAS	BACT
		VOC	COMBUSTION CONTROL 0.5000 LB/H GAS 0.0070 LB/MMBTU GAS	BACT
VALVES -- GAS VAPOR, 396		VOC	2.1000 LB/H	BACT
VALVES -- LIGHT LIQUID, 268		VOC	0.9000 LB/H	BACT
VALVES -- HEAVY LIQUID, 357		VOC	0.2000 LB/H	BACT
FLANGES, 3650		VOC	2.1000 LB/H	BACT
OIL/WATER SEP		VOC	3.6000 LB/H	BACT
PUMPS -- LIGHT LIQUID, 58		VOC	2.0000 LB/H	BACT
PUMPS -- HEAVY LIQUID, 7		VOC	0.3000 LB/H	BACT
COOLING TOWER		VOC	3.6000 LB/H	BACT
STORAGE TANKS, 6	55.00 MBL EA	VOC	7.8000 LB/H TOTAL EXTERNAL FLOATING ROOFS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1903

ID NUMBER TX-0060

SOURCE TYPE CODE 5.5

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION PETRACO VALLEY OIL & REFINING CO.
1201 DAIRY ASHFORD, SUITE 150

HOUSTON, TX

CAMERON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. TX-236

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/15/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY 427.00 MMBTU/H

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

HEATER, CRUDE CHARGE

BACT

3.2000 LB/H
0.0070 LB/MMBTU

GAS FIRED, F.G. O2 CONTROL

NSPS

6.8000 LB/H
0.0100 LB/MMBTU

LCW S GAS (0.1 GR H2S/DSCF)

BACT

51.3000 LB/H
0.1200 LB/MMBTU

LEA FIRING, F.G. O2 CONTRL

BACT

0.8000 LB/H
0.0020 LB/MMBTU

F.G. O2 CONTROL

BACT

4.6000 LB/H
0.0100 LB/MMBTU

F.G. O2 CONTROL

HEATER, VACUUM CHARGE 219.00 MMBTU/H

BACT

1.7000 LB/H
0.0070 LB/MMBTU

GAS FIRED, F.G. O2 CONTRL.

NSPS

3.5000 LB/H
0.0200 LB/MMBTU

LCW S GAS (0.1 GR H2S/DSCF)

BACT

26.2000 LB/H
0.1200 LB/MMBTU

LEA FIRING, F.G. O2 CONTRL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1985

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ID NUMBER TX-0073

SOURCE TYPE CODE 5.5

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
COKER HEATER	401.00 MMBTU/H	VOC	0.4000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	2.3000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		PM	3.0000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	6.7000 LB/H 0.0200 LB/MMBTU	BACT
		NOX	48.1000 LB/H 0.1200 LB/MMBTU LOW S GAS, (0.1 GR H2S/DSCF)	BACT
		VOC	0.9000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	4.7000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		PM	16.7000 LB/H 1.0000 LB/MLB COKE ESP	NSPS
		SO2	116.9000 LB/H S REDUCTION CATALYST	75.00 BACT
		NOX	39.3000 LB/H LEA FIRING, F.G. 02 CONTROL	85.00 BACT
FCCU REGENERATOR	24.90 MMBL/D	VOC	12.7000 LB/H F.G. 02 CONTROL	BACT
		CO	61.2000 LB/H 0.0500 % SY VOL. F.G. 02 CONTROL	NSPS
		PM	1.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	116.9000 LB/H S REDUCTION CATALYST	75.00 BACT
		NOX	39.3000 LB/H LEA FIRING, F.G. 02 CONTROL	85.00 BACT
		VOC	12.7000 LB/H F.G. 02 CONTROL	BACT
		CO	61.2000 LB/H 0.0500 % SY VOL. F.G. 02 CONTROL	NSPS
		PM	1.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	116.9000 LB/H S REDUCTION CATALYST	75.00 BACT
		NOX	39.3000 LB/H LEA FIRING, F.G. 02 CONTROL	85.00 BACT
HEATER, HYDROHEATER FEED	147.00 MMBTU/H	VOC	12.7000 LB/H F.G. 02 CONTROL	BACT
		CO	61.2000 LB/H 0.0500 % SY VOL. F.G. 02 CONTROL	NSPS
		PM	1.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	116.9000 LB/H S REDUCTION CATALYST	75.00 BACT
		NOX	39.3000 LB/H LEA FIRING, F.G. 02 CONTROL	85.00 BACT
		VOC	12.7000 LB/H F.G. 02 CONTROL	BACT
		CO	61.2000 LB/H 0.0500 % SY VOL. F.G. 02 CONTROL	NSPS
		PM	1.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	116.9000 LB/H S REDUCTION CATALYST	75.00 BACT
		NOX	39.3000 LB/H LEA FIRING, F.G. 02 CONTROL	85.00 BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		SO2	2.6000 LB/H 0.0200 LB/MMBTU LOW S GAS (0.1 GR H2S/DSCF)	NSPS
		NOX	17.6000 LB/H 0.1200 LB/MMBTU	BACT
		VOC	0.3000 LB/H 0.0020 LB/MMBTU LEA FIRING, F.G. 02 CONTROL	BACT
		CO	1.7000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
HEATER, HYDROCRACKER	352.00 MMBTU/H	PM	2.7000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	6.1000 LB/H 0.0200 LB/MMBTU	NSPS
		NOX	42.3000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.8000 LB/H 0.0020 LB/MMBTU	BACT
		CO	4.1000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
REGENERATOR, PLATFORMER CAT.		PM	TRACE NONE	BACT
		SO2	0.1000 LB/H NONE	BACT
		NOX	TRACE NONE	BACT
		VOC	TRACE NONE	BACT
		CO	TRACE NONE	BACT

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORM FEED	932.00 MMBTU/H			
		PM	53.2000 LB/H 0.0070 LB/MMBTU OIL FIRED, F.G. 02 CONTRL	BACT
		SO2	570.9000 LB/H 0.0200 LB/MMBTU LOW S GAS, 0.7% S/LB	BACT
		NOX	321.9000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	5.3000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	26.8000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROLS	BACT
HEATER, PENEX ISOMER FEED	15.00 MMBTU/H			
		PM	0.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTROL	BACT
		SO2	0.3000 LB/H 0.0200 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	1.7000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	TRACE F.G. 02 CONTROL	BACT
		CO	0.2000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
INCIN., SULFUR PLANT	43.00 MMBTU/H			
		PM	0.4000 LB/H 0.0080 LB/MMBTU NONE	BACT
		SO2	26.0000 LB/H 0.0200 % BY VOL. SULFUR PLANT, SULFUR RECOVERY	NSPS
		NOX	67.4000 LB/H 1.4000 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	99.90 BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF

SAME PROCESS (CONTINUED)				
HEATER, HF ALK ISOSTRIPPER REBO*	233.00 MMBTU/H	VOC	0.1000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	0.4000 LB/H 0.0080 LB/MMBTU F.G. 02 CONTROL	BACT
		PM	1.7000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	4.0000 LB/H 0.0200 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	28.0000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.5000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROLS	BACT
		CO	2.7000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		PM	0.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTROL	BACT
		SO2	0.2000 LB/H 0.0200 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	BACT
		NOX	1.4000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
HEATER, BUTANER ISOMER	12.00 MMBTU/H	VOC	TRACE F.G. 02 CONTROL	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		SO2	112.1000 LB/H NONE	BACT
		PM	0.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTROL	BACT
		NOX	1.4000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	TRACE F.G. 02 CONTROL	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		SO2	112.1000 LB/H NONE	BACT
		PM	0.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTROL	BACT
		NOX	1.4000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
FLARE				

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILER	255.00 MMBTU/H	NOX	78.8000 LB/H STEAM INJECTION	BACT
		VOC	3.3000 LB/H STEAM INJECTION	BACT
		CO	17.8000 LB/H STEAM INJECTION	BACT
		PM	0.0050 LB/H STEAM INJECTION	BACT
		PM	1.9000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	3.4000 LB/H 0.0100 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	31.7000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.4000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTRL	BACT
		CO	2.3000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTRL	BACT
		PM	1.2000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
HEATER, OIL	163.00 MMBTU/H	SO2	2.8000 LB/H 0.0100 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	19.6000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.4000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTRL	BACT
		CO	1.9000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTRL	BACT
		PM	1.2000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	2.8000 LB/H 0.0100 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	19.6000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.4000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTRL	BACT
		CO	1.9000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTRL	BACT
		PM	1.2000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, SCOT UNIT FEED	5.00 MMBTU/H			
		PM	TRACE NONE	BACT
		SO2	0.1000 LB/H 0.0100 LB/MMBTU	BACT
		NOX	NONE 0.6000 LB/H 0.1200 LB/MMBTU	BACT
		VOC	TRACE NONE	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0073

SOURCE TYPE CODE 5.5

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(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATERS, 4	32.00 MMBTU/H	CO	0.0170 LB/MMBTU GAS	
			0.0340 LB/MMBTU OIL	
		PM	02 MONITORING	
			0.0100 LB/MMBTU GAS	
			0.0750 LB/MMBTU OIL	
		SO2	0.0320 LB/MMBTU	
			GAS AS FUEL	
		NOX	0.1360 LB/MMBTU	
			02 MONITORING	
		VOC	0.0036 LB/MMBTU	
			02 MONITORING	
		CO	0.0170 LB/MMBTU	
			02 MONITORING	
		PM	0.0100 LB/MMBTU	
			GAS AS FUEL	
CRUDE OIL TANKS, 3	200.00 MEBL	VOC	1.8300 T/YR EA	
			EPA EQUIV. STAND & MAINT. PROG	
FUGITIVE EMISSIONS		VOC	140.0000 T/YR	
			EPA EQUIV. STAND & MAINT. PROG	
CO BOILERS, 2	370.00 MMBTU/H	SO2	0.1000 LB/MMBTU	
		NOX	1.9000 LB/MMBTU	
			02 MONITORING	
		VOC	0.0014 LB/MMBTU	
			02 MONITORING	
		CO	0.0170 LB/MMBTU	
			02 MONITORING	
		PM	0.3100 LB/MMBTU	
			GAS AS FUEL	
I.C. COMPRESSOR	720.00 HP	SO2	0.1000 G/HP-H	
			GAS AS FUEL	
		NOX	10.9000 G/HP-H	
		VOC	4.4200 G/HP-H	
		CO	1.3900 G/HP-H	
		PM	0.0200 G/HP-H	
			GAS AS FUEL	

(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

NOTES -----
NATURAL GAS FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
	REVIEW STATUS: 04/01/1993	
PAGE G- 455	ID NUMBER TX-0052	SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10000.00 E3L/D

PETROLEUM REFINING - AUXILIARY

SOURCE TYPE/SIZE

BAKERSFIELD, CA

COMPANY NAME/SITE LOCATION PROCESS REFINERY CO.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. SJ-78-27

EPA REGION IX

(AGENCY)

MATT HABER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/19/79
ESTIMATED DATE OF START-UP--

(415)-974-8058

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

VACUUM HEATER

25.00 MMBTU/H

NOX

0.2700 LB/MMBTU

LOW NOX BURNERS

35.00

CRUDE HEATER

20.00 MMBTU/H

NOX

0.2700 LB/MMBTU

LOW NOX BURNERS

35.00

BOILER, 2 EA

4.31 MMBTU/H

NOX

0.2700 LB/MMBTU

LOW NOX BURNERS

35.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER CA-0013

SOURCE TYPE CODE 5.5

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 50.00 MBRSD

COMPANY NAME/SITE LOCATION PROVIDENT ENERGY CO.

MOBILE, AZ

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AZP79-02
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

JIM HANSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--
(415)-974-8038
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER & HEATER		NOX	0.4300 LB/MMBTU 2H AV LOW NOX BURNERS		
		SO2		FUEL LIM:H2S-.1GR/DSCF,S-.4%WT	
		H2S		SCOT TAIL GAS UNIT	
		PM	1.0000 LB/MLB COKE BURNED		
		CO	3 STAGE CATALYST SEP. & ESP		
		SO2	CO BOILER		
			FUEL LIM:H2S-.1GR/DSCF,S-.1%WT		

CLAUS SULFUR RECOVERY UNIT

FCC UNIT & CATALYST REGEN.

NOTES

BACT RESOLUTION: REFINERY FUEL OIL WILL BE FILTERED TO REDUCE PM. 1) FACILITY: 50000 BBL/STREAM DAY 2) LIMITS DETERMINED BY TE
CHNOLOGY AND NSPS CONSIDERATIONS. CONTROL OF HC EMISSIONS FROM FACILITY INCLUDE INSPECTION/MAINTENANCE PROCESS,
COVERED OIL/WATER SEPARATOR, VAPOR RECOVERY ON LIGHT GASOLINE TANKS, AND DOUBLE SEALED FLOATING ROOF TANKS ON OTHER GASOLINE T
ANKS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER AZ-0001

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 100.00 MBPSD

COMPANY NAME/SITE LOCATION SABER REFIN. 6550 UFRIVER ROAD CORPUS CHRISTI, TX NEUCES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. (REGION FILE NO.) PSD-TX-324 DATE OF PERMIT ISSUANCE-- 05/08/81 ESTIMATED DATE OF START-UP-- (214)-767-1594 DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 5	365.00 MBTU/H	PM	0.0100 LB/MMBTU REF. FIELD GAS	BACT
		SO2	0.0140 LB/MMBTU FIRE REFINERY FLUE GAS	NSPS
		NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU EFFICIENT COMBUSTION	BACT
FURNACES, 5	178.00 MBTU/H	PM	0.0100 LB/MMBTU REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU EFFICIENT COMBUSTION	BACT
REBOILERS, 2	159.00 MBTU/H	PM	0.0100 LB/MMBTU REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1983 ID NUMBER TX-0041 SOURCE TYPE CODE 5.5

(CONTINUED) SABER REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
REFORMERS, 2	356.00 MMBTU/h	CO	0.0160 LB/MMBTU EFFICIENT COMBUSTION	BACT
		PM	0.0100 LB/MMBTU REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU FIRE REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU EFFICIENT COMBUSTION	BACT
HEAVY OIL CRACKING UNIT	46500.00 BPSD	PM	5.6000 LB/H 3-STAGE CYCLONE	BACT
		SO2	178.0000 PPM FLUE GAS DESULFURIZATION	NSPS 98.20
		NOX	203.0000 LB/H NO CONTROLS AVAILABLE	BACT
		CO	178.0000 PPM WASTE HEAT BOILER	NSPS

NOTES -----

H2S CONTENT OF FLUE GAS WILL BE LIMITED TO 0.054 GRAINS/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-C041

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 67.00 MBPSD

COMPANY NAME/SITE LOCATION SIGMORE REFIN. CO. SAN ANTONIO, TX 78220 LIVE OAK COUNTY
P.O. BOX 20267

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 12/10/80
PERMIT NO. (REGION FILE NO.) PSD-TX-331 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) JOHN BUNYAK (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, #1 CRUDE	59.50 MMSTU/H	PM	2.7500 LB/H EFFICIENT COMBUSTION	BACT
		SO2	22.1800 LB/H 0.7% S FUEL OIL	BACT
		NOX	9.3400 LB/H EFFICIENT COMBUSTION	BACT
		CO	2.1300 LB/H EFFICIENT COMBUSTION	BACT
HEATER, LUBE CRUDE	10.80 MMSTU/H	PM	0.0600 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.2300 LB/H 0.7% S FUEL OIL	BACT
		NOX	2.4800 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.1800 LB/H EFFICIENT COMBUSTION	BACT
FCCU REGENERATOR	40.00 MBPSD	PM	12.0000 LB/H ESP	NSPS
		SO2	205.4200 LB/H HIGH TEMP REGEN.	90.00 BACT
		NOX	37.0100 LB/H HIGH TEMP REGEN.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER TX-0039 SOURCE TYPE CODE 5.5
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(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
SAME PROCESS (CONTINUED)				
REBOILER, ISOSTRIPPER	48.80 MMSTU/H	CO	90.1200 LB/H HIGH TEMP REGEN.	BACT
		PM	3.3100 LB/H EFFICIENT COMBUSTION	BACT
		SO2	38.6000 LB/H	BACT
		NOX	0.7% S FUEL OIL 32.8700 LB/H	BACT
		CO	EFFICIENT COMBUSTION 1.6500 LB/H	BACT
BOILER	167.80 MMSTU/H	PM	11.3600 LB/H EFFICIENT COMBUSTION	BACT
		SO2	132.7200 LB/H	BACT
		NOX	0.7% S FUEL OIL 113.0400 LB/H	BACT
		CO	EFFICIENT COMBUSTION 9.6800 LB/H	BACT
HEATER, VISSBREAKER CHARGE	40.00 MMSTU/H	PM	2.7100 LB/H EFFICIENT COMBUSTION	BACT
		SO2	31.6400 LB/H	BACT
		NOX	0.7% S FUEL OIL 26.9500 LB/H	BACT
		CO	EFFICIENT COMBUSTION 1.3500 LB/H	BACT
HEATER, VACUUM DISTALLATION	96.50 MMSTU/H	PM	1.6000 LB/H EFFICIENT COMBUSTION	BACT
		SO2	19.4900 LB/H	BACT
		NOX	.7% S FUEL, SCRUB TO .1 GR/DSCF 20.8000 LB/H	BACT
		CO	EFFICIENT COMBUSTION 2.5000 LB/H	BACT
HEATER, #2 CRUDE UNIT	18.10 MMSTU/H			

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		PM	0.2700 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.0100 LB/H 0.7% S FUEL OIL	BACT
		NOX	4.1600 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.3100 LB/H EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H	PM	2.7100 LB/H EFFICIENT COMBUSTION	BACT
		SO2	31.6400 LB/H 0.7% S FUEL OIL	BACT
		NOX	26.9500 LB/H EFFICIENT COMBUSTION	BACT
		CO	1.3500 LB/H EFFICIENT COMBUSTION	BACT
HEATER, CRUDE CHARGE	130.40 MMBTU/H	PM	8.8300 LB/H EFFICIENT COMBUSTION	BACT
		SO2	103.1400 LB/H 0.7% S FUEL OIL	BACT
		NOX	87.8400 LB/H EFFICIENT COMBUSTION	BACT
		CO	4.4200 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA STABILIZER	19.50 MMBTU/H	PM	1.3200 LB/H EFFICIENT COMBUSTION	BACT
		SO2	15.4200 LB/H 0.7% S FUEL OIL	BACT
		NOX	13.1400 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.6600 LB/H EFFICIENT COMBUSTION	BACT
HEATER, NAPHTHA HDS CHARGE	36.40 MMBTU/H	PM	0.1900 LB/H EFFICIENT COMBUSTION	BACT
		SO2	1.0000 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0039

SOURCE TYPE CODE 5.5

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
REBOILER, NAPHTHA SPLITTER	27.30 MMBTU/H	NOX	4.4600 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.6300 LB/H	BACT
			EFFICIENT COMBUSTION	
		PM	0.1400 LB/H	BACT
			EFFICIENT COMBUSTION	
		S02	0.7500 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.3400 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.4700 LB/H	BACT
			EFFICIENT COMBUSTION	
HEATER, 1ST REFORMER	59.50 MMBTU/H	PM	0.3100 LB/H	BACT
			EFFICIENT COMBUSTION	
		S02	1.6300 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	7.2900 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	1.0300 LB/H	BACT
			EFFICIENT COMBUSTION	
		PM	0.2700 LB/H	BACT
			EFFICIENT COMBUSTION	
		S02	1.4500 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	6.4700 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.9200 LB/H	BACT
			EFFICIENT COMBUSTION	
		PM	0.1400 LB/H	BACT
			EFFICIENT OPERATION	
		S02	0.7200 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.2300 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.4600 LB/H	BACT
			EFFICIENT COMBUSTION	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) SIGHORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
HEATER, 4TH REFORMER	13.20 MMBTU/H	PM	0.0700 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.3600 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6200 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.2300 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, REFORMER STABILIZER	16.40 MMBTU/H	PM	0.0800 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.4500 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	2.0100 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.2800 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, KEROSENE HDS STRIPPER	13.60 MMBTU/H	PM	0.0700 LB/H EFFICIENT OPERATION	BACT
		SO2	0.3700 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6700 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.2400 LB/H EFFICIENT COMBUSTION	BACT
HEATER, GAS OIL HDS CHARGE	97.80 MMBTU/H	PM	0.5000 LB/H EFFICIENT COMBUSTION	BACT
		SO2	2.6800 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	11.9800 LB/H EFFICIENT COMBUSTION	BACT
		CO	1.7000 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, DEETHANIZER	25.20 MMBTU/H	PM	0.1300 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.6900 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAME PROCESS (CONTINUED)

		NOX	3.0900 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.4400 LB/H EFFICIENT COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER TX-0039

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION SOHIO ALASKA PETROLEUM CORP.
ENDICOTT DEVELOPMENT NEAR PRUDHOE BAY, AK

DETERMINATION IS BACT
PERMIT NO. 8436-AA009
DETERMINATION MADE BY

ALASKA DEC
(AGENCY)

DAVE ESTES
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/25/84
ESTIMATED DATE OF START-UP-- 1986
(907)-465-2666
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS	1000.00 HP, NOTE #1	NOX	100.0000 PPM AT 15% O ₂ , DRY LO NOX BURNERS	BACT
TURBINE, GAS	1000.00 HP, NOTE #2	NOX	125.0000 PPM AT 15% O ₂ , DRY LO NOX BURNERS	BACT
TURBINE, GAS	127.00 MHP TOTAL	VE SO ₂ CO	10.0000 % OPACITY 25.0000 PPM IN FUEL GAS 109.0000 LB/MMSCF FUEL	BACT BACT BACT
PROCESS HEATER, SEE NOTE #3	5.00 MMBTU/H	NOX	0.0800 LB/MMBTU LO NOX BURNERS	BACT
PROCESS HEATER, SEE NOTE #2	5.00 MMBTU/H	NOX	0.1600 LB/MMBTU	BACT
PROCESS HEATER	202.00 MMBTU/H TOT*	CO VE SO ₂	0.0180 LB/MMBTU 10.0000 % OPACITY 25.0000 PPM IN FUEL GAS	BACT BACT BACT
I.C. ENGINES, STATIONARY	18.00 MHP TOTAL	NOX VE	12.0000 G/HP-H AT 15% O ₂ , DRY 10.0000 % OPACITY	BACT BACT
INCINERATOR	1500.00 LB/H SLUDGE	PM	0.1000 GR/DSCF AT 12% O ₂	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

(CONTINUED) SOHIO ALASKA PETROLEUM CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAHE PROCESS (CONTINUED)

VE	10.0000	% OPACITY		BACT
----	---------	-----------	--	------

NOTES -----

NOTE #1 - THOSE GREATER THAN. NOTE #2 - THOSE LESS THAN. NOTE #3 - THOSE GREATER THAN OR EQUAL TO.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER AK-0009

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 31500.00 BPSD

COMPANY NAME/SITE LOCATION SOUTHERN UNION REFIN. 5 MI SE LOVINGTON LOVINGTON, NM LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. NM-350 DATE OF PERMIT ISSUANCE-- 10/05/81
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594 ESTIMATED DATE OF START-UP--
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 13 EA	85.00 MMBTU/H	PM	0.0050 LB/MMBTU GAS	BACT
			FUEL GAS OR LOW SULFUR OIL	
		SO2	0.0270 LB/MMBTU	BACT
			FUEL OIL OR NATURAL GAS	
		NOX	0.1200 LB/MMBTU	BACT
			LOW NOX BURNERS	
SULFUR RECOVERY UNIT		SO2	0.8400 LB/H	BACT
			CLAUS UNIT	

NOTES -----
 13 HEATERS AND 1 SULFUR RECOVERY UNIT.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1984

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION STANDARD OIL LIMA, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 03-1138
 DETERMINATION MADE BY OHIO EPA NWD
 (AGENCY)

CHUCK HULL
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/08/82
 ESTIMATED DATE OF START-UP-- 1984
 (419)-352-8461
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER A	78.00 MMBTU/H	PM	0.0140 LB/MMBTU 2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU	
		NOX	0.1470 LB/MMBTU	
		CO	0.0150 LB/MMBTU	
HEATER B	164.00 MMBTU/H	PM	0.0140 LB/MMBTU 2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU	
		NOX	0.1470 LB/MMBTU	
		CO	0.0150 LB/MMBTU	
HEATER C	44.00 MMBTU/H	PM	0.0140 LB/MMBTU 2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU	
		NOX	0.1470 LB/MMBTU	
		CO	0.0150 LB/MMBTU	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

63.00 MMSTU/H

PETROLEUM REFINING - AUXILIARY

SOURCE TYPE/SIZE

MARCUS HOOK, PA

COMPANY NAME/SITE LOCATION SUNDOCO

DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 78PA10

DETERMINATION MADE BY EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/20/79

ESTIMATED DATE OF START-UP-- 1980

(215)-597-2711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

... & BASIS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

HEATER/BOILER

63.00 MMSTU/H

SO2

56.0000 LB/H

1% SULFUR FUEL OIL

BACT

NOX

23.0000 LB/H

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

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ID NUMBER PA-0001

SOURCE TYPE CODE

5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TENNECO

CHALMETTE, LA

ST. BERNARD PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 12/23/81

PERMIT NO. PSD-LA-199

ESTIMATED DATE OF START-UP-- 1984

DETERMINATION MADE BY EPA REGION VI (AGENCY)

TOM DIGGS (AGENCY CONTACT PERSON)

(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

POLLUTANT EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

HEATERS, 26

287.00 MMBTU/H

CO 0.0210 LB/MMBTU GAS
0.0300 LB/MMBTU OIL
O2 MONITORING

BACT

BOILERS, 13

160.00 MMBTU/H

CO 0.0210 LB/MMBTU GAS
0.0300 LB/MMBTU OIL
O2 MONITORING

BACT

CO BOILER

350.00 MMBTU/H

CO 0.0210 LB/MMBTU GAS
0.0300 LB/MMBTU OIL
O2 MONITORING

BACT

FLARES, 2

CO 1.6000 LB/H EA
NONE

BACT

SULFUR PLANT

6.60 MMBTU/H

CO 0.0380 LB/MMBTU
NONE

BACT

FCCU REGEN

42000.00 BPSD

CO 212.8000 LB/H
COMPLIANCE W/NSPS

NSPS

NOTES -----

26 HEATERS RANGING IN SIZE FROM 11 TO 287 MMBTU/HR. 13 BOILERS RANGING IN SIZE FROM 24 TO 160 MMBTU/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
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ID NUMBER LA-0022

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TESORO ALASKA PETROLEUM CO. NEAR KENAI, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 8323-AA002

DATE OF PERMIT ISSUANCE-- 06/15/84
ESTIMATED DATE OF START-UP-- 1985
(907)-465-2666
(PHONE)

DAVE ESTES
(AGENCY CONTACT PERSON)

ALASKA DEC
(AGENCY)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SULFUR REC. UNIT

14.00 LT/D

S02 250.0000 PPM, DRY
SRU

BACT

PROCESS HEATERS

VARIOUS SIZ*
NOX 0.0800 LB/MMBTU
LO NOX BURNERS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 100000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA

ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-420
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/16/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 15 EA	198.00 MMBTU/H	CO	0.0300 LB/MMBTU FLUE GAS O2 MONITOR LOW EXCESS AIR	BACT
ACID GAS INCIN.	8.00 MMBTU/H	CO	0.9300 LB/MMBTU LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT
ERG INCINERATOR	13.10 MMBTU/H	CO	0.0200 LB/MMBTU LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 140000.00 BPSD
 COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-378
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 JOHN BUNYAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/23/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MTU-CRU FLUE GAS COOLER	670.00 MMBTU/H	CO	0.0200 LB/MMBTU HIGH TEMP REGENERATION (HTR)	BACT
INCIN., 3 EA	13.10 MMBTU/H	CO	0.0200 LB/MMBTU HIGH TEMP REGENERATION (HTR)	BACT
POWER RECOVERY STACK		CO	LIMIT EMISSIONS TO 500 PPM	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER LA-0024
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 712

PORT ARTHUR, TX 77640

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-141

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/20/79
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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FCCU	170.00 MBDL/D			
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		SO2	406.3000 LB/H	NSPS
--	--	-----	---------------	------

			SOX REDUCTION CATALYST	75.00
--	--	--	------------------------	-------

HEATER #1407	30.74 SCFH			
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		SO2	4.5000 LB/H	NSPS
--	--	-----	-------------	------

			0.1 GR/DSCF, AMINE SCRUB.	
--	--	--	---------------------------	--

FLUE GAS SCRUB./SULFUR RECOVERY				
---------------------------------	--	--	--	--

		SO2	1.1000 LB/H SEE NOTE	NSPS
--	--	-----	----------------------	------

			TAIL GAS TREATING UNIT	99.97
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NOTES -----

NOTE: F.G. SCRUB./S RECOVERY EMISSIONS ARE INCREASE ONLY OVER EXISTING CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0064

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP. BAKERSFIELD, CA

DETERMINATION IS FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) SJ-78-26
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)

DAVID SOLOMON
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/18/80
 ESTIMATED DATE OF START-UP--
 (415)-974-8066
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO BOILER	92700.00 LB/H	CO	45.7000 LB/H	LAER
			BOILER BURNS CO EMITTED FROM TCC UNIT	99.40 LAER
		SO2	0.5000 % S FUEL	
		NOX	SULFUR IN AUXILIARY FUEL OIL	
			41.0000 LB/H	BACT
			COMBUSTION MODIFICATION BASED ON 0.3 LB/MMBTU	

NOTES -----
 THERMO FOR CATALYTIC CRACKING. INSTALLATION OF CO BOILER ON REFINERY TCC' UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984
 ID NUMBER CA-0007
 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP.

MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27769

DATE OF PERMIT ISSUANCE-- 02/19/82

DETERMINATION MADE BY BAY AREA AQMD

ESTIMATED DATE OF START-UP-- 1983

(AGENCY)

JIM KARAS
(AGENCY CONTACT PERSON)

(415)-771-6000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FURNACE, REFINERY PROCESS, 2 TO* 119.00 MMBTU/H SEE*

NOX 40.0000 PPM AT 3% O2

BACT 70.00

FURNACE, REFINERY PROCESS 40.00 MMBTU/H

NOX 40.0000 PPM AT 3% O2

BACT 70.00

LOW NOX BURNERS / SCR

NOTES

BURNING REFINERY FUEL GAS WITH HEAT VALUE OF 1025 BTU/CF. NOTE -- THROUGH PUT CAPACITY IS TOTAL CAPACITY. ONE IS 67. MMBTU/H, THE OTHER IS 52. MMBTU/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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ID NUMBER CA-0046A

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D

COMPANY NAME/SITE LOCATION UNI OIL

INGLESIDE, TX

SAN PATRICIO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-229
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/12/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

HEATER, VACUUM

66.65 MMBTU/H

SO2 1.2700 LB/H 0.0190 LB/MMBTU

PM 1.5100 LB/H 0.0230 LB/MMBTU FUEL GAS: 0.1 GR/DSCF H2S

NOX 11.6000 LB/H 0.1740 LB/MMBTU COMBUSTION CONTROL

CO 1.6700 LB/H 0.0250 LB/MMBTU COMBUS. CONTROL/LOW NOX BURN.

VOC 0.1600 LB/H 0.0024 LB/MMBTU COMBUSTION CONTROL

SO2 64.1000 LB/H F. G. :0.1 GR/DSCF H2S

PM 12.0000 LB/H 1.0000 LB/MLB COKE BURN OFF

NOX 29.4000 LB/H ESP

CHBST. CONTRL. & LOW NOX BURN.

FCC UNIT 17000.00 BBL/D

SO2 64.1000 LB/H

PM 12.0000 LB/H

NOX 29.4000 LB/H

NSPS

NSPS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, ISOSTRIPPER	38.24 MMBTU/H	CO	89.1000 LB/H HIGH TEMP. REGENERATION	NSPS
		VOC	2.6000 LB/H COMBUSTION CONTROL	BACT
		SO2	0.6300 LB/H 0.0790 LB/MMBTU F.G. : 0.01 GR/DSCF H2S	NSPS
		PM	0.8700 LB/H 0.0230 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	6.8500 LB/H 0.1790 LB/MMBTU COMBUSTION CONTROL	BACT
		CO	1.1100 LB/H 0.0290 LB/MMBTU COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0042 LB/MMBTU COMBUSTION CONTROL	BACT
		SO2	39.7000 LB/H NO CONTROL	BACT
		NOX	0.0773 LB/H NO CONTROL	BACT
		SO2	0.2400 LB/H F.G. : 0.1 GR/DSCF H2S	NSPS
REGENERATOR, HYDROTREATER CATAL*	161.00 MMBTU/H	PM	0.7900 LB/H COMBUSTION CONTROL	BACT
		SO2	1.9000 LB/H 0.0120 LB/MMBTU F.G. : 0.1 GR/DSCF	NSPS
HEATER, REFORMER	161.00 MMBTU/H	PM	0.0790 LB/H 0.0005 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H 0.2700 LB/MMBTU COMBUSTION CONTROL	BACT
		SO2	0.2700 LB/MMBTU COMBUSTION CONTROL	BACT

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, HDS	40.00 MBTU/H	CO	6.7500 LB/H 0.0420 LB/MBTU COMBUSTION CONTROL	BACT
		VOC	0.8000 LB/H 0.0050 LB/MBTU COMBUSTION CONTROL	BACT
		SO2	0.4800 LB/H 0.0120 LB/MBTU F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	1.4300 LB/H 0.0360 LB/MBTU COMBUSTION CONTROL	BACT
BOILER, PACKAGE	103.24 MBTU/H	NOX	10.9000 LB/H 0.2700 LB/MBTU CHEST. CONTRL./LOW NOX BURN.	BACT
		CO	1.6700 LB/H 0.0420 LB/MBTU COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0040 LB/MBTU COMBUSTION CONTROL	BACT
		SO2	0.7900 LB/H 0.0077 LB/MBTU F.G. : 0.1 GR/DSCF	NSPS
		PM	1.5900 LB/H 0.0150 LB/MBTU COMBUSTION CONTROL	BACT
		NOX	7.9400 LB/H 0.0760 LB/MBTU COMBUSTION CONTROL	BACT
		CO	0.7100 LB/H 0.0069 LB/MBTU COMBUSTION CONTROL	BACT
		VOC	0.0600 LB/H 0.0006 LB/MBTU COMBUSTION CONTROL	BACT

NOTES -----
THE NEW FACILITY WILL NOT INCREASE THE REFINERY'S CRUDE HANDLING CAPACITY, BUT WILL ENABLE THE REFINERY TO MAKE PREMIUM UNLEAD
ED GASOLINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION UNION OIL ROMEOVILLE, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 83 01 0013
 DETERMINATION MADE BY ILLINOIS EPA
 (AGENCY)

CHRIS ROMAINE
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/09/83
 ESTIMATED DATE OF START-UP-- 1985
 (217)-782-2113
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, W/AIR PREHEAT, 2 TOTAL	184.00 MMBTU/H	NOX	0.1600 LB/MMBTU EQUIPMENT DESIGN, EXCESS AIR ANALYZERS	BACT
HEATER, W/O AIR PERHEAT, 3 EA	25.00 MMBTU/H MAX	NOX	0.1300 LB/MMBTU EQUIPMENT DESIGN, EXCESS AIR ANALYZERS	BACT

NOTES -----

PROJECT WAS NOT A MAJOR MODIFICATION FOR SO2. SO2 EMISSIONS GOVERNED BY NSPS. ALSO STATE ID NUMBER 197 090 AAI.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 08/21/1984

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

30000.00 BPSD

PETROLEUM REFINING - AUXILIARY

SOURCE TYPE/SIZE

TACOMA, WA

U.S. OIL & REFINING CO.
3001 MARSHALL AVE

COMPANY NAME/SITE LOCATION

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 2573
DETERMINATION MADE BY PUGET SOUND APCA
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/06/85
ESTIMATED DATE OF START-UP-- 1986
(206)-344-7334
(PHONE)

HARRY WATTERS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

HEATER, HYDROCRACKER 60 40 MMSTU/H PM 0.0300 % ASH BY WT IN FUEL OIL
LOW ASH FUEL

HEATER, RESID. OIL PROCESSING 115.00 MMBTU/H SO2 0.3500 % S BY WT IN FUEL OIL
LOW S FUEL OIL

HEATER, HYDROGEN PLANT 190.00 MMBTU/H SO2 160.0000 PPM H2S IN FUEL GAS
AMINE TREATING

BOILER, GAS/OIL 98.90 MMBTU/H NOX 100.0000 PPM AT 3% O2, DRY, OIL
50.0000 PPM AT 3% O2, DRY, GAS
CONTINUOUS O2 MONITORS & LOW EXCESS AIR

SULFUR RECOVERY PLANT 118.00 T/D SULFUR SO2 250.0000 PPM AT 0% O2, DRY
CLAUS PLANT W/LO CAT TAILGAS TREATMENT 99.00

NOTES

EACH BATCH OF FUEL OIL MUST BE ANALYZED FOR SULFUR & ASH CONTENT. CONTINUOUS H2S MONITOR ON FUEL GAS SYSTEM. CONTINUOUS O2 MONITORS ON EACH FUEL BURNING DEVICE. CONTINUOUS SO2 & O2 EMISSION MONITORS REQUIRED ON TAILGAS SYSTEM. ANOTHER PERSON KNOWLEDGABLE ABOUT PERMIT IS JIM NOLAN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS:

ID NUMBER WA-0009A

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 46500.00 BPSD

COMPANY NAME/SITE LOCATION VENTECH REFIN.

KROTZ SPRINGS, LA

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-232
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

JOHN BUNYAK
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/13/80
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

CATALYTIC REGEN

PM	14.6000 LB/H	3 STAGE CYCLONE	BACT
SO2	265.2000 LB/H	LOW H2S FUEL (OIL LB/DCSF)	94.00 NSPS
NOX	66.6000 LB/H	LOW EXCESS AIR	BACT
VOC	2.2000 LB/H	LOW EXCESS AIR	BACT
CO	104.7000 LB/H	FLOT REGEN	NSPS 99.90
SO2	2.1000 LB/H	NONE	NSPS

SULFUR RECOVERY PLANT

FCCU FURNACE 50.00 MMBTU/H

PM	0.0200 LB/MMBTU	EFFICIENT OPERATION	BACT
SO2	0.0260 LB/MMBTU	LOW H2S FUEL	NSPS
NOX	0.2300 LB/MMBTU	LOW EXCESS AIR - COMBST CTRL	BACT
VOC	0.0060 LB/MMBTU	EFFICIENT OPERATION	BACT
CO	0.0200 LB/MMBTU	LOW EXCESS AIR	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

(CONTINUED) VENTECH REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM FURNACE	100.00 M ³ STU/H			
		PM	0.0200 LB/M ³ STU EFFICIENT OPERATION	BACT
		SO ₂	0.0260 LB/M ³ STU LOW H ₂ S FUEL	NSPS
		NO _X	0.2300 LB/M ³ STU COMBUSTION CONTROLS	BACT
		VOC	0.0060 LB/M ³ STU EFFICIENT OPERATION	BACT
		CO	0.0200 LB/M ³ STU LOW EXCESS AIR	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER LA-0029

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION CHEVRON USA LUBE OIL RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27797

DETERMINATION MADE BY BAY AREA AQMD (AGENCY)

ELLEN LINDER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/08/82
ESTIMATED DATE OF START-UP-- 1984
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

FOLLUTANT EMITTED

EMISSION LIMITS

... & BASIS ... PCT EFF

GAS COMPRESSOR, 9 EA

SEE NOTE

VOC

0.3000 LB/D PER SEAL

SEAL/VAPOR RECOVERY

99.00

NOTES -----

CAPACITY 20 HP TO 1000 HP. FILE A 350-011

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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ID NUMBER CA-0045A

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 21.00 MEBL/D
 COMPANY NAME/SITE LOCATION GARY WESTERN REFIN.
 GARY COMMUNITY RUAL STATION FRUITA, CO 81521 MESA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/24/81
 DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
 (AGENCY) JOHN DALE (303)-837-3763
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VAP. REC. GAS CONT.	18.00 MSCFD	NOX	1.2600 LB/H LOW NOX BURNERS	BACT
BOILER #4	47.00 MLB/H STEAM	NOX	8.4100 LB/H LOW NOX BURNERS	BACT
CRUDE UNIT	21.00 MBPSD	NOX	5.3100 LB/H LOW NOX BURNERS	BACT
DISTILLATE HDS	7.35 MBPSD	NOX	3.4200 LB/H LOW NOX BURNERS	BACT
GILSONITE MELT	565.00 T/D	NOX	3.6000 LB/H LOW NOX BURNERS	BACT
HYDROCRACKER	8.40 MBPSD	NOX	6.0200 LB/H LOW NOX BURNERS	BACT
MARUZEN LUMMIS	3.15 MBPSD	NOX	1.4400 LB/H LOW NOX BURNERS	BACT
NEW H2 PLANT	650.00 MSCFD	NOX	13.3200 LB/H LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

ID NUMBER CO-0008

(CONTINUED) GARY WESTERN REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PLATFORMER	6.30 MBPSD	NOX	10.0900 LB/H LOW NOX BURNERS	BACT
SUL RECOV PLANT	25.00 T/D	SO2	250.0000 PPM 60.1000 LB/H TAIL GAS SCRUBBER	BACT
SUL RECOV PLANT	25.00 T/D	NOX	0.3600 LB/H LOW NOX BURNERS	99.00 BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER CO-0008 SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

184000.00 BPSD

PETROLEUM REFINING - ENTIRE OPERATION

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION HAMPTON ROADS ENERGY CO.

PORTSMOUTH, VA

PORTSMOUTH CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 01/25/80

PERMIT NO. 73VA91

ESTIMATED DATE OF START-UP--

DETERMINATION MADE BY EPA REGION III
(AGENCY)

(215)-597-8187
(PHONE)

EILEEN GLEN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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HEATER, RESIDUE HDS, STACK 1.

32.00 MMBTU/H

PM	18.0000 LB/H			BACT
SO2	96.0000 LB/H			NAAQ
		0.3% S FUEL		
NOX	60.0000 LB/H			BACT
		LOW NOX BURNERS		
CO	11.0000 LB/H			BACT
		GOOD OPERATION		

HEATER, HYDROGEN PLANT, STACK 1.

770.00 MMBTU/H

PM	43.0000 LB/H			BACT
SO2	232.0000 LB/H			NAAQ
		0.3% S FUEL		
NOX	144.0000 LB/H			BACT
		LOW NOX BURNERS		
CO	25.0000 LB/H			BACT
		GOOD OPERATION		

HEATER, SULFUR PLANT, STACK 1.

50.00 MMBTU/H

PM	4.0000 LB/H			BACT
SO2	15.0000 LB/H			NAAQ
		0.3% S FUEL		
NOX	15.0000 LB/H			BACT
		LOW NOX BURNERS		
CO	2.0000 LB/H			BACT
		GOOD OPERATION		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR RECOVERY UNIT				
		SO2	152.0000 LB/H BEACON UNIT OR EQUIVALENT	NAAQ 99.50
HEATER, DISTILLATE HDS, STACK 2.	130.00 MMBTU/H	PM	7.0000 LB/H	BACT
		SO2	39.0000 LB/H	NAAQ
		NOX	0.3% S FUEL	BACT
		CO	24.0000 LB/H LOW NOX BURNERS	BACT
			4.0000 LB/H GOOD OPERATION	
HEATER, NAPHTHA HDS, STACK 2.	260.00 MMBTU/H	PM	15.0000 LB/H	BACT
		SO2	78.0000 LB/H	NAAQ
		NOX	0.3% S FUEL	BACT
		CO	49.0000 LB/H LOW NOX BURNERS	BACT
			9.0000 LB/H GOOD OPERATION	
HEATER, CATALYTIC REFORMER, STA*	520.00 MMSTU/H	PM	29.0000 LB/H	BACT
		SO2	152.0000 LB/H	NAAQ
		NOX	0.3% S FUEL	BACT
		CO	97.0000 LB/H LOW NOX BURNERS	BACT
			17.0000 LB/H GOOD OPERATION	
HEATER, ISOMERIZATION UNIT, STA*	95.00 MMBTU/H	PM	6.0000 LB/H	BACT
		SO2	28.0000 LB/H	NAAQ
		NOX	0.3% S FUEL	BACT
		CO	18.0000 LB/H LOW NOX BURNERS	BACT
			3.0000 LB/H GOOD OPERATION	
HEATER, ATHOS. CRUDE DISTIL, ST*	505.00 MMBTU/H	PM	29.0000 LB/H	BACT
		SO2	152.0000 LB/H	NAAQ
			0.3% S FUEL	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1933

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
GEN.UTILITY STEAM,STACK 3	60.00 MMBTU/H	NOX	95.0000 LB/H LOW NOX BURNERS	BACT
		CO	17.0000 LB/H GOOD OPERATION	BACT
		PM	34.0000 LB/H	BACT
		SO2	180.0000 LB/H 0.3% S FUEL	NAAQ
		NOX	106.0000 LB/H LOW NOX BURNERS	BACT
		CO	20.0000 LB/H GOOD OPERATION	BACT
		SO2	8.0000 LB/H	BACT
		FLARING		

NOTES -----

BACT -- SO2 LIMITS DETERMINED BY NAAQS & PSD CLASS II INCREMENT CONSTRAINTS. SO2 EMISSIONS FROM START-UP OF LPG PLANT TO BE OF
FSET BY REDUCTIONS FROM OTHER SOURCES.
TANKERS BURN FUEL WITH S CONTENT <1.0%.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - ENTIRE OPERATION

750.00 MBPSD

COMPANY NAME/SITE LOCATION HESS OIL - VIRGIN ISLANDS

ST. CROIX, VI 00806

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NONE

DETERMINATION MADE BY EPA REGION II

(AGENCY)

ED NOWAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/09/82

ESTIMATED DATE OF START-UP-- 1985

(212)-264-8690

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

FCC UNIT, 2 152734.00 BBL/D

SO2 0.6000 % BY WT

USE OF LOW S FEED STOCK VOG

PM 0.8000 LB/MLB COKE BURN

ESP

NOX 175.0000 PPM 2% O2

CO 500.0000 PPM VOL

VOC

CO BURNING REGENERATOR

CO BURNING REGENERATOR

PROCESS HEATERS, 3

SO2

0.1000 GR/DSCF H2S,GAS

PM 0.5000 % S OIL

NOX 0.1000 LB/MMBTU

CO 0.2000 LB/MMBTU GAS

0.3000 LB/MMBTU OIL

LEA & WASTE HEAT REC.

CO 0.2000 LB/MMBTU GAS

0.3000 LB/MMBTU OIL

LEA & WASTE HEAT REC.

VOC 0.2000 LB/MMBTU GAS

0.3000 LB/MMBTU OIL

LEA & WASTE HEAT REC.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER VI-1002

SOURCE TYPE CODE 5.6

(CONTINUED) HESS OIL - VIRGIN ISLANDS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHOUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FUGITIVE EMISSION SOURCES		VOC	GOOD ENGINEERING PRACT.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER VI-0002

SOURCE TYPE CODE 5.6

PAGE G- 492

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION HILL PETROLEUM CO.

KROTZ SPRINGS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-286A
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

JOE WINKLER
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/09/80
 ESTIMATED DATE OF START-UP--
 (214)-767-2600
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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LIQ. STORAGE TANKS (< 11.1 PSIA*)

VOC

FLOATING ROOF TANK W/DBL SEALS

LIQ. STORAGE TANKS (> 11.1 PSIA*)

VOC

PRES. VESSELS W/ VAPOR BAL.

LIQUID PETROLEUM PUMPS

VOC

DOUBLE MECHANICAL SEALS

LIQUID PETROLEUM BARGES

VOC

SUBMERGED FILL LINES

HEATER, REFORMER CHARGE 100.15 MMBTU/H

NOX

0.0610 LB/MMBTU GAS

0.0430 LB/MMBTU PROPANE

LOW NOX BURNERS W/F.G. MONITOR

CO

4.0000 LB/MMBTU GAS

1.5000 LB/MMBTU PROPANE

FLUE GAS MONITORING

HEATER, HYDROTREATER CHARGE 18.29 MMBTU/H

NOX

0.0610 LB/MMBTU

LOW NOX BURNERS W/F.G. MONITOR

CO

4.0000 LB/MMBTU

FLUE GAS MONITORING

HEATER, HYDROTREATER STABILIZER 13.58 MMBTU/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

(CONTINUED) HILL PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
REBOILER, REFORMER STABILIZER	12.93 MMBTU/H	NOX	0.0610 LB/MMBTU GAS	
			0.0430 LB/MMBTU PROPANE	
		CO	LOW NOX BURNERS W/F.G. MONITOR	
			4.0000 LB/MMBTU GAS	
			1.5000 LB/MMBTU PROPANE	
			FLUE GAS MONITORING	
REBOILER, STABILIZER (GASOLINE)	15.49 MMBTU/H	NOX	0.0610 LB/MMBTU GAS	
			0.0430 LB/MMBTU PROPANE	
		CO	LOW NOX BURNERS W/F.G. MONITOR	
			4.0000 LB/MMBTU GAS	
			1.5000 LB/MMBTU PROPANE	
			FLUE GAS MONITORING	
BOILER	78.15 MMBTU/H	NOX	0.0610 LB/MMBTU	
			LOW NOX BURNERS W/F.G. MONITORS	
		CO	LB/MMBTU	
			FLUE GAS MONITORING	
		NOX	0.1000 LB/MMBTU GAS	
			0.1100 LB/MMBTU PROPANE	
		CO	LOW NOX BURNERS W/F.G. MONITOR	
			4.0000 LB/MMBTU GAS	
			1.5000 LB/MMBTU PROPANE	
			FLUE GAS MONITORING	

NOTES -----
THE SOURCE WILL OPERATE CONTINUOUSLY, 8640 HRS/YR. ALL CONTROL STRATEGIES ARE CONSIDERED BACT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
===== ID NUMBER LA-0031
===== INITIAL REVIEW POST STARTUP
===== REVIEW STATUS: 04/01/1983
===== SOURCE TYPE CODE 5.6
=====

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION MIAMI VALLEY REFIN. CO.

AURORA, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(15)1485
DETERMINATION MADE BY INDIANA APCD
(AGENCY)

FRANK PROFIT
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/07/81
ESTIMATED DATE OF START-UP--
(317)-633-0664
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FBC COAL FIRED BOILER	50000.00 LB/H	PM	0.0600 LB/MMBTU MULTICLONE & BAGHOUSE	99.00
		SO2	0.1400 LB/MMBTU	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING -- ENTIRE OPERATION 10.00 MBPSD

COMPANY NAME/SITE LOCATION MITCHELL ENERGY
HWY 380, 2 MI W OF BRIDGEPORT BRIDGEPORT, TX WISE COUNTYDETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-139
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
JOHN BUNYAK
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/24/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 2	21.34 MBTU/H	VOC	0.0030 LB/MMBTU EFFICIENT OPERATION	BACT
BOILER	12.55 MBTU/H	VOC	0.0030 LB/MMBTU EFFICIENT OPERATION	BACT
FLARE		VOC	0.0460 LB/MMBTU EFFICIENT OPERATION	BACT
NAPHTHA STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.3700 LB/MMBTU DOUBLE SEALS	BACT
KEROSENE STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1600 LB/MMBTU DOUBLE SEALS	BACT
DIESEL STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1200 LB/MMBTU DOUBLE SEALS	BACT
RESIDUE STORAGE TANKS	10000.00 BBL EA	VOC	0.0100 LB/MMBTU DOUBLE SEALS	BACT
PROCESS DRAINS		VOC	0.1600 LB/MMBTU MAINTENANCE PROG.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0050

SOURCE TYPE CODE 5.6

(CONTINUED) MITCHELL ENERGY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VALVES & FLANGES		VOC	11.7000 LB/MMBTU MAINTENANCE PROG.	BACT
PUMP SEALS		VOC	4.1700 LB/MMBTU MAINTENANCE PROG.	BACT
CRUDE UNLOAD		VOC	2.6200 LB/MMBTU MAINTENANCE PROG.	BACT
PRODUCT UNLOAD		VOC	1.4800 LB/MMBTU MAINTENANCE PROG.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0050 SOURCE TYPE CODE 5.6

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION PLACID REFINING CO.

PORT ALLEN, LA

WEST BATON ROUGE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 01/17/85
ESTIMATED DATE OF START-UP-- 1985
(504)-342-8940
(PHONE)

PERMIT NO. PSD-LA-522
DETERMINATION MADE BY LAGD/EPA REGION VI
(AGENCY)

INEZ FRICK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, #B-902

175.00 MMBTU/H

NOX

27.2000 LB/H
119.2000 T/YR

BACT

VE

COMBUSTOR DESIGN
NO VISIBLE EMISSION

NOTES

PERMIT REQUIRES USE OF CONTINUOUS FLUE GAS OXYGEN METER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1995

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 26.30 T/D

COMPANY NAME/SITE LOCATION SOUND REFINING, INC.
2628 MARINE VIEW DRIVE TACOMA, WA 98422

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. N/C 2445 DATE OF PERMIT ISSUANCE-- 10/17/83
DETERMINATION MADE BY PUGET SOUND APCA ESTIMATED DATE OF START-UP-- 1984
(AGENCY) HARRY MATTERS (206)-344-7334
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
RECOVERY PLANT, SULFUR 26.30 T/D SO2 75.0000 PPM
SEE NOTE #1

NOTES
UNIT #150 ALSO SUBJECT TO THE REQUIREMENTS OF CFR 40 PART 60, SUBPART J & PSAPCA, LETTER DATED 10/17/83. NOTE#1 - SOUR WATER S
TRIPPER, AMINE STRIPPER, CLAUS UNIT, BEVIN TAILGAS CATALYTIC UNIT, STRETFORD UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984
ID NUMBER WA-0010
SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 9010.00 BPD

COMPANY NAME/SITE LOCATION SOUND REFINING, INC.
2628 MARINE VIEW DRIVE TACOMA, WA 98422

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/17/83
PERMIT NO. N/C 2439 ESTIMATED DATE OF START-UP-- 1984
DETERMINATION MADE BY PUGET SOUND APCA HARRY MATTERS (206)-344-7334
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRACKER, FLUIDIZED BED CATALYTIC	9010.00 BPD	PM	0.0100 GR/DSCF ESP	99.00
		SO2	100.0000 PPM	
		NOX	60.0000 PPM	
		CO	50.0000 PPM	
			WASTE HEAT BOILER	

NOTES -----
SUBJECT TO THE REQUIREMENTS OF SUBPARTS J AND GGG OF 40CFR PART 60. ALL EMISSIONS CORRECTED TO 7% O2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984

TO NUMBER WA-0010A SOURCE TYPE CODE 5.6

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION SUNLAND REFIN. CORP. BAKERSFIELD, CA

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
 PERMIT NO. SJ-79-22
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 09/22/80
 ESTIMATED DATE OF START-UP--
 (415)-454-8066
 (PHONE)

DAVID SOLCHON
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMITTED EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

STORAGE TANKS

VOC DOUBLE SEAL INTERNAL FLOATING ROOF
 OR VAPOR RECOVERY

LOADING RACKS

VOC 30.0000 MG/L OF PRODUCT
 CARBON ABSORPTION SYS

TANK TRUCKS

TRAILER TANKS TO BE LEAK TIGHT

VALVES/FLANGES/PUMPS/COMPRESSORS

FUGITIVE I&M PROGRAM

WORK WATER SEPARATOR

REQUIRED TO BE COVERED

SUMP

REQUIRED TO BE COVERED

PROCESS TURNAROUNDS

VENT DEPRESSURED & PURGED TO FUEL GAS SYS

VACUUM DEVICES

VENTED TO FUEL GAS SYS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993 04/04/1994

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ID NUMBER CA-0003

SOURCE TYPE CODE 5.6

(CONTINUED) SUNLAND REFIN. CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRESSURE RELIEF VALVES		VOC	VENTED TO FLARE SYS & INCINERATED	LAER
COMBUSTION SOURCES		SO2	0.0300 GR/DSCF H2S	LAER
		NOX	50.0000 PPM 3% O2 LOW NOX BURNERS NON-CATALYTIC AMMONIA INJECTION	BACT
SULFUR RECOVERY PLANT		SO2	1.0000 LB/H	LAER

NOTES -----
A) VAPOR COLLECTION SYS MUST BE VAPOR TIGHT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984
SOURCE TYPE CODE 5.6

ID NUMBER CA-0003

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 26000.00 BPSD

COMPANY NAME/SITE LOCATION SWANN OIL CO. CHESAPEAKE, VA CHESAPEAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78VA04
DETERMINATION MADE BY EPA REGION III
(AGENCY)
EILEEN GLEN
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/81
ESTIMATED DATE OF START-UP--
(215)-597-8187
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

HEATER, CRUDE UNIT ATMOS. 94.00 MMBTU/H

PM 9.0000 LB/H BACT
SO2 18.0000 LB/H BACT
NOX 36.0000 LB/H BACT
CO 3.0000 LB/H BACT
0.37% S IN FUEL
2 STAGE + OFF-STOICH. COMB.
GOOD OPERATION

HEATER, CRUDE UNIT VACUUM 18.00 MMBTU/H

PM 2.0000 LB/H BACT
SO2 3.0000 LB/H BACT
NOX 7.0000 LB/H BACT
CO 1.0000 LB/H BACT
S IN FUEL 0.3%
2 STAGE + OFF-STOICH. COMB.
GOOD OPERATION

HEATER, VISBREAKER 44.00 MMBTU/H

PM 4.0000 LB/H BACT
SO2 8.0000 LB/H BACT
NOX 17.0000 LB/H BACT
CO 1.0000 LB/H BACT
S IN FUEL 0.3%
2 STAGE + OFF-STOICH. COMB.
GOOD OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1993

INITIAL REVIEW POST STARTUP

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ID NUMBER VA-0002

SOURCE TYPE CODE 5.6

(CONTINUED) SHAWN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, NAPHTHA REFORMER	50.00 MMBTU/H	PM SO2 NOX CO	1.0000 LB/H 0.3000 LB/H BURN REFINERY GAS <0.0063% S 11.0000 LB/H 2 STAGE + OFF-STOICH. COMB. 1.0000 LB/H GOOD OPERATION	BACT BACT BACT BACT
HEATER, NAPHTHA HYDRODESULFURIZ*	16.00 MMBTU/H	PM SO2 NOX CO	0.3000 LB/H 0.1000 LB/H BURN REFINERY GAS <0.0063% S 4.0000 LB/H 2 STAGE + OFF-STOICH. COMB. 0.3000 LB/H GOOD OPERATION	BACT BACT BACT BACT
HEATER, DISTILLATE HYDRODESULFUR*	16.00 MMBTU/H	PM SO2 NOX CO	0.3000 LB/H 0.1000 LB/H BURN REFINERY GAS <0.0063% S 4.0000 LB/H 2 STAGE + OFF-STOICH. COMB. 0.3000 LB/H GOOD OPERATION	BACT BACT BACT BACT
BOILER, STEAM	29.00 MMBTU/H	PM SO2 NOX CO	0.5000 LB/H 0.2000 LB/H BURN REFINERY GAS <0.0063% S 7.0000 LB/H 2 STAGE & STOICHIOMETRIC COMB 0.6000 LB/H GOOD OPERATION	BACT BACT BACT BACT
EMERGENCY FLARE SYS		SO2 NOX	0.0100 LB/H 0.2000 LB/H	BACT BACT
POWER PLANT, TANKER	VARIABLE	PM SO2 NOX CO	14.0000 LB/H 211.0000 LB/H 64.0000 LB/H 1.0000 LB/H	BACT BACT BACT BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

(CONTINUED) SWAIN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECOVERY UNIT, CLAUS SULFUR		SO2	14.0000 LB/H	BACT

NOTES -----

SO2 EMISSIONS FROM ATMOSPHERIC HEATER, VACUUM HEATER, & VISBREAKER HEATER SHALL NOT EXCEED THE SPECIFIED EMISSION RATES ON A 2
4-HOUR ROLLING AVERAGE BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
	REVIEW STATUS: 04/01/1983	
PAGE 6- 505	ID NUMBER VA-0002	SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 55000.00 BBL/D

COMPANY NAME/SITE LOCATION TENNECO OIL CO. CHALMETTE, LA ST. BERNARD PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 11/21/84
 PERMIT NO. PSD-LA-199 M-1 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY LAQD/EPA REGION VI (504)-342-8940
 (AGENCY) ATLY BRASHER (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR	42000.00 BPSD	NO2	136.6800 LB/H	PROMOTER CATALYST FOR CI	
		CO	198.8800 LB/H	PROMOTER CATALYST FOR CI	
SULFUR PLANT, 2 EA	180.00 LT/D	NO2	8.4000 LB/H		
			0.1680 LB/HMBTU	PROCESS & OPERATIONAL CONTROLS	
		CO	1.0400 LB/H		
			0.2110 LB/HMBTU	PROCESS & OPERATIONAL CONTROLS	
HEATERS, GAS FIRED, EXISTING	VARIOUS	NO2	0.2420 LB/HMBTU	COMBUSTION CONTROL & O2 MONITORS	
		CO	0.0211 LB/HMBTU	COMBUSTION CONTROL & O2 MONITORS	
HEATERS, OIL FIRED, EXISTING	VARIOUS	NO2	0.1680 LB/HMBTU	COMBUSTION CONTROL & O2 MONITORS	
		CO	0.0382 LB/HMBTU	COMBUSTION CONTROL & O2 MONITORS	
HEATERS, GAS FIRED, NEW	VARIOUS	NO2	0.9230 LB/HMBTU	LOW NOX BURNERS	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
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(CONTINUED) TENNECO OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATERS, OIL FIRED, NEW	VARIOUS	CO	0.0211 LB/MMBTU LOW NOX BURNERS	
		NO2	0.1013 LB/MMBTU LOW NOX BURNERS	
		CO	0.0382 LB/MMBTU LOW NOX BURNERS	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-0022A

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SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 200.00 MBPSD

COMPANY NAME/SITE LOCATION VIRGIN ISLANDS REFINERY CORP.
ESTATE BETHLEHAM ST. CROIX, VIDETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/04/81
PERMIT NO. NONE ESTIMATED DATE OF START-UP-- 1985
DETERMINATION MADE BY EPA REGION II (212)-264-8690
(AGENCY) ED NOWAK (PHONE)
(AGENCY CONTACT PERSON)PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

BOILERS, FOSSIL FIRED, 3 175000.00 BBL/D

CO	14.0000 T/YR	GOOD BOILER OPERATION	BACT
VOC	3.0000 T/YR	GOOD BOILER OPERATION	BACT
NOX	0.2000 LB/MMSTU GAS	GOOD BOILER OPERATION	BACT
	0.3000 LB/MMSTU OIL		
PM	0.3520 LB/MMSTU		BACT
SO2	20.0000 PPM H2S GAS		BACT
	0.3300 % S BY WT, OIL		

HYDROGEN PLANT

CO	105.0000 T/YR	GOOD BOILER OPER./NO FUEL OIL	BACT
VOC	19.0000 T/YR	GOOD BOILER OPER./NO FUEL OIL	BACT
NOX	1088.0000 T/YR	STOICHIO. COMBST./NO FUEL OIL	BACT
PM	0.3520 LB/MMSTU		BACT
SO2	3.0000 T/YR	NO GAS<.1 GR/DSCF H2S	BACT

PROCESS HEATERS

CO	369.0000 T/YR	GOOD BOILER OPERATION	BACT
VOC	72.0000 T/YR	GOOD BOILER OPER.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER VI-0001

SOURCE TYPE CODE 5.6

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
FCC UNIT	175000.00 BBL/D	NOX	0.3000 LB/MMBTU OIL	BACT
			0.2000 LB/MMBTU ALT. FUELS	
		PM	0.3520 LB/MMBTU	BACT
		SO2	3683.0000 T/YR	BACT
			GIL<.33% WT/ALT<.1GR/DSCF H2S	
SULFUR RECOVERY PLANT		CO	565.0000 T/YR	NETS
		VOC	3247.0000 T/YR	BACT
			GOOD BOILER OPER.	
		NOX	0.3000 LB/MMBTU OIL	BACT
			0.2000 LB/MMBTU ALT. FUELS	
		PM	1.0000 LB/MLB COKE BURN	LAER
			0.1000 LB/MMBTU SUPP. OIL	
		SO2	79.0000 T/YR	NSPS
			OIL<.33% WT/ALT<.1GR/DSCF H2S	
		CO	29.0000 T/YR	BACT
PETROLEUM LIQUID STORAGE TANKS		VOC	GOOD HEATER OPERATION	BACT
			GOOD HEATER OPERATION	
		NOX	0.3000 LB/MMBTU OIL	BACT
			0.2000 LB/MMBTU ALT.	
		PM	0.3520 LB/MMBTU	BACT
		SO2	365.0000 T/YR	NSPS
			CLAUS SYS. W/ 3 UNITS	
			OIL<.33% WT/ALT<.1GR/DSCF H2S	
		VOC	937.0000 T/YR	NSPS
			FLOATING ROOF TANKS	
PUMPS, SEALS, VALVES, FLANGES		VOC	177.0000 T/YR	BACT
		VOC	64.0000 T/YR	SIP
MARINE LOAD & UNLOAD FACILITY			SEALS	
		CO	NONE	BACT
			GOOD OPERATION	
INCINERATOR, MULTI-CHAMBER		NOX	NONE	BACT
			GOOD OPERATION	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER VI-0001

SOURCE TYPE CODE 5.6

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
API WASTE OIL SEPERATOR		PM	0.3000 LB/H	
		VOC	436.0000 T/YR	NSPS
			FIXED COVER/FOAM SPHERES	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
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PAGE G- 510	ID NUMBER VI-0001	SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE BULK TERMINALS

COMPANY NAME/SITE LOCATION AMOCO OIL CO., GRANVILLE

MILWAUKEE, WI

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. MAN-03-80-41-064

DETERMINATION MADE BY WISCONSIN DNR (AGENCY)

ELIZABETH SPAETH (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/23/80
ESTIMATED DATE OF START-UP-- 1981
(414)-257-4929 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

... PCT EFF

TERMINAL

214494.00 MGAL GASOLII*

VOC

30.0000 MG/L

FLOAT ROOF & VAPOR RECOVERY SYS.

LAER 97.00

TERMINAL

71358.00 MGAL #2 OIL

VOC

80.0000 MG/L
30.0000 MG/L

LAER

NOTES -----

OFFSET OBTAINED BY CLOSING JONES ISLAND TERMINAL, EXTRA EMISSIONS BANKED 41.55 TPY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIFW POST STARTUP
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ID NUMBER WI-0005

SOURCE TYPE CODE 5.7

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

BULK TERMINALS

ASHLAND PETROLEUM CO.
30TH & JONES ST.

COVINGTON, KY 41015

KENTON COUNTY

DETERMINATION IS BACT
PERMIT NO. C-81-37
DETERMINATION MADE BY

KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/01/81
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

BOTTOM FILL LOADING RACK

3000.00 GAL/MIN

VOC

80.0000 MG/L GROUND LOADING
CARBON ABSORPTION

NOTES

THIS PERMIT GRANTED UNDER A VOC BUBBLE REQUEST TO ALLEVIATE RETROFITTING EXISTING TANKS W/FLOATING ROOFS. PERMIT N/A TO BACT/L
AER. THIS BUBBLE SET THE ALLOWABLE AT 30000.0 MG/L

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

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ID NUMBER KY-0019

SOURCE TYPE CODE 5.7

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

BULK TERMINALS

476000.00 BBL

COMPANY NAME/SITE LOCATION BAYTANK INC., HOUSTON

SEABROOK, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8865

DATE OF PERMIT ISSUANCE-- 02/12/82

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STORAGE TANKS, 49

CAPACITY VA*

VOC

BACT
99.00

WASTE WATER SEPERATOR, SEE NOTE*

VOC

BACT
99.00

FLARING EMIS., SEE NOTE 2
MAT. W/>0.5 PSIA VAP. PRESS.

COVERS W/VENTS TO FLARES

NOTES

NOTE 1 - WASTE WATER SEPARATOR INCLUDES 2 DECANTERS & DOUBLE SKIMMER SYS. NOTE 2 - ALSO MATERIALS WITH < 0.5 PSIA VAP. PRESS.
BUT WITH ODOR OR TOXICITY EFFECTS ARE REQUIRED TO MEET THESE EQUIPMENT STANDARDS / TO USE ADSORBERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1.00 MMGAL/D

RICHMOND, CA

DATE OF PERMIT ISSUANCE-- 12/23/80
ESTIMATED DATE OF START-UP-- 1981
(415)-771-6000
(PHONE)

KELLY WEE
(AGENCY CONTACT PERSON)

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27611
DETERMINATION MADE BY BAY AREA AQHD
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

GASOLINE BULK LOADING RACK 1.00 MMGAL/D VOC 91.0000 LB/D BACT
90.0000 LB/MMGAL CARBON ADSORPTION 98.60

NOTES -----
SOURCE TEST #83062. FILE A 350-004

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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ID NUMBER CA-0051
REVIEW STATUS: 04/19/1984
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.8

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE STORAGE OF PETROLEUM LIQUIDS 3300.00 BBL

COMPANY NAME/SITE LOCATION KERN OIL & REFINING CO. , CA KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 2018063 KERN COUNTY APCD
 DETERMINATION MADE BY (AGENCY) TOM PAXSON (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 06/18/84
 ESTIMATED DATE OF START-UP-- (805)-861-3682 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 3300.00 BBL
 INTERNAL FLOAT ROOF TANK VOC 0.2000 LB/D
 TRIPLE SEAL INT. FLOAT ROOF NSPS 98.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 09/01/1984
 ID NUMBER CA-0081
 SOURCE TYPE CODE 5.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE STORAGE OF PETROLEUM LIQUIDS

COMPANY NAME/SITE LOCATION MCKESSON CHEMICAL CO. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. SEE NOTE
 DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT BILL GIBBONS
 (AGENCY) (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/81
 ESTIMATED DATE OF START-UP--
 (910)-744-1000
 (PHONE)

PROCESSES SUBJECT THROUGHPUT POLLUTANT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

DRUM FILLING FACILITY

VOC

VAPOR RECOVERY LOOP

90.00

NOTES

DRUM FILLING FACILITY USED FOR WHOLESALING VARIOUS CHEMICALS. CONSERVANTS INSTALLED ON STORAGE TANKS, TOTAL STORAGE CAPACITY 6
 0000 GALLONS. NOTE - PERMIT # T79-78 THRU T79-83 & T78-068

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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 REVIEW STATUS: 04/01/1983

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ID NUMBER OK-0011

SOURCE TYPE CODE 5.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

120.00 MMGAL/YR

STORAGE OF PETROLEUM LIQUIDS

SOURCE TYPE/SIZE

CINCINNATI, OH

QUEEN CITY TERMINALS

COMPANY NAME/SITE LOCATION

DETERMINATION IS PERMIT NO. 14-403
 DETERMINATION MADE BY SOUTHWEST OHIO APCA (AGENCY)
 HARRY SCHWIETERING (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 05/19/82
 ESTIMATED DATE OF START-UP-- (513)-251-8777 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT
 STORAGE TANK, 2
 PUMPS & VALVES
 BARGE LOADING

THROUGHPUT CAPACITY
 50.00 MGAL
 120.00 MMGAL/YR

POLLUTANT EMITTED
 BEN*
 BEN*
 BEN*

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

NOTE
 75.00

INT. FLOAT ROOF, LIQ. MOUNTED SEAL

NOTE

DESIGN CRITERIA

BACT
 95.00

FLARE

NOTES -----
 NOTE -- NESHAP, AND BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER OH-0066
 SOURCE TYPE CODE 5.9
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION COLUMBIA GAS TRANSMISSION CORP. SUGAR GROVE, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 0123000137
DETERMINATION MADE BY OHIO EPA CD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 04/13/81
ESTIMATED DATE OF START-UP--
(614)-864-3195
(PHONE)
GEORGE DENNIS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

NAT. GAS FIRED I. C. ENGINES

NOX	5.0000 G/HP-H	ENGINE DESIGN
CO	2.0000 G/HP-H	ENGINE DESIGN
VOC	0.3000 G/HP-H	ENGINE DESIGN

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION CRYSEN REFINING, WESTERN DIV.

WOODS CROSS, UT

DAVIS COUNTY

DETERMINATION IS

PERMIT NO.

DETERMINATION MADE BY

UTAH BAC
(AGENCY)

DONALD ROBINSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983
(801)-533-6108
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NAPHTHA TANK, 2

365000.00 BBL/YR EA

VOC

INTERNAL FLOATING ROOF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

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ID NUMBER UT-0027

SOURCE TYPE CODE 5.11

05/21/1985

22600.00 GAL/D

CORPUS CHRISTI, TX

DATE OF PERMIT ISSUANCE-- 09/15/82
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

STUART KEIL
(AGENCY CONTACT PERSON)

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL E

... & BASIS
... PCT EFF

VOC

NIL EMISSIONS

ALL EMISSIONS
DISPLACED VAPORS ROUTED TO FLARE

06.66

NOTES: 15% OF DISPLACED VAPORS ARE ASSUMED TO BE NOT COLLECTED DUE TO FUGITIVE LOSSES.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0099

SOURCE TYPE CODE 5.11

INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE TRANSPORT & MARKETING - PETROLEUM PRODUCTS 2000.00 MMCFD

COMPANY NAME/SITE LOCATION NORTHERN ALASKAN PIPELINE , AK

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-X81-03-09
 DETERMINATION MADE BY EPA REGION X
 (AGENCY)

PAUL BOYS
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/81
 ESTIMATED DATE OF START-UP--
 (206)-442-1193
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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MAINLINE COMPRESSOR TURBINE

NOX	150.0000 PPM 80.0000 KG/H	DRY CONTROLS		BACT
-----	------------------------------	--------------	--	------

REFRIG. COMPRESSOR TURBINE

NOX	150.0000 PPM 38.0000 KG/H	DRY CONTROL		BACT
-----	------------------------------	-------------	--	------

ELECT. GEN. TURBINE

NOX	150.0000 PPM 15.0000 KG/H	DRY CONTROL		BACT
-----	------------------------------	-------------	--	------

GLYCOL HEATER MISC.

NOX	43.0000 NG/J 6.0000 KG/H	LOW NOX BURNERS		BACT
-----	-----------------------------	-----------------	--	------

NOTES

ABOVE LIMITS ARE FOR 1 COMPRESSOR STATION, 7 WILL BE BUILT ALONG PIPELINE. ALSO TOTAL LIMIT FOR EACH STATION OF 175 KG/HR OR 1 517 METRIC TONS PER YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

05/21/1985

933.00 HESL/D

五

PAUL BOYS
(AGENCY CONTACT PERSON)

[illegible]

... & BASIS
... PCT EFF

NOTES
FOR PERMIT CONDITIONS. SEE ATTACHMENT, ALL ARE BASED ON TECHNOLOGY AND ECONOMICS.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AK-0001

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 55000.00 HP

COMPANY NAME/SITE LOCATION AMERADA HESS
P.O. BOX 2040

TULSA, TX 74012

GAINES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-328
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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ENGINE, NAT. GAS, COMPRESSOR, 3* 1600.00 HP

NOX	10.6000 G/HP-H	ADJUSTED AIR FUEL RATIO		BACT
VOC	53.0000 T/YR	NORMAL EQUIP. OPERATION		BACT
CO	1.4000 G/HP-H	NORMAL EQUIP. OPERATION		BACT
SO2	0.2500 T/YR	NORMAL EQUIP. OPERATION		BACT
PM	TRACE	NORMAL EQUIP. OPERATION		BACT
		NORMAL EQUIP. OPERATION		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 250.00 MMCFD

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION UINTA, WY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/20/79
 PERMIT NO. CT-272 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY WYOMING AGD BERNIE DAILEY (307)-777-7391
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, GAS, 2 EA	65.50 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT
HEATER, GAS	33.30 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT
HEATER, GAS	7.10 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT
INCINERATOR, SULFUR PLANT		SO2	311.5000 LB/H CLAUS & CBA	BACT 98.60

NOTES -----
 AN EXTENSIVE BACT ANALYSIS BASED ON ECONOMIC, ENERGY, & ENVIRONMENTAL FACTORS COMPARING CLAUS-CBA TO CLAUS-SCOT WAS PERFORMED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: SOURCE TYPE CODE 5.12
 ID NUMBER WY-0008
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SEE NOTE

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION CO.

, ND

BILLINGS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY

NORTH DAKOTA SHD

(AGENCY)

GARY HELBLING

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/83

ESTIMATED DATE OF START-UP--

(701)-224-2348

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

INCINERATOR STACK

SEE NOTE

SO2

SEE NOTE

CLAUS UNIT & CBA

BACT

98.60

NOTES

THE PLANT IS TO BE CONSTRUCTED IN THREE STEPS. THE PLANT WILL PROGRESS FROM A 25 MMCF/D PLANT WITH AN EMISSION LIMIT OF 62.25 LB/H SO2, TO A 50 MMCF/D PLANT WITH AN EMISSION LIMIT OF 124.5 LB/H SO2 & THEN TO A 100 MMCF/D PLANT WITH AN EMISSION LIMIT OF 249 LB/H SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER ND-0003

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION A1H COMPANY

ISABELLA TWP, MI

ISABELLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 631-82B

DETERMINATION MADE BY MICHIGAN DNR

(AGENCY)

LAURA OTWELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/28/83

ESTIMATED DATE OF START-UP-- 1983

(517)-322-1333

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

GAS SWEETENING AMINE FACILITY

2.30 MMCF/D

SO2

24.0000 LB/H

2 STAGE CAUST. SCRUBB., INCINERATOR

99.99

NOTES

RULE 403(4) OF THE MICHIGAN APC RULES REQUIRE BACT ON ALL NEW SWEETENING FACILITIES. DETERMINATION IS BASED ON DETAILED ECONOMIC ANALYSIS AND EXPECTED EFFICIENCIES OF VARIOUS CONTROL SYSTEMS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/19/1984 03/13/1984

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ID NUMBER MI-0032

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION BASS ENTERPRISES PRODUCTION CO. FORT WORTH, TX 76102
201 MAIN ST.

DETERMINATION IS BACT DATE OF PERMIT ISSUANCE-- 08/24/84
PERMIT NO. C-9453 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY TEXAS ACB I. L. BILSKY (512)-451-5711
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SHEETENING & DEHYDRATION, NAT. *	18.00 MMCFD	S02	248.3000 T/YR	WASTE GAS FIRING BACT
		NOX	13.3600 T/YR	WASTE GAS FIRING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

60.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM

, WY

UINTA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-515

DETERMINATION MADE BY WYOMING ACD

(AGENCY)

CHUCK COLLINS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/08/83

ESTIMATED DATE OF START-UP-- 1984

(307)-777-7391

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

COMPRESSOR, 2 EA 2250.00 HP

NOX 4.0000 G/HP-H
DESIGN

CO 2.0000 G/HP-H
DESIGN

VOC 0.5000 G/HP-H
DESIGN

SO2 0.8500 LB/H
DESIGN

HEATER, GAS 3.75 MMBTU/H

NOX 0.2300 LB/MMBTU
DESIGN

CO 0.0200 LB/MMBTU
DESIGN

SO2 0.0800 LB/MMBTU
DESIGN

TURBINE, 2 EA 886.00 HP

NOX 150.0000 PPM
DESIGN

CO 2.0000 G/HP-H
DESIGN

VOC 0.0100 G/HP-H
DESIGN

SO2 0.5800 LB/H
DESIGN

NOTES -----

SO2 EMISSIONS LIMITS BASED ON FUEL S CONTENT OF LESS THAN 20 GR/100 SCF.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER WY-0005

SOURCE TYPE CODE 5.12

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 260.00 MMCFD

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
P.O. BOX 310

CARTHAGE, TX

PONALA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-206

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/11/80

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT ENITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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I. C. ENGINE	800.00 HP	NOX	19.2000 LB/H 24.0000 LB/MHP-H CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
--------------	-----------	-----	--	------

I. C. ENGINE, 2	1050.00 HP EA	NOX	25.2000 LB/H EA 24.0000 LB/MHP-H CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
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I. C. ENGINE, 2	730.00 HP EA	NOX	16.4000 LB/H 24.0000 LB/MHP-H CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
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NOTES -----

MODIFICATION -- INCREASED CAPACITY FROM 220 MMCFD TO 260 MMCFD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0069

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 420.00 MMCFD

COMPANY NAME/SITE LOCATION CHEVRON U.S.A. UINTA, WY

DETERMINATION IS PERMIT NO. CT-297 DATE OF PERMIT ISSUANCE-- 05/28/80
 DETERMINATION MADE BY WYOMING AQD ESTIMATED DATE OF START-UP-- 1983
 LEE GRIBOVICZ (307)-332-3144
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR PLANT & TGU, 3 EA	1000.00 T/D	CO COS H2S	220.0000 LB/H 460.0000 LB/H 8.2000 LB/H	BACT BACT BACT
REHEATER, STACK GAS, 3 EA	23.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	99.70 BACT
HEATER, GLYCOL STILL, 3 EA	10.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT
HEATER, PROCESS, 3 EA	62.50 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT
FURNACE, GAS, 3 EA	10.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT
BOILER, GAS, 6 EA	93.80 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN	BACT

NOTES -----
 CONSTRUCTED IN 3 PHASES. EACH PHASE CONSISTS OF PROCESSING TRAIN WITH A 1000 T/D SULFUR RECOVERY CAPACITY. TGU REPRESENTS A THERMAL GASIFICATION UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 REVIEW STATUS: INITIAL REVIEW POST STARTUP
 ID NUMBER WY-0009 SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCFD

COMPANY NAME/SITE LOCATION CIG , WY SWEETWATER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. CT-58
 DETERMINATION MADE BY WYOMING AQD (AGENCY)
 LEE GRIEVOVICZ (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 08/25/76
 ESTIMATED DATE OF START-UP-- 1977
 (307)-332-3144 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
THERMAL GASIFICATION UNIT STACK				
BOILER, GAS, 2	48.40 MMBTU/H	SO2	0.1350 % V AT 0% O2, DRY BASIS 3 STAGE CLAUSS & AMMONIA ABSORPTION	BACT 98.90
		NOX	0.2000 LB/MMBTU DESIGN	SIP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 3.09 MMCFD

COMPANY NAME/SITE LOCATION CRYSTAL EXPLORATION CO. MARATHON TWP, MI LAPEER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 11/30/82
 PERMIT NO. 238-80E ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY MICHIGAN DNR GREGORY EDWARDS (517)-322-1333
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SWEETENING FACILITIES	3.09 MMCF/D	H2S	96.0000 % REMOVAL FROM ACID GAS STRM	96.00
		SO2	TWO STAGE CAUSTIC SCRUBBER	
			1350.0000 LB/D	
			SOUR GAS INCINERATOR	99.50

NOTES -----
 MICHIGAN REGULATIONS REQUIRE BACT FOR ALL NEW NATURAL GAS SWEETENING FACILITIES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/19/1984
 ID NUMBER MI-0029 SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 1642.50 MMSCF/YR

COMPANY NAME/SITE LOCATION CRYSTAL OIL CO. HOSSTON, LA CADDO PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/19/83
 PERMIT NO. PSD-LA-510 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY LAGD/EPA REGION VI NAN KILLEEN (504)-342-8940
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 FLARE, #3-81 300.00 BTU/SCF S02 144.4800 LB/H CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

NOTES -----
 NO APPLICABLE NSPS FOR GAS PROCESSING PLANTS. PERMIT INCLUDES PROVISION FOR RE-EVALUATION OF BACT, DEPENDING UPON H2S CONTENT OF SOUR GAS STEAM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: SOURCE TYPE CODE 5.12
 ID NUMBER LA-0046
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

60.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION DELHI GAS PIPELINE CORP.

ATHENS, TX

HENDERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8628

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/29/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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GAS PROCESSING PLANT - SULFUR	37.70 LT/D	SO2	92.9000 T/YR 400.0000 PPM	
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3 STAGE CLAUS PLANT/SCOT TAIL GAS

99.70

GAS PROCESSING PLANT - GAS	60 00 MMCF/D	H2S	1.3000 T/YR 10.0000 PPM	
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NOTES -----
CONCENTRATIONS OF SO2 AND H2S ARE CALCULATED ON A DRY, OXYGEN FREE BASIS AT INCINERATOR EXIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1982

INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0096

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 11.50 MMCFD

COMPANY NAME/SITE LOCATION ENDERCO

GARLAND, AR

MILLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-704-A

DETERMINATION MADE BY

ARKANSAS DEP

(AGENCY)

CECIL HARRELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/83

ESTIMATED DATE OF START-UP-- 1983

(501)-562-7444

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

AMINE SWEETENING CLAUS

11.50 MMCFD

S02

155.0000 LB/H CLAUS PLANT

BACT 90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER AR-0011

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

15.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION ETEXAS PRODUCERS GAS CO.

, TX

SMITH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X-3832

DETERMINATION MADE BY TEXAS ACB

(AGENCY)

JENNIFER SEINFELD

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/05/82

ESTIMATED DATE OF START-UP-- 1983

(512)-451-5711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

HOT OIL HEATER

2.26 MMSTU/H

NOX

2.1000 T/YR

SWEET NAT GAS FIRED

AP42

REGENERATION HEATER

1.31 MMSTU/H

NOX

1.4000 T/YR

SWEET NAT GAS FIRED

AP42

COMPRESSOR

700.00 HP

VOC

3.0000 T/YR

4.4000 G/HP-H

67.0000 T/YR

10.0000 G/HP-H

9.0000 T/YR

1.4000 G/HP-H

FLARE, EMERGENCY

VOC

24.0000 T/YR

AP42

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0123

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 600.00 MMSCFD

COMPANY NAME/SITE LOCATION EXXON CO., USA

, WY

LINCOLN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-544

DETERMINATION MADE BY WYOMING AQD

(AGENCY)

LEE GRIBOVICZ

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/22/84

ESTIMATED DATE OF START-UP-- 1986

(307)-332-3144

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

INCINERATOR, SULFUR PLANT

SELEXOL VENT #1 SEE NOTE #2 S02 233.4000 LB/H SEE NOTE #1 3 STAGE CLAUS PLUS SCOT BACT 99.70

SELEXOL VENT #2

NMHC 464.8000 LB/H BACT
H2S 29.5000 LB/H BACT
COS 602.5000 LB/H BACT

BOILER, 3 EA

26.00 MMSTU/H NMHC 67.8000 LB/H BACT
H2S 4.3000 LB/H BACT
COS 87.9000 LB/H BACT

NOX 0.1700 LB/MMBTU

DESIGN

NOTES -----

NOTE #1 - BASED ON MAX ALLOWABLE PROCESS RATE OF 275.0 MMSCFD PER PROCESS TRAIN. NOTE #2 - TOTAL EMISSIONS FROM VENTS BASED ON TWO 275.0 MMSCFD PROCESS TRAINS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER WY-0014

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCFD NAT GAS

COMPANY NAME/SITE LOCATION EXXON CO., U.S.A. GILMER, TX UPSHAW COUNTY
6 MI. N. GILMER W. HWY 271

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/09/82
PERMIT NO. (REGION FILE NO.) PSD-TX-362 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) JOHN BUNYAK (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIETHENOLAMINE (DEA) REGEN.	4.50 MMBTU/H	SO2	0.0004 LB/MMBTU NAT. GAS AS FUEL	
GLYCOL RECONCENTRATOR	0.72 MMBTU/H	SO2	0.0003 LB/MMBTU NAT. GAS AS FUEL	
FLARE		SO2	129.3500 LB/H SMOKELESS,NO OTHER TECH. FEAS.	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCFD

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP. NEAR ARTESIA, NM

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/10/81
 PERMIT NO. NM-389 ESTIMATED DATE OF START-UP-- 1991
 DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID SHANKAR ANANTHAKRISHNA
 (AGENCY) (AGENCY CONTACT PERSON)
 (505)-984-0020
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE	
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE	
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE	

NOTES -----
 STACK TESTS, EPA REF. METHOD 20, WERE PERFORMED ON ALL THREE ENGINES & THE ACTUAL EMISSIONS WERE 2.01 G/HP-H, 2.6 G/HP-H, & 3.28 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 200.00 MMCFD

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP.

BRIDGEPORT, TX

WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9534

DETERMINATION MADE BY TEXAS ACB

(AGENCY)

KAREN HORNE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/85

ESTIMATED DATE OF START-UP-- 1985

(512)-451-5711

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COMPRESSOR ENGINE, 3 EA, MEP-8 200.00 MMCFD

NOX

4.0000 G/HP-H

BACT

CO

2.0000 G/HP-H

VOC

0.3200 G/HP-H

TURBOCHARGED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION MAPCO PRODUCTION CO. NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-NM-576

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/14/83
ESTIMATED DATE OF START-UP-- 1983
(505)-984-0020
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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ACID GAS FLARE	7.50 MMSCFD	SO2	703.0000 LB/H DIETHANOL AMINE UNIT	
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ENGINE, I.C. COMPRESSOR	446.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
-------------------------	-----------	-----	---------------------------------	--

ENGINE, I.C. COMPRESSOR	670.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
-------------------------	-----------	-----	---------------------------------	--

ENGINE, I.C. COMPRESSOR	507.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
-------------------------	-----------	-----	---------------------------------	--

ENGINE, I.C. COMPRESSOR	278.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
-------------------------	-----------	-----	---------------------------------	--

NOTES -----
STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON ALL FOUR ENGINES & EMISSIONS WERE 7.1 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NM-0007

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

7.10 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

, WY

PARK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-479

DETERMINATION MADE BY

WYOMING AGD

(AGENCY)

CHUCK COLLINS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/20/83

ESTIMATED DATE OF START-UP-- 1984

(307)-777-7391

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

STILL, GLYCOL

0.76 MMBTU/H

NOX

0.2000 LB/MMBTU

SIP

HEATER, HOT OIL

14.20 MMBTU/H

NOX

0.2000 LB/MMBTU

SIP

INCINERATOR, SULFUR PLANT

2.50 MMBTU/H

SO2

79.8000 LB/H

31.9000 LB/MMBTU

BACT

5 LTD CLAUS

90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER WY-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 12.50 MMCFD

COMPANY NAME/SITE LOCATION MOUNTAIN FUEL SUPPLY UINTA, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. CT-117
 DETERMINATION MADE BY WYOMING AQD
 (AGENCY)

LEE GRIBOVICZ
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/01/78
 ESTIMATED DATE OF START-UP-- 1980
 (307)-332-3144
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

INCINERATOR, SULFUR PLANT

S02 0.1830 % V AT 0% O2, DRY BASIS
 CO 0.0523 % V AT 0% O2, WET BASIS
 ? STAGE CLAUS PLUS CBA

BACT
 BACT
 98.60

TURBINE, GAS, 2 EA 788.00 HP

CO 0.0072 % V AT 0% O2, WET BASIS
 DESIGN

BACT

NOTES -----

BACT ANALYSIS - SCOT VS. CBA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

NATURAL GAS/GASOLINE PROCESSING PLANTS

KENAI, AK

PACIFIC ALASKA LNG ASSOCIATES

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 8423-AA002
 DETERMINATION MADE BY ALASKA DEC
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 01/30/84
 ESTIMATED DATE OF START-UP-- 1987
 (907)-465-2666
 (PHONE)
 DAVE ESTES
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

HEATER, PROCESS, GAS FIRED, 5

NOX 38.0000 NG/J
 0.0900 LB/M1BTU
 LOW NOX BURNERS

BACT

NOTES -----
 THIS BACT DETERMINATION RESULTED FROM AN 18 MONTH REQUEST FOR EXTENSION AT A FACILITY PREVIOUSLY PERMITTED BY EPA REGION 10.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/13/1984

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ID NUMBER AK-0006

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILADELPHIA GAS WORKS

PHILADELPHIA, PA

PHILADELPHIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 78PA03

DETERMINATION MADE BY EPA REGION III (AGENCY)

VERNON BUTLER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/15/79
ESTIMATED DATE OF START-UP--
(215)-597-2711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BOILER

110.00 MMBTU/H

PM

5.4000 LB/H

SO2

75.0000 LB/H

BACT

STRETFORD

LOW S FUEL

NOX

74.0000 LB/H

BACT

STORAGE TANKS

1.00 MMBBL/YR

VOC

91.0000 T/YR

DBL SEALS, FLOAT. ROOF TANKS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

30.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.

, ND

WILLIAMS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.

DATE OF PERMIT ISSUANCE-- 10/25/82
ESTIMATED DATE OF START-UP-- 1983
(701)-224-2348
(PHONE)

DETERMINATION MADE BY NORTH DAKOTA SHD
(AGENCY)

GARY HELBING
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INCINERATOR STACK

30.00 MMCF/D

SO2

93.3000 LB/H

CL4US PLANT

BACT

98.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER ND-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
HWY 126 15 MI. S. OF MALJAMAR MALJAMAR, NM LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-389 DATE OF PERMIT ISSUANCE-- 10/08/81
DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
(AGENCY) JOHN BENHAM (214)-767-1594
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR, 2 EA	585.00 HP EA	NOX	11.0000 G/HP-H AIR/FUEL RATIO	BACT

NOTES -----
2 INTERNAL COMBUSTION COMPRESSOR ENGINES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER NM-0003 SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
PHILLIPS BUILDING BARTLESVILLE, TX 74009

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/30/80
PERMIT NO. (REGION FILE NO.) PSD-TX-314 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR ENGINES	650.00 HP EA	NOX	12.4000 G/HP-H AIR/FUEL RATIO	BACT
TURBINE COMPRESSOR ENGINES	3000.00 HP EA	NOX	1.8000 G/HP-H NORMAL OPERATION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER TX-0045 SOURCE TYPE CODE 5.12
PAGE G- 548

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

40.00 MMSCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION PIONEER GAS PRODUCTS CO.

FRITCH, TX

POTTER COUNTY

DETERMINATION IS BACT

PERMIT NO. 9478

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

E. KASPRZYK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/11/84
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHCNE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GAS SWEETENING UNIT

40.00 MMSCFD

SO2
VOC

35.3000 T/YR
0.8000 T/YR

FLARE W/IGNITOR & PILOT

BACT
BACT

SO3
H2S

0.2000 T/YR
0.1000 T/YR

FLARE W/IGNITOR & PILOT

BACT
BACT

NOTES -----

SCC -- 3-10-002-01, SIC - 4922 COMPANY ADDRESS IS P.O. BOX 511, AMARILLO, TEXAS, 79136

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER TX-01F5

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PLACID OIL CO.
COMPRESSOR STATION A

GOLDONNA, LA

NATCHITOCHES PARISH

DETERMINATION IS BACT
PERMIT NO. PSD-LA-524
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

COMPRESSOR, NAT. GAS

4000.00 HP

NOX

147.2000 LB/H

645.0000 T/YR

VE

NO VISIBLE EMISSION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER LA-0056

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PLACID OIL CO.
COMPRESSOR STATION B

GOLDONNA, LA

NATCHITOCHES PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-525
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

COMPRESSOR, NAT. GAS 4000.00 HP

NOX

147.2000 LB/H

BACT

VE

645.0000 T/YR

NO VISIBLE EMISSION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER LA-0056A

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PLACID OIL CO.
COMPRESSOR STATION C

GOLDONNA, LA

NATCHITOCHES PARISH

DETERMINATION IS
PERMIT NO. PSD-LA-526
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION' LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COMPRESSOR, NAT. GAS

4000.00 HP

NOX

147.2000 LB/H

625.0000 T/YR

NO VISIBLE EMISSION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER LA-0056B

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PROCESS EQUIPMENT CORP.

MAYFIELD, MI

GRAND TRAVERSE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 613-81

DETERMINATION MADE BY MICHIGAN DNR

(AGENCY)

DAVID FERRIER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/23/82

ESTIMATED DATE OF START-UP-- 1982

(517)-322-1333

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

SOUR GAS SWEETENER

10.00 MMSCFD

S02

81.1000 LB/MMSCF

CLAUS UNIT

85.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

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ID NUMBER MI-0027

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 39.00 MMBTU/H

COMPANY NAME/SITE LOCATION REPUBLIC REFINING CO.

JOHNS, MS

RANKIN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-MS-037
DETERMINATION MADE BY MISSISSIPPI DNR
(AGENCY)

DWIGHT WILEY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/03/81
ESTIMATED DATE OF START-UP--
(601)-354-2550
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

NAT. GAS PROCESSING-SULFUR RECO* 50.00 MMCF/D

SO2

0.0030 LB/H EA
TREATED NAT. GAS FOR BOILERS

BACT

NOTES -----
TWO BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MS-0004

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION SHELL OIL CO. SECTION 10 FREDERIC TOWNSHIP, MI CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. PERMIT NO. 617-82 DATE OF PERMIT ISSUANCE-- 04/19/83 ESTIMATED DATE OF START-UP-- 1985 DETERMINATION MADE BY MICHIGAN DNR (AGENCY) LAURA STEINBERGER (517)-322-1333 (PHONE) (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

GAS SHEETING FACILITY 7.00 MMCF/D S02 3-STAGE CLAUD UNIT 184.0000 LB/H 540.0000 LB/H 93.50 99.90 GROUND LEVEL INCINERATOR

NOTES ----- 2ND ALTERNATE LIMIT - 2100 LB/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/19/1985 ID NUMBER MI-0031 SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 117.00 MMSCFD

COMPANY NAME/SITE LOCATION SID RICHARDSON CARBON & GASOLINE CO. KERMIT, TX WINKLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/14/81
 PERMIT NO. 2724 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY TEXAS ACB LES MONTGOMERY (512)-451-5711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

NATURAL GAS TREATING PLANT 117.00 MMSCFD S02 816.0000 T/YR
 SELECTOX S RECOV. UNIT 95.00

NOTES

SELECTOX SRU CATALYTICALLY OXIDIZES HYDROGEN SULFIDE EXTRACTED FROM RAW NATURAL GAS TO ELEMENTAL SULFUR. THIS UNIT IS A THREE
 STAGE PROCESS ACHIEVING AT LEAST 95% CONVERSION OF H2S. THE REMAINDER IS INCINERATED TO SO2.
 THIS IS A SMALL UNIT IN AN ISOLATED LOCATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

05/21/1985

COMPANY NAME/SITE	LOCATION	
UNION TEXAS PETROLEUM CORP.	BAIRD, TX	CALLAHAN COUNTY

DETERMINATION IS BACK FOR A NEW SOURCE.
 PERMIT NO. 9502
 DETERMINATION MADE BY TEXAS ACB
 (AGENCY)
 KAREN HORNE
 (AGENCY CONTACT PERSON)
 (512)-451-5711
 (PHONE)
 ESTIMATED DATE OF START-UP-- 1985
 DATE OF PERMIT ISSUANCE-- 01/25/85

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS SWEETENING	12.00 MMCFD			

COMPRESSOR ENGINE, 4 EA, WAUKES*	1042.00 HP		FLARE		
VOC		0.2000	G/HP-H	BACT	70.00
			CATALYST	BACT	70.00
NOX		5.0000	G/HP-H	BACT	70.00
			CATALYST	BACT	70.00
CO		3.2000	G/HP-H	BACT	70.00
			CATALYST	BACT	70.00

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INITIAL REVIEW POST STARTUP
REVIEW STATUS:
=====
ID NUMBER TX-0163
SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 2023010 A
 DETERMINATION MADE BY KERN COUNTY APCD
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 04/10/85
 ESTIMATED DATE OF START-UP--
 (805)-861-3682
 (PHONE)

TOM PAXSON
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

CO2 REMOVAL SYSTEM

VOC

I & M OF FUGITIVE EMISSION SOURCES

NOTES

MODIFICATION OF EXISTING CO2 REMOVAL SYSTEM, ADDITION OF 4 MEMBRANE MODULES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 10.00 MMCFD

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO.
20 MI. NW OF TATUM VADA, NM 88267 LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-156M-1 DATE OF PERMIT ISSUANCE-- 12/23/81
DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
(214)-767-1594
TOM DIGGS (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

ACID GAS FLARE 10.00 MMSCFD
S02 703.0000 LB/H
0.0016 LB/SCF
DIETHANOL AMINE UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. / INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER NM-0005 SOURCE TYPE CODE 5.12
PAGE G- 559

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCFD

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO. , NO BILLINGS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/12/83
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH DAKOTA SHD (701)-224-2348
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK		SO2	534.0000 LB/H CLAUS & CBA	BACT 98.60

NOTES -----
 THIS IS A MAJOR MODIFICATION OF AN EXISTING SOURCE, THE EXISTING SOURCE CURRENTLY PROCESSES 20 - 24 MMCF/D OF GAS WITH AN EMIS
 SION RATE LIMITED TO 269 LB/H. AFTER EXPANSION THE NEW SO2 EMISSION RATE WILL BE 534 LB/H & CAN HANDLE
 ABOUT ANOTHER 30 MMCF/D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER ND-0001 SOURCE TYPE CODE 5.12
 PAGE G- 560

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION WARREN RED. CO.

, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 2023008

DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

IVAN NEO
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/19/83
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. ENGINE, NATURAL GAS, 3 EA 2133.00 HP

NOX

69.0600 LB/D

CATALYTIC CONVERTOR

86.00

NOTES -----

STATE FILE # A330-020

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

PAGE 6- 561

ID NUMBER CA-0068

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING

COMPANY NAME/SITE LOCATION KERNRIDGE OIL CO.
BELRIDGE OIL FIELD , CA KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-26
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DON HARVEY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/14/81
ESTIMATED DATE OF START-UP--
(415)-974-8223
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN., 11 EA	50.00 MMBTU/H	SO2	0.0650 LB/MMBTU 1.2000 % S FUEL OIL	95.00 BACT
		NOX	0.2000 LB/MMBTU SO2 SCRUBBER W/ EDUCTOR/VENTURI	50.00 LAER
		PM	0.0570 LB/MMBTU LOW NOX BURNERS EXCESS O2 CONTROLLERS	50.00 LAER
		PM	0.0100 LB/MMBTU SO2 SCRUBBER W/ EDUCTOR/VENTURI	90.00 LAER
			SCRUBBER W/ ESP SECTION	
OIL WELL VENTS - EXISTING		VOC	NONE VAPOR RECOVERY	85.00
OIL WELL VENTS - NEW		VOC	NONE SHUT IN WELLS	100.00

NOTES -----
PM EMISSIONS FROM ONE OF THE UNITS WILL BE CONTROLLED WITH AN ESP WHICH IS AN INNOVATIVE TECHNOLOGY AS APPLIED TO THERMALLY ENHANCED OIL RECOVERY (TEOR).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE 6- 562
ID NUMBER CA-0009
REVIEW STATUS: 04/01/1985 04/04/1984
INITIAL REVIEW POST STARTUP-
SOURCE TYPE CODE 5.13

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 130.00 T/YR

COMPANY NAME/SITE LOCATION R.A. CHILDS , UT

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/08/82
 PERMIT NO. MIN 083182-5T ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY UTAH BAQ (801)-533-6108
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

DRUM DRYER 130.00 T/H PM 0.0200 GR/DSCF
 1.4900 LB/H
 VE 20.0000 % OPACITY VENTURI SCRUBBER 99.00

NOTES -----
 MCSILE ASPHALT PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER UT-0030 SOURCE TYPE CODE 5.13
 PAGE G- 563

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 30000.00 GAL
 COMPANY NAME/SITE LOCATION US OIL & REFINING CO. TACOMA, WA 98401
 3001 MARSHALL AVE.

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/15/83
 PERMIT NO. N/C 2455 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY PUGET SOUND APCA HARRY WATTERS (206)-344-7334
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASPHALT BLOW STILL, 2	15000.00 GAL EA	PM	0.0200 LB/T ASPHALT CHARGED	INCINERATOR	95.00
		S02	0.1000 GR/DSCF H2S IN FUEL GAS	CONTINUOUS MONITORING	

NOTES -----
 APPROVED NOTICE OF CONSTRUCTION AND TRANSMITTAL LETTER DATED 08/15/83. ASPHALT TRUCK LOADING RACK WITH HEAF CONTROL, AND 5 ASP
 HALT STORAGE TANKS WITH HIGH ENERGY AIR FILTER, HEAF, CONTROL.
 SOURCE CLAIMS CONFIDENTIALITY FOR DETAILS OF PROCESS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/13/1984
 ID NUMBER WA-0009
 SOURCE TYPE CODE 5.13

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION AMINOIL USA, INC.

HUNTINGTON BEACH, CA 92648

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-9 LA-82-01
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DAVID SOLOMON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/82
ESTIMATED DATE OF START-UP--
(415)-974-8240
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TURBINE & WASTE HEAT BOILER 6464.00 KW

SOX

14.0000 LB/H

FGD SYSTEM

BE

0.0000 LB/H

WET SCRUBBER & FGD SYSTEM

BACT

95.00

99.00

NOTES

36.0 BBLs/H OF 1.34% SULFUR CRUDE OIL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

PAGE G- 565

ID NUMBER CA-0035

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION BEREY HOLDING CO.
MIDWAY-SUNSET OIL FIELD

, CA

KERN COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-17
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DON HARVEY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(415)-974-8223
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COMPRESSOR, ROTARY SCREW, 2 EA 500.00 HP

VOC

690.0000 PPM (AS CARBON)

INCINERATION IN STEAM GENERATOR AT 2800 F

95.00

COMPRESSORS, RECIP. BOOSTER, 2 *

VOC

10.5000 LB/H 3/2 O2

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

PAGE 6- 566

ID NUMBER CA-0008

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.
P.O. BOX 5355 BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-8 SJ-79-32
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DATE OF PERMIT ISSUANCE-- 07/16/82
ESTIMATED DATE OF START-UP--
(415)-974-8215
BOB BAKER
(AGENCY CONTACT PERSON)
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 9 EA	390.00 GAL/H	SO2	18.8000 LB/H WET SCRUBBERS	BACT 90.00
		PM	3.6000 LB/H 1.5% S LIMIT ON FUEL OIL WET SCRUBBERS	LAER 50.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984
SOURCE TYPE CODE 5.14

ID NUMBER CA-0037

PAGE 6- 567

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 24.00 MCF

COMPANY NAME/SITE LOCATION EXXON CO NEW ORLEANS, MS HINDS COUNTY
P. O. BOX 60626

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/04/81
PERMIT NO. MS 030 ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY MISSISSIPPI DNR DWIGHT WILEY (601)-354-2550
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
TEST WELL 25.00 MCF/D S02 745.0000 T/D 30 D MAX 99.00
FLARE

NOTES -----
TEST FACILITY -- EXPECTED LIFE 120 DAYS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER MS-0001 SOURCE TYPE CODE 5.14
PAGE 6- 568

05/21/1985

COMPANY NAME/SITE LOCATION	GEOKINETICS INC., OIL SHALE	40 MILES S. VERNAL, UT
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR	650.00 HP			

GENERATOR	650.00 HP	NOX	38.9000 LB/H	DESIGN		BACT
		VE	20.0000 %	OPACITY		0.00
INCINERATOR	100.00 BBL/D	NOX	45.1000 LB/H	NONE		BACT
		S02	135.3000 LB/H	NONE		0.00
		VE	20.0000 %	OPACITY		0.00

NOTES -----
3.5 YR OPERATION, LIMITED EXPERIMENTAL VARIANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL REVIEW	POST STARTUP
REVIEW STATUS:	04/01/198	
ID NUMBER UT-0007	SOURCE TYPE CODE	5.14

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 5000.00 HP

COMPANY NAME/SITE LOCATION GETTY OIL CO. , CA KERN COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/00/84
 PERMIT NO. 4003571-573 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY KERN COUNTY APCD (805)-861-3682
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 TURBINE, GAS 5000.00 HP NOX 182.0000 LB/D H2O INJECTION, 0.8-1 LAER
 60.00

NOTES -----
 OPERATIONS - - - 24 H/D, 7 D/WK, 52 WK/YR. GAS TURBINE FOLLOWED BY WASTE HEAT RECOVERY STEAM GENERATOR FOR TEOR OPERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 09/01/1984 09/01/1984
 ID NUMBER CA-0080 SOURCE TYPE CODE 5.14
 PAGE G- 570

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION MOBIL OIL

, CA

KERN COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 4011216,-7

DETERMINATION MADE BY KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/01/84

ESTIMATED DATE OF START-UP--

(805)-861-3682

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

VAPOR CONTROL SYS, 2, WELL VENT*

VOC

1030.0000 LB/D

INCINERATOR

LAER

99.00

NOTES -----

COST FIGURES WERE BASED ON KCAPCD EMISSIONS FACTORS, RCVD HC NOT INCLUDED. OPERATES 24 H/D, 365 D/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER CA-0100

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.14

05/21/1985

COMPANY NAME/SITE LOCATION	MOBIL OIL
CA	KERN COUNTY

DATE OF PERMIT ISSUANCE-- 09/01/84
ESTIMATED DATE OF START-UP--
(605)-661-3682
(PHONE)

TOM PAXSON
(AGENCY CONTACT PERSON)

THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL
------------------------	----------------------	----------------------------

... & BASIS
... PCT EFF

304

GOOD COMBUSTION

LAER

OPERATES 24 H/D, 7 D/WK, 42 WK/YR

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

ID NUMBER CA-0108

SOURCE	TYPE	CODE	5.14
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
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7	7	7	7
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87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
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94	94	94	94
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96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 225.00 MMSCFD

COMPANY NAME/SITE LOCATION MOBIL OIL EXPLORATION , AL MOBILE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. AL-078
 DETERMINATION MADE BY ALABAMA APCD (AGENCY)
 SUE ROBERTSON (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/16/81
 ESTIMATED DATE OF START-UP--
 (205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS
NAT. GAS SULFUR REMOVAL	225.00 M ³ /SCFD	SO ₂	200.0000 LB/H EA	CLAUS AND SCOT TAIL GAS REMOVAL	BACT 99.86
DIESEL ENGINES, 4 RIGS	1100.00 HP/ENGINE	CO	9.4000 LB/H-RIG		
			NONE		
		SO ₂	7.3000 LB/H-RIG		
			LOW S FUEL		
		NOX	71.6000 LB/H-RIG		
			NONE		
		PM	3.4000 LB/H-RIG		
			NONE		
SUPPLEMENTAL BOILER	50.00 M ³ BTU/H	NOX	0.2000 LB/M ³ BTU	STAGED COMBUSTION & LOW EXCESS AIR	54.00
		SO ₂	1.0000 LB/H	LOW S FUEL	
SULFUR DEPOT BOILER	5.00 M ³ BTU/H	NOX	0.2000 LB/M ³ BTU	STAGED COMBUSTION & LOW EXCESS AIR	37.00
		SO ₂	2.2000 LB/H	LOW S FUEL	
TURBINE GENERATOR, GAS-FIRED	7.50 MW	NOX	175.0000 PPM BY VOL.		
			NONE		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER AL-0010
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.14

(CONTINUED) MOBIL OIL EXPLORATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
PLATFORM GENERATOR, 5 EA, GAS F*	661.00 HP/ENGINE	S02	1.0000 LB/H LOW S FUEL	
		NOX	146.0000 LB/H-PLATFORM NONE	
		CO	146.0000 LB/H-PLATFORM NONE	
		S02	1.0000 LB/H-PLATFORM LOW S FUEL	

NOTES -----
DRILLING PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW	POST STARTUP
REVIEW STATUS: 04/01/1983	
ID NUMBER AL-0010	SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 1.00 MBL/D

COMPANY NAME/SITE LOCATION OXY-LOGAN WASH MODIF.1980 NEAR DE BEQUE, CO GARFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/27/80
 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VIII JOHN DALE (303)-837-3763
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BOILER, ETC

CO	2.0000 LB/H		BACT
VOC	3.0000 LB/H		BACT
NOX	52.0000 LB/H	CONDENSER	BACT
PM	7.0000 LB/H	CONDENSER	BACT
SO2	31.0000 LB/H	DUST CONTROL	50.00
RETORT	1000.00 BBL/D		
CO	3640.0000 LB/H		BACT
VOC	154.0000 LB/H		BACT
H2S	376.0000 LB/H	CONDENSER	60.00
			BACT

NOTES -----
 OPERATION OVER IN 1982

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER CO-0009
 REVIEW STATUS: 04/01/1983
 INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION PARAHO DEVELOPMENT CORP.

, UT

UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 11/16/82
ESTIMATED DATE OF START-UP-- 1990
DETERMINATION MADE BY UTAH BAQ (801)-533-6108
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

DONALD ROBINSON
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOLTING, SCALING, HANDLING, DRI*	75000.00 T/D SHALE	FUG*	WATER SPRAYING	50.00
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BLASTING	54000.00 LB ANFO/D	CO NOX FUG*		
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CRUSHING	75000.00 T/D	PM	0.0150 GR/DSCF BAGHOUSE	50.00
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IN MINE TRANSFER	75000.00 T/D	PM	0.0150 GR/DSCF BAGHOUSE	99.90
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MINE MOBILE EQUIPMENT	11730.00 GAL/D DIESEL*	PM	11.0000 LB/MGAL SETTLING	99.00
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		NOX	395.2000 LB/MGAL CATALYTIC CONVERTER	50.00
		SO2	31.2000 LB/MGAL	10.00
		VOC	2.8000 LB/MGAL	90.00
		CO	4.5000 LB/MGAL CATALYTIC CONV.	95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[illegible]

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(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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PAGE 6- 577
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ID NUMBER UT-0024
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SOURCE TYPE CODE 5.14
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INITIAL REVIEW POST STARTUP
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REVIEW STATUS: 04/01/1933
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(CONTINUED) PARAHIO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PACKAGE BOILER	14.50 M ³ BTU/H #2 *	PM	2.0000 LB/MGAL	
		SO2	0.5000 % S CONTENT	
		CO	5.0000 LB/MGAL	
		VOC	1.0000 LB/MGAL	
		NOX	22.0000 LB/MGAL	
STORAGE TANKS, 4	53000.00 BBL	VOC	INTERNAL FLOATING ROOF & PRIMARY SEAL	95.00
CRUDE SHALE OIL STORAGE TANKS, 7 150000.00 BBL		VOC	EXT. FLOAT. ROOF W/PRIMARY & SEC. SEAL	95.00

NOTES -----

.015 PM LIMITATION IS FOR LARGER BAGHOUSES ON CRUSHERS. PMR. GEN. - 3 STACKS GAS TURBINE & WASTE HEAT BOILER EA. BOILERS PROVI
DE 36.73% HEAT INPUT. 9 OTHER TANKS WILL CONTAIN EITHER #2 FUEL OIL, PROPANE (CRYOGENIC) , DIESEL FUEL CR
GASOLINE. NONE OF THEM SUBJECT TO NSPS. SO2 EMISSIONS FROM POWER GENERATION FACILITIES INCLUDE RETORT OFF GAS AND WASTE WATER
TREATE ACID GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
	REVIEW STATUS: 04/01/1983	
PAGE 6- 578	ID NUMBER UT-0024	SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 2.00 MMBL/D

COMPANY NAME/SITE LOCATION RIO BLANCO OIL SHALE-#1 NEAR RANGELY, CO RIO BLANCO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 12/20/81
 DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
 (AGENCY) (303)-837-3763
 JOHN DALE (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 BOILERS	198.00 MMBTU/H	NOX	39.6000 LB/H	BACT
HEATER	5.00 MMBTU/H	NOX	1.0000 LB/H	BACT
LURGI RETORT	2000.00 BBL/D OIL S*	NOX	127.0000 LB/H	BACT
		SO2	18.0000 LB/H	BACT
		PM	39.8000 LB/H	BACT
			RETENTION ESP	99.80
ORE CONV-STKPILE	4400.00 T/D SHALE	PM	0.4000 LB/H	BACT
			BAGHOUSE	99.00
ORE TRANSFER	4400.00 T/D SHALE	PM	0.4000 LB/H	BACT
			BAGHOUSE	99.00
ORE LOADOUT	4400.00 T/D SHALE	PM	0.0800 LB/H	BACT
			BAGHOUSE	99.00
PRIM. CRUSH/SCR	4400.00 T/D SHALE	PM	0.2400 LB/H	BACT
			BAGHOUSE	99.00
PROC SHALE TRANS.,FEED	4400.00 T/D SHALE	PM	0.4000 LB/H	BACT
			BAGHOUSE	99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER CO-0013
 SOURCE TYPE CODE 5.14
 PAGE G- 579

(CONTINUED) RIO BLANCO OIL SHALE-#1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROC SHALE TRANS. DISP	4400.00 T/D SHALE	PM	0.4000 LB/H BAGHOUSE	BACT 99.00
SEC. CRUSH/SCR	4400.00 T/D SHALE	PM	0.3200 LB/H BAGHOUSE	BACT 99.00
PROD. GAS INC/SCRUB	70.00 MMSTU/H	SO2	9.7000 LB/H SCRUBBER	BACT 80.00
		NOX	24.0000 LB/H	

NOTES -----
THREE YEAR OPERATION PLANNED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
PAGE G- 500 ID NUMBER CO-0013 SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 50.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS TAR SANDS, LTD LARRYOR, TX MAVERICK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/24/82
 PERMIT NO. 9075 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY TEXAS ACB JAMES CROCKER (512)-451-5711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR	50.00 MMBTU/H	PM	0.0940 LB/MMBTU FABRIC FILTER	99.30
		SO2	1.2000 LB/MMBTU LIMESTONE INJECTION	78.00
COAL & LIMESTONE STORAGE/HANDLI*		PM	1.3000 LB/H DUST CONTROL SYSTEM	

NOTES -----
 THIS IS A COAL FIRED SYSTEM. EMISSIONLIMITS ARE BACT, DETERMINED BY TECHNOLOGY & ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0085 SOURCE TYPE CODE 5.14
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 45.00 HBBL/D

COMPANY NAME/SITE LOCATION TOSCO OIL SHALE-1981 NEAR BONANZA, UT UTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/09/81
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VIII (303)-837-3763
 (AGENCY) JOHN DALE (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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2 AUX BOILERS

CO	2.9000 LB/H			BACT
NOX	18.0000 LB/H	DESIGN		BACT
PM	3.2000 LB/H			BACT
SO2	8.0000 LB/H			BACT
	LOW S COAL			

FEED HEATER

CO	1.1000 LB/H			BACT
NOX	7.0000 LB/H			BACT
PM	1.2000 LB/H			BACT
SO2	3.1000 LB/H			BACT
PM	20.6000 LB/H			BACT
	14.9000 LB/H	SETTLING		

MINE VENTS

OIL REBOILER

CO	1.5000 LB/H			BACT
NOX	9.1000 LB/H			BACT
PM	1.6000 LB/H			BACT
SO2	4.0000 LB/H			BACT
	LOW S FUEL			

ORE STORAGE

PM	4.7000 LB/H	BAGHOUSE		BACT
				99 %

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

(CONTINUED) TOSCO OIL SHALE-1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECL TUNNEL		PM	6.2000 LB/H BAGHOUSE	BACT 99.70
SEC CRUSHER		PM	36.6000 LB/H BAGHOUSE	BACT 99.70
SPENT SHALE STOR	45.00 MMBL/D	PM	7.9000 LB/H WATER	BACT 50.00
2 SO2 REC.PLANTS		SO2	92.2000 LB/H CLAUS & TAILGAS	BACT 99.60
4 REFORM FURN		CO	10.8000 LB/H	BACT
		NOX	90.3000 LB/H	BACT
		PM	12.0000 LB/H	BACT
		SO2	30.1000 LB/H LOW S FUEL	BACT
6 ELUTRIATORS		NOX	15.8000 LB/H	BACT
		PM	42.0000 LB/H	BACT
		SO2	5.3000 LB/H SCRUBBER	99.99 BACT
6 PROCESS SHALE WET		PM	43.2000 LB/H SCRUBBER	BACT 98.40
6 PREHEAT STK		VOC	303.0000 LB/H INCINERATOR	BACT 85.00
		NOX	1588.2000 LB/H	BACT
		PM	90.0000 LB/H	BACT
		SO2	62.5000 LB/H SCRUBBER ABSORPTION	99.99 BACT 95.00

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 10.00 MMBL/D

COMPANY NAME/SITE LOCATION UNION OIL SHALE #1 NEAR PARACHUTE, CO GARFIELD COUNTY

DETERMINATION IS PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/27/81
 DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
 (AGENCY) (303)-837-3763
 JOHN DALE (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H2 CHG HTR	24.00 MMSCFD	NOX	2.8000 LB/H DESIGN	BACT
DEARSENITER PURGE HTR		NOX	1.8000 LB/H DESIGN	BACT
DEARSENITER CHARGE HTR		NOX	2.3000 LB/H DESIGN	BACT
FRACT CHG HTR		NOX	2.5000 LB/H DESIGN	BACT
REFORMER FURN		NOX	53.1000 LB/H DESIGN	BACT
STEAM BOILER		NOX	12.0000 LB/H DESIGN	BACT
SULFUR REC.UNIT	12.00 T/D	SO2	300.0000 PPM 1.9000 LB/H CLAUS & TAILGAS	BACT 99.90 BACT 99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 106000.00 BPSD

COMPANY NAME/SITE LOCATION WHITE RIVER SHALE OIL CORP. BONANZA, UT UTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/04/82
 PERMIT NO. MAJ 053082-IT ESTIMATED DATE OF START-UP-- 1988
 DETERMINATION MADE BY UTAH BAC CARL BROADHEAD (801)-533-6108
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
IN-MINE PRIMARY CRUSHING	89000.00 TPSD	PM	WET SUPPRESSION	80.00
CRUSHING & SCREENS	176000.00 TPSD	PM	0.0200 GR/DSCF BAGHOUSE	99.70
MINE CONVEYOR SURGE BIN	176000.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
MINE CONVEYOR TRANSFER POINTS	176000.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
FEED TO STORAGE SILOS	176000.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
SURFACE CRUSHING & SCREENS	176000.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
FINES CONVEYOR, POINTS TRANSFER	900.00 TPSD	VE	20.0000 % OPACITY WET SUPPRESSION	80.00
CONVEYORS		PM	0.0130 GR/DSCF FULLY COVERED	90.00

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER UT-0025 SOURCE TYPE CODE 5.14

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UNION RETORT SILO FEED	46400.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
SUPERIOR RETORT SILO FEED	112000.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
TOSCO RETORT SILO FEED	18500.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
UNION PROCESSED CONVEYOR SHALE	39550.00 TPSD	VE	20.0000 % OPACITY FULLY COVERED CONVEYORS 20% MOISTURE	99.00
SUPERIOR PROCESSED CONVEYOR SHA*	84000.00 TPSD	VE	20.0000 % OPACITY FULLY COVERED CONVEYORS 20% MOISTURE	99.00
MAIN ACCESS ROADS		PM	PAVING	95.00
2ND LIGHT DUTY ROADS		PM	MINIMIZE CHEMICAL SUPPRESSION	75.00
TOSCO PROCESSED CONVEYOR SHALE	15000.00 TPSD	PM	MINIMIZE 20% MOISTURE COVERED CONVEYORS	99.00
PROCESSED SHALE CONVEYOR TRANSF*	149500.00 TPSD	VE	20.0000 % OPACITY 15 % MOISTURE ENCLOSED	99.00
PROCESSED SHALE DISPOSAL	149500.00 TPSD	PM	MINIMIZE CHEM. DUST SUPPRES. COMPACT., REVEG.	85.00
LOAD IN	149500.00 TPSD	VE	20.0000 % MINIMIZE 15% WATER	80.00
GROOMING	112.00 SCRAPER H/D	VE	20.0000 % OPACITY WATERING	50.00
WIND EROSION	30.00 ACRE	PM	MINIMIZE COMPACT. REVEG. & CHEM. DUST SUPPRES.	85.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LOAD IN, RAW SHALE STOCKPILE	5000.00 TPSD	PM	MINIMIZE LOWERING WELL	75.00
LIVE STORAGE WIND EROSION, RAW * 175000.00 T		PM	MINIMIZE WATER SPRAYS	50.00
GROOMING, RAW SHALE STOCKPILE	5000.00 TPSD	PM	MINIMIZE WATER SPRAYS	50.00
DEAD STORAGE WIND EROSION, RAW *	2.80 MMT	PM	MINIMIZE CHEMICAL SEALING & COMPACTION	
PHASE III-UNION B RECYCLE GAS H*	960.00 MMBTU/H	PM	0.0210 LB/MMBTU 5.0000 LB/H STACK 0.0230 LB/MMBTU 5.5000 LB/H STACK	
		NOX	TREATED GAS & UPGRADED SHALE OIL 0.0220 LB/MMBTU 53.1000 LB/H STACK LOW NOX BURNERS	
PHASE III - HYDRO TREATER REACT*	150.00 MMBTU/H	PM	0.0200 LB/MMBTU 2.6000 LB/H STACK 0.1600 LB/MMBTU 10.0000 LB/H STACK	
		NOX	CLEANED & TREATED HIGH BTU FUEL GAS 0.2600 LB/MMBTU 39.0000 LB/H STACK	
TOSCO PREHEAT & BALL HEATERS	479.00 MMBTU/H	PM	0.0240 GR/DSCF 22.5000 LB/H STACK VENTURI SCRUBBER	99.50
		SO2	0.0020 GR/DSCF 0.5000 LB/H STACK	
		NOX	TREATED FUELS 0.2200 GR/DSCF 51.9000 LB/H STACK LCA-NOX BURNERS	50.00
BOILER & POWER PLANTS (3 STK)	2438.00 MMBTU/H			

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAME PROCESS (CONTINUED)

PM		0.0300 LB/MMBTU		
		73.2000 LB/H		
SO2		0.0700 LB/MMBTU		
		166.9000 LB/H		
		FGD		
		CLEANED & TREATED FUEL GAS, UPGRADED SHALE OIL		80.00
NOX		0.2000 LB/MMBTU		
		487.5000 LB/H		

H2 PLANT REFORMER FURNACE 2058.00 MMBTU/H

PM		0.2000 LB/MMBTU		
		25.8000 LB/H		
SO2		0.0070 LB/MMBTU		
		9.0000 LB/H		
		CLEANED, TREATED & UPGRADED FUELS		
NOX		0.2100 LB/MMBTU		
		267.8000 LB/H		
		LOW-NOX BURNERS		25.00

NAPTHA & CRUDE STORAGE TANKS

VOC		FLOATING ROOF TANKS W/DBL SEALS		
-----	--	---------------------------------	--	--

GAS TREATMENT PLANT, 3 UNITS 28.00 MMBTU

SO2		250.0000 PPMV AT 0% O2		
PM				

TREATED HIGH BTU FUEL GAS

FUEL GAS TREATED HIGH BTU

NOX				
H2S		0.1000 GR/DSCF		
I.S.*		0.4500 GR/DSCF		
NH3		10.0000 PPMV		

FUEL GAS TREATED LOW BTU

S		75.0000 PPMV		
NH3		10.0000 PPMV		

NOTES -----

THE FEASIBILITY APPROVAL ORDER IS BASED ON BACT AS OF 1982. THIS IS A PHASE CONSTRUCTION PROJECT. EACH UNIT OF EACH PHASE WILL BE PERMITTED BASED ON THE "THEN CURRENT" BACT. TPSD = TON PER STREAM DAY
DIESEL FUEL SULFUR LIMIT - 0.20% BY WT. FUEL OIL - S = 20 PPMV, NH3 = 1500 PPMV.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER UT-0025

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

100000.00 LB/D

OIL AND GAS FIELD SERVICE

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION DRILMUD CO.

, TX

FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X-3973

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

ROBERT MAUEL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/22/81
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SILO & LOADING

100000.00 LB/D

BAR*

0.1000 LB/H

SHOP MADE FABRIC FILTER

99.10

VENT HOUSE TRAFFIC

PM

0.9000 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0116

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 3000.00 BBL/D

COMPANY NAME/SITE LOCATION NORTH BELRIDGE DEHY FACILITY

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 4012304A KERN COUNTY APCD
DETERMINATION MADE BY (AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/25/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY 3000.00 BBL/D

POLLUTANT
EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DEHYDRATION & LOADING, CRUDE OIL 3000.00 BBL/D

VOC 177.2000 LB/D SEE NOTE
VAPOR CONTROL SYSTEM

BACT
99.00

NOTES -----

NOTE - INCLUDING 111.9 LB/D OF FUGITIVE HYDROCARBONS. THIS OPERATION RUNS 24 H/D, 365 D/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER CA-0078

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE

COMPANY NAME/SITE LOCATION SHELL CALIFORNIA PRODUCTION, INC.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 40123048
 DETERMINATION MADE BY KERN COUNTY AFCD
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 10/05/84
 ESTIMATED DATE OF START-UP--
 (805)-851-3682
 (PHONE)

TOM PAXSON
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY
 3000.00 BBL/D

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

CRUDE OIL STORAGE & DEHYDRATION

VOC

175.3000 LB/D

VAPOR CONTROL SYS

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0078A

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 306.00 MMGAL/YR

COMPANY NAME/SITE LOCATION SIGMOR PIPELINE CO. SAN ANTONIO, TX BEXAR COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/27/78
 PERMIT NO. 6348 ESTIMATED DATE OF START-UP-- 1979
 DETERMINATION MADE BY TEXAS ACS (AGENCY) SAM CROWTHER (PHONE) (512)-451-5711
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GASOLINE LOADING 3 RACKS (12 SP*)	306.00 MMGAL/YR	VOC	23.6000 T/YR 0.1250 LB/MGAL VOC CARBON ADSORPTION	AP42 97.50
DIESEL/KERO LOADING	153.00 MMGAL/YR	VOC	14.1000 T/YR BOTTOM LOADING (SEE NOTE)	AP42 0.00
STORAGE TANKS (7)	217.00 MGAL	VOC	25.0000 T/YR JNT. FLOAT COVERS, WHITE TANKS	AP42 97.00
FUGITIVE VOC		VOC	12.0000 T/YR NONE	0.00

NOTES -----
 CARBON ADSORPTION UNIT PURCHASE PRICE = \$240,000 NOTE - BOTTOM LOADING IS CONSIDERED UNCONTROLLED, FUGITIVE VOC ESTIMATED ONLY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0068 SOURCE TYPE CODE 5.15
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 200.00 UNITS/YR

COMPANY NAME/SITE LOCATION SOUTHWESTERN BARGE FLEET SERVICE, INC. HIGHLANDS, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9442

DETERMINATION MADE BY TEXAS ACB (AGENCY)

LOUIS ROBERTS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/10/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BARGE CLEANING

200.00 UNITS/YR

VOC

7.0000 T/YR

CARBON ADSORPTION UNIT

BACT 85.00

NOTES

LIST OF PERMISSABLE CONTENTS ATTACHED TO PERMIT. OTHER CLEANING WILL REQUIRE SEPERATE PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP REVIEW STATUS:

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ID NUMBER TX-0164

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 2000.00 HP 2A,NAT. GAS, 3

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO. CARTHAGE, TX PANOLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/07/80
 PERMIT NO. X1480 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY TEXAS ACB JIM CARAWAY (512)-451-5711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR COMPRESSOR ENGINE	2000.00 HP	NOX	4.2000 G/BHP-H TURBOCHARGED	

NOTES -----
 SUPERIOR TURBOCHARGED "CLEAN BURN" 2000 HP ENGINE, MODEL 12 SGT-A, SN 281319. ENGINE SAMPLED BY EPA --APPROVED METHOD 20 ON 3-2 5-82. NOX EMISS. BASED ON TEST RESULTS WERE .782 G/BHP-HR

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION BEAR CREEK STORAGE

BIENVILLE, LA

BIENVILLE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-85

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

TOM DIGGS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/22/79

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

I.C. COMPRESSOR, 4

THROUGHPUT

CAPACITY

7000.00 HP EA

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

POLLUTANT

EMITTED

NOX

11.7000 G/HP-H

AIR/FUEL RATIO

CO

1.4000 G/HP-H

AIR/FUEL RATIO

NOX

2.1000 LB/H

AIR/FUEL RATIO

NOX

0.4000 LB/H

AIR/FUEL RATIO

BACT

BACT

BACT

BACT

GAS HEATERS, 3

UNKNOWN

REGENERATOR HEATERS, 3

UNKNOWN

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0023

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 4008407B
 DETERMINATION MADE BY KERN COUNTY APCD
 (AGENCY)

TOM PAXSON
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/21/84
 ESTIMATED DATE OF START-UP--
 (805)-861-3682
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

ROOF TANKS

2000.00 EBL/D

VOC

15.1000 LB/D

VAPOR RECOVERY

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0087

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTINGS

05/21/1985

PETROLEUM INDUSTRY -- OTHER

525600.00 MMGAL/YR

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.

, UT

DAVIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY UTAH BAC
(AGENCY)

DONALD ROBINSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/08/82
ESTIMATED DATE OF START-UP-- 1933
(801)-533-6108
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SEPARATOR

525.60 MMGAL/YR

VOC

STEEL COVER-TOTAL

95.00

NOTES -----

AIR TIGHT STEEL COVER PLATES OVER THE ENTIRE SEPARATOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER UT-0028

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS P.O. BOX 1087 COLORADO SPRINGS, OK 80944

DETERMINATION IS BACT FOR A NEW SOURCE. PERMIT NO. (REGION FILE NO.) PSD-OK-358 DATE OF PERMIT ISSUANCE-- 02/26/81
 DETERMINATION MADE BY EPA REGION VI (AGENCY) ESTIMATED DATE OF START-UP-- (214)-767-1594
 JOE WINKLER (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	2700.00 HP	NOX	0.0010 G/HP-H	BACT
		CO	0.0010 G/HP-H	BACT
		SO2	0.0010 G/HP-H	BACT
		VOC	0.0010 G/HP-H	BACT
		PM	0.0010 G/HP-H	BACT

TURBOCHARGED CLEAN BURN

EFFICIENT COMBUSTION

EFFICIENT OPERATION

EFFICIENT COMBUSTION

EFFICIENT COMBUSTION

EMERGENCY GEN. 370.00 HP

NOX 10.9000 G/HP-H

CO 1.4000 G/HP-H

SO2 0.0010 G/HP-H

VOC 0.8400 G/HP-H

PM

BOILER 2.60 MMBTU/H

NOX 0.3200 LB/H

CO 1.4000 G/HP-H

SO2 0.0010 G/HP-H

VOC 0.8400 G/HP-H

PM

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1983

(CONTINUED) COLORADO INTERSTATE GAS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		CO	0.0500 LB/H NORMAL OPERATION	BACT
		SO2	0.0020 LB/H NORMAL OPERATION	BACT
		VOC	NORMAL OPERATION	BACT
		PM	NORMAL OPERATION 0.0130 LB/H NORMAL OPERATION	BACT

NOTES -----
OPERATED ONLY DURING POWER OUTAGES. BOILER OPERATED ONLY DURING COLD WEATHER.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION HOUSTON PIPE LINE CO.
HOUSTON NAT. GAS BLDG 14TH FL. HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-313
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, 4 TURBO.	2400.00 HP EA	NOX	60.8000 LB/H 13.5000 G/HP-H AIR/FUEL RATIO CONTROL	BACT
DEHYDRATORS, 2	1.25 MMBTU/H EA	NOX	0.1500 LB/H 0.1200 LS/MMBTU COMBUST. CONTRL, EFF. DESIGN	BACT

NOTES -----
EACH OF THE I.C. ENGINES WERE LIMITED TO 0.65 G/HP-H FOR CO, HOWEVER, POLLUTANT WAS NOT REVIEWED UNDER PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.16
ID NUMBER TX-0076
PAGE G- 600

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION NECHES BUTANE PRODUCTS CO.

PORT NECHES, TX

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9504

DETERMINATION MADE BY

TEXAS ACB

(AGENCY)

AMBA MANN

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/14/85

ESTIMATED DATE OF START-UP-- 1985

(512)-451-5711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

MEROX UNIT

350000.00 LB/H BUTANE*

SO2

9.1000 LB/H

MEROX CAUSTIC SCRUBBING

BACT

95.00

NOTES -----

EFFICIENCY BASED ON 400.0 PPM, BY WT, SULFUR IN INLET

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER TX-0165

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION OASIS PIPELINE CO.
1200 TRAVIS, BOX 1189
HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. EPA REGION VI
DETERMINATION MADE BY (AGENCY)

JOHN EUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/06/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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COMPRESSOR ENGINE 1350.00 HP EA

NOX	6.6600 G/HP-H	LCM EX. AIR -- AIR/FUEL RATIO	BACT
VOC	0.7000 G/HP-H	EFFICIENT COMBUSTION	37.00 BACT
CO	1.4000 G/HP-H	EFFICIENT COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION ODESSA NATURAL CORP.

CISCO, TX

EASTLAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-368
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

BILL TAYLOR
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/02/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	7660.00 HP	NOX	1.3000 G/HP-H AIR/FUEL RATIO	BACT
		CO	0.5000 G/HP-H AIR/FUEL RATIO	BACT
I. C. ENGINES, 2 EA	1560.00 HP	NOX	6.5000 G/HP-H AIR/FUEL RATIO	BACT
		CO	2.2000 G/HP-H AIR/FUEL RATIO	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE

ALVA, OK

W000S COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-OK-330
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

BILL TAYLOR
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/29/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, 3 EA	4500.00 HP	NOX	6.0000 G/HP-H AIR/FUEL RATIO	BACT
		CO	4.6000 G/HP-H AIR/FUEL RATIO	BACT
I.C. ENGINE	631.00 HP	NOX	11.5000 G/HP-H AIR/FUEL RATIO	BACT
		CO	5.5000 G/HP-H AIR/FUEL RATIO	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER OK-0008

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
CASHION STATION

CASHION, OK

KINGSFISHER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-329
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

I. C. ENGINE, 2 EA 4500.00 HP

NOX	9.0000 G/HP-H	AIR/FUEL RATIO	BACT
CO	9.0000 G/HP-H	AIR/FUEL RATIO	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER OK-0009

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE , TX 64141

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-321
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 02/11/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

JOHN BUNYAK
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	771.00 HP	NOX	11.5000 G/HP-H AIR/FUEL RATIO	BACT
		VOC	1.7000 LB/H EFFICIENT COMBUSTION	BACT
		CO	5.7000 G/HP-H EFFICIENT COMBUSTION	BACT
		NH3	0.0090 LB/H EFFICIENT COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0042
 SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
6 KM SW GARNER OIL FD.

, TX 64141

CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-320
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

COMPRESSOR ENGINE 771.00 HP EA

NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
VOC	13.5000 LB/H	EFFICIENT COMBUSTION	BACT
CO	5.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
NH3	0.6800 LB/H	EFFICIENT COMBUSTION	BACT

NOTES -----
AIR/FUEL RATIO WITH A RESULTANT 2% FUEL SACRIFICE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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ID NUMBER TX-0044
REVIEW STATUS: 04/01/1983
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE

AMARILLO, TX

CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-TX-322
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

I.C. ENGINES, 3

771.00 BRAKE HP EA

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

11.5000 G/HP-H

AIR/FUEL RATIO

BACT

CO

5.7000 G/HP-H

AIR/FUEL RATIO

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0043

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PETRO-LEWIS CORP.

, CA

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 4052033-037

DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR, STEAM, 5 EA	62.50 MMSTU/H	PM	0.0340 LB/MMSTU 50.6600 LB/D WET SCRUBBER	61.00
		SOX	0.0230 LB/MMSTU 34.8100 LB/D	
		NOX	0.1200 LB/MMSTU 181.3000 LB/D STAGED COMBUSTION	30.00
				70.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER CA-0058

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION REFINERY WASTE GAS RECOVERY

, CA

KERN COUNTY

DETERMINATION IS PERMIT NO. SEE NOTE
 DETERMINATION MADE BY KERN COUNTY APCD (AGENCY)
 TOM PAXSON (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/19/84
 ESTIMATED DATE OF START-UP-- (805)-861-3682 (PHCNE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY
 POLLUTANT EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF ... & BASIS
 VAPOR COMPRESSOR, VALVES, & FLA* 720000.00 SCF/D
 VOC 28.9000 LB/D
 I & M TO MINIMIZE FUG. EMIS. 65.00

NOTES

NOTE -- PERMITS NUMBERS 2018008A, 2018012B, 2018046A, 2018062. SOURCE WILL OPERATE 24 H/D, 7 D/WEEK, 52 WEEK/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER CA-1065
 SOURCE TYPE CODE 5.16
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER 8200.00 BBL/D

COMPANY NAME/SITE LOCATION SHELL OIL CO. , MS 70161 PIKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/17/80
PERMIT NO. MS 025 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY MISSISSIPPI DNR (601)-354-2553
(AGENCY) DWIGHT WILEY (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 8200.00 BBL/D
CO2 INJECTION
POLLUTANT EMISSION LIMITS ... & BASIS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

NOX BEST OPERATING PRACTICE BACT

NOTES -----
8 COMPRESSOR UNITS -- 2 AT 102.5 HP, 3 AT 205 HP, 2 AT 1460 HP, AND 1 AT 1100 HP (STANDBY). ONE EMERGENCY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
PAGE G- 611 ID NUMBER MS-0002 SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS BIENVILLE

BIENVILLE, LA

BIENVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-406
DETERMINATION MADE BY EPA REGION VI (AGENCY)

BILL TAYLOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. ENGINES, 2 EA

448.00 BRAKE HP

NOX

11.0000 5/HP-H

AIR/FUEL RATIO

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER LA-0009

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS

FRANKLINTON, LA

WASHINGTON PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-267
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

JOHN BUNYAK
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/17/80
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

I.C. ENGINE 5000.00 HP

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

NOX
 CO

182.0000 LB/H
 4.0000 LB/H

AIR/FUEL RATIO

BACT
 BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0021

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SUN GAS CO. DALLAS, TX
THREE NORTH PARK EAST ST.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-R72
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 2	1200.00 HP	NOX	9.1000 G/HP-H AIR/FUEL RATIO,IGNITION RETARD	BACT
		CO	1.2000 G/HP-H AIR/FUEL RATIO,IGNITION RETARD	BACT
COMPRESSOR	600.00 HP	NOX	9.1000 G/HP-H AIR/FUEL RATIO,IGNITION RETARD	BACT
		CO	1.2000 G/HP-H AIR/FUEL RATIO,IGNITION RETARD	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.

EAST COTE BLANCHE BAY, LA

IBERIN PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-382
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 07/30/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

JOHN BENHAM
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE 2	1560.00 BRAKE HP	NOX	10.0000 G/HP-H AIR/FUEL RATIO	BACT
I.C. ENGINE 1	40.00 BRAKE HP	CO	10.0000 G/HP-H AIR/FUEL RATIO	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0012

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 60252
NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-381
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIC ... PCT EFF
I.C. COMPRESSOR ENGINE, TURBOCH*	1650.00 HP	NOX	6.5000 G/HP-H AIR/FUEL RATIO	BACT
		CO	1.3000 G/HP-H NORMAL OPERATION	BACT
GEN. DRIVER, 2 EA	360.00 HP	NOX	10.0000 G/HP-H NORMAL OPERATION	BACT
		CO	10.0000 G/HP-H NORMAL OPERATION	BACT

NOTES -----
ONE GENERATOR DRIVER IS A STANDARD UNIT. NATURAL GAS USED AS FUEL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE G- 616
ID NUMBER LA-0013
REVIEW STATUS: 04/01/1993
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER 6300.00 HP

COMPANY NAME/SITE LOCATION TEXACO, INC. NEW ORLEANS, LA
1501 CANAL ST., P.O. BOX 60252

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 08/29/80
PERMIT NO. (REGION FILE NO.) PSD-LA-301 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) JOHN BUNYAK (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C., TURBOCHARGED	2650.00 HP	NOX	43.7000 LB/H 7.5000 G/HP-H IGN. TI. RETARD ENG. SPARK	BACT
TURBINE COMPRESSOR, GAS-FIRED	3300.00 HP	NOX	9.4000 LB/H 1.3000 G/HP-H	NSPS
I.C. ENGINE, NAT. ASPIRATED	350.00 HP	NOX	7.7000 LB/H 10.0000 G/HP-H AIR/FUEL RATIO CONTROL	BACT

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.
1501 CANAL ST
NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-300
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/29/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H CON IGN TIM/RETARD ENGINE SPARK	BACT
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H CON IGN TIM/RETARD ENGINE SPARK	BACT
TURBINE, GAS FIRED, COMPRESSION	3500.00 HP	NOX	1.8000 G/HP-H 14.2000 LB/H NONE	BACT
I. C. ENGINE, NAT. ASPIRATED	500.00 HP	NOX	10.0000 G/HP-H 11.0000 LB/H AIR/FUEL RATIO CONTROL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TRUNKLINE LNG CO.

LAKE CHARLES, LA

CALCASIEU PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-97,M-1

DETERMINATION MADE BY

LAGD/EPA REGION VI

(AGENCY)

AGENCY CONTACT PERSON:

(PHONE)

DATE OF PERMIT ISSUANCE-- 04/25/83

ESTIMATED DATE OF START-UP--

(504)-342-8940

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

TURBINE, GAS, 2

105.00 MMBTU/H

NOX

79.0000 LB/H

COMB. CONTRL, O2 & CO MONITOR

N/A

VAPORIZER, LNG, 7 EA

72.54 MMBTU/H

NOX

3.8600 LB/H

COMBUSTION CONTROL

N/A

HEATER, FUEL GAS, 2 EA

3.50 MMBTU/H

NOX

0.6300 LB/H

N/A

NOTES

THE ORIGINAL PERMIT, PSD-LA-97, WAS ISSUED ON 02/09/79 BASED ON 75. PPM NOX EMISSION LIMITS UNDER NSPS. HOWEVER, THE NSPS AMME NDED ON 01/27/82, SPECIFICALLY EXEMPTED THESE TURBINES FROM H2O INJECTION CONTROLS.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER LA-0047

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO.
P.O. BOX 1478

HOUSTON, LA 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-230
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/04/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COMPRESSOR ENGINE, 3 EA

3500.00 HP

NOX

107.9000 LB/H EA

30.8000 LB/MHP-H

CON. AIR/FUEL RATIO, IGN. TIM.

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0039

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED PIPE LINE CO. HOUSTON, TX 77001
P.O. BOX 1478

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-211
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/04/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

COMPRESSOR ENGINE, 3 1000.00 HP EA

NOX 31.5000 LB/H
31.5000 LB/MHP-H
CNTRL AIR/FUEL RATIO, IGN TIM.

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLONITRILE PLANT

COMPANY NAME/SITE LOCATION DOW CHEMICAL U.S.A.

CODY, WY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-511

DETERMINATION MADE BY WYOMING AQD

(AGENCY)

DAN FAUTH

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/06/83

ESTIMATED DATE OF START-UP-- 1983

(307)-532-3144

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

AERATION, RAIL TANK CAR

NOTE #1

ACR*

2.9000 UG/CU METER, NOTE #2

BACT

ACR*

0.9000 UG/CU METER, NOTE #2

BACT

CARBON FILLED CANISTERS

BACT

CARBON FILLED CANISTERS

99.00

NOTES

NOTE #1 -- DOW AGREED TO REDUCE NUMBER OF CARS AERATING AT ANYONE TIME FROM 12 TO 6, NOTE #2 -- MODELED WORST CASE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER WY-0006

SOURCE TYPE CODE

6.1

05/21/1985

200.00 MMLB/YR

VICTORIA, TX 77979

CALHOUN COUNTY

DATE OF PERMIT ISSUANCE-- 06/04/84
ESTIMATED DATE OF START-UP-- 1986

K. NEUMANN
(AGENCY CONTACT PERSON)
(512)-451-5711
(PHONE)

... & BASIS
... PCT EFF

POLLUTANT EMITTED	EMISSION LIMITS CONTROL E
----------------------	------------------------------

... & BASIS
... PCT EFF

200.00 MMLB/YR

VOC 26.9000 T/YR

T/YR
WASTE GAS INCINERATOR

B/N

NOX	477.4000 T/YR
NOX	477.4000 T/YR

	T/YR	T/YR
MAINTENANCE AND REPAIRS	100	100
REPLACEMENT OF EQUIPMENT	100	100
REPLACEMENT OF BUILDINGS	100	100
REPLACEMENT OF VEHICLES	100	100
REPLACEMENT OF FURNITURE	100	100
REPLACEMENT OF APPLIANCES	100	100
REPLACEMENT OF TOOLS	100	100
REPLACEMENT OF SUPPLIES	100	100
REPLACEMENT OF MATERIALS	100	100
REPLACEMENT OF LABOR	100	100
REPLACEMENT OF OTHER RESOURCES	100	100
REPLACEMENT OF TOTAL ASSETS	100	100

BACT
BACT

83211

NOTES
SIC - 2869, SCC - 3-01-254-05 & 3-01-888-01, CONTROL DEVICE CODE - 21. NOTE 2 - P.O. BOX 659, PORT LAVACA, TX 77979

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 10/31/1934

ID NUMSEP TV-0153

SOURCE	TYPE	CODE	6.1
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
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9	9	9	9
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94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLIC ACID PLANT

COMPANY NAME/SITE LOCATION BADISCHE CORP.

FREEPORT, TX

BRAZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-284
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/05/81
ESTIMATED DATE OF START-UP -- 1980
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
WASTE INCIN., 2 EA

THROUGHPUT
CAPACITY
50.00 MMBTU/H

POLLUTANT
EMITTED
SO2
NOX

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

0.6800 LB/MMBTU
LOW S FUEL(OIL/GAS), & WASTE
0.7300 LB/MMBTU
FLUE GAS O2 CONTROL
BACT
BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0047

SOURCE TYPE CODE 6.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLIC ACID PLANT

COMPANY NAME/SITE LOCATION BADISCHE CORP.

FREEPORT, TX 77541

DETERMINATION IS
PERMIT NO. C-9329
DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

KAREN NEUMANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/31/84
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STORAGE, AMMONIA

30000.00 MET. T/YR

NH3

95.0000 PPM

EXCESS REFRIG., BACK-UP GEN., EMER. FLARE SYS 99.00

LOADING FACILITY

NH3

NONE

INERT PURGER

NOTES -----

SIC 5161, SCC 3-01-880-01, 1-02-006-03

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER TX-0047A

SOURCE TYPE CODE 6.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACROLEIN

COMPANY NAME/SITE LOCATION UNIROYAL CHEMICAL CO.

GEISMAR, LA

ASCENSION PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-518

DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY)

NAN KILLEEN (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/26/85
ESTIMATED DATE OF START-UP-- 1983
(504)-342-8940
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

NITROSATOR VENT

NOX 42.1000 LB/H
127.2000 T/YR

BACT

NOTES

AN EXPLOSION DESTROYED THE NOX SCRUBBER ON THIS SOURCE, WHICH HAS OPERATED SINCE 1974. AFTER EXTENSIVE RISK ANALYSES, UNABATED NOX VENTING WAS DETERMINED TO BE BACT. THIS PERMIT IS SUBJECT TO RE-EVALUATION AFTER 18 MONTHS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALKYL BENZENE 150.00 MMBL/YR

COMPANY NAME/SITE LOCATION CONOCO, INC. WESTLAKE, LA CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-291
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 TOM DIGGS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/08/80
 ESTIMATED DATE OF START-UP-- 1982
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PACOL HEATER, CHARGE	48.68 MMBTU/H	NOX	0.0960 LB/MMBTU LOW NOX BURNERS > 20% EXCESS AIR	BACT
		CO	0.0180 LB/MMBTU FLUE GAS O2 MONITORING	BACT
HEATER, STARTUP	11.37 MMBTU/H	NOX	0.0970 LB/MMBTU LOW NOX BURNERS > 20% EXCESS AIR	BACT
		CO	0.0260 LB/MMBTU FLUE GAS O2 MONITORING	BACT
HEATER, HOT OIL	134.88 MMBTU/H	NOX	0.0970 LB/MMBTU LOW NOX BURNERS > 20% EXCESS AIR	BACT
		CO	0.0210 LB/MMBTU FLUE GAS O2 MONITORING	BACT
FLARE		NOX	0.1200 LB/H	BACT
		CO	0.0200 LB/H	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER LA-0020
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993
 SOURCE TYPE CODE 6.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE BUTADIENE
 COMPANY NAME/SITE LOCATION GOODYEAR TIRE & RUBBER CO. BEAUMONT, TX JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 9500 TEXAS ACB DATE OF PERMIT ISSUANCE-- 01/10/85
 DETERMINATION MADE BY (AGENCY) LOUIS ROBERTS ESTIMATED DATE OF START-UP-- 1986
 (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

PROCESSES SUBJECT THROUGHPUT POLLUTANT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 MFG PROCESS CONFIDENTIAL VOC 723.0000 T/YR PRODUCTION STEAM STRIPPER BACT 90.00

NOTES -----
 COMPLIANCE DETERMINED BY START-UP TESTING & PERIODIC TESTING THEREAFTER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER TX-0166
 SOURCE TYPE CODE 6.11

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

CARBON BLACK

320.00 MMBL/YR

COMPANY NAME/SITE LOCATION ASHLAND CHEMICAL CO.

, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. LA-339

EPA REGION VI

JOHN BUNYAK

DATE OF PERMIT ISSUANCE-- 06/23/81

ESTIMATED DATE OF START-UP--

DETERMINATION MADE BY

(AGENCY)

(AGENCY CONTACT PERSON)

(214)-767-1594

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

DRYER 1

50.50 MMBTU/H

SO2 39.3000 LB/H

EFFICIENT OPERATION

BACT

NOX 10.7000 LB/H

LOW EXCESS AIR

BACT

CO 36.9000 LB/H

EFFICIENT COMBUSTION

BACT

PM 6.2400 LB/H

EFFICIENT COMBUSTION

BACT

VOC 4.0000 LB/H

EFFICIENT COMBUSTION

BACT

DRYER 2

110.00 MMBTU/H

SO2 777.8000 LB/H

EFFICIENT OPERATION

BACT

NOX 9.6900 LB/H

LOW EXCESS AIR

BACT

CO 79.3000 LB/H

EFFICIENT COMBUSTION

BACT

PM 15.2800 LB/H

EFFICIENT COMBUSTION

BACT

VOC 9.1000 LB/H

EFFICIENT COMBUSTION

BACT

CO BOILER

125.40 MMBTU/H

SO2 977.3000 LB/H

EFFICIENT COMBUSTION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0025

SOURCE TYPE CODE 6.12

(CONTINUED) ASHLAND CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)		NOX	26.4000 LB/H LOW EXCESS AIR	BACT
		CO	94.0000 LB/H EFFICIENT COMBUSTION	BACT
		PM	6.9000 LB/H EFFICIENT COMBUSTION	BACT
		VOC	19.3000 LB/H EFFICIENT COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0025

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK

COMPANY NAME/SITE LOCATION ASHLAND CHEMICAL CO.

, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. TX-338
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

JOE WINKLER
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/02/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STACK DRYER 2	53.00 MMBTU/H	PM	7.4000 LB/H	FABRIC SYS	BACT
		SO2	373.9000 LB/H	PROPER OPERATION	BACT
		NOX	20.0000 LB/H	LOW EXCESS AIR	BACT
		VOC	1.4000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	42.5000 LB/H	EFFICIENT COMBUSTION	BACT
STACK DRYER 1	53.00 MMBTU/H	PM	7.4000 LB/H	FABRIC SYS	BACT
		SO2	373.9000 LB/H	PROPER OPERATION	BACT
		NOX	20.0000 LB/H	LOW EXCESS AIR	BACT
		VOC	1.4000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	42.5000 LB/H	EFFICIENT COMBUSTION	BACT
CO BOILER	81.00 MMBTU/H	PM	10.0000 LB/H	FABRIC SYS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0036

SOURCE TYPE CODE 6.12

(CONTINUED) ASHLAND CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)		SO2	565.0000 LB/H NORMAL OPERATION	BACT
		NOX	28.0000 LB/H LOW EXCESS AIR	BACT
		VOC	3.0000 LB/H EFFICIENT OPERATION	BACT
		CO	62.0000 LB/H EFFICIENT OPERATION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0036

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK

COMPANY NAME/SITE LOCATION CONTINENTAL CARBON
5 MI SW OF SUNRAY

SUNRAY, TX

MOORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-TX-345
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

REACTOR

2.10 T/H

S02

BACT

DRYER

2.10 T/H

S02

BACT

REACTOR

2.00 T/H

S02

BACT

DRYER

2.00 T/H

S02

BACT

FIREBOX

24.00 MMBTU/H

S02

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0035

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK

COMPANY NAME/SITE LOCATION GREAT LAKES CARBON

ALTUS, AR

FRANKLIN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-AR-271A
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/21/78
ESTIMATED DATE OF START-UP-- 1981
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

INCINERATION

0.42 MMTU/H

POLLUTANT EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

... PCT EFF

PM

0.0200 LB/H

BAGHOUSE
EFFICIENT COMBUSTION

BACT
99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER AR-0006

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

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=====
SOURCE TYPE/SIZE      CARBON BLACK
=====
COMPANY NAME/SITE LOCATION  PHILLIPS PETROLEUM CO.
                               BARTLESVILLE, OK
                               OSAGE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-OK-223
DETERMINATION MADE BY  EPA REGION VI
                        (AGENCY)
                        TOM DIGGS
                        (AGENCY CONTACT PERSON)
                        DATE OF PERMIT ISSUANCE-- 01/04/80
                        ESTIMATED DATE OF START-UP--
                        (214)-767-1594
                        (PHONE)

=====
PROCESSES SUBJECT TO THIS PERMIT  THROUGHPUT CAPACITY  POLLUTANT
EMISSION LIMITS  CONTROL EQUIPMENT OR PROCESS MODIFICATION  ... & BASIS
... PCT EFF

NAT. GAS FIRED COMPRESSOR  5.82 MMBTU/H
PM  0.4000 LB/H
CO  0.2000 LB/H
    0.5% S FUEL OIL
    PROPER OPERATION
=====

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=====
(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
=====
ID NUMBER OK-0010
=====
PAGE G- 635
=====
REVIEW STATUS: 04/01/1983
=====
INITIAL REVIEW  POST STARTUP
SOURCE TYPE CODE  6.12
=====

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CHARCOAL

COMPANY NAME/SITE LOCATION BIG SANDY WOOD IND.

BIG SANDY, TX

UPSHUR COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C8881
DETERMINATION MADE BY TEXAS ACB
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/03/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
JIMMY RANDALL
(AGENCY CONTACT PERSON)
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

WOOD-CHARRING PILES, 5

3.75 T/D

PM
NOX
CO

20.5000 T/YR
4.4000 T/YR
178.0000 T/YR

BACT
BACT
BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0106

SOURCE TYPE CODE 6.13

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CHLOROALKALI

COMPANY NAME/SITE LOCATION DIAMOND SHAMROCK CORP.
1149 ELLSWORTH DR.

PASADENA, TX 77501

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-276

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/20/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
----------------------------------	---------------------	-------------------	--	----------------------------

GAS TURBINE, 3	960.00 MMSTU/H EA	NOX	403.0000 LB/H EA 0.4200 LB/MMSTU WATER INJECTION	NSPS
----------------	-------------------	-----	--	------

		CO	109.1000 LB/H EA 0.1120 LB/MMSTU EFFICIENT COMBUSTION	BACT
--	--	----	---	------

		PM	13.2000 LB/H EA 0.0140 LB/MMSTU EFFICIENT COMBUSTION	BACT
--	--	----	--	------

		SO2	0.6000 LB/H 0.0006 LB/MMSTU 0.8% S BY WT FUEL	NSPS
--	--	-----	---	------

STEAM GEN., HEAT RECOVERY, 3	246.00 MMSTU/H	NOX	55.2000 LB/H EA 0.2200 LB/MMSTU LOW NOX BURNERS, LEA CONTRL	BACT
------------------------------	----------------	-----	---	------

		CO	4.0800 LB/H EA 0.0170 LB/MMSTU EFFICIENT COMBUSTION	BACT
--	--	----	---	------

		PM	3.6000 LB/H EA 0.0150 LB/MMSTU EFFICIENT COMBUSTION	BACT
--	--	----	---	------

NOTES -----
MODIFIED EXISTING CHLORINE CAUSTIC BY CONSTRUCTING A 313 MW COMBINED CYCLE POWER GENERATING FACILITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0075

SOURCE TYPE CODE 6.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CHLOROBENZENE

COMPANY NAME/SITE LOCATION BOFORS NOBEL, INC.
5025 EVANSTON AVE.

MUSKEGON, MI

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 615-81

DETERMINATION MADE BY

MICHIGAN DNR
(AGENCY)

DANITA BRANDT
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/25/82
ESTIMATED DATE OF START-UP-- 1982
(517)-322-1333
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DCB MANUFACTURE

3.00 MMLB/YR

DCB

9.0600 UG/CU. METER
DUAL ABSOLUTE FILTERS IN SERIES

99.99

DCB PACKOUT

3.00 MMLB/YR

DCB

3.5200 UG/CU. METER
DUAL ABSOLUTE FILTERS IN SERIES

99.99

NOTES

TOTAL CONCENTRATION FROM ALL SOURCES (6 STACKS) MODELED FOR RISK ASSESSMENT ON THIS CARCINOGEN. FOUR STACKS IN MANUFACTURING P
ROCESS, TWO STACKS ON PACKOUT FACILITY.
INDIVIDUAL CONCENTRATIONS ARE 0.01, 3.07, 2.27, 3.71, 2.51, AND 1.01 UG/CUBIC METER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

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ID NUMBER MI-0028

SOURCE TYPE CODE 6.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ETHYLENE AND POLYETHYLENE

COMPANY NAME/SITE LOCATION E.I. DUPONT DE NEMOURS

, TX

ORANGE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 9176

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

LOUIS ROBERTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/27/82
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COMPRESSION & POLYMERIZATION

SEE NOTE
SWITCH FROM HOMOPOLYMER TO COPOLYMER PROD

VOC

PELLETIZING

SEE NOTE
SWITCH FROM HOMOPOLYMER TO COPOLYMER PROD

VOC

PRODUCT HANDLING & STORAGE

SEE NOTE
SWITCH FROM HOMOPOLYMER TO COPOLYMER PROD

VOC

NOTES

ADDITIONAL ABATEMENT SUCH AS CATALYTIC INCINERATION OR VACUUM EXTRUSION WOULD BE UNREASONABLY COSTLY BECAUSE OF SPACE LIMITATIONS, NEEDED FOR BAG FILTERS. COSTS WOULD RANGE FROM \$4000 - 17000 PER ANNUAL TON ABATED. CAPITAL COSTS
NOTE -- 90 T/YR INCREASE OVER GRANDFATHERED UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0121

SOURCE TYPE CODE 6.24

05/21/1985

690.00 MMLB/YR

VICTORIA, TX

VICTORIA COUNTY

DATE OF PERMIT ISSUANCE-- 08/17/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

RAGAN BROYLES
(AGENCY CONTACT F

POLLUTANT
EMITTED

EMISSION LIMITS

N LIMITS

... & BASIS

49.00 MMSTU/H EA

0.0200 LB/MMBTU OIL
0.0100 LB/MMBTU GAS
GAS FIRED

BACT

502

LB/MYSTU OIL
LOW SULFUR FUEL OR GAS

BACT

NOX

0.3000 LB/MMBTU OIL
0.1200 LB/MMBTU GAS

BACT

LOW NOX BURNERS

CATALYTIC ACTIVATORS, 2 EA

10.00 MMETU/H EA

0.1000 LB/H
GAS FIRED

156B

502

LOW SULFUR FUEL/GAS
LB/HECTU

FACT

XOZ

LB/HM3TU
LOW NOX BURNERS

BACT

TRACE

BACT

502

TRACE

BACT

XON

LB/H
LOW NOX BURNERS

FACT

CATALYTIC ACTIVATOR FILTERS, 2 *

LB/H
LOW NOX BURNERS

FACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0016

SOURCE	TYPE	CODE	6.24
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(CONTINUED) GULF OIL CHEMICALS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BLOW TANK FILTERS, 2 EA		PM	TRACE BAG FILTER	BACT 99.90
CATALYTIC FILTERS, 2 EA		PM	TRACE BAG FILTER	BACT 99.90
STORAGE SILOS		PM	TRACE BAG FILTER	BACT 99.90
FLARE, 10 EA		PM	TRACE BAG FILTERS	BACT 99.90
CATALYTIC INCINERATOR		PM	0.1000 LB/H	BACT
			STEAM INJECTION	
		SO2	TRACE	BACT
		NOX	LOW SULFUR OIL (0.7%) 2.3000 LB/H	BACT
			EFFICIENT DESIGN	
		NOX	15.0000 LB/H LOW NOX BURNERS	BACT

NOTES -----
TRACE EQUALS LESS THAN ONE POUND PER HOUR.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ETHYLENE AND POLYETHYLENE

COMPANY NAME/SITE LOCATION TEXAS EASTMAN CO.
P.O. BOX 7444
LONGVIEW, TX 75607

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-332
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PYROLYSIS FURNACE	100.00 MMBTU/H	PM	1.0000 LB/H COMBUSTION CONTROL	BACT
		CO	1.7000 LB/H COMBUSTION CONTROL	BACT
		NOX	10.0000 LB/H LOW NOX BURNERS, LEA FIRING	BACT
		SO2	0.1000 LB/H NAT. GAS/OFF GAS FIRED	BACT
PYROLYSIS FURNACE	100.00 MMBTU/H	PM	1.0000 LB/H COMBUSTION CONTROL	BACT
		CO	1.7000 LB/H COMBUSTION CONTROL	BACT
		NOX	10.0000 LB/H LOW NOX FIRING, LEA FIRING	BACT
		SO2	0.1000 LB/H NAT. GAS/OFF GAS FIRED	BACT
PYROLYSIS FURNACES, 4	165.00 MMBTU/H EA	PM	1.0000 LB/H EA COMBUSTION CONTROL	BACT
		CO	3.0000 LB/H EA COMBUSTION CONTROL	BACT
		NOX	17.0000 LB/H LOW NOX BURNERS, LEA FIRING	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0077

SOURCE TYPE CODE 6.24

(CONTINUED) TEXAS EASTMAN CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
PROCESS HEATER	10.00 MMBTU/H	SO2	0.2000 LB/H NAT. GAS/OFF GAS FIRED	BACT
		PM	1.0000 LB/H COMBUSTION CONTROL	BACT
		CO	0.2000 LB/H COMBUSTION CONTROL	BACT
		NOX	1.2000 LB/H LOW NOX FIRING, LEA FIRING	BACT
		SO2	0.0100 LB/H NAT. GAS/OFF GAS FIRED	BACT
BOILERS, 2	330.00 MMBTU/H	PM	14.0000 LB/H TAR 1.0000 LB/H NAT GAS COMBUSTION CONTROL	BACT
		CO	4.6000 LB/H TAR 3.2000 LB/H NAT GAS COMBUSTION CONTROL	BACT
		NOX	42.0000 LB/H TAR 22.6000 LB/H NAT GAS LOW NOX BURNERS, LEA FIRING	BACT
		SO2	12.0000 LB/H TAR 1.0000 LB/H NAT GAS 0.075% S FUEL (TAR)	BACT
		PM	1.1000 LB/H BAGHOUSE	BACT 97.00
PELLET STORAGE & HANDLING				

NOTES -----

NEW ORGANIC CHEM. MFG FACILITY - LOW DENSITY POLYETHYLENE UNIT. NEW HYDROCARBON CRACKING UNIT CONSISTING OF 6 PYROLYSIS FURNACES, TWO BOILERS AND ONE PROCESS HEATER. WHEN 2 FUELS ARE FIRED SIMULTANEOUSLY, ALLOWABLE EMISSIONS (LB/HR) BY POLLUTANT SHALL BE DETERMINED BY: $E = (TAR/HR)(LB/MMBTU\ TAR) + (MMBTU\ GAS/HR)(LB/MMBTU\ GAS)$. FUEL FIRING RATE FOR EACH ABOVE BOILER SHALL NOT EXCEED 7950 LB/HR PYROLYSIS TAR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1993

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ID NUMBER TX-0077

SOURCE TYPE CODE 6.24

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ETHYLENE AND POLYETHYLENE 270.00 MT/YR

COMPANY NAME/SITE LOCATION TEX-USS 4600 FURNACE PLACE BELLAIRE, TX 77401

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-336
DETERMINATION MADE BY EPA REGION VI (AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/16/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM BOILER	99.00 MMSTU/H	NOX	0.1100 LB/MMSTU LOW NOX BURNERS	BACT
STEAM BOILER	99.00 MMSTU/H	NOX	0.1100 LB/MMSTU LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0037

SOURCE TYPE CODE 6.24

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ETHYLBENZENE/STYRENE 900.00 MMLB/YR

COMPANY NAME/SITE LOCATION AMERICAN HOECHST PASADENA, TX HARRIS COUNTY

DETERMINATION IS RACT FOR A NEW SOURCE.
 PERMIT NO. 5252
 DETERMINATION MADE BY TEXAS ACB (AGENCY)
 SAM CROWTHER (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 07/01/77
 ESTIMATED DATE OF START-UP-- 1978
 (512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILERS, 4 & HEATERS, 6 1.20 MMBTU/H TO*

PM	15.0000 T/YR	PROC., RESIDUE, & NAT. GAS FIRED	
SO2	1.1000 T/YR	PROC., RESIDUE, & NAT. GAS FIRED	AP42
NOX	569.0000 T/YR	PROC., RESIDUE, & NAT. GAS FIRED	
	0.1750 LB/MBTU	PROC., RESIDUE, & NAT. GAS FIRED	

PROCESS VENTS

VOC	NONE		100.00
	VENTED		

TANKS, 10

VOC	16.0000 T/YR	INT. FLOAT COVER & WHITE PAINT	AP42
-----	--------------	--------------------------------	------

NOTES

FIRST TEXAS EB/STYRENE UNIT WITH NO PROCESS VENTS TO ATMOSPHERE

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FLUOROCARBONS

COMPANY NAME/SITE LOCATION DUPONT

WHITE RIVER TOWNSHIP, MI

MUSKEGON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 756-79

DETERMINATION MADE BY MICHIGAN DNR

(AGENCY)

DANITA BRANDT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/15/80

ESTIMATED DATE OF START-UP-- 1982

(517)-302-1333

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FREON 22 MFG

VOC

205.0000 LB/H

NO VISIBLE CONTROLS

NOTES

FREON 23 HAS LOW REACTIVITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 03/13/1984

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ID NUMBER MI-0010

SOURCE TYPE CODE 6.31

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FORMALDEHYDE
20000.00 GAL
COMPANY NAME/SITE LOCATION EXXON CHEMICAL AMERICAS
HOUSTON, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3753
DETERMINATION MADE BY TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/16/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
WATER TREATMENT CHEMICALS MFG U* 20000.00 GAL

FOR* STATIC SCRUBBER W/SODIUM BISULFITE SOL.
VOC NIL EMISSIONS

NOTES -----
EFFICIENCY NOT DETERMINED AT THIS TIME. PROCESS CONCERNS FORMALDEHYDE STORAGE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

FORMALDEHYDE

64400.00 LB/H INPUT

COMPANY NAME/SITE LOCATION GEORGIA-PACIFIC CORP.

CONWAY, NC

NORTHAMPTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NC-060

DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY)

MIKE SEHELL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/17/80

ESTIMATED DATE OF START-UP--

(919)-733-6126 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

FORMALDEHYDE PRODUCTION

VOC

10.0000 LB/H

CATALYTIC CONVERTER

BACT

CO

10.0000 LB/H

CATALYTIC CONVERTER

BACT

60.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NC-0008

SOURCE TYPE CODE 6.32

05/21/1485

150.00 MMLB/YR

SOUTH WHITEHALL TOWNSHIP, PA

LEHIGH COUNTY

DATE OF PERMIT ISSUANCE-- 09/12/79
ESTIMATED DATE OF START-UP-- 1980
(215)-597-8186
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF

FORMALDEHYDE PLANT	5800.00 ACFM (70 DE*			

FORMALDEHYDE PLANT 5800.00 ACFM (70 DE*

VOC	10.1000 LB/H	BACT
	CATALYTIC AFTERSURNER	90.00
CO	2.0300 LB/H	BACT

CO	CO	CO
150.00 MGAL	150.00 MGAL	150.00 MGAL
STORAGE TANK (FORMALDEHYDE)	STORAGE TANK (FORMALDEHYDE)	STORAGE TANK (FORMALDEHYDE)

VOC	0.0400	LB/H	BACT
			90.00
		VAPOR RECOVERY SYS	

STORAGE TANK (METHANOL)	100.00 MGAL	VOC	C.1000 LB/H	VAPOUR RECOVERY SYS	BACT	90.00
-------------------------	-------------	-----	-------------	---------------------	------	-------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL REVIEW	POST STARTUP
REVIEW STATUS: 04/01/1983		
PAGE G- 649	ID NUMBER PA-0024	SOURCE TYPE CODE 6.32

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE MALEIC ANHYDRIDE 133.00 MMLB/YR
 COMPANY NAME/SITE LOCATION MCHSANTO CO.
 P.O. BOX 12630
 PENSACOLA, FL 32575
 ESCAMBIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. FL-055
 DETERMINATION MADE BY FLORIDA DER
 (AGENCY)
 ED PALAGYI
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/26/81
 ESTIMATED DATE OF START-UP-- 1983
 (904)-489-1344
 (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 MALEIC ANHYDRIDE PRODUCTION 133.00 MMLB/YR
 VOC 700.0000 LB/H
 INCINERATION
 CO 670.0000 LB/H
 INCINERATION
 BACT 90.00
 BACT 9.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER FL-0023
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 SOURCE TYPE CODE 6.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE METHANOL

COMPANY NAME/SITE LOCATION DOW CORNING CORP.

CARROLLTON, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. C-78-73
 DETERMINATION MADE BY KENTUCKY DAPC
 (AGENCY)

BILL DILLS
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/16/78
 ESTIMATED DATE OF START-UP-- 1979
 (502)-564-3362
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

GRINDING, SCREENING, CONVEYING

PM 22.0000 T/YR

VOC 60.0000 T/YR

99.00

PILOT PLANT, CHLOROSILANE

VOC 4.0000 T/YR

98.30

VOC 4.0000 T/YR

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984

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ID NUMBER KY-0031

SOURCE TYPE CODE 6.37

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

100.00 MMGAL/YR

METHANOL

COMPANY NAME/SITE LOCATION GETTY METHANOL CORP.

DELAWARE CITY, DE

NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 80DE01

DETERMINATION MADE BY EPA REGION III

(AGENCY)

BOB BLASZCZAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/10/80

ESTIMATED DATE OF START-UP--

(215)-597-8186

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

TUBULAR REFORMER

1.39 MMMLB/YR

NOX

0.1300 LB/MMBTU

COEN LOW NOX BURNERS

BACT

STORAGE TANKS, METHANOL

115.00 MMBL/YR

NOX

SEE NOTES

BACT

75.00

NOTES

NOX CONTROLLED BY INTERNAL FLOATING ROOFS + PROPER MAINTENANCE OF STORAGE TANK SEALS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER DE-0001

SOURCE TYPE CODE 6.37

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PAINT & VARNISH 3.00 MMLB/YR

COMPANY NAME/SITE LOCATION SUN CHEMICAL CORP.
4925 EVANSTON AVE. MUSKEGON, MI 49442

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/24/82
PERMIT NO. 351-82 ESTIMATED DATE OF START-UP-- 1983
DETERMINATION MADE BY MICHIGAN DNR (517)-322-1333
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
AZO RED PIGMENT MANUFACTURING P* 3.00 MMLB/YR
BET* 0.3300 UG/CU. METER BACT
2 ABS FILTERS & A WET SCRUBBER 99.99

NOTES -----
THE ABOVE BACT LIMIT IS ALSO BASED ON GUIDELINES DEVELOPED BY THE AIR ADVISORY COMMITTEE TO THE APC COMMISSION, MICHIGAN DNR,
FOR NON-CRITERIA POLLUTANTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/198C 03/13/1984
ID NUMBER MI-0030 SOURCE TYPE CODE 6.42
PAGE G- 653

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1260.00 CF/BATCH

PHARMACEUTICAL

SOURCE TYPE/SIZE

SHERBURNE, NY

COMPANY NAME/SITE LOCATION CHEESEBOROUGH PONDS, INC.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 085600-0264-00005

DETERMINATION MADE BY NEW YORK DEC

(AGENCY)

DALE VOLLHER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/10/83

ESTIMATED DATE OF START-UP-- 1983

(315)-428-4484

(PHONE)

EMISSION LIMITS

POLLUTANT

EMITTED

THROUGHPUT

CAPACITY

PROCESSES SUBJECT

TO THIS PERMIT

... & BASIS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

1260.00 CF/BATCH

ETO

0.4100 LB/H

"DEOXX" T.M.

BACT

99.00

NOTES -----

THE "DEOXX" PROCESS IS PENDING PATENT APPROVAL. THE MANUFACTURER HAS REQUESTED THAT CERTAIN INFORMATION REMAIN CONFIDENTIAL.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/13/1984

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NY-0011

SOURCE TYPE CODE 6.43

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PHARMACEUTICAL

COMPANY NAME/SITE LOCATION ELI LILLY GREENFIELD, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-81-7
DETERMINATION MADE BY EPA REGION V
(AGENCY)

BONIFACE THAYIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/81
ESTIMATED DATE OF START-UP-- 1985
(312)-886-6054
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 123.00 MMBTU/H
COAL FIRED BOILER

POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
PM	0.0930 LB/MMBTU 49.6000 T/YR
NOX	BAGHOUSE 0.6000 LB/MMBTU 323.0000 T/YR
SO2	1.6000 LB/MMBTU 3H AV LOW S COAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER IN-0002

SOURCE TYPE CODE 6.43

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PHARMACEUTICAL

COMPANY NAME/SITE LOCATION HEAD JOHNSON & CO.

MOUNT VERNON, IN

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PC(65) 1507

DETERMINATION MADE BY INDIANA APCD

(AGENCY)

FRANK PROFIT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/12/82

ESTIMATED DATE OF START-UP--

(317)-633-0664

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILERS, COAL-FIRED, 2 EA

40000.00 LB/H

PM

0.0300 LB/MMBTU

MULTICLONE & BAGHOUSE

SO2

2.1000 LB/MMBTU

MAX 1.3% SULFUR COAL

NOX

0.6500 LB/MMBTU

98.60

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

PAGE G- 656

ID NUMBER IN-0020

SOURCE TYPE CODE 6.43

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

80.00 MMLB/YR

PHTHALIC ANHYDRIDE

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION ASHLAND CHEMICAL CO.

NEAL, WV

WAYNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 78W02

DETERMINATION MADE BY

EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/07/80

ESTIMATED DATE OF START-UP-- 1982

(215)-597-2711

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INCINERATOR

CO 86.7000 LB/H

CATALYTIC INCINERATOR

VOC 49.3000 LB/H

CATALYTIC INCINERATOR

10.00 MMBTU/YR

SO2

16.0000 LB/H

1% SULFUR FUEL OIL

BACT

95.00

BACT

95.00

BACT

95.00

HEATER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

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ID NUMBER WV-0002

SOURCE TYPE CODE 6.45

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PHTHALIC ANHYDRIDE

COMPANY NAME/SITE LOCATION KOPPERS CHICAGO, IL

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 82 05 0034

DETERMINATION MADE BY ILLINOIS EPA

(AGENCY)

CHRIS ROMAINE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/84

ESTIMATED DATE OF START-UP-- 1984

(217)-782-2113

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

WASTE INCINERATOR & REACTOR

1140.00 T/YR SO2

SO2

260.0000 LB/H

0.8000 % BY WT S, MAX

MATERIAL SPECIFICATION

BACT

NOTES -----

ALSO STATE ID NUMBER 031 300 AAJ

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 08/21/1984

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER IL-0029

SOURCE TYPE CODE 6.45

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PROYLENE OXIDE

COMPANY NAME/SITE LOCATION ARCO CHEMICAL CO.

, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 9395

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

PETE ROBERTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/09/84
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PLANT, PROPYLENE OXIDE

CONFIDENTIAL

VOC

75.0000 T/YR

BACT

PRO*

1.0000 T/YR

HIGH ENERGY VENTURI
SCRUBBER

BACT
99.98

NOTES

NET EMISSIONS DECREASED DUE TO MODIFICATION. SCRUBBER HAS PRESSURE DROP EQUAL 55 INCHES H2O.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0146

SOURCE TYPE CODE 6.46

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

SULFUR RECOVERY

25.00 T/D SULFUR

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION CO.

ANDREWS, TX

ANDREWS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 7725

DATE OF PERMIT ISSUANCE-- 10/16/79
ESTIMATED DATE OF START-UP-- 1980

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

SAM CROWTHER
(AGENCY CONTACT PERSON)

(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SULFUR RECOV. ON NAT. GAS STREAM 4.00 MMSCFD GAS

SO2

270.0000 T/YR

COLD BED ADSORPTION DESIGN

98.50

NOTES

THIS PROCESS USES A FINAL CATALYST BED MAINTAINED AT LOW TEMP. SO THAT SULFURPRODUCED IS REMOVED FROM REACTION SYSTEM. OVERALL
EQUILIBRIUM IS THUS SHIFTED SO THAT HIGHER PERCENT CONVERSIONS OF HYDROGEN SULFIDE TO SULFUR IS ACHIEVED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0095

SOURCE TYPE CODE 6.52

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SULFUR RECOVERY

COMPANY NAME/SITE LOCATION SPONGE, INC.

CLEVELAND, OH 44102

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 13-958

DETERMINATION MADE BY CLEVELAND DAPC

(AGENCY)

IKRAM HAGIB

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

1982

(216)-664-3508

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

H2S CONVERTER, SETTLING TANK & * 180.00 GAL/H

H2S

0.0200 LB/H

0.2600 GR/100 CF

NA2S CONVERTED TO H2S THEN S.

99.00

NOTES

H2S GAS WHICH IS EVOLVED IN SPONGE MANUFACTURING PROCESS IS REMOVED BY CAUSTIC SCRUBBERS, THE WASTE WATERS FROM WHICH CONTAIN LARGE AMOUNTS OF NA2S. SULFURIC ACID TREATMENT OF THIS WATER RE-LIBERATES H2S WHICH THE CATABAN REACTOR CONVERTS INTO ELEMENTAL SULFUR.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

PAGE 6- 661

ID NUMBER OH-0007

SOURCE TYPE CODE 6.52

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

SULFUR RECOVERY

50.00 T/D

COMPANY NAME/SITE LOCATION TEXACO, INC. - PUGET SOUND REFINERY

ANACORTES, WA 98221

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 02/25/81
ESTIMATED DATE OF START-UP-- 1983
(206)-336-5705
(PHONE)

DETERMINATION MADE BY NORTHWEST APA
(AGENCY)

GLEN HALLMAN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CLAUS SULFUR UNITS, 2

25 00 LT/D, EA

SO2

6.4000 LB/H
28.0000 T/YR

SCOT TAIL GAS TREATING UNIT

SO2

250.0000 PPM DSCF, 0% O2
INCINERATOR STACK

99.90
NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER WA-0005

SOURCE TYPE CODE 6.52

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05/21/1985

DETERMINATION IS LAER FOR A NEW SOURCE.
 PERMIT NO. PSD-KY-089
 DETERMINATION MADE BY KENTUCKY DAPC
 (AGENCY)
 BILL DILLS
 (AGENCY CONTACT PERSON)
 (502)-564-3382
 (PHONE)
 DATE OF PERMIT ISSUANCE-- 02/28/80
 ESTIMATED DATE OF START-UP-- 1980

NOTES -----
4368 H/YR OPERATION. PLANT SHUTDOWN 11/18/82.

 ID NUMBER KY-0013
 SOURCE TYPE CODE 6.53

 REVIEW STATUS: 04/01/1983 02/13/1984
 INITIAL REVIEW POST STARTUP

05/21/1985

CATLETTSBURG, KY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMISSION LIMITS	... & BASIS ... PCT EFF ... PCT EFF
		CONTROL EQUIPMENT OR PROCESS MODIFICATION	

PM	2.0000	LB/H
CO	10.0000	T/YR
SO2	1.0000	T/YR
NOX	3.0000	T/YR
VOC	6.0000	T/YR
	1.0000	T/YR

PM	1.0000 LB/H
CO	5.0000 T/YR
SO2	2.0000 T/YR
NOX	1.0000 T/YR
VOC	9.0000 T/YR
	1.0000 T/YR

PM	0.8000 LB/H
	3.5000 T/YR

```
=====
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984
=====
SOURCE TYPE CODE 6.53
=====
```

(CONTINUED) ASHLAND SYNTHETIC FUELS, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
THERMOLIQUID HEATER	36.80 MMBTU/H	CO	3.0000 T/YR	
		SO2	1.0000 T/YR	
		NOX	2.0000 T/YR	
		VOC	1.0000 T/YR	
		PM	0.6000 LB/H	
			2.6300 T/YR	
		CO	2.0000 T/YR	
		SO2	12.0000 T/YR	
		NOX	8.0000 T/YR	
		VOC	1.0000 T/YR	
DEASHING UNIT HTRS, #501 & 502	19.80 MMBTU/H	PM	0.4000 LB/H	
			1.7500 T/YR	
		CO	1.0000 T/YR	
		SO2	9.0000 T/YR	
		NOX	6.0000 T/YR	
		VOC	1.0000 T/YR	
COAL UNLOADING	300.00 T/H			
		PM	9.0000 LB/H 3.7500 T/YR FABRIC FILTER	99.0
COAL RECLAIM	208.00 T/H			
		PM	5.2000 LB/H 4.0000 T/YR FABRIC FILTER	99.0
CRUSHED COAL BIN	208.00 T/H			
		PM	4.0000 T/YR FABRIC FILTER	99.0
COAL DRYING	208.00 T/H			
		PM	0.6000 LB/H 2.1000 T/YR FABRIC FILTER	99.0
COAL STORAGE	208.00 T/H			
		PM	1.0000 T/YR FABRIC FILTER	99.0
FLAKER	208.00 T/H			
		PM	0.2100 LB/H 0.9400 T/YR FABRIC FILTER	99.0

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1994

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ID NUMBER KY-0023

SOURCE TYPE CODE 6.53

(CONTINUED) ASHLAND SYNTHETIC FUELS, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OIL MIST ELIMINATOR				
		PM	8.1500 LB/H 35.7000 T/YR	
FLARE			MIST ELIMINATOR	99.00
		PM	1.0000 T/YR	
		SO2	1.0000 T/YR	
NAPTHA TANKS, 3		VOC	1.0000 T/YR	
RESID. OIL TANKS		VOC	1.0000 T/YR	
DISTIL. FUEL TANKS		VOC	1.0000 T/YR	
COAL HYD. REACTOR		SO2	90.0000 T/YR	99.90
			PROCESS GAS RECOVERY	

NOTES -----
NON-ATTAINMENT FOR PM,SO2,NOX. PLANT SHUTDOWN 11/18/82.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
===== ID NUMBER KY-0023
===== SOURCE TYPE CODE 6.53
===== REVIEW STATUS: 04/01/1983 02/13/1984
===== INITIAL REVIEW POST STARTUP

05/21/1985

COMPANY NAME/SITE	LOCATION	DEPT OF WATER RESOURCES	BOTTLE ROCK PROJECT	, CA	LAKE COUNTY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEOTHERMAL POWER PLANT	55.00 MW NET	H2S	5.0000 LB/H	BACT

NOTES -----
STRETCH PROCESS ON STEAM PRETREATMENT, STRETCH PROCESS FOR NON-CONDENSABLE STREAM AND H2 O2/CATALYST FOR CONDENSATE TREATMENT. A
LSO INCLUDES SURFACE CONDENSER AND TURBINE BYPASS TO PREVENT H2S

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL REVIEW	POST STARTUP
REVIEW STATUS:	04/01/1983	04/04/1984
ID NUMBER CA-0005	SOURCE TYPE CODE	6.53

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNFUELS/FUEL CONVERSION (NOT OIL SHALE)

COMPANY NAME/SITE LOCATION DOH CHEMICAL, INC., LOUISIANA DIV.

PLAQUEMINE, LA

IBERVILLE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-512

DETERMINATION MADE BY

LACD/EPA REGION VI

(AGENCY)

JAY GUPTA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/13/83

ESTIMATED DATE OF START-UP-- 1983

(504)-342-8940

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GAS PRODUCTION, SYNTHETIC

1600.00 MMBTU/H

S02

102.2000 LB/H

17.0000 PPM

TREATED USING SELECTAMINE ACID GAS REMOVAL

97.30

INCINERATOR, TAIL GAS, SULFUR R*

10.00 MMBTU/H

S02

524.0000 LB/H

GOOD COMBUSTION PRACT.

NOTES

A MORE STRINGENT CONTROL ON SULFUR EMISSIONS FROM GAS TURBINES MORE THAN OFFSETS SOMEWHAT HIGHER EMISSIONS FROM TALL GAS INCINERATOR. THUS, THE SUM OF EMISSION RATES OF THE TWO SOURCES IS BELOW THE SUM OF THE EMISSION LIMITS ALLOWED BY NSPS FOR GAS TURBINES AND STATE REGULATIONS FOR SULFUR RECOVERY PLANTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-00-1B

SOURCE TYPE CODE 6.53

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNFUELS/FUEL CONVERSION (NOT OIL SHALE)

COMPANY NAME/SITE LOCATION PACIFIC GAS & ELECTRIC CO., GEYSERS UNIT*

, CA

LAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NSR 4-4-1 NC 81-02

DETERMINATION MADE BY EPA REGION IX (AGENCY)

MATT HABER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/21/82
ESTIMATED DATE OF START-UP--
(415)-974-8209
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

110.00 MH

POLLUTANT EMITTED

H2S

7.5000 LB/H

BACT

CATALYST SYSTEM
STRETTFORD PROC./EMISSION PLAN

EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0015A

SOURCE TYPE CODE 6.53

05/21/1985

SOURCE TYPE/SIZE	SYNFUELS/FUEL CONVERSION (NOT OIL SHALE)	110.00 MW
------------------	--	-----------

COMPANY NAME/SITE LOCATION	PACIFIC GAS & ELECT. CO.
	GEYSERS UNIT 17

SONOMA COUNTY
CA

DETERMINATION IS BACK FOR A NEW SOURCE.

DETERMINATION IS BASED FOR A NEW SOURCE.
 PERMIT NO. NC-79-01
 DETERMINATION MADE BY BOB BAKER
 EPA REGION IX (AGENCY)
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/08/80
 ESTIMATED DATE OF START-UP--
 (415)-974-8220
 (PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

GEOTHERMAL UNIT 17

THROUGHPUT
CAPACITY

110.00 MW

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL E

... & BASIS
... PCT EFF

GEO THERMAL UNIT 17

110.00 MW

H2S

0.1200 KG/H SURFA

SURFACE CONDENSER/STRETTFORD PROCESS SYS

90.00

NOTES -----
GEOTHERMAL POWER PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL REVIEW	POST STARTUP
REVIEW STATUS:	04/01/1983	04/04/1984

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ID NUMBER CA-0015

SOURCE	TYPE	CODE	
			6.53

05/21/1985

55.00 MW

SACRAMENTO, CA

SONOMA COUNTY

DATE OF PERMIT ISSUANCE-- 05/05/81

ESTIMATED DATE OF START-UP--
(415)-974-8220

(415)-974-8220
(PHONE)

BOB BAKER
(AGENCY CONTACT)

THROUGHPUT
CAPACITYPOLLUTANT
EMITTED

EMISSION: LIMITS
CONTROL E

... & BASIS
... PCT EFF

55.00 MW

H2S

8-0000 LB/H

STRATFORD PROCESS UNIT

87.30

NOTES -----

NON-CONDENSABLE GAS STREAM -- STRETTFORD PROCESS UNIT -- CONDENSABLES FROM SURFACE CONDENSER - H2O2/FES04 SYS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL REVIEW	POST STARTUP
REVIEW STATUS:	04/01/1993	04/04/1984

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ID NUMBER CA-0012

SOURCE TYPE CODE 6.53

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS

COMPANY NAME/SITE LOCATION ALLIED CORP.

MONCURE, NC

CHATHAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. C657R5

DETERMINATION MADE BY

NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/13/84
ESTIMATED DATE OF START-UP-- 1985
(919)-733-7015
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FIBER PROCESS ALAN #3&4, TOTAL

VOC	106.4600 LB/H	CONDENSOR SYS & DISTALL	85.00
-----	---------------	-------------------------	-------

FIBER PROCESS ALAN #5

VOC	18.1000 LB/H	CONDENSOR SYS & DISTALL	85.00
PM	0.6500 LB/H	ESP	95.00

BOILER, #6 FUEL OIL

64.20 MMBTU

SO2	1.6000 LB/MMBTU	LOW S FUEL -- 1.5%
PM	0.1200 LB/MMBTU	CONTROLLED COMEUSTION
NOX	0.4000 LB/MMBTU	CONTROLLED COMEUSTION

HEATER, #6 FUEL OIL

17.80 MMBTU

SO2	1.6000 LB/MMBTU	LOW S FUEL -- 1.5%
PM	0.1200 LB/MMBTU	CONTROLLED COMEUSTION
NOX	0.4000 LB/MMBTU	CONTROLLED COMEUSTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 10/01/1984

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ID NUMBER NC-0034

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SYNTHETIC FIBERS 110000.00 LB/H STEAM

COMPANY NAME/SITE LOCATION CELANESE, AMCELLE PLANT
P.O. BOX 444

CUMBERLAND, MD 21502

ALLEGANY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 04/03/79
ESTIMATED DATE OF START-UP-- 1980
(215)-597-8990
(PHONE)

PERMIT NO. 78MD08-R
DETERMINATION MADE BY EPA REGION III
(AGENCY)

ED VOLLBERG
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER, COAL FIRED

110.00 MMB/H

PM

9.2400 LB/H
40.5000 T/YR

SIP

SO2

70.2300 LB/H
307.6000 T/YR

99.50
PSD

SEE NOTES

66.50

NOTES

INNOVATIVE TECHNOLOGY -- DRY FGD SYSTEM, SPRAY DRYER, & BAGHOUSE. PM LIMIT IS EQUIVALENT TO 0.021 GR/DSCF. PSD PERMIT EXPIRES 12/31/83.
SOURCE HAS REQUESTED SO2 EMISSIONS BE INCREASED TO 208.3 LB/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MD-0001

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS 245.00 MMBTU/H COAL

COMPANY NAME/SITE LOCATION E.I. DUPONT PHOENIX, NC BRUNSWICK COUNTY

DETERMINATION IS BACT PERMIT NO. NC-C67 DATE OF PERMIT ISSUANCE-- 04/25/80
 DETERMINATION MADE BY NORTH CAROLINA DEM ESTIMATED DATE OF START-UP--
 MIKE SEWELL (919)-733-6126
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT FF
BOILER	245.00 MMBTU/H COAL	PM	0.1000 LB/MMBTU 24.5000 LB/H BAGHOUSE	BACT
		SO2	2.2000 LB/MMBTU 1.4% S COAL	99.00 BACT
		NOX	0.7000 LB/MMBTU BOILER OPERATION & DESIGN	NSPS

NOTES -----
 TWO COAL FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NC-0011
 SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS 97.00 MMBTU/H EA
 COMPANY NAME/SITE LOCATION E.I. DUPONT WINONA, SC 29501 FLORENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) SC-034
 DETERMINATION MADE BY SOUTH CAROLINA DHEC
 (AGENCY)
 OTTO PEARSON
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/09/80
 ESTIMATED DATE OF START-UP--
 (803)-753-5406
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL, #1 + #2	97.00 MMBTU/H EA	PM	0.0860 LB/MMBTU	BAGHOUSE	BACT
		SO2	1.7000 LB/MMBTU	1% SULFUR IN COAL	BACT
		NOX	0.7000 LB/MMBTU	BOILER OPERATION & DESIGN	BACT

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS

COMPANY NAME/SITE LOCATION GLOBE MANUFACTURING CO.

GASTONIA, NC

GASTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 210634

DETERMINATION MADE BY

NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/01/83

ESTIMATED DATE OF START-UP-- 1983

(918)-733-7015

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS-
... PCT EFF

ELASTIC FIBER EXTRUDING LINES

425.00 LB/H

VOC

75.0000 % ANNUAL AV RED.

2 CARBON BED ADSORB. UNITS

78.00

NOTES

THERE NO ECONOMICALLY IDENTIFIABLE CONTROL OPTIONS TO IMPROVE SOLVENT RECOVERY FROM THIS TYPE PROCESS. THEREFORE, THE CARBON ADSORPTION SYSTEM WITH AN ANNUAL AVERAGE VOC REDUCTION OF 75% IS REPRESENTATIVE OF BACT.
THIS SOURCE CONSIST OF FOUR EXTRUDING LINES OF 8 CARBON BED UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER NC-0028

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS

COMPANY NAME/SITE LOCATION GLOBE MANUFACTURING CO.

GASTONIA, NC

GASTONIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 2106R6

DETERMINATION MADE BY NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/26/84
ESTIMATED DATE OF START-UP-- 1984
(919)-733-7015
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

EXTRUDING LINE, ELASTIC FIBER 2390.00 LB/D

VOC

77.0000 % ANNUAL AVG REDUCTION
4 CARBON BED ADSORBS. UNITS

77.00

NOTES -----
NOT SUBJECT TO NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 12/28/1984

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ID NUMBER NC-0028A

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SYNTHETIC FIBERS 284.40 MMBTU/H

SPARTAN MILLS DOVER, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 2211-124-8586
 DETERMINATION MADE BY GEORGIA EPD (AGENCY)
 PAUL IZANT (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 06/13/83
 ESTIMATED DATE OF START-UP-- 1985
 (404)-656-4867 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	284.40 MMBTU/H	PM	0.1000 LB/MMBTU MULTICLONE & F.F. BAGHOUSE	NSPS 99.00
		SO2	1.2000 LB/MMBTU USE OF 0.76% S COAL	NSPS
		NOX	0.7000 LB/MMBTU FURNACE, BURNER DESIGN	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER GA-0016
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 SOURCE TYPE CODE 6.54

05/21/1985

95.40 MMBTU/H

ALBANY, GA 31702

DOUGHERTY COUNTY

DATE OF PERMIT ISSUANCE-- 11/25/80

ESTIMATED DATE OF START-UP--

(404)-656-6900

(AGENCY CONTACT PERSON)

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL E

... & BASIS
... PCT EFF

96.40 MM3TU/H

502

PM 1% SULFUR FUEL OIL
0.1600 LB/M³BTU
BAGHOUSE

BACT
99.00

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER GA-0003

SOURCE	TYPE	CODE	6.55
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
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12	12	12	12
13	13	13	13
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17	17	17	17
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26	26	26	26
27	27	27	27
28	28	28	28
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30	30	30	30
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43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
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52	52	52	52
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89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC RUBBER/RUBBER TIRES

COMPANY NAME/SITE LOCATION FIRESTONE TIRE CO.
P. O. BOX 1708

ALBANY, GA 31702

DOUGHERTY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. GA 068

DETERMINATION MADE BY

GEORGIA EPD
(AGENCY)

BILL MITCHELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/13/80
ESTIMATED DATE OF START-UP-- 1982
(404)-650-6900
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TIRE SEALANT LINE

VOC

32.5000 T/YR

CARBON ADSORPTION

BACT
90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER GA-0003A

SOURCE TYPE CODE 6.55

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC RUBBER/RUBBER TIRES 27700.00 LB/H INPUT

COMPANY NAME/SITE LOCATION FIRESTONE TIRE CO. WILSON, NC

DETERMINATION IS FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE--
 PERMIT NO. NC-024 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH CAROLINA DEM (919)-733-6126
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCY EFF

TIRE PROCESS LINES 27700.00 LB/H
 PH 11.1000 LB/H BAGHOUSE AND CYCLONE BACT 90.00
 SO2 106.0000 LB/H 1.0% SULFUR OIL BACT

BOILER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NC-0009 SOURCE TYPE CODE 6.55
 PAGE G- 682

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 81000.00 LB/H EDC

COMPANY NAME/SITE LOCATION B.F. GOODRICH
HWY. 1523

CALVERT CITY, KY 42029

MARSHALL COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. KY 149 DATE OF PERMIT ISSUANCE-- 02/06/81

DETERMINATION MADE BY KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

ESTIMATED DATE OF START-UP-- 1982
(502)-564-3382
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

EDC/VCM MANUFACTURING 81000.00 LB/H EDC

VC

10.0000 PPM

NESH

NOX

0.2300 LB/H/STU

99.00

INCINERATOR
FIREBOX DESIGN/LIM. EXCESS AIR

BACT

NOTES -----
BASED ON NESHAP. ALSO PERMIT #C-80-88.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

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ID NUMBER KY-0014

SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 404.00 MMLB/YR PVC
 COMPANY NAME/SITE LOCATION B.F. GOODRICH CHEMICAL PEDRICKTOWN, NJ 08067 SALEM COUNTY
 RT 130 -- PORCUPINE RD.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 07/25/80
 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY EPA REGION II LARRY KARAS (212)-264-9538 (PHONE)
 (AGENCY) (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MONOMER RECOVERY		VC	10.0000 PPM	SOLVENT ABSORB. SYS/BACKUP INCIN.	
REACTOR OPENING LOSS		VC	0.0200 G/KG	STEAM STRIPPING CLOSED POLYTECHNOLOGY	
DISPERSION LINE RESIN	96.00 MMLB/H	VC	1350.0000 PPM/YR AV 2000.0000 PPM/D AV	STEAM STRIPPING	
DRYER FACILITY		PM	0.0200 GR/SCF	BAGHOUSE	SIP
RELIEF VALVE DISCHARGE		VC		COMPUTER REACTION CONTROLLER	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER NJ-0005
 REVIEW STATUS: 04/01/1983
 INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 6.59
 PAGE G- 684

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 404.00 MMLB/YR

COMPANY NAME/SITE LOCATION B.F. GOODRICH CHEMICAL PEDRICKTOWN, NJ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION II (AGENCY)

PETER FLYNN (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/06/82
ESTIMATED DATE OF START-UP--
(609)-264-2611 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY 260.00 MMLB/YR

POLLUTANT EMITTED

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

VC 400.0000 PPM DAILY AV
25.0000 PPM, ANNUAL AVG
STEAM STRIPPING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARUP
REVIEW STATUS: 04/01/1983

ID NUMBER NJ-0005A

SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 275000.00 T/YR

COMPANY NAME/SITE LOCATION B.F. GOODRICH CO. CALVERT CITY, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. C-82-65 KENTUCKY EPA DATE OF PERMIT ISSUANCE-- 05/27/82
 DETERMINATION MADE BY (AGENCY) (502)-564-3382 ESTIMATED DATE OF START-UP-- 1983
 BILL DILLS (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUID BED DRYERS, 2	100000.00 LB/H	PM	4.4800 LB/H 18.7400 T/YR WET SCRUBBER	BACT 99.90
PVC STORAGE SILOS, 4	438000.00 T/YR	PM	1.8400 LB/H 2.5900 T/YR BAG FILTERS	BACT
BULK PVC STORAGE SILOS, 8	584000.00 T/YR	PM	4.2900 LB/H 1.5900 T/YR BAG FILTERS	BACT
REACTOR OPENING VENT	275000.00 T/YR	VCM	20.0000 LB/MMLB PVC	BACT
BLEND TANKS, 3		VCM	0.0400 LB/H 27.5000 T/YR	BACT
PLANT FUGITIVES		VCM	27.5000 T/YR	
NOTES ----- INCINERATOR NOT LISTED UNDER PERMIT # C-82-65.				

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER KY-0021 SOURCE TYPE CODE 6.59
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 957.00 MT/YR

COMPANY NAME/SITE LOCATION FORMOSA PLASTICS POINT COMFORT, TX CALHOUN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 11/18/81
 PERMIT NO. (REGION FILE NO.) PSD-TX-226 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 5 EA	80.00 MMBTU/H	NOX	0.1100 LB/MMBTU LOW NOX BURNERS	BACT
		VOC	0.0029 LB/MMBTU FLUE GAS O2 CONTROL	BACT
HEATERS, 2	21.00 MMBTU/H EA	NOX	0.1800 LB/MMBTU LOW NOX BURNERS	BACT
		VOC	0.0040 LB/MMBTU FLUE GAS O2 CONTROL	BACT
INCIN., 2	22.00 MMBTU/H EA	NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		VOC	0.0200 LB/MMBTU FLUE GAS O2 CONTROL	BACT
EPC CRACKERS	57.00 MMBTU/H	NOX	0.1500 LB/MMBTU LOW NOX BURNERS	BACT
		VOC	0.0029 LB/MMBTU FLUE GAS O2 CONTROL	BACT
PVC DRYERS		VOC	21.0000 LB/H 400 FPM VCM IN PVC SLURRY	BACT
COOLING TOWER				

(*) INDICATES DATUM WAS TRUNCATED IN THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0048 SOURCE TYPE CODE 6.59
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(CONTINUED) FORMOSA PLASTICS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
VALVES		VOC	0.1800 LB/H SAMPL. H2O FOR VCM/5PPB HC LIM	BACT
FLANGES		VOC	2.1000 LB/H MAINTENANCE PROGRAM	BACT
PUMPS		VOC	2.1400 LB/H MAINTENANCE PROGRAM	BACT
COMPRESSOR		VOC	0.1400 LB/H DOUB. MECH. SEALS & INCIN	BACT
STARTUP/SHUTDOWN		VOC	0.0900 LB/H DOUB. MECH. SEALS & INCIN	BACT
WATER TREATMENT		VOC	0.1100 LB/H COMPLIANCE FROM NESHAPS	BACT
GAS HOLDER I		VOC	0.1100 LB/H STEAM STRIP WASTEWATER	BACT
GAS HOLDER II		VOC	0.0400 LB/H PURGE TO BOILER/INCIN	BACT
		VOC	0.0020 LB/H PURGE TO BOILER/INCIN	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 350.00 MT/YR

COMPANY NAME/SITE LOCATION SHINTECH, INC.
5618 HIGHWAY 352 EAST
FREEPORT, TX 77541

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-327
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
JOE WINKLER
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/05/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM BOILER	55.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
STEAM BOILER	55.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER TX-0079A
SOURCE TYPE CODE 6.59
PAGE G- 689

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 350.00 MT/YR

COMPANY NAME/SITE LOCATION SHINTECH, INC.
5618 HWY 352 EAST
FREEPORT, TX 77541
BRAZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-285
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
JOHN BUNYAK
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/17/80
ESTIMATED DATE OF START-UP-- 1981
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRYER STACKS, 2		PM	1.8000 LB/H EA	
REACTOR VENT FAN		PM		
PNEUMATIC VENTS, 7		PM	1.0600 LB/H EA	
INCIN. STACKS, 2		PM		
BOILER, 2	55.00 MMBTU/H EA	PM	0.3000 LB/H	
FUGITIVE EMISSIONS		PM		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0079
REVIEW STATUS: 04/01/1983
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

ALCOHOL FUEL PRODUCTION

10.00 MMGAL/YR

HASTINGS, NE

ADC-I, LIMITED

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 09/22/83
ESTIMATED DATE OF START-UP-- 1984
(402)-471-2189
(PHONE)

GENE ROBINSON
(AGENCY CONTACT PERSON)

NEBRASKA DEC
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT

BOILER, COAL FIRED

100.00 MMBTU/H

POLLUTANT
EMITTED

PM 0.0300 LB/MMBTU

FABRIC FILTER

SO2 1.2000 LB/MMBTU

LOW SULFUR FUEL

NOX 0.5000 LB/MMBTU

BOILER DESIGN & OPERATION

99.00

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER NE-0006

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION AGRIFUELS REFINING CORP.

NEW IBERIA, LA

IBERIA PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-521

DETERMINATION MADE BY

LAQD/EPA REGION VI

(AGENCY)

BHARAT CONTRACTOR

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/11/84

ESTIMATED DATE OF START-UP--

(504)-342-8340

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

BOILER, CMS, #7-84

177.00 MBTU/H

PM 35.0000 LB/H

140.0000 T/YR

ESP

NOX

63.0000 LB/H

252.0000 T/YR

LOW NOX BURNER

O2 MONITOR & LOW FLAME TEMP.

CO

1163.0000 LB/H

4650.0000 T/YR

CONTINUOUS O2 MONITOR

VE 20.0000 % OPACITY

PARTICULATE CONTROL

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

PAGE G- 692

ID NUMBER LA-0050

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

40.00 MMGAL/YR

ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION AM. MODERN FOOD ENERGY SYS

AMES, IA

STORY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 04/15/81

ESTIMATED DATE OF START-UP--

DETERMINATION MADE BY EPA REGION VII (AGENCY)

DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)

(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, PULV. COAL	150.00 MMSTU/H	SO2	2.0000 LB/MMBTU LOW SULFUR WESTERN COAL	BACT
		NOX	0.7000 LB/MMBTU	BACT
		PM	0.0300 LB/MMBTU LOW EXCESS AIR, STAGED BURN	NOTE
			FABRIC FILTER	

BOILER, OIL/GAS, 2 EA	94.50 MMBTU/H	SO2	0.5000 LB/MMBTU #2 FUEL OIL (IF NO NAT. GAS)	BACT
		NOX	0.2500 LB/MMSTU OIL	BACT
		PM	0.2000 LB/MMBTU NAT GAS	NOTE
			FABRIC FILTER	

MISCELLANEOUS BAGHOUSES

PM	0.0011 G/SCF
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NOTES

THE PLANT'S STEAM PRODUCTION CAPACITY IS 275000 LB/HR. THE PERMITS LIMITS STEAM PROD. TO 165000 LB/HR. BECAUSE AMPFES'S MODELING STUDIES WERE BASED ON THIS LEVEL OF OPERATION. THE PM LIMITS ARE NOT BACT. THE LIMITS WERE IMPOSED BECAUSE THE APPLICANT BASED A PM NON-APPLICABILITY DETERMINATION ON THIS EMISSION RATE. PERMIT AMENDED 05/15/81.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER IA-0003

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION ARCHER DANIELS MIDLAND

PEORIA, IL

PEORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 81 07 0035
DETERMINATION MADE BY

ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/28/82
ESTIMATED DATE OF START-UP-- 1982
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER, NAT. GAS FIRED

90.00 MMBTU/H

NOX

0.1700 LB/MMBTU
EQUIPMENT DESIGN

BYPRODUCT DRYER

30.00 T/H

NOX

0.1600 LB/MMBTU
EQUIPMENT DESIGN

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

PAGE G- 694

ID NUMBER IL-0020

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION 15.60 MMGAL/YR

COMPANY NAME/SITE LOCATION CIRCLE ENERGIES CORP. , NE

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/22/85
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1985
 DETERMINATION MADE BY NEBRASKA DEC GENE ROBINSON (402)-471-2189
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 BOILER, 2 COAL FIRED, EA 50.00 MMBTU/H PH 0.0500 LB/MMBTU INPUT ... PCT EFF
 FABRIC FILTER
 S02 1.1600 LB/MMBTU INPUT
 LOW S FUEL
 NOX 0.5000 LB/MMBTU INPUT
 BOILER DESIGN & OPERATION

99.00

FERMENTER & CENTRIFUGES VENTS

95.00

PROCESS VOC SOURCES 15.60 MMGAL/YR Packer SCRUBBER
 VOC
 BEN* SEE NOTES
 VOC SEE NOTES

NOTES -----
 BASIS --- , VOC - NSPS, SUBPARTS VV & WHEN PROMULGATED SUBPARTS KB & NNN, BENZENE - NESHAP, SUBPART J WHEN PROMULGATED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: SOURCE TYPE CODE 6.61
 ID NUMBER NE-0007
 PAGE 6- 695

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10.20 MMGAL/YR

ALCOHOL FUEL PRODUCTION

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION CONSOLIDATED ENERGY GROUP, LTD.

GOMRIE, IA

WEBSTER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 11/13/81

PERMIT NO.
DETERMINATION MADE BY EPA REGION VII
(AGENCY)

ESTIMATED DATE OF START-UP--

CHARLES WHITMORE
(AGENCY CONTACT PERSON)

(816)-374-6525
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, COAL FIRED, STOKER 113.00 MMBTU/H

SO2 2.0000 LB/MMBTU

BACT

NOX 0.6000 LB/MMBTU

BACT

PM 0.0300 LB/MMBTU
14.9000 T/YR

BACT

DESIGN FEATURES
STAGED COMBUST. STOKER FEEDER

BAGHOUSE

COAL HANDLING

BACT

PM 1.1200 T/YR

BACT

DUST SUPPRESSANT

PM 4.2200 T/YR

BACT

FABRIC FILTER

PM 35.0400 T/YR

BACT

EXPANSION CHAMBER

VOC 115.0000 T/YR

BACT

SCRUBBERS, FLOATING ROOF

ENTIRE FACILITY

BACT

NOTES

8760 HOURS/YR OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.61

ID NUMBER IA-0005

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION KENTUCKY AGRICULTURAL ENERGY CORP. FRANKLIN, KY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. C-84-44
 DETERMINATION MADE BY KENTUCKY DAPC
 (AGENCY)

ROGER COCK
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/13/84
 ESTIMATED DATE OF START-UP--
 (502)-564-3382
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, FLUIDIZED BED, COAL FIR*	155.40 MMBTU/H	PM	10.0000 LB/H BAGHOUSE & CYCLONE	99.50
		SO2	1.2000 LB/MMBTU LIMESTONE FLUIDIZED BED	80.00
		NOX	0.5000 LB/MMBTU BOILER DESIGN	
DRYING, SPENT GRAIN	21.35 T/H	PM	SEE NOTE	
		SO2	SEE NOTE	
		NOX	SEE NOTE	

NOTES -----
 NOTE --- DETERMINATION LISTED THE TWO PROCESSES, BOILER & DRYER, TOGETHER NOT SEPARATING OUT THE CONTRIBUTION OF EACH DEVICE TO THE TOTAL EMISSIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

23.00 MMGAL/YR ETHENOL

CACTUS, TX

MOORE COUNTY

MAPEE ALCOHOL FUEL, INC.

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-374
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 TOM DIGGS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/27/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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PROCESS STM GEN, COAL FIRED	174.10 MMBTU/H	PM	0.0370 LB/MMBTU FABRIC FILTERS	BACT
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		NOX	0.7000 LB/MMBTU LOW EXCESS AIR	BACT
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		SO2	0.6800 LB/MMBTU LOW SULFUR COAL	BACT
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AUXILIARY BOILER, NAT. GAS	35.00 MMBTU/H	PM	0.0100 LB/MMBTU USE OF NAT. GAS FUEL	BACT
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		NOX	0.0006 LB/MMBTU LOW EXCESS AIR	BACT
--	--	-----	--------------------------------	------

		SO2	0.0006 LB/MMBTU USE CF NAT. GAS FUEL	BACT
--	--	-----	--------------------------------------	------

DRYERS, 2 NAT. GAS FIRED	31.40 MMBTU/H EA	PM	0.1800 LB/MMBTU 2 CYCLONES IN SERIES	BACT
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		NOX	0.1100 LB/MMBTU LOW EXCESS AIR	85.00 BACT
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		SO2	0.0006 LB/MMBTU USE OF NATURAL GAS AS FUEL	BACT
--	--	-----	--	------

3 GRAIN CONVERGING POINTS		PM	0.0030 LB/H EA BAG FILTERS	BACT
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99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0024

SOURCE TYPE CODE 6.61

(CONTINUED) MAPEE ALCOHOL FUEL, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TRANSFER OF MILO		PM	0.0440 LB/H BAG FILTERS	BACT 99.90
MILO INLOADING & HANDLING		PM	0.8800 LB/H BAG FILTERS	BACT 99.90
GRAIN CONVEY, STORAGE TO TRUCK		PM	0.0200 LB/H BAG FILTERS	BACT 99.90
GRAIN PELLET CONVEY TO RR CAR		PM	0.0980 LB/H CYCLONE	BACT 99.50
GRAIN PELLET COVEY TO COOLER		PM	0.2300 LB/H CYCLONE	BACT 99.50
4 MILLING OF MILO POINTS		PM	1.1000 LB/H EA BAG FILTER	BACT 99.90
2 TRANSFER OF MILO POINTS		PM	0.1600 LB/H EA BAG FILTER	BACT 99.90
2 H2SO4 STORAGE TANKS		SO2	0.0400 LB/H EA SINGLE VENT W/DESICCATOR	BACT
TRUCK LOADING OF BOILER ASH		PM	6.3000 LB/H BAG FILTER	BACT 99.50
TRANSFER OF ASH		PM	0.3200 LB/H BAG FILTER	BACT 99.50
COAL UNLOAD		PM	0.3000 LB/H BAG FILTER	BACT 99.90
COAL HANDLING #1		PM	0.6000 LB/H BAG FILTER	BACT 99.90
COAL HANDLING #2		PM	0.0520 LB/H BAG FILTER	BACT 99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0024

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION MIDWEST SOLVENTS

PEKIN, IL

DETERMINATION IS B/L FOR A NEW SOURCE.
PERMIT NO. 82 10 0034
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/17/83
ESTIMATED DATE OF START-UP-- 1984
(217)-782-2113
CHRIS ROMAINE
(AGENCY CONTACT PERSON)
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, FLUIDIZED BED 170.00 MMBTU/H

PM	0.0300 LB/MMBTU	FABRIC FILTER	SIP	99.00
SO2	1.2000 LB/MMBTU 30D AV	85.0000 % REDUCTION	BACT	
NOX	0.6000 LB/MMBTU	FLUIDIZED LIMESTONE BED	BACT	
CO	SEE NOTE	EQUIPMENT DESIGN		
		EQUIPMENT DESIGN		

ASH HANDLING

PM	0.0300 GR/DSCF	FABRIC FILTER	SIP	99.00
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FUGITIVE EMISSIONS

ROUTINE CONTROL MEASURES

NOTES -----

NOTE - ALSO STATE ID NUMBER 179 060 AAD. PM - PROJECT NOT A MAJOR MODIFICATION FOR PM. EMISSION CONDITIONED TO BELOW SIP. CO - CO EMISSION LIMIT TO BE SET BASED UPON RESULTS OF TRIAL OPERATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 08/21/1984

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ID NUMBER IL-0026

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10.00 MMGAL/YR

ALCOHOL FUEL PRODUCTION

SOURCE TYPE/SIZE

LINCOLN, NE

COMPANY NAME/SITE LOCATION NEBRASKA ALCOHOL FUEL CORP.
84TH & FLETCHER

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 09/21/82
DETERMINATION MADE BY NEBRASKA DEC ESTIMATED DATE OF START-UP--
(AGENCY) (402)-471-2189
GENE ROBINSON (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	66.35 MMBTU/H	SO2	1.1600 LB/MMBTU	
			LOW S FUEL	
		PM	0.0500 LB/MMBTU	
			FABRIC FILTER	
		NOX	0.5000 LB/MMBTU	99.00
			BOILER DESIGN	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NE-0005

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION NEW ENERGY CORP.

SOUTH BEND, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. EPA-5-A-82-1
 DETERMINATION MADE BY EPA REGION V
 (AGENCY)

BONIFACE THAYIL
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/03/81
 ESTIMATED DATE OF START-UP-- 1984
 (312)-886-6054
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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COAL-FIRED BOILER	342.60 MMBTU/H			
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		SO2	1.2000 LB/MMBTU 3H AV	
		NOX	0.75% SULFUR COAL	
		PM	0.7000 LB/MMBTU	LAER
			0.0300 LB/MMBTU	99.70
			BAGHOUSE	

OIL-FIRED BOILER	176.00 MMBTU/H			
------------------	----------------	--	--	--

		SO2	0.3100 LB/MMBTU	
			MAX 0.3% SULFUR OIL	
		PM	0.0200 LB/MMBTU	LAER
		NOX	0.6000 LB/MMBTU	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

25.00 MMGAL/YR

ALCOHOL FUEL PRODUCTION

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION NEW ENGLAND ETHANOL, INC.

AUBURN, ME

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 2191

DETERMINATION MADE BY MAINE DEP

(AGENCY)

ROBERT BALLEW

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/10/83

ESTIMATED DATE OF START-UP-- 1986

(207)-289-2437

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, COAL

175.00 MMBTU/H

SO2	1.8000 LB/MMBTU				BACT
NOX	MAX 1.2% S CONTENT BY WT				BACT
PM	0.7000 LB/MMBTU 2H AV				BACT
	0.0800 LB/MMBTU				BACT

BAGHOUSE

OPACITY MONITOR, O2, & CO MONITORS

BOILER, NO. 2 OIL

175.00 MMBTU/H

SO2					BACT
PM	NO. 2 FUEL				BACT
PM	NO. 2 FUEL / OPACITY, CO, & O2 MONITORS				BACT

COAL HANDLING

BACT 99.90

ASH HANDLING

BAGHOUSE ON SILO
SURFACTANT COATED, ENCLOSED HANDLING

BACT 99.90

ROADS & PARKING

BAGHOUSE ON VENT
3 DAY STORAGE SILO, H2O ADDED FOR TRANSPORT

BACT 99.90

TRUCK & RAIL TRANSFER, ETHANOL

AREA PAVED, VEGETATED, OR COVERED

BACT 95.00

VAPOR RECOVERY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER ME-0006

SOURCE TYPE CODE 6.61

(CONTINUED) NEW ENGLAND ETHANOL, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANK, ETHANOL		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, CYCLOHEXANE		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, ALDEHYDE		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, OIL		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, GASOLINE & DIESEL		VOC	VAPOR RECOVERY	BACT 95.00
DRYER, GRAIN & SOLUBLES, DDGS		PM	4.0800 LB/H BAGHOUSE	BACT 99.90
MATERIAL HANDLING, CORN UNLOADI*		PM	NEG. PRESSURE BAGHOUSE	BACT 99.90
MATERIAL HANDLING, CORN CONVEYI*		PM	BAGHOUSE	BACT 99.90
MATERIAL HANDLING, CORN CLEANING		PM	BAGHOUSE	BACT 99.90

NOTES -----

NO. 2 OIL BOILER IS BACK UP FOR COAL BOILER. COMBINED FIRING RATE AT ANY ONE TIME SHALL NOT EXCEED 175 MMBTU. THE COAL BOILER SHALL BE CAPABLE OF MEETING 0.060 LB/MMBTU PM WITH ONE MODULE OFF LINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	REVIEW STATUS:	INITIAL REVIEW	POST STARTUP
PAGE 6-- 704	ID NUMBER ME-0006	SOURCE TYPE CODE	6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION PEAT METHANOL ASSOCIATES

NEAR CRESWELL, NC

WASHINGTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 4930

DETERMINATION MADE BY NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/07/82
ESTIMATED DATE OF START-UP-- 1985
(919)-733-6126
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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PEAT DRYER	52.50 MMBTU/H	PM	3.2000 LB/H CYCLONE/ESP	98.80
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		S02	10.7000 LB/H 0.2000 LB/MMBTU .26% LOW S PEAT	
--	--	-----	--	--

PEAT BOILER	300.00 MMBTU/H	PM	9.7000 LB/H 0.0330 LB/MMBTU BAGFILTER	98.00
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		S02	153.0000 LB/H 0.5100 LB/MMBTU .26% LOW S PEAT	
--	--	-----	---	--

SULFUR RECOVERY		S02	23.0000 LB/H CLAUS/SCOT PLANT	99.90
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(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NC-0024

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

ALCOHOL FUEL PRODUCTION

20.00 MMGAL/YR

ROCK ISLAND, IL

ROCK ISLAND LIQUID FUELS, INC.

ROCK ISLAND COUNTY

DETERMINATION IS FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 02/01/82

PERMIT NO. 81100017

ESTIMATED DATE OF START-UP-- 1983

DETERMINATION MADE BY ILLINOIS EPA (AGENCY)

CHRIS ROMAINE (AGENCY CONTACT PERSON)

(217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... FCT EFF

GRAIN HANDLING & STORAGE

8.00 MMBU/YR CORN

PM 4.5300 LB/H

SIP

DISTILLATION ETHANOL STORAGE

VOC 2.1800 LB/H

SIP

NOTES -----

NON-MAJOR PROJECT DEEMED CONTROVERSIAL DUE TO PUBLIC INTEREST. PUBLIC HEARING HELD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER IL-0009

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ADVANCE RESEARCH CHEMICALS, INC.

BROKEN ARROW, OK

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. T84-13

DETERMINATION MADE BY

TULSA CITY-COUNTY HEALTH DEPT

(AGENCY)

J. VAN SANDT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/14/84

ESTIMATED DATE OF START-UP-- 1984

(918)-744-1000

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

REACTORS, BATCH, METALLIC HALID* 30000.00 LB/YR

F 40.0000 LB/YR

SCRUBBERS

WATER & KOH

PM 1.0000 T/YR

99.90

NOTES

PERMIT MAX LIMITS SET AT 100 LB/YR HALIDE GAS EMISSIONS & 75000 LB/YR PRODUCT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER OK-0020

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AEROJET STRATEGIC PROPULSION

, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 7542

DETERMINATION MADE BY

SACRAMENTO APCD
(AGENCY)

ROBERT KNIGHT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/01/83
ESTIMATED DATE OF START-UP--
(916)-366-2107
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CHEMICAL PROCESS

VOC

16.5000 LB/D

CARBON ADSORBER

98.00

NOTES -----
NOT NSR BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER CA-0072

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIR PRODUCTS & CHEMICALS, INC. NEW ORLEANS, LA ORLEANS PARISH

DETERMINATION IS PERMIT NO. PSD-LA-515 DATE OF PERMIT ISSUANCE-- 07/20/84
 DETERMINATION MADE BY LAGO/EPA REGION VI ESTIMATED DATE OF START-UP-- 1984
 (AGENCY) (AGENCY) BHARAT CONTRACTOR (504)-342-8940
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 TURBINE/BOILER, N.G./WASTE HEAT 203.00 MMBTU/H NOX 172.0000 LB/H B/N
 753.0000 T/YR COMBUSTOR DESIGN
 NOX 217.0000 FPM COMBUSTOR DESIGN B/N
 VE NO VISIBLE EMISSION

NOTES -----
 SUBJECT TO NSPS, SUBPART GG

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER LA-0049 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIR PRODUCTS & CHEMICALS, INC.

GEISMAR, LA

ASCENSION PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-519

DETERMINATION MADE BY

LAQD/EPA REGION VI

(AGENCY)

AGENCY CONTRACT PERSON

AGENCY CONTRACT PERSON

AGENCY CONTRACT PERSON

DATE OF PERMIT ISSUANCE-- 07/20/84

ESTIMATED DATE OF START-UP-- 1985

(504)-342-8940

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

REFORMER STACK

127.00 M³BTU/H

NOX

28.2000 LB/H

124.0000 T/YR

LOW NOX BURNERS

10.0000 % OPACITY

BACT

FLARE

NOX

1.1000 LB/H

NO VISIBLE EMISSION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER LA-0052

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1984

88000.00 T/YR

CALVERT CITY, KY

DATE OF PERMIT ISSUANCE-- 09/06/80
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382
(PHONE)

BILL DILLS
(AGENCY CONTACT PERSON)

FOR A NEW SOURCE.

KENTUCKY DAPC
(AGENCY)

EMISSION LIMITS

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

PROCESSES SUBJECT
TO THIS PERMIT

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

88000.00 T/YR

PM

PROCESS LIMITED

ELECTRIC ARC FURNACE

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 6.62

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER KY-0022

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

15900.00 T/YR

COMPANY NAME/SITE LOCATION AIRCO SPEER

ST. MARY'S, PA

ELK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 80PA06

DETERMINATION MADE BY EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/20/81

ESTIMATED DATE OF START-UP-- 1981

(215)-597-2711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

GRAPHITIZING FURNACE

15.90 MT/YR

PM

18.3000 LB/H

INCINERATION (AFTER BURNER)

BACT

SO2

30.5000 LB/H

BACT

CO

545.0000 LB/H

BACT

H2S

5.3000 LB/H

BACT

SO2

55.5000 LB/H

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0009

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIRCO SPEER

ST. MARY'S, PA

ELK COUNTY

DETERMINATION IS FOR A NEW SOURCE.

PERMIT NO. 79-PA-26

DETERMINATION MADE BY EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/15/80

ESTIMATED DATE OF START-UP-- 1980

(215)-597-2711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

COKE BURNING KILN, 2

75.00 MLB/H

PM

1.7400 LB/H

BAGHOUSE/INCINERATOR

BACT

SO2

0.4400 LB/H

BAGHOUSE/INCINERATOR

BACT

CO

0.0800 LB/H

% SULFUR IN COKE

BACT

KILN, 2

75.00 MLB/H

PM

1.7400 LB/H

BAGHOUSE/INCINERATOR

BACT

SO2

0.4400 LB/H

BAGHOUSE/INCINERATOR

BACT

CO

0.0800 LB/H

% SULFUR IN COKE

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0008

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIRCO SPEER CARBON GRAPHITE

, LA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. LA-283

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/05/80

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

DUST COLLECTOR Q.C. & I. LAB.

PM 0.2100 LB/H

BAGFILTERS

BACT

99.00

DUST COLLECTOR, MAINTENANCE AND*

PM 0.1300 LB/H

BAGFILTERS

BACT

99.00

DUST COLLECTOR, PROCESS MATERIAL*

PM 1.2900 LB/H

BAGFILTER

BACT

99.80

CO 0.0500 LB/H

NONE

BACT

99.80

DUST COLLECTOR, PROCESS MATERIAL*

PM 1.0300 LB/H

BAGFILTER

BACT

99.90

SILO VENT FILTER, PROCESS MATERIAL*

PM 0.0700 LB/H

BAGFILTER

BACT

99.90

DUST COLLECTOR, FINISHING & SHI*

PM 1.2900 LB/H

BAGFILTER

BACT

99.80

CONDENSER, PRIMARY PITCH TANKS *

PM 0.0400 LB/H

EA CONDENSER VAPOR RECOVERY

BACT

99.00

PREHEATER COMBUSTION STACKS P.I*

PM TRACE EA

NONE

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

(CONTINUED) AIRCO SPEER CARBON GRAPHITE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
CONDENSER, SECONDARY PITCH TANK*		SO2	TRACE EA NONE	BACT
		CO	TRACE EA NONE	BACT
		H2S	TRACE EA NONE	BACT
		PM	0.0100 LB/H EA VAPOR RECOVERY	BACT 99.00
DUST COLLECTOR MILL, MIX AND EX*		PM	1.3700 LB/H EA BAGFILTER	BACT 99.80
DUST COLLECTOR MILL, MIX AND EX*		PM	0.6900 LB/H BAGFILTER	BACT 99.80
SILLO VENT FILTER MILL, MIX & EX*		PM	0.0500 LB/H EA BAGFILTER	BACT 99.00
CONDENSER, PRIMARY PITCH TANK MI*		PM	0.0400 LB/H EA VAPOR RECOVERY	BACT 99.00
CONDENSER PRIMARY TAR TANK MILL*		PM	0.0500 LB/H VAPOR RECOVERY	BACT 99.00
SCRAP CRUSHINGS		PM	1.3700 LB/H BAGFILTER	BACT 99.80
LOAD - UNLOAD		PM	0.6900 LB/H BAGFILTER	BACT 99.80
LOAD - UNLOAD, 4		PM	1.3700 LB/H EA BAGFILTER	BACT 99.80
CARBOTTOM BAKING, 4	136.00 MMBTU/H EA	PM	17.8000 LB/H EA INCIN.	BACT
		SO2	45.1300 LB/H EA 0.7% S OIL	BACT
		CO	0.4700 LB/H EA NONE	BACT

(CONTINUED) AIRCO SPEER CARBON GRAPHITE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SIDEBLOCK MFG.		PM	1.3700 LB/H BAGFILTER	BACT 99.70
SILLO VENT FILTER GRAPHITIZING, *		PM	0.0700 LB/H EA BAGFILTER	BACT 99.00
MONITOR GRAPHITIZING, 4		PM	18.5000 LB/H EA NONE	BACT
		S02	44.3100 LB/H EA 0.8% S COKE & ELECTRODES	BACT
		CO	1348.3000 LB/H NONE	BACT
		H2S	46.0600 LB/H EA 0.8% S COKE & ELECTRODES	BACT
STACK GRAPHITIZING, 4		S02	81.0900 LB/H EA 0.8% S COKE & ELECTRODES	BACT
		CO	6.6500 LB/H EA NONE	BACT
		H2S	15.3500 LB/H EA 0.8% S COKE & ELECTRODES	BACT
CALCINER BOILER, GAS, OIL	56.20 MMBTU/H	PM	5.7000 LB/H NONE	BACT
		S02	171.6000 LB/H 0.7% S OIL	BACT
		CO	5.7000 LB/H WASTE HEAT BOILERS	BACT
COKER, OIL/GAS	71.60 MMBTU/H	PM	4.4000 LB/H NONE	BACT
		S02	62.8600 LB/H 0.7% S OIL	BACT
		CO	2.2000 LB/H WASTE HEAT BOILER	BACT
FURNACE, NAT. GAS	2.20 MMBTU/H	PM	0.1100 LB/H NONE	BACT
		S02	0.6300 LB/H NONE	BACT

(CONTINUED) AIRCO SPEER CARBON GRAPHITE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

CO	0.1100 LB/H	BACT
	NONE	

NOTES -----

MFG GRAPHITE ELECTRODES FOR USE IN ELECTRIC ARC FURNACES FOR THE STEEL INDUSTRY. RAW MATERIALS INCLUDE: LIQUID PITCH, OIL, NAT
URAL GAS, BINDERS, SAND, & VARIOUS ADITIVES. TRACE EQUALS LESS THAN 0.01 LB/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0016

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ALLIED CHEMICAL

SCOTLANDVILLE, LA

EAST BATON ROUGE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-104
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 11/21/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

BOILER

131.00 MMBTU/H

PM	0.0015	LB/MMBTU	LIMESTONE SCRUBBER	BACT
SO2	0.0740	LB/MMBTU		99.00 BACT
NOX	0.3000	LB/MMBTU	LOW SULFUR OIL (.7 %)	BACT
VOC	0.0064	LB/MMBTU	LOW EXCESS AIR	BACT
			EFFICIENT COMBUSTION	

REGENERATION HEATER

4.00 MMBTU/H

PM	0.0150	LB/MMBTU	EFFICIENT COMBUSTION	BACT
SO2	0.0023	LB/MMBTU		BACT
NOX	0.2000	LB/MMBTU	LOW SULFUR OIL (.7 %)	BACT
VOC	0.0003	LB/MMBTU	LOW EXCESS AIR	BACT
			EFFICIENT COMBUSTION	

CATALYST ACTIVATOR

BACT

CATALYST ACTIVATOR VENT

PM 0.1200 LB/H

MAINTENANCE PROGRAM

PURGE FLARE

PM 0.1400 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0035

SOURCE TYPE CODE 6.62

(CONTINUED) ALLIED CHEMICAL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
POWDER BLOWER		VOC	0.5300 LB/H STEAM INJECTION	BACT
FEED BLOWER		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
FEED BLOWER		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
BLENDER BLOWER		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
BLENDER BLOWER		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
PELLET BLOWER		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
TRANSFER BLOWER		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
FUGITIVE EMISSIONS		PM	3.0000 LB/H MAINTENANCE PROGRAM	BACT
		VOC	6.3000 LB/H CHECK ONCE PER MONTH	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

12000.00 T/YR

AMERICAN CHROME & CHEMICAL, INC.

TX

NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9212

TEXAS ACB
(AGENCY)

AMBA MANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/29/82
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SCRUBBER #1

NAOH 0.5000 LB/H
VENTURI SCRUBBER

95.00

SCRUBBER #2

CL 0.5000 LB/H
VENTURI SCRUBBER

95.00

ACI* 0.1200 LB/H
VENTURI SCRUBBER

95.00

SOD* 0.1400 LB/H
VENTURI SCRUBBER

SCRUBBER #3

ACI* 0.4400 LB/H
VENTURI SCRUBBER

99.50

NOTES -----

DETERMINED BY MODELING AND HEALTH EFFECTS

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0122

SOURCE TYPE CODE 6.62

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

220.00 MMLB/YR

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AMERICAN HOECHST

PASADENA, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 5264

DETERMINATION MADE BY TEXAS ACB

(AGENCY)

SAM CROWTHER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/01/77

ESTIMATED DATE OF START-UP-- 1980

(512)-451-5711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

STORAGE TANKS

VOC

0.5500 T/YR

CONDENSER & CARBON ADSORBER

AP42

90.00

STORAGE BINS

PM

2.3000 T/YR

350.0000 G/G/CU. M CYCLONES

TECH

PROCESS VENTS

VOC

NONE

VENTED TO FUEL SYSTEM OR FLARE

NOTES -----

FIRST TEXAS POLYETHYLENE PLANT WITH NO PROCESS VENTS TO ATMOSPHERE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0063A

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ARKANSAS EASTMAN

BATESVILLE, AR

INDEPENDENCE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-AR-311
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)

JOHN BUNYAK
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/27/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

BOILER, COAL-FIRED

193.00 MMBTU/H

PM

0.0600 LB/MMBTU

BACT

SO2

1.6000 LB/MMBTU

BACT

NOX

0.6000 LB/MMBTU

BACT

LOW SULFUR COAL (1.0% S)
 FLUE GAS OXYGEN MONITOR

COAL HANDLING SYS

PM 1.0000 LB/H

BACT

EXISTING CONTROL EQUIP.
 COVERS, VENTS AND SPRAYING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER AR-0002

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION BASF-WYANDOTTE
P.O. BOX 181

PARSIPPANY, LA 70054

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOE WINKLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY
303.00 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STEAM BOILER

303.00 MMBTU/H

NOX

36.4000 LB/H
C.1200 LB/MMBTU
LOW NOX BURNER

BACT

NOTES -----
NATURAL GAS USED AS FUEL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0014

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.62

INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION BOFORS-NOBEL, INC.

MUSKEGON, MI

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 629-83

DETERMINATION MADE BY MICHIGAN DNR

(AGENCY)

GREGORY EDWARDS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/15/85

ESTIMATED DATE OF START-UP-- 1985

(517)-322-1330

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

MFG. OF MEOCA

CONFIDENTIAL

VOC

0.1300 LB/H

0.5500 T/YR

BACT

CAS*

0.0100 "/CU. METER

WET SCRUBBER & CARBON ADSORPTION

99.95

VE

0.0000 % OPACITY

BAGFILTER + DUAL PARALLEL ABSOLUTE FILTERS

99.99

NOTES

MEOCA (CAS#101-14-4) = 4,4'-METHYLENE-BIS-(2 CHLOROANILINE), ALSO CALLED MOCA & CURENE 442. PERMITS INCLUDE ENTIRE PROCESS, SYNTHEIS THROUGH PACKAGING.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS:

INITIAL REVIEW POST STARTUP

ID NUMBER MI-0026A

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 5500.00 MMBL/YR (SEE NOTE)

COMPANY NAME/SITE LOCATION B.F. GOODRICH CHEMICAL GROUP CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-326
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

BILL TAYLOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/24/80
ESTIMATED DATE OF START-UP-- 1983
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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EDC CRACKING FURNACES 98.00 MMBTU/H EA

PM	0.0110 LB/MMBTU	NATURAL GAS AS FUEL	BACT
SO2	0.0006 LB/MMBTU	NATURAL GAS AS FUEL	BACT
NOX	0.1400 LB/MMBTU	NATURAL GAS AS FUEL	BACT
		LOW NOX BURNER	
		STAGED BURN + LOW FLAME TEMP.	
CO	0.0180 LB/MMBTU	O2 FLUE GAS MONITORING	BACT

PVC SILOS, 52 EA 150.00 MMBTU/H

PM	6.1600 LB/H	MULTI-COMPARTMENT BAGHOUSE	BACT
NOX	0.4700 LB/MMBTU	O2 FLUE GAS MONITORING	99.70 BACT
CO	0.0090 LB/MMBTU	O2 FLUE GAS MONITORING	BACT

WASTE GAS INCIN. 24.00 MMBTU/H

NOX	0.4900 LB/MMBTU	O2 FLUE GAS MONITORING	BACT
CO	0.0010 LB/MMBTU	FLUE GAS MONITORING	BACT
PM	4.5600 LB/H	CYCLONE SEPERATOR + WET SCRUB.	BACT
		BOTH DEVICES RECYCLED	99.70

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) B.F. GOODRICH CHEMICAL GROUP

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	338.00 MMBTU/H			
		PM	0.0150 LB/MMBTU BAGHOUSE, MULTI-COMPARTMENT	BACT
		SO2	0.3300 LB/MMBTU	99.70 BACT
		NOX	FLUE GAS DESULFURIZATION 0.7000 LB/MMBTU	96.00 NSPS
		CO	BOILER DESIGN 0.0800 LB/MMBTU HIGH EXCESS AIR	BACT

NOTES -----

4 EDC CRACKING FURNACES (NATURAL GAS FIRED), 52 PVC SILOS WASTE GAS INCINERATOR, WASTE GAS INCINERATOR, AND 4 PVC DRYERS USING STEAM PRODUCED BY A COAL-FIRED SPREADER STOKER BOILER. EDC - 2700 MMLB/YR, VCM - 1700 MMLB/YR, PVC -1100 MM LB/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

===== ID NUMBER LA-0015 ===== INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
===== SOURCE TYPE CODE 6.62 =====

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION B. F. GOODRICH CO.

AVON LAKE, OH

LORAIN COUNTY

DETERMINATION IS B/L
PERMIT NO. 1947030004
DETERMINATION MADE BY

OHIO EPA NED
(AGENCY)

DENNIS BUSH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/30/81
ESTIMATED DATE OF START-UP-- 1983
(216)-425-9171
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

COAL FIRED BOILER 238.00 MMBTU/H

SO2	1.2000 LB/MMBTU 1250.0000 T/YR	FLUIDIZED BED COMBUSTION	LAER
CO	0.1900 LB/MMBTU 200.0000 T/YR	COMBUSTION CONTROL	90.00 BACT
NOX	0.7000 LB/MMBTU 730.0000 T/YR	COMBUSTION CONTROL	BACT
PM	0.0600 LB/MMBTU 63.0000 T/YR	FABRIC FILTER	BACT
			99.00

NOTES -----
INTERNAL OFFSETS FOR SO2 PROVIDED BY REDUCING SULFUR CONTENT OF COAL USED IN EXISTING BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER OH-0023

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
 OTHER CHEMICAL
 152.30 MMBTU/H
 COMPANY NAME/SITE LOCATION B.F. GOODRICH, CHEMICAL DIV
 BULLS LANE
 LOUISVILLE, KY
 JEFFERSON COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
 PERMIT NO. KY-091
 DETERMINATION MADE BY KENTUCKY DAPC
 (AGENCY)
 JOHN MCCARTHY
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/28/80
 ESTIMATED DATE OF START-UP--
 (502)-587-3327
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER		PM	0.0300 LB/MMBTU BAGHOUSE	98.60
		SO2	1.0000 LB/MMBTU LOW S COAL	85.00

NOTES -----
 SUBJECT TO NON-ATTAINMENT REQUIREMENTS OF THE KENTUCKY SIP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER KY-0012
 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

18000.00 BBL

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION CONOCO CHEMICAL CO.

LIVERPOOL, TX

BRAZORIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X-3826

DETERMINATION MADE BY

TEXAS ACB

(AGENCY)

ED KASPRZYK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/82

ESTIMATED DATE OF START-UP-- 1983

(512)-451-5711

(PHCNE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STORAGE TANKS, 2

1.19 MMBBL/YR EA

BEN*

1.3000 T/YR

AP42

INT. FLOAT. ROOF W/DOUBLE SEALS

SEAL POTS VENT TO ACTIV. CHARCOAL BEDS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0107

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION DIAMOND SHAMROCK CORP.

CASTLE HAYNE, NC

NEW HANOVER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NC 058

DETERMINATION MADE BY

NORTH CAROLINA DEM

(AGENCY)

MIKE SEWELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

(919)-753-6126

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SODIUM BICHROMATIC PLANT/BOILERS 32.50 T/H

SO2

25.0000 LB/MMBTU

SCRUBBER/LOW SULFUR COAL
ADDITION

BACT

PM

96.4300

UNKNOWN
BAGHOUSE-SCRUBBER
ADDITION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NC-0004

SOURCE TYPE CODE 5.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION DOW CHEMICAL CLUTE, TX BRAZORIA COUNTY
 DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. X3873
 DETERMINATION MADE BY TEXAS ACB
 (AGENCY) L. ROBERTS
 (AGENCY CONTACT PERSON) (PHONE)
 DATE OF PERMIT ISSUANCE-- 10/01/82
 ESTIMATED DATE OF START-UP--
 (512)-451-5711
 (PHONE)
 PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 PRODUCT STRIPPER
 ALK* 2.1000 T/YR PACKED TOWER WATER SCRUBBER 96.00

NOTES -----
 EMISSIONS ARE SUSPECTED CARCINOGENS, MUTAGENS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0105
 SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION DOW CHEMICAL CO.

PLAQUEMINE, LA

IBERVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-393
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/11/81
ESTIMATED DATE OF START-UP-- 1982
(214)-767-1594
TOM DIGGS
(AGENCY CONTACT PERSON)
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, NAT. GAS-FIRED, 2 EA	1203.00 MMBTU/H	NOX	0.4400 LB/MMBTU	NSPS
		CO	0.1200 LB/MMBTU	85.00
			GOOD COMBUSTION PRACTICE	BACT

NOTES -----
2 NATURAL GAS-FIRED TURBINE GENERATOR SETS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER LA-0011
SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION EMERY INDUSTRIES CINCINNATI, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. OHIO 14-312
DETERMINATION MADE BY SW OHIO AFC
(AGENCY)

JIM BAIRET
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/23/80
ESTIMATED DATE OF START-UP--
(513)-251-8777
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, COAL-FIRED

THROUGHPUT
CAPACITY

35.00 MMBTU/H

POLLUTANT
EMITTED

PM 0.0600 LB/MMBTU
SO2 1.6000 LB/MMBTU
NOX 0.7000 LB/MMBTU

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

LOW S COAL < 1.0% S

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER OH-7013

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ESK CORP.

HENNEPIN, IL

PUTNAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 79 04 0002

ILLINOIS EPA
(AGENCY)

CHRIS ROMAIN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/07/78
ESTIMATED DATE OF START-UP-- 1979
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FURNACE, SILICON CARBIDE, 12

4.23 T/YR

SO2

967.0000 LB/H

MATERIAL SPECIFICATION & OPERATION

BACT

MATERIAL HANDLING & PROCESSING

PM

0.0150 GR/DSCF

FABRIC FILTER
ENCLOSURES

BACT

VE

0.0000 % OPACITY

COVERED VEHICLES

NOTES

SOURCE INITIALLY GRANTED TEMPORARY PSD PERMIT WITH FLARING OF H2S IN 1979. SOURCE ISSUED REVISED PSD PERMIT IN 4/84 AUTHORIZIN
G OPERATION WITH FLARING ON A PERMANENT BASIS. ALSO PERMIT NUMBER 155 801 AAC.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER IL-0004

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION EXXON CHEMICAL

BATON ROUGE, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-221
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 05/01/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
JOHN BUNYAK
(AGENCY CONTACT PERSON)
(PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
THERMAL OXIDIZERS, 2 EA 141.00 MMBTU/H
SO2 2.0600 LB/MMBTU
THERMAL SCRUBBER
BACT
90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION E.I. DUPONT DE NEMOURS

CIRCLEVILLE, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. EPA-5-A-81-1
 DETERMINATION MADE BY EPA REGION V
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 12/08/80
 ESTIMATED DATE OF START-UP--
 (312)-886-6054
 (PHONE)

BONIFACE THAYIL
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL-FIRED, 2	70000.00 LB/H	SO2	1.6030 LB/MMBTU		
			1/2 S COAL		
		PM	0.0600 LB/MMBTU		
			BAGHOUSE FILTERS		
		NOX	0.6000 LB/MMBTU		
			LOW EXCESS AIR & BURNER DESIGN		

NOTES -----
 SOURCE NOT BUILT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION E.I. DUPONT DE NEMOURS

LAPLACE, TX ST. JOHN THE BAPTIST COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-335
DETERMINATION MADE BY EPA REGION VI
(AGENCY)TOM DIGGS
(AGENCY CONTACT PERSON)DATE OF PERMIT ISSUANCE-- 04/28/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)PROCESSES SUBJECT
TO THIS PERMITTHROUGHPUT
CAPACITYPOLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

240.00 MMBTU/H

PM

0.0500 LB/MMBTU OIL
0.0840 LB/MMBTU COAL

SO2

0.7900 LB/MMBTU OIL
1.6900 LB/MMBTU COAL

NOX

0.3000 LB/MMBTU OIL
0.6000 LB/MMBTU COAL
LOW SULFUR COAL (1.0%)
LOW NOX BURNERS

99.20

COAL CAR UNLOAD

PM 0.2000 LB/H

BAGHOUSE

BACT
99.00

CONVEYING TRANSFER

PM 0.1330 LB/H

ENCLOSED

BACT

LOAD

PM 0.2400 LB/H

ENCLOSED

BACT

EROSION

PM 0.0170 LB/H

WETTING

BACT

PILE EROSION

PM 0.0170 LB/H

WETTING

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0027

SOURCE TYPE CODE 6.62

(CONTINUED) E.I. DUPONT DE NEMOURS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECLAIMING		PM	0.0180 LB/H DUST SUPPLEMENT	BACT
PUMPING		PM	0.2120 LB/H DUST SUPPLEMENT	BACT
ASH HANDLING		PM	0.0050 LB/H BAG FILTER	BACT 95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER TX-0027
SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION FERRO CHEMICAL DIV OF FERRO CORP.

BEDFORD, OH 44146

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 13-956

DETERMINATION MADE BY

CLEVELAND DAPC

(AGENCY)

IKRAM HABIB

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

1982

(216)-664-3508

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

BOILER

3.12 MMBTU/H

PM

0.1690 LB/H

0.0540 LB/MMBTU

WET SCRUBBER

95.00

NOTES -----

SCRUBBER NEED ONLY BE OPERATED DURING COMBUSTION OF WASTE SOLVENT FUELS. SCRUBBER OPERATION NOT REQUIRED FOR NO.2 OIL OR NATURAL GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER OH-0025

SOURCE TYPE CODE

6.62

APPENDIX --- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION HCC CHEMICAL CO.
CONVENT CHEMICAL CORP.

CONVENT, LA

ST. JAMES PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-108
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/06/80
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

BOILER, SPREADER STOKER 312.50 MMBTU/H

S02	0.3200	LB/MMBTU COAL	BACT
NOX	0.7000	LB/MMBTU COAL	96.00 BACT
CO	0.0950	LB/MMBTU COAL	BACT
PM	0.0200	LB/MMBTU COAL	BACT
		BOILER DESIGN	99.70
		BOILER OPERATION	BACT
		BAGHOUSE	99.70
S02	0.1400	LB/MMBTU RESID. OIL	BACT
NOX	0.3000	LB/MMBTU RESID. OIL	96.00 NSPS
CO	0.0360	LB/MMBTU RESID. OIL	BACT
PM	0.0200	LB/MMBTU RESID. OIL	BACT
		BOILER DESIGN	99.70
		BOILER OPERATION	BACT
		BAGHOUSE	99.70
S02	0.3200	LB/MMBTU DIST OIL	BACT
NOX	0.1600	LB/MMBTU DIST OIL	95.00 BACT
CO	0.0360	LB/MMBTU DIST OIL	BACT
PM	0.0140	LB/MMBTU DIST OIL	BACT
		BOILER DESIGN	99.70
		BOILER OPERATION	BACT
		BAGHOUSE	99.70

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) HCC CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILER, GAS/OIL	173.00 MMBTU/H	SO2	0.0006 LB/MMBTU N. GAS	BACT
			GAS AS FUEL	
		NOX	0.1700 LB/MMBTU N. GAS	BACT
			BOILER DESIGN	
		CO	0.0170 LB/MMBTU N. GAS	BACT
			BOILER OPERATION	
		PM	0.0100 LB/MMBTU N. GAS	BACT
			GAS AS FUEL	
		SO2	0.3200 LB/MMBTU	BACT
			FLUE GAS DESULFURIZATION	96.00 NSPS
		NOX	0.3000 LB/MMBTU	
			BOILER DESIGN	
		CO	0.0400 LB/MMBTU	BACT
			BOILER OPERATION	
		PM	0.0200 LB/MMBTU	BACT
			BAGHOUSE	99.70
BOILER, WASTE GAS	230.00 MMBTU/H	NOX	0.2000 LB/MMBTU	
			BOILER DESIGN	
		PM	0.0100 LB/MMBTU	
			BAGHOUSE	99.70
COAL CRUSHER HOUSE		PM	2.1500 LB/H	
			BAGHOUSE	99.70
COAL BUNKER HOUSE		PM	0.3600 LB/H	
			BAGHOUSE	99.70
ASH SILO		PM	0.2300 LB/H	
			BAGHOUSE	99.70
COAL HANDLING		PM	5.3000 LB/H	
			HANDLING TECHNIQUES	

NOTES -----

MODIFIED PERMIT ISSUED 11-06-80. SPREADER STOKER BOILER MAY USE NATURAL GAS, DISTILLATE OIL, OR RESIDUAL OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0018

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 260.00 MMLB/YR

COMPANY NAME/SITE LOCATION HIMONT USA, INC. PASADENA, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/11/85
 PERMIT NO. 9496 ESTIMATED DATE OF START-UP-- 1985
 DETERMINATION MADE BY TEXAS ACB AMBA MANN (512)-451-5711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... FCT EFF
 POLYPROPYLENE PROCESS 260.00 MMLB/YR VOC 25.9000 T/YR BACT
 FLARE 99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER TX-0160
 SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ICI AMERICAS, INC.

, VA

CHESTERFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 50418

DETERMINATION MADE BY VIRGINIA APCB
(AGENCY)

PAUL PITTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/28/82
ESTIMATED DATE OF START-UP--
(804)-786-4367
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VIRGIN CHIP BUNKER	6.50 T/H	PM	0.0025 LB/H BAGFILTERS	99.90
VIRGIN CHIP HOPPER	11.20 T/H	PM	0.0025 LB/H CYCLONE	99.90
RECLAIM CHIP HOPPER	11.20 T/H	PM	0.0025 LB/H CYCLONE	99.90
FLAKE BUNKER	4.50 T/H	PM	0.2400 LB/H BAGFILTER	99.95
FLAKE HOPPER	1.50 T/H	PM	0.4200 LB/H BAGFILTER	99.95
STENTER CONVEYOR	2.50 T/H	PM		
EDGE/SCRAP CONVEYOR	5.50 T/H	PM	0.0025 LB/H BAGFILTER	99.95
SILT/SCRAP CONVEYOR	1.50 T/H	PM	0.0011 LB/H BAGFILTER	99.95
SLITTER	1.00 T/H			

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER VA-0016

SOURCE TYPE CODE 6.62

(CONTINUED) ICI AMERICAS, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
DRYER	2.50 T/H	PM	0.0028 LB/H	
		PM	0.0180 LB/H BAGFILTER	99.95

NOTES -----
MAKES PLASTIC FILM FROM CHIPS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW	POST STARTUP
REVIEW STATUS: 04/01/1983	
ID NUMBER VA-0016	SOURCE TYPE CODE 6.62

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 233.90 MMBTU/H
 COMPANY NAME/SITE LOCATION LITHIUM CORP. BESSEMER CITY, NC GASTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 02/12/81
 PERMIT NO. (REGION FILE NO.) NC-075 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH CAROLINA DEM MIKE SEKELL (919)-733-6126
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT CAPACITY 233.90 MMBTU/H
 TO THIS PERMIT
 BOILER NOX 0.7000 LB/MMBTU NSPS
 EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF
 BOILER DESIGN

NOTES -----
 PSD IS ONLY FOR NOX EMISSIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NC-0023 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

221.00 MMBTU/H

OTHER CHEMICAL

BESSEMER CITY, NC

LITHIUM CORP. OF AMERICA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 4540R

NORTH CAROLINA DEM

(AGENCY)

DATE OF PERMIT ISSUANCE-- 01/23/85
ESTIMATED DATE OF START-UP-- 1986

(919)-733-7015

(PHONE)

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
----------------------------------	---------------------	-------------------	--	----------------------------

BOILER, COAL FIRED

221.00 MMBTU/H

SO2

1.5600 LB/MMBTU

LOW S COAL, 1/2

NOX

0.6000 LB/MMBTU

BOILER DESIGN

CO

0.4000 LB/MMBTU

BOILER DESIGN

BACT

BACT

BACT

NOTES

NOX LIMIT IS BASED ON THE PROPOSED NSPS FOR BOILERS > 100 MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MALLINCKRODT, INC

ST. LOUIS, MO

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/17/82
 DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP-- 1983
 (AGENCY) (AGENCY) (PHONE)

DANIEL RODRIGUEZ
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

COAL FIRED BOILER 115.10 MMBTU/H

SO2	2.0000 LB/MMBTU	300 R AV
	2.8500 LB/MMBTU	MAX/D, MED S
SO2	1.2000 LB/MMBTU	MAX/D, LOW S
	1.2000 LB/MMBTU	FUEL OIL
SO2	0.0100 LB/MMBTU	GAS
NOX	0.6000 LB/MMBTU	
	0.3000 LB/MMBTU	FUEL OIL
NOX	0.2000 LB/MMBTU	GAS

NOTES

STAND-BY FUELS OF NATURAL GAS & NO.6 FUEL OIL. COAL SAMPLING & FUEL ANALYSIS USED FOR COMPLIANCE TESTING FOR SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER MO-0005

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

60.00 MMBTU/H

OTHER CHEMICAL

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION MALLINCKRODT, INC.

RALEIGH, NC

WAKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 5126

DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY)

MIKE SEWELL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/19/83
ESTIMATED DATE OF START-UP-- 1984
(919)-733-7015
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

BOILER, COAL FIRED

60.00 MMBTU/H

SO2

1.5000 LB/MMBTU

LOW S COAL, 1 1/2

NOX

0.7000 LB/MMBTU

GOOD OPERATING PRACT.

NOTES

THE BOILER WILL HAVE A BAG FILTER TO CONTROL PM EMISSIONS, PM IS NOT SUBJECT TO PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NC-0030

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

BYRON FIELD, WY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-517

DETERMINATION MADE BY WYOMING AQD

(AGENCY)

DAN FAUTH

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/21/83

ESTIMATED DATE OF START-UP-- 1984

(307)-332-3144

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

STORAGE, AIR SPARGE, REACTOR, HYDR*

ACR* 0.0000 G/SEC, NOTE #1

PACKED TOWER H2O SCRUBBER

BACT

90.00

ACR* 0.0000 G/SEC, NOTE #1

PACKED TOWER H2O SCRUBBER

BACT

75.00

NH4 0.0010 G/SEC, NOTE #1

PACKED TOWER H2O SCRUBBER

BACT

90.00

STORAGE, HCL 966.00 CU METER/YR

HCL 22.0000 G/CU METER

LIMESTONE DRY SCRUBBER, NOTE #2

90.00

NOTES -----

NOTE #1 -- AS MEASURED AT SCRUBBER OUTLET. NOTE #2 -- LIMESTONE TO BE CHANGED OUT ONCE EVERY FOUR MONTHS. ALSO, EFFICIENCIES A RE MINIMUM REDUCTION OF POLLUTANT AGREED TO BY MARATHON.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER NY-0007

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MERCK & CO., KEKO DIVISION
P.O. BOX 13216

SAN DIEGO, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-10 SD-81-01
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

RICK SUGAREK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/20/81
ESTIMATED DATE OF START-UP--
(415)-974-8224
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TURBINE, 3

7.16 MW EA

NOX

20.0000 LB/H PER TURBINE
0.2400 LB/MMBTU
WATER INJECTION

BACT

70.00

DUCT BURNERS, 3

30.00 MMBTU EA

NOX

3.1000 LB/H PER BURNER
0.1000 LB/MMBTU
LOW NOX DESIGN

BACT

75.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0036

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 6200.00 BTU/LB
 COMPANY NAME/SITE LOCATION MEREDITH/BURDA, INC. NEWTON, NC CATAWBA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 07/08/80
 PERMIT NO. NC-064 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH CAROLINA DEM MIKE SEWELL (919)-733-6126
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

BOILER 3366.00 LB/H PAPER PM 4.0000 LB/H BACT
 SO2 NO. 6 OIL
 CHROME CYLINDER ACI* 0.0010 LB/H BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

84.70 T/D

COMPANY NAME/SITE LOCATION MLY CORP., INC.

WASHINGTON, PA

WASHINGTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 79PA22

DETERMINATION MADE BY EPA REGION III

(AGENCY)

DAVID ARNOLD

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/21/80

ESTIMATED DATE OF START-UP-- 1980

(215)-597-7936

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ROASTER

84.70 T/D

PM

5.1000 LB/H

BAGHOUSE

BACT

SO2

75.0000 LB/H

DBL-ABSORB ACID PLANT(SCRUB.)

BACT

99.50

BACT

98.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0018

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

150.00 MMBTU/H

OTHER CHEMICAL

MUSCATINE, IA

COMPANY NAME/SITE LOCATION MONSANTO CO.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983
(816)-374-6525
(PHONE)

DANIEL RODRIGUEZ
(AGENCY CONTACT PERSON)

EPA REGION VII
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 150.00 MMBTU/H EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER B-8 SPREADER-STOKER	150.00 MMBTU/H	SO2	1.9500 LB/MMSTU 3H R AV	BACT
		PM	PERCENT SULFUR CONTENT 0.0300 LB/MMSTU	BACT
		NOX	BAGHOUSE 0.6000 LB/MMSTU 300 R AV	BACT
		VE	NO AIR PREHEAT 20.0000 %, 6 MIN AVG.	BACT
ASH HANDLING		PM	0.0100 GR/DSCF	BACT
		VE	BAGHOUSE 20.0000 % OPACITY	BACT
COAL HANDLING		PM	0.0100 GR/DSCF	BACT
		VE	BAGHOUSE 20.0000 % OPACITY	BACT

NOTES -----
BY-PASSING OF THE BOILER'S BAGHOUSE IS LIMITED TO 20 HOURS PER YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 6.62
ID NUMBER IA-0010
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MONSANTO CO.

ALVIN, TX

BRUZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-TX-307

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/26/81

ESTIMATED DATE OF START-UP-- 1982

(214)-767-1594

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

INCIN., MHA SCRUBBER STACK

1.00 MMLB/YR

SO2 11.3500 LB/H

CAUSTIC STACK SCRUBBER

FLARE STACK

SO2

SMOKELESS FLAME - NO VIS. EMIS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER TX-0059

SOURCE TYPE CODE 6.62

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 2000.00 LB/H

COMPANY NAME/SITE LOCATION M&T CHEMICALS, INC.
P.O. BOX 1580

CARROLLTON, KY 41008 CARROLL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-KY-127 DATE OF PERMIT ISSUANCE-- 03/07/80
DETERMINATION MADE BY KENTUCKY DAPC ESTIMATED DATE OF START-UP-- 1980
(AGENCY) (502)-564-3382
BILL DILLS (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 1000.00 LB/H

REACTOR, TIN TETRACHLORIDE

POLLUTANT EMITTED EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

PM 50.0000 T/YR VENTURI SCRUBBER NSR 99.00
2ND UNIT UP TO 1500 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984
SOURCE TYPE CODE 6.62

ID NUMBER KY-0005

APPENDIX -- DETAILED SOURCE LISTING

05/21/1995

SOURCE TYPE/SIZE

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION PHTHALEHEM, INC.

CINCINNATI, OH

DETERMINATION IS BACT
PERMIT NO. NOTE #1
DETERMINATION MADE BY

SOUTHWEST OHIO APCA
(AGENCY)

FRANK STOY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/11/84
ESTIMATED DATE OF START-UP-- 1984
(513)-251-8777
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

REACTOR #5

2.00 MGAL

AMH* 27.0000 LB/H

BACT
50.00

PACKED TOWER SCRUBBER
HOLD POND(NOTE#2),AMBIENT MONIT.(NOTE#3)

REACTOR #6

2.00 MGAL

AMH* 27.0000 LB/H

BACT
50.00

PACKED TOWER SCRUBBER
HOLD POND(NOTE#2),AMBIENT MONIT.(NOTE#3)

NOTES

NOTE 1 -- PERMIT NUMBERS 14-553 & 14-622, NOTE 2 -- TKN DISCHARGE TO SEWER SHALL BE MAINTAINED AT OR NEAR 1000 PPM (500 LB/D),
NOTE 2 -- CONTINUOUS AMMONIA MONITOR REQUIRED ON PLANT PROPERTY.
ANNUAL PRODUCTION CONFIDENTIAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:
INITIAL REVIEW POST STARTUP

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ID NUMBER OH-0067

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 729.40 MBTU/H

COMPANY NAME/SITE LOCATION PLAINS ELECT. GEN & TRANS

, NM

SANDOVAL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-NM-418

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

TOM DISGS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/29/81
ESTIMATED DATE OF START-UP-- 1983

(214)-767-1594

(PHONE)

PROCESSES SUBJECT
TO THIS PERMITTHROUGHPUT
CAPACITYPOLLUTANT
EMITTEDEMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION... & BASIS
... PCT EFF

TURBINE GEN, NAT. GAS-FIRED 729.40 MBTU/H

NOX 270.0000 LB/H

0.3700 LB/MMBTU

H2O INJECT (WATER/FUEL = 0.5)

S02 2.9000 LB/H

0.0040 LB/MMBTU

NONE

BACT

42.50

BACT

TURBINE GEN, OIL AS STANDBY FUEL 722.30 MBTU/H

NOX 280.0000 LB/H

0.3680 LB/MMBTU

H2O INJECT (WATER/FUEL = 0.5)

S02 156.0000 LB/H

0.2160 LB/MMBTU

LOW SULFUR FUELS

NSPS

66.70

BACT

NOTES -----

ALTERNATE EMISSION LIMITS FOR NATURAL GAS: NOX -- 270 LB/HR, S02 -- 2.9 LB/HR. ALTERNATE EMISSION LIMITS FOR OIL: NOX -- 280 L
B/HR, S02 -- 156 LB/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NM-0001

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE	OTHER CHEMICAL	243.00 MMBTU/H
COMPANY NAME/SITE LOCATION	PPG INDUSTRIES	
	NATRIUM, WV	MARSHALL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 79WV06
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)

VERNON BUTLER
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/80
 ESTIMATED DATE OF START-UP-- 1981
 (215)-597-2711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	243.00 MMBTU/H	NOX	0.7000 LB/MBTU BURNER DESIGN--EXCESS O2< 4.5%	BACT

NOTES -----
 0.7 LB/MBTU DETERMINATION IS NOT AN EMISSION LIMITATION IN PSD PERMIT. BOILER #3 WAS STACK TESTED ON 5/13/82 WITH NO2 EMISSIONS OF 226 LB/H MEASURED, APPROX. = 0.93 LB/MBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

ID NUMBER WV-0003

SOURCE TYPE CODE 6.62

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION PROCTOR CHEMICAL CO. SALISBURY, NC ROMAN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/02/83
 PERMIT NO. 5096 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY NORTH CAROLINA DEM MIKE SEWELL (919)-733-7015
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 ROTARY PORCUPINE DRYER 4346.00 LB/H VOC 98.0000 % CONTROL ...
 303.0000 T/YR SURFACE CONDENSER 98.00

NOTES -----
 THE NEW DRYER WILL DRY THE SOLID PORTIONS OF VARIOUS CHEMICAL PRODUCTS MANUFACTURED BY PROCTOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NC-0029 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION PROCTOR & GAMBLE
6TH STREET

MACON, GA

BIBB COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. GA 008
DETERMINATION MADE BY GEORGIA EPD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/25/80
ESTIMATED DATE OF START-UP--
(404)-656-6900
BILL MITCHELL
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

BOILER 87.50 MMBTU/H

S02 1.0000 % S OIL

FAT CONVERSION VOC 37.0000 T/YR FUME INCINERATOR BACT
85.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER GA-0002

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION SHELL CHEMICAL CO.
P.O. BOX 2463

HOUSTON, LA 77001

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 03/07/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

ASBESTOS DUST COLLECTOR (1-78)

PM 4.5000 G/D DUST FILTER BACT 99.00

BPA-4 PROCESS PRILL TOWER

PM 0.4800 LB/H BAG FILTER BACT 99.30

BPA RESINS, STORAGE, & SHIP.

PM 2.2500 LB/H BAG FILTER BACT 99.40

PROCESS HEATERS, 3 EA 65.00 MMBTU/H

PM 0.0250 LB/MMBTU
1.6300 LB/H EA BACT

AIR/FUEL CONT. BY F.G. 02 MON.

S02 0.8730 LB/MMBTU
56.7000 LB/H EA BACT

0.7% S MAX. FUEL

CO 0.0390 LB/MMBTU
2.5000 LB/H EA BACT

AIR/FUEL CONT. BY F.G. MON.

NOX 0.5400 LB/MMBTU
35.1000 LB/H EA BACT

LOW EXCESS AIR BY F.G. 02 MON.

ORGANIC CHLORIDE INCIN. 10000.00 LB/H

NOX 27.8000 LB/H
LOW EXCESS AIR BY F.G. 02 MON. BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0030

SOURCE TYPE CODE 6.62

(CONTINUED) SHELL CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
SLUDGE INCIN.	10.00 MMBTU/H	PM	0.0200 GR/DSCF 2.0000 LB/H F.G. 02 MON. FOR PROPER COMBU.	BACT
		CO	3.2000 LB/H AIR/FUEL CONT. BY F.G. 02 MON.	BACT
		SO2	0.0000 LB/MMBTU	
		PM	0.0040 GR/DSCF 0.0630 LB/H VENTURI SCRUBBER AIR/FUEL CONT. BY F.G. 02 MON.	BACT
BOILER, 3 EA	594.00 MMBTU/H	SO2	0.8750 LB/MMBTU 8.7500 LB/H 0.7% S FUEL OIL (MAX)	BACT
		CO	0.8300 LB/H AIR/FUEL CONT. BY F.G. 02 MON.	BACT
		NOX	8.2000 LB/H LOW EXCESS AIR BY F.G. 02 MON.	BACT
		NOX	0.7000 LB/MMBTU 416.0000 LB/H LOW EXCESS AIR BY F.G. 02 CON.	BACT
		SO2	1.2000 LB/MMBTU 713.0000 LB/H LOW SULFUR COAL.	BACT
		CO	0.0640 LB/MMBTU 38.0000 LB/H AIR/FUEL CONT. BY F.G. 02 MON.	BACT
BOILER, 2 TEMPORARY	198.50 MMBTU/H EA	PM	0.0890 LB/MMBTU 53.0000 LB/H E. S. P. AIR/FUEL CONT. BY F.G. 02 MON.	BACT
		PM	0.1000 LB/MMBTU 19.9000 LB/H EA	BACT
		SO2	0.7500 LB/MMBTU 148.9000 LB/H EA 0.7% S FUEL (MAX.)	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

(CONTINUED) SHELL CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION' LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		NOX	0.3000 LB/MMBTU 59.6000 LB/H EA LOW EXCESS AIR BY F.G. 02 MON.	BACT
		CO	0.0330 LB/MMBTU 6.5300 LB/H EA AIR/FUEL CONT. BY F.G. 02 MON.	BACT
BARGE BUCKET UNLOADER		PM	466.4000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
BARGE TO STORAGE CONVEYOR		PM	127.6000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
COAL PILE RECLAIM CONVEYOR		PM	3.6000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
COAL DUMPING AT BOILERS USING C*		PM	16.0000 LB/D WATER SPRAY/FUGITIVE EMIS.	EACT
COAL PILE WIND EROSION		PM	0.2300 T/YR CRUSHING AGENT TO REDUCE DUST	BACT

NOTES -----

SOURCE OPERATED CONTINUOUSLY. BPA-4 MEANS BIPHENOL ACETONE IN SOLID PHASE. ALLOWABLE EMISSIONS FROM EACH PROCESS HEATER DIVIDE D BETWEEN 2 STACKS. ORGANIC CHLORIDE INCINERATOR IS SAID NOT TO BE A SOURCE OF SO₂. WHEN BOILERS FIRE OIL DUE TO SHORTAGE OF COAL, THEY COMPLY W/NSFS. A THIRD TEMP. BOILER (264 MMBTU/HR INPUT) FIRING SAME FUEL, HAS SAME BACT. ALLOWABLE EMISSIONS ARE: SO₂, 0.25,198.5 \ NOX, 0.3,79.2 \ CO, 0.033,8.71 \ TSP, 0.1,26.4 -- UNITS ARE LB/MMBTU AND LB/HR, RESPECTIVELY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

ID NUMBER LA-0030

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

600.00 MET. T/YR

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION SMITH KLINE CORP.

UPPER MERION, PA

MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 01/25/80

PERMIT NO. 79PA15

ESTIMATED DATE OF START-UP-- 1981

DETERMINATION MADE BY EPA REGION III (AGENCY)

VERNON BUTLER (AGENCY CONTACT PERSON)

(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

2 BOILERS, EA 700.00 HP EA

S02 0.2000 % BY WT #2 OIL 1.6800 MMGAL/YR OIL

BACT

2 INCINERATORS, EA

PM 2.0000 LB/H VENTURI SCRUBBER
S02 3.0000 LB/H VENTURI SCRUBBER
NAOH INJ.

BACT 99.00
BACT 97.50

GRINDER

VE 20.0000 % OPACITY BAGHOUSE

BACT 99.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0023

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION TENNESSEE EASTMAN CO.
P.O. BOX 511

KINGSPORT, TN 37662

SULLIVAN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TN 065

DETERMINATION MADE BY

TENNESSEE APCD
(AGENCY)

ANGIE PITCOCK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/05/81
ESTIMATED DATE OF START-UP--
(615)-741-3651
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER-COAL FIRED

780.00 MMBTU/H

PM

14.0000 LB/H

FABRIC FILTER

SO2

936.0000 LB/H

LOW S FUEL

BACT

99.76

BACT

COAL GASIFICATION-FUGITIVE

PM

0.0020 GR/SCF

ENCLOSED COAL TRANSFER PROC.

BACT

NOTES -----

COAL GASIFICATION FOR CHEMICAL INTERMEDIATES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TN-0001

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION TENNESSEE EASTMAN CO.

KINGSFORT, TN

SULLIVAN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY TENNESSEE APCD
(AGENCY)

ANN NIELSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/02/81
ESTIMATED DATE OF START-UP--
(615)-741-3651
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

160.80 LB/H

POLLUTANT
EMITTED

VOC

CO

EMISSION LIMITS

0.0005 LB/H

0.0013 LB/H

CONTROL EQUIPMENT OR PROCESS MODIFICATION

INCINERATION

INCINERATION

... & BASIS
... PCT EFF

LAER

99.00

BACT

99.00

NOTES -----

EMISSION LIMITS ARE FOR NATURAL GAS FOR PILOT LIGHTS OF FLARES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
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ID NUMBER TN-0007

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION UNION CARBIDE
P.O. BOX 428

WOODBINE, GA 31569

CAMDEN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. GA 069

DETERMINATION MADE BY

GEORGIA EFD
(AGENCY)

BILL MITCHELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/10/81
ESTIMATED DATE OF START-UP-- 1982
(404)-656-6900
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

S02 418.0000 T/YR
1% S FUEL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER GA-0005

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION UNIROYAL CHEMICAL, DIV. OF UNIROYAL INC.
P.O. BOX 397

GEISMAR, LA

ASCENSION PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. LA-250

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/26/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INCIN., WASTE

25.00 MBTU/H

NOX 4588.8000 LB/D

BACT
20.00

CAUSTIC SCRUB.

LOW NOX BURNERS, LEA FIRING

SO2

23.4000

LB/3H

BACT
95.00

CAUSTIC SCRUB

PM

28.8000

LB/D

BACT
98.00

CAUSTIC SCRUB

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0028

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LIS,ING

05/21/1985

SOURCE TYPE/SIZE

OTHER CHEMICAL

45.00 MW

COMPANY NAME/SITE LOCATION U.S. BORAX & CHEMICAL CORP.
3075 WILSHIRE BLVD

LOS ANGELES, CA 90010

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SE-82-02
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

JOE SLAMOVICH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(415)-974-8235
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY
3855.00 GAL/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

GAS TURBINE

CO 72.0000 LB/H
NOX 230.0000 LB/H
SO2 219.0000 LB/H
PM 18.0000 LB/H
VOC 0.5000 LB/H
PB 0.0140 LB/H

BACT
BACT
70.00

BACT
BACT
BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER CA-0031

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION VELSICOL CHEMICAL CO.

CHATTANOOGA, TN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 30-38C
DETERMINATION MADE BY CHATTANOOGA APCB
(AGENCY)

JAMES FRENCH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/82
ESTIMATED DATE OF START-UP-- 1982
(615)-867-4321
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACID PLANT	4155.00 LB/H	VOC		BACT
EXPANSION PLANT	4588.00 LB/H	BEN*	1.8000 LB/H WET SCRUB & CARBON ADSORPTION	BACT 98.00
BENZOTRICHLOIDE SYNTHESIS	5000.00 LB/H	BEN*	0.4500 LB/H WET SCRUB & CARBON ADSORPTION	BACT 99.00
BENZYL CHLORIDE SYNTHESIS	5000.00 LB/H	BEN*	0.4500 LB/H WET SCRUB & CARBON ADSORPTION	BACT 80.00
		VOC	6.8500 LB/H WET SCRUB & CARBON ADSORPTION	BACT 80.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984
SOURCE TYPE CODE 6.62

ID NUMBER TN-0016

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION VULCAN CHEMICALS CO.

GEISMAR, LA

ASCENSION PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-528

DETERMINATION MADE BY LACD/EPA REGION VI
(AGENCY)

NAN KILLEEN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/31/84
ESTIMATED DATE OF START-UP-- 1985
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TURBINE/BOILER, N.G./WASTE HEAT* 195.80 MMBTU/H

NOX 224.7000 LB/H
985.0000 T/YR

NOX 94.0000 PPMV
STEAM INJECTION

CO 30.6000 LB/H
135.0000 T/YR

VE NO VISIBLE EMISSION

BACT

BACT

BACT

TURBINE/BOILER, N.G./WASTE HEAT* 195.80 MMBTU/H

NOX 224.7000 LB/H
985.0000 T/YR

NOX 94.0000 PPMV
STEAM INJECTION

CO 30.6000 LB/H
135.0000 T/YR

VE NO VISIBLE EMISSION

BACT

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER LA-0055

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1.20 MMLB/YR

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION WITCO CHEMICAL CORP.

HOUSTON, TX

FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9536

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

LOUIS ROBERTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PROCESS VESSEL

1.20 MMLB/YR

VOC

0.6000 T/YR

FUME SCRUBBER

BACT
90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0161

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION 3M CO., CHEMOLITE

ST. PAUL, MN

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 23A-81-I-49

DETERMINATION MADE BY MINNESOTA PCA

(AGENCY)

JERRY LIEFERT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP-- 1981
(612)-296-7272
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ABRASIVE MINERAL PROCESS

325.00 T/YR

NOX

88.0000 T/YR MAX

SCRUBBER

BACT
95.00

NOTES

CONVENTIONAL UNITS AVAILABLE CONVERT ONLY ONE-THIRD OF THE NITROGEN DIOXIDE TO NO. CONTROL EFFICIENCIES ARE <LESS THAN 67% OF THE TOTAL OXIDES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MN-0004

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS

COMPANY NAME/SITE LOCATION ALLEN PRODUCTS CO., INC.

SOUTH WHITEHALL TOWNSHIP, PA

LEHIGH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 79PAL3
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 09/04/79
 ESTIMATED DATE OF START-UP-- 1979
 (215)-597-8186
 (PHONE)

BOB BLASZCZAK
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

GRAIN UNLOAD STATION

4.70 MCF/H

PM

1.0000 LB/H

BAGHOUSE

BACT

99.90

GRINDING & BLENDING STATION

35.00 MLB/H

PM

0.5000 LB/H

BAGHOUSE

BACT

99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0012

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS 2.00 MMBU/YR

COMPANY NAME/SITE LOCATION BROOKPORT BARGE POINT, INC
P.O. BOX 147

BROOKPORT, IL 62910

MASSAC COUNTY

DETERMINATION IS FOR A NEW SOURCE.

PERMIT NO. C8008003

DETERMINATION MADE BY

ILLINOIS EPA

(AGENCY)

CHRIS ROMAINE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/03/81

ESTIMATED DATE OF START-UP-- 1981

(217)-782-2113

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

RECEIVING

2.00 MMBU/YR

PM 35.0000 LB/H

ASPIRATION TO BAGHOUSE ENCLOSURE

SIP

90.00

HANDLING

2.00 MMBU/YR

PM 5.2500 LB/H

SIP

SIP

90.00

LOAD-OUT

2.00 MMBU/YR

PM 10.5000 LB/H

ASPIRATION TO BAGHOUSE
DEAEROX ON TIP OF SPOUT

SIP

90.00

CLEANING

PM 2.1000 LB/H

SIP

DRYING

PM 0.8400 LB/H

BUILT IN SCREENS

SIP

90.00

NOTES

NON-MAJOR PROJECT DEEMED CONTROVERSIAL DUE TO PUBLIC INTEREST. PUBLIC HEARING HELD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER IL-0012

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS 30.00 MMBU/YR

COMPANY NAME/SITE LOCATION BUNGE CORP. SAVAGE, MN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 393A-81-1-6

DETERMINATION MADE BY MINNESOTA PCA

(AGENCY)

GEORGE VASILAKES

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/08/82

ESTIMATED DATE OF START-UP-- 1982

(612)-296-7267

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BARGE LOADOUT CONVEYOR/LOADOUT

30.00 MMBU/YR

PM

31.0000 T/YR

BAGHOUSE

DUST SUPPRESSOR

BACT

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER MN-0003

SOURCE TYPE CODE

7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS

COMPANY NAME/SITE LOCATION CARGILL, INC.
3201 NEEDMORE RD.

DAYTON, OH 45415

MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 08-124

DETERMINATION MADE BY

RAPCA - DAYTON, OH
(AGENCY)

AMY WRIGHT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/19/78
ESTIMATED DATE OF START-UP-- 1981
(513)-225-4435
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

COAL BOILER

THROUGHPUT
CAPACITY

567.00 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM

0.0250 LB/MMBTU

BACT

SO2

1.2000 LB/MMBTU

99.00
BACT

NOX

0.4900 LB/MMBTU

LOW SULFUR COAL

NOTES -----

SINGLE SOURCE (CRSTER) DISPERSION MODEL USING HOURLY MET. DATA TO ESTIMATE POLLUTANTS' IMPACTS. (ONE YEAR MET. DATA.)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER OH-0011

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS

COMPANY NAME/SITE LOCATION CARGILL, INC. CHESAPEAKE, VA

DETERMINATION IS BACT PERMIT NO. 60277 DATE OF PERMIT ISSUANCE-- 06/04/84
DETERMINATION MADE BY VIRGINIA APCB ESTIMATED DATE OF START-UP-- 1984
(AGENCY) JAMES LEHAN (804)-786-1433
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED	106.00 MMBTU/H	PM	0.0500 LB/MMBTU BAGHOUSE	PSD 99.59
		SO2	1.5200 LB/MMBTU LOW S COAL, 1%	PSD

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS

COMPANY NAME/SITE LOCATION CARGILL, INC.
PIER 86

SEATTLE, WA 98119

DETERMINATION IS BACT
PERMIT NO. N/C 2227
DETERMINATION MADE BY

FUGET SOUND APCA
(AGENCY)

HARRY WATTERS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/20/81
ESTIMATED DATE OF START-UP-- 1981
(206)-344-7334
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

MATERIAL HANDLING, LOADOUT SPOU* 3000.00 T/H

PM

LAMINAR FLOW / DUST SUPPRESSOR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984

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ID NUMBER WA-0012

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

143.70 MMBTU/H

FEED/GRAIN MILLS AND ELEVATORS

SOURCE TYPE/SIZE

CHATTANOOGA, TN

COMPANY NAME/SITE LOCATION CENTRAL SOYA CO., INC.

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 0460-10200202-151

DETERMINATION MADE BY

CHATTANOOGA-HAMILTON CO. APCB

HARVEY RICE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/26/83

ESTIMATED DATE OF START-UP-- 1985

(615)-867-4321

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS

BOILER, FBC, COAL FIRED 143.10 MMBTU/H

PM	0.0350 LB/MMBTU	FABRIC FILTER	LAER	99.83
SO2	0.4410 LB/MMBTU	FLUIDIZED BED	BACT	90.70
NOX	0.6000 LB/MMBTU	FLUIDIZED BED	BACT	20.00
CO	0.1680 LB/MMBTU	FLUIDIZED BED	BACT	100.00
VOC	6.3000 LB/H	FABRIC FILTER	BACT	100.00
BE	0.0000 LB/H	FABRIC FILTER	BACT	99.95
PB	0.0000 LB/H	FABRIC FILTER	BACT	99.95
F	0.0017 LB/H	FABRIC FILTER	BACT	99.95
HG	0.0027 LB/H	FABRIC FILTER	BACT	99.95
PM	0.0100 GR/DSCF	FABRIC FILTER	LAER	99.95

ASH HANDLING, COAL LIMESTONE 150000.00 LB/H

NOTES

ALL DETERMINATIONS WERE BACT DUE TO PSD REQUIREMENTS EXCEPT PM WHICH WAS EVALUATED FROM THE PERSPECTIVE OF A POTENTIAL SIGNIFICANT IMPACT ON A NON- ATTAINMENT AREA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/26/1984

ID NUMBER TN-0019

SOURCE TYPE CODE 7.3

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05/21/1985

SOURCE	TYPE/SIZE	FEED/GRAIN MILLS AND ELEVATORS
1		
2		
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2.10 MMT/YR

COMPANY NAME/SITE LOCATION INTERSTATE GRAIN CORP.

XI,

MUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 07/27/83
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

DETERMINATION MADE BY
TEXAS ACB
(AGENCY)

GARY WALLIN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTEDEMISSION LIMITS
CONTROL E

... & BASIS
... PCT EFF

ELEVATOR, GRAIN

MA

162.1000 T/YR

BAGHOUSE & CYCLONES

BACT
97.00

NOTES -----

PERMIT IS FOR REPLACEMENT OF 4 ELEVATOR LEGS WITH 4 HIGHER CAPACITY LEGS. NEW CONTROL EQUIPMENT RESULTED IN AN OVERALL EMISSIONS REDUCTION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0138

SOURCE	TYPE	CODE	7.3
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
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16	16	16	16
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18	18	18	18
19	19	19	19
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21	21	21	21
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96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

05/21/1985

COMPANY NAME/SITE LOCATION	MAXIM FARMS	, TX	WHARTON COUNTY

DETERMINATION IS BACK FOR A NEW SOURCE.
PERMIT NO. C-9245
DETERMINATION MADE BY TEXAS ACB
(AGENCY)

GARY WALLIN
(AGENCY CONTACT PERSON)

(512)-451-5711
(PHONE)

ESTIMATED DATE OF START-UP-- 1983
DATE OF PERMIT ISSUANCE-- 01/12/83

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECEIVING, GRINDING, HANDLING, MIX*	250.00 T/WEEK	PM	2.3000 T/YR ENCLOSED OPER., REC., CONV., MIX., GRIND., LDOT	

NOTES -----
ENCLOSED ELEVATOR LEG, AUGERS AND GRAVITY SPOUTS ARE USED. PLUS RECEIVING PIT AND LOADOUT LOCATED UNDER ELEVATED STORAGE BINS A RE ENCLOSED. RURAL, ISOLATED LOCATION.

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(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
=====
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984
=====
SOURCE TYPE CODE 7.3
=====
ID NUMBER TX-0112
=====
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=====

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

15000.00 BU/H

FEED/GRAIN MILLS AND ELEVATORS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION MONTE CRISTO GRAIN CO.

, TX

HIDALGO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9222

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

RALPH BOHLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/07/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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RECEIVING PIT, 2 EA

7500.00 BUSHEL/H

PM

0.1890 LB/T

ENCLOSED LEGS/AUGERS/UP&DOWN SPOUTS - TRANSF GR*

HANDLING

7500.00 BUSHEL/H, 2*

PM

NONE

LANDOUT SPOUTS

7500.00 BUSHEL/H, 2*

PM

0.0900 LB/T

NOTES -----
SIC CODE 5153

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1994

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ID NUMBER TX-0118

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERMENTATION AND ALCOHOLIC BEVERAGES

COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC.

VAN NUYS, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) LA-78-18

DETERMINATION MADE BY EPA REGION IX

(AGENCY)

JIM HANSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/01/79

ESTIMATED DATE OF START-UP--

(415)-974-8038

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STEAM BOILERS, 2 EA

125000.00 LB/H

SO2

0.2100 % S FUEL OIL

BACT

NOX

0.2700 LB/MMBTU

LAER

0.4700 LB/MMBTU

LOW NOX BURNERS

DERATING OVERSIZED BOILERS & TWO STAGE COMBUST*

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0010

SOURCE TYPE CODE

7.4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERMENTATION AND ALCOHOLIC BEVERAGES 10.00 MMBBL/YR

COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC.
721 PESTALOZZI ST.

ST. LOUIS, TX 63118

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-TX-246

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

RAGAN BROYLES

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COAL BOILERS, 3

178.00 MMBTU/H EA

CO

11.2000 LB/H EA
0.0630 LB/MMBTU

BACT

NOX

125.0000 LB/H EA
0.7000 LB/MMBTU

BACT

COMBUSTION CONTROL

OIL BOILERS, 3

77.00 MMBTU/H EA

CO

2.7000 LB/H EA
0.0350 LB/MMBTU

BACT

NOX

32.1000 LB/H EA
0.4200 LB/MMBTU

BACT

COMBUSTION CONTROL

NOTES -----

ONLY ONE OIL FIRED BOILER MAY BE OPERATED WHEN ALL THREE COAL FIRED BOILERS ARE IN OPERATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0074

SOURCE TYPE CODE

7.4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

98.00 MMSTU/H

FERMENTATION AND ALCOHOLIC BEVERAGES

COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC.

WILLIAMSBURG, VA

JAMES CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 79VAL5

DETERMINATION MADE BY

EPA REGION III
(AGENCY)

VERNON BUTLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/16/80
ESTIMATED DATE OF START-UP-- 1981
(215)-597-2711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

98.00 MMSTU/H

SO2

1.0700 LB/MMSTU

1% SULFUR IN OIL.

BACT

PM

TSP NOT SIGNIFICANT

NOTES -----

INSTALLATION OF A BACKUP BOILER. NO ADVERSE AIR QUALITY IMPACT -- NET IMPROVEMENT DUE TO NEW UNIT. EXISTING UNITS USE 2.5% S. OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERMENTATION AND ALCOHOLIC BEVERAGES 221.00 MMBTU 3 EA

COMPANY NAME/SITE LOCATION COORS CO.

ELKTON, VA

ROCKINGHAM COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 80VA01

DETERMINATION MADE BY EPA REGION III

(AGENCY)

EILEEN GLEN

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/19/81

ESTIMATED DATE OF START-UP--

(215)-597-8187

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, COAL FIRED, 3 221.00 MMBTU EA

PM 0.0500 LB/MMBTU
 BAGHOUSE &FGD

BACT
99.00

SO2 0.2400 LB/MMBTU
 BAGHOUSE &FGD

99.00
BACT

NOX 0.6000 LB/MMBTU

BACT

CO 0.4000 LB/MMBTU

BACT

VOC 0.0200 LB/MMBTU

BACT

VE 5.0000 % OPACITY

BACT

COAL RECEIVING

PM 2.8600 LB/H
 5.0000 % OPACITY

BACT

COAL BUNKERS

PM 1.2900 LB/H
 5.0000 % OPACITY

BACT

SCREENING & MILLING SYS, BARLEY*

FABRIC FILTER COLLECTOR

99.95

PM 0.6500 LB/H
 5.0000 % OPACITY

BACT

RICE STOR., SCREEN AND MILLING

FABRIC FILTER COLLECTOR

99.50

PM 2.5900 LB/H
 5.0000 % OPACITY

BACT

FABRIC FILTER COLLECTOR

99.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER VA-0004

SOURCE TYPE CODE

7.4

(CONTINUED) CCORS CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPENT GRAIN DRYER		PM	0.1100 LB/H 5.0000 % OPACITY WET SCRUBBING SYSTEM	BACT 90.00
DRY SPENT GRAIN STOR. AND HAND.*		PM	1.6400 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 99.95
PELLET BULK STORAGE		PM	0.7300 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 99.95
FILTER MEDIA DRYER		PM	0.1400 LB/H 5.0000 % OPACITY WET SCRUBBING SYSTEM	BACT 99.50
HANDLING SYS, DIATOMACEOUS EARTH		PM	0.6500 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	99.90
LIME STOR. & HANDLING SYS.		PM	0.6500 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 90.00
COATING OVEN, CAN PLANT		VOC	11.0000 LB/H CATALYTIC INCINERATOR	BACT 90.00
COATING OVEN, CAN PLANT		VOC	5.0000 LB/H	BACT
STORAGE PILE, COAL ACTIVE		PM	0.4600 LB/H 5.0000 % OPACITY WET SUPPRESSION SYSTEM	BACT
COAL DEAD STORAGE PILES		PM	0.2300 LB/H 5.0000 % OPACITY CHEMICAL WETTING AGENTS	BACT
STORAGE, COAL RECLAIM HOPPER AC*		PM	2.8600 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 99.95

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) COORS CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL RECLAIM FROM DEAD STORAGE		PM	0.4600 LB/H	BACT
COAL CAR THAWING HEATER		PM	0.1800 LB/H	BACT
		SO2	3.0000 LB/H	BACT
			.3% LOW SULFUR FUEL	
		VOC	1.0000 LB/H	BACT
		NOX	2.0000 LB/H	BACT
		CO	1.0000 LB/H	BACT
ASH SILO HANDLING SYS		PM	0.3200 LB/H	BACT
			5.0000 % OPACITY	99.95
			FABRIC FILTER COLLECTOR	
PNEUMATIC SYS, STARCH UNLOAD		PM	1.2900 LB/H	BACT
			5.0000 % OPACITY	99.90
			CYCLONE SEPARATOR + BAGHOUSE	
STORAGE SYS, STARCH BREWHOUSE		PM	1.2900 LB/H	BACT
			5.0000 % OPACITY	99.90
			CYCLONE SEPARATOR & BAGHOUSE	
DISTIL. SYS, STARCH BREWHOUSE		PM	0.6500 LB/H	BACT
			5.0000 % OPACITY	99.90
			FABRIC FILTER COLLECTOR	
REC. SYS, BARLEY, MALT, & RICE		PM	0.6500 LB/H	BACT
			5.0000 % OPACITY	99.95
			FABRIC FILTER COLLECTOR	

NOTES -----
LIMITS NEEDED TO PROTECT CLASS I INCREMENTS & INTEGRAL VISTAS. SOURCE < 1 MILE FROM THE CLASS I AREA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

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ID NUMBER VA-0004

=====

SOURCE TYPE CODE 7.4

=====

05/21/1985

SOURCE TYPE/SIZE	FERMENTATION AND ALCOHOLIC BEVERAGES
1. <u>Commercial</u>	1. <u>Beer</u>
2. <u>Homebrew</u>	2. <u>Wine</u>
3. <u>Industrial</u>	3. <u>Spirits</u>
4. <u>Other</u>	4. <u>Other</u>

COMPANY NAME/SITE LOCATION	PAUL HASSON VINEYARDS	SARATOGA, CA
		

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27796

DETERMINATION MADE BY
BAY AREA AQMD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP-- 1982
(415)-771-5000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTEDEMISSION LIMITS
CONTROL E

N LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ENGINE, I.C. RECIPROCATING

526.00 HP

XON

30.0000 PPM

CATALYTIC CONVERTER

BACT
90.00

NOTES -----
BURNING NATURAL GAS ONLY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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ID NUMBER CA-0049

SOURCE	TYPE	CODE
7.4		

05/21/1985

SOURCE TYPE/SIZE	FERMENTATION AND ALCOHOLIC BEVERAGES	250000.00 BU/YR

COMPANY NAME/SITE LOCATION	SCHREIER MALTING CO	SHEYHOYGAN, WI

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. ATT-04-80-60-016

DETERMINATION MADE BY WISCONSIN DNR
(AGENCY)

EMILIA ESTRADA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/21/80
ESTIMATED DATE OF START-UP--
(608)-266-0244
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL E

... & BASIS
... PCT EFF

NTT

CONVEY & HANDLE

PM 11.1100 LB/H

PM 11.1100 LB,H

3 EXISTING BAGHOUSES & FILTERS
SETUP TANKS/PROD SPOUT/DUST STO

06.66

NOTES -----

PRODUCTION NOT TO EXCEED 250000 BUSHEL MALT/YEAR, NATURAL GAS ONLY TO FREE RUN, NOT SUBJECT TO PSD

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER WI-0021

SOURCE	TYPE	CODE	7.4
1	2	3	4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE	FERTILIZER PLANTS	1429.00 T/D P205
COMPANY NAME/SITE LOCATION	AGRICO CHEMICAL CO. P.O. BOX 1869	BARTON, FL 33830 POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. FL-0016
 DETERMINATION MADE BY FLORIDA DER (AGENCY)
 WILLARD HANKS (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/20/80
 ESTIMATED DATE OF START-UP-- 1982
 (904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PHOSPHORIC ACID PROD. LINE	1429.00 T/D P205	F	0.0200 LB/T P205 SCRUBBER	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 ID NUMBER FL-0016
 SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS
 COMPANY NAME/SITE LOCATION AGRICO CHEMICAL CO.
 P.O. BOX 1969
 BARTON, FL 33830
 POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-FL-061
 DETERMINATION MADE BY FLORIDA DER
 (AGENCY)
 WILLARD HANKS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/21/81
 ESTIMATED DATE OF START-UP-- 1982
 (904)-488-1344
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIAMMONIUM PHOSPHATE	75000.00 T/YR	PM	4.3000 LB/H SCRUBBER	BACT 96.00
		F	0.5000 LB/H SCRUBBER	NSPS 99.90

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION CALIF. AMMONIA (CALAMCO) LANTHROP, CA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/08/81
 PERMIT NO. SJ80-07 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX (415)-974-8223
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT POLLUTANT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 NITRIC ACID PLANT 250.00 T/D NOX 210.0000 PPM BACT
 3.0000 LB/T 100% HNO3
 EXTENDED ABSORPTION COLUMN 94.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984
 SOURCE TYPE CODE 7.6

ID NUMBER CA 0001

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1.80 MMT/YR

FERTILIZER PLANTS

ROCK SPRINGS, WY

CHEVRON CO., USA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-550

DATE OF PERMIT ISSUANCE-- 06/13/84
ESTIMATED DATE OF START-UP-- 1986
(307)-777-7391
(PHONE)

CHUCK COLLINS
(AGENCY CONTACT PERSON)

WYOMING AGD
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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ACID PLANT, PHOSPHORIC, 2 EA	880.00 T/D EQUIV. *				
------------------------------	---------------------	--	--	--	--

F

0.0200 LB/T EQUIV. P205

NSPS
99.90

REACTOR/EVAP/PACKED TOWER SCRUB H2SIF6
BAROMETRIC CONDENSE/FILTRATE RECEIVERS

ACID PLANT, SUPERPHOSPHORIC	300.00 T/D EQUIV. *				
-----------------------------	---------------------	--	--	--	--

F

0.0100 LB/T EQUIV. P205

NSPS
99.90

68% EVAP/H2SIF6 SCRUB/BAROMETRIC CONDE./PACKED*
STOR TANK/VAC FILTER + FALLING CURTAIN SCRUB

BOILER, 2 EA	105.60 MMBTU/H				
--------------	----------------	--	--	--	--

NOX

0.2000 LB/MMBTU
FUEL

SIP

DRYER, CONCENTRATE	2300.00 T/D				
--------------------	-------------	--	--	--	--

PM

0.0070 GR/ACF
VENTURI SCRUBBERS

BACT
99.00

CONCENTRATE HANDLING

PM

0.0200 GR/ACF
BAGHOUSE

BACT
99.50

CONCENTRATE LOADOUT

PM

0.0200 GR/ACF
HOOD & BAGHOUSE

BACT
99.50

ACID PLANT, SULFURIC, 2 EA	1900.00 T/D				
----------------------------	-------------	--	--	--	--

SO2

4.0000 LB/T ACID
DESIGN

NSPS

H2S*

0.1500 LB/T ACID
DESIGN

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:
INITIAL REVIEW POST STARTUP

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ID NUMBER WY-0015

SOURCE TYPE CODE 7.6

(CONTINUED) CHEVRON CO., USA

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
AMMONIUM PHOSPHATE PLT, 2 EA	920.00 T/D EQUIV. *	VE	10.0000 % OPACITY	
		PM	0.0180 GR/ACF	BACT 98.00
		F	0.0600 LB/T EQUIV. P205	NSPS 96.00
			VENTURI SCRUBBERS	
			VENTURI SCRUBBERS	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION CONSERV, INC.
P.O. BOX 314

NICHOLS, FL 33863

POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. FL-076
DETERMINATION MADE BY FLORIDA DER
(AGENCY)

WILLARD HANKS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/02/81
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344
(PHONE)

PROCESSES SUBJECT THROUGHPUT
TO THIS PERMIT CAPACITY

2000.00 T/D

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

SULFURIC ACID PLANT

SO2 333.4000 LB/H

NSPS

ACI* 12.5000 LB/H

98.00

DOUBLE ADSORPTION

NSPS

ACID MIST ELIMINATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

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ID NUMBER FL-0028

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1750.00 T/D H2SO4

FERTILIZER PLANTS

GARDINIER, INC.
U.S. 41 AND RIVERVIEW DR.

TAMPA, FL 33601

HILLSBOROUGH COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE.

PERMIT NO. PSD-FL-Q26

DETERMINATION MADE BY

FLORIDA DER
(AGENCY)

WILLARD HANKS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/11/80
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SULFURIC ACID PLANT #7

145833.00 LB/H

ACI*

10.9000 LB/H

NSPS

DOUBLE ADSORPTION

SO2

291.7000 LB/H

70.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993 01/25/1984

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ID NUMBER FL-C019

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION NEW WALES CHEMICALS, INC.
P.O. BOX 1035

MULBERRY, FL 33960

POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. FL-072

DETERMINATION MADE BY

FLORIDA DER
(AGENCY)

WILLARD HANKS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/01/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SULFURIC ACID PLANT

2750.00 T/D H2SO4

SO2

458.3000 LB/H

NSPS

ACI*

DOUBLE ADSORPTION
17.2000 LB/H

70.00
NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE	FERTILIZER PLANTS	420.00 T/D
COMPANY NAME/SITE LOCATION	OCCEIDENTAL CHEMICAL CO. SR 137 N. WHITE SPRINGS	WHITE SPRINGS, FL 32096 HAMILTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-FL-067
 DETERMINATION MADE BY FLORIDA DER (AGENCY)
 WILLARD HARKS (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/29/81
 ESTIMATED DATE OF START-UP-- 1982
 (1904)-4689-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DEFLUORINIZATION UNIT	420.00 T/D	F	0.0400 LB/T 0.7000 LB/H NET SCRUBBER	BACT 95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 ID NUMBER FL-0005
 SOURCE TYPE CODE 7.6
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 484000.00 T/YR PHOSPHORIC FERT

COMPANY NAME/SITE LOCATION USS AGRI-CHEMICALS P. O. BOX 150 BARTON (FT. MEADE COMPLEX), FL 38830 POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-FL-064
 DETERMINATION MADE BY FLORIDA DER (AGENCY)

DATE OF PERMIT ISSUANCE-- 04/01/81
 ESTIMATED DATE OF START-UP-- 1981
 (904)-488-1344
 (PHONE)
 WILLARD HANKS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFURIC ACID PROD.	1.35 MM T/YR	SO2	40.0000 LB/T 100% H2SO4 DOUBLE ADSORPTION	NSPS 70.00
PHOSPHORIC ACID PROD.	484000.00 T/YR	F	0.0200 LB/T P205 SCRUBBERS	NSPS 95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 ID NUMBER FL-0001
 SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 115.00 T/H

COMPANY NAME/SITE LOCATION W R GRACE & CO
P.O. BOX 310

BARTON, FL 33601

POLK COUNTY

DETERMINATION IS NSPS FOR A MODIFIED SOURCE.

PERMIT NO. PSD-FL-063
DETERMINATION MADE BY

FLORIDA DER
(AGENCY)

WILLARD HARKS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/01/81
ESTIMATED DATE OF START-UP-- 1984
(904)-488-1344
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DIAMMONIUM PHOSPHATE PLANT

115.00 T/H

F 0.0600 LB/T P205 FEED
TWO PACKED SCRUBBERS

NSPS
95.00

DRYER

S02 39.0000 LB/H
LOW SULFUR OIL

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER FL-0008

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION WYCON CHEMICALS

CHEYENNE, WY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. CT-564

DETERMINATION MADE BY

WYOMING AQD
(AGENCY)

CHUCK COLLINS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/27/84
ESTIMATED DATE OF START-UP--
(307)-777-7391
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMER, AMMONIA PLT	141.00 MMBTU/H	NOX	0.2000 LB/MMBTU LOW NOX BURNER	SIP
BOILER, AMMONIA PLT	26.00 MMBTU/H	NOX	0.2300 LB/MMBTU	SIP
ACID PLT #1, NITRIC	100.00 T/D	NOX	6.0000 LB/H SEE NOTE #2	TEST
ACID PLT #2, NITRIC	100.00 T/D	NOX	6.0000 LB/H SEE NOTE #2	TEST
ACID PLT #3, NITRIC	470.00 T/D	NOX	3.0000 LB/T ACID CATALYTIC NOX ABATOR	NSPS 90.00
NEUTRALIZER, H.D.AMMON. NITRATE*	250.00 T/D	VE	10.0000 % OPACITY	
EVAPORATOR, H.D.AMMON. NITRATE *	250.00 T/D	PM	19.7000 LB/H SEE NOTE #2	SIP
PRILL TOWER, H.D.AMMON. NITRATE*	250.00 T/D	PM	19.7000 LB/H SEE NOTE #2	SIP
COOL. DRUM SCRUB, H.D.AMMON. NI*	250.00 T/D	PM	54.0000 LB/H SEE NOTE #2	TEST
PRILL TOWER, L.D.AMMON. NITRATE*	900.00 T/D	PM	19.7000 LB/H SEE NOTE #2	SIP
WASH TOWER, L.D.AMMON. NITRATE *	600.00 T/D	PM	0.7400 LB/T NH4NO3 2 STAGE WET SCRUBBER	BACT 58.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER WY-0016

SOURCE TYPE CODE 7.6

(CONTINUED) WYCON CHEMICALS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILER, UREA PLT	26.00 MMBTU/H	PM	0.7400 LB/T NH4NO3 DRY CYCLONE PRECOLLECTOR & WET SCRUBBER	BACT 96.00
EVAP/CONCENTRATOR, UREA PLT	180.00 T/D	NOX	0.2300 LB/MMBTU	SIP
PRILL TOWER, UREA PLT	42.00 T/H	PM	15.8000 LB/H SEE NOTE #2	SIP
		PM	43.1000 LB/H SEE NOTE #2	SIP

NOTES -----
NOTE #1 - BASED ON TEST RESULTS. NOTE #2 - EXISTING SOURCES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
===== ID NUMBER WY-0016 INITIAL REVIEW POST STARTUP
===== REVIEW STATUS: =====
===== SOURCE TYPE CODE 7.6 =====
PAGE 6- 804

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10.50 T/H

STARCH MANUFACTURING

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION BROCK CANDY CO.

CHATTANOOGA, TN

HAMILTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 0300-30201899-081

DETERMINATION MADE BY

CHATTANOOGA-HAMILTON CO. APCB HARVEY RICE

(AGENCY) (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/15/83

ESTIMATED DATE OF START-UP-- 1984

(615)-867-4321

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

MOGUL, STARCH

21000.00 LB/H

PM

0.0100 GR/DSCF

FABRIC FILTER

99.90

ORIER-COOLER, STARCH

21000.00 LB/H

PM

0.3500 LB/H

FABRIC FILTER

BACT
99.90

NOTES -----

THE 0.35 LB/H LIMITATION IS THE TOTAL ALLOWED FROM BOTH UNITS COMBINED. SIC CODE IS 2071.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/26/1984

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ID NUMBER TN-0018

SOURCE TYPE CODE

7.7

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE STARCH MANUFACTURING

COMPANY NAME/SITE LOCATION CORN PRODUCTS
6400 ARCHER RD

BEDFORD PARK, IL 60501

COCK COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 81040028-81040039
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/23/81
ESTIMATED DATE OF START-UP-- 1982
(217)-782-2113
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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NEW FEED DRYER

PM	8.4000 LB/H	CYCLONES, HIGH EFF.	LAER
----	-------------	---------------------	------

SUGAR LOADING STATION

PM	0.3900 LB/H	BAGHOUSE	LAER
----	-------------	----------	------

STEEP VENTS

PM	0.6000 LB/H	WET SCRUBBER	LAER
----	-------------	--------------	------

GERM CAKE TRANSPORT

PM	1.6000 LB/H	CYCLONES	LAER
----	-------------	----------	------

FEED TRANSPORT

PM	2.0000 LB/H	CYCLONES	LAER
----	-------------	----------	------

GERM DRYER TRANSPORT

PM	2.3000 LB/H	MULTICLONES	LAER
----	-------------	-------------	------

DUST BIN PICKUPS

PM	1.2000 LB/H	SCRUBBER	LAER
----	-------------	----------	------

GERM FLAKE TRANSPORT

PM	4.5900 LB/H	CYCLONE (2 STAGE) & SCRUBBER	LAER
----	-------------	------------------------------	------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER IL-0010

SOURCE TYPE CODE 7.7

(CONTINUED) CORN PRODUCTS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GLUTEN DRYER		PM	2.1000 LB/H CYCLONES, HIGH EFF.	LAER
DUST PICKUP-ELEVATOR & CONV.		PM	1.5000 LB/H CYCLONES, HIGH EFF.	LAER
PELLET DUST COLLECTION SYS.		PM	1.1300 LB/H CYCLONES, 2 STAGE	LAER
GLUTEN DRYER		PM	1.1400 LB/H CYCLONES, HIGH EFF.	LAER

NOTES -----

LAER EMISSION LIMITS STATED FOR MAXIMUM EQUIPMENT THROUGHPUT. EMISSION RATES TO BE ADJUSTED PROPORTIONATELY FOR OPERATIONAL THROUGHPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SUGAR CANE PROCESSING 195.00 MMBTU/H

COMPANY NAME/SITE LOCATION ATLANTIC SUGAR ASSOC.
P.O. DRAWER BPALM BEACH, FL 33430
PALM BEACH COUNTYDETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-FL-078
DETERMINATION MADE BY FLORIDA DER
(AGENCY)BOB KING
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/06/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344
(PHONE)PROCESS SUBJECT THROUGHPUT POLLUTANT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFFBOILER, BAGASSE 54681.00 LB/H BAGASSE PH 0.1500 LB/MMBTU INPUT JOY TURBULAIRE MODIFIED BACT
92.00

BOILER, NO. 6 OIL 3.13 BSL/H #6 OIL SO2 1.0000 % S OIL FUEL ANALYSIS BACT

VOC
VE LAER DETERMINATION
30.0000 % OPACITY
SEE NOTEBOILER, BAGASSE 54681.00 LB/H BAGASSE PH 0.1500 LB/MMBTU INPUT BACT
IMPINGER-SCPIUS SIZE 90 TYPE D
VOC 2.0000 LB/T BAGASSE FIRED SCC

NOTES -----

THE BOILER IS A FOSSIL FUEL FIRED UNIT MODIFIED TO BURN BAGASSE. OIL IS TO BE USED ONLY AS A SUPPLEMENTARY FUEL. OPERATION IS
SEASONAL.
VE LIMIT MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MINUTES IN ANY ONE HOUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

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ID NUMBER FL-0011

SOURCE TYPE CODE 7.8

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SUGAR CAKE PROCESSING 288.00 MMBTU/H

COMPANY NAME/SITE LOCATION OSCEOLA FARMS CO.
EAST OF PAHOKEE US-98 PAHOKEE, FL 33476 PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. FL-0012 DATE OF PERMIT ISSUANCE-- 10/28/81
DETERMINATION MADE BY FLORIDA DER ESTIMATED DATE OF START-UP-- 1982
(AGENCY) (904)-488-1344
BOB KING (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, BAGASSE	80000.00 LB/H BAGASSE	PM	0.1500 LB/MMBTU INPUT WET SCRUBBER JOY TYPE D TURBULAIRE	BACT 93.90
BOILER, NO. 6 OIL	1.10 BBL/H #6 OIL	PM	0.1000 LB/MMBTU INPUT SCRUBBER	BACT 93.90
		SO2	1.0000 % MAX S OIL	BACT
		VOC	2.0000 LB/T	SCC
		VE	LAER DETERMINATION - SEE NOTE 30.0000 % OPACITY SEE NOTE	BACT

NOTES

LAER SAME AS DETERMINED FOR ATLANTIC SUGAR ASSOCIATION. OPERATION IS SEASONAL NOVEMBER THROUGH MARCH. NO.6 OIL IS USED AS A SUPPLEMENTARY FUEL.
VE LIMITS MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MINUTES IN ANY ONE HOUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984
ID NUMBER FL-0012 SOURCE TYPE CODE 7.8
PAGE G- 809

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SUGAR CANE PROCESSING 240000.00 LB/H

COMPANY NAME/SITE LOCATION SUGAR CANE GROWERS COOP.
P.O. BOX 666

BELLE GLADE, FL 33430

PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-077
DETERMINATION MADE BY FLORIDA DER
(AGENCY)BOB KING
(AGENCY CONTACT PERSON)DATE OF PERMIT ISSUANCE-- 05/07/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344
(PHONE)PROCESSES SUBJECT
TO THIS PERMITTHROUGHPUT
CAPACITYPOLLUTANT
EMITTEDEMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION... & BASIS
... PCT EFF

BOILER, BAGASSE/RESIDUE, #6 COM* 264000.00 LB/H

PM	0.1500 LB/MMBTU 75.6000 LB/H WET SCRUBBER		BACT
SO2	14.0000 T/D LOW S OIL		90.00 BACT
CO	140.0000 LB/H 325.0000 T/YR EQUIPMENT DESIGN & OPERATION		BACT
VOC	140.0000 LB/H 325.0000 T/YR EQUIPMENT DESIGN & OPERATION		BACT
NOX	123.0000 LB/H 209.0000 T/YR EQUIPMENT DESIGN & OPERATION		BACT

BOILER, BAGASSE/RESIDUE, #8 COM* 240000.00 LB/H STEAM

PM	0.1000 LB/MMBTU SCRUBBER		BACT 90.00 BACT
SO2	1.0000 % S OIL FUEL FLOW		
VOC	SEE NOTE		
VE	30.0000 % OPACITY COMBUSTION SEE NOTE		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

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ID NUMBER FL-0010

SOURCE TYPE CODE 7.8

(CONTINUED) SUGAR CANE GROWERS COOP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

NOTES

(1) RESIDUE IS A BYPRODUCT OF THE FURFURAL PROCESS. (2) LAER SAME AS DETERMINED FOR ATLANTA SUGAR ASSOCIATION. #6 OIL IS USED AS A SUPPLEMENTARY FUEL. OPERATION IS SEASONAL.
VE LIMIT MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MIN. IN ANY ONE HOUR. VOC LIMIT AND EFFICIENCY TO BE DETERMINED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984
SOURCE TYPE CODE 7.8

ID NUMBER FL-0010

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS

COMPANY NAME/SITE LOCATION A.E. STALEY CHAMPAIGN, IL

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 11/14/83
 PERMIT NO. 83 05 0091 ESTIMATED DATE OF START-UP-- 1985
 DETERMINATION MADE BY ILLINOIS EPA CHRIS ROMAINE
 (AGENCY) (AGENCY CONTACT PERSON) (217)-782-2113
 (PHCNE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	130.00 MMSTU/H	PM	0.0600 LB/MMBTU FABRIC FILTER	BACT 99.00
		SO2	1.2000 LB/MMSTU COAL SUPPLY	BACT
		NOX	0.6000 LB/MMBTU EQUIPMENT DESIGN & CO MONITOR	BACT
COAL & ASH HANDLING, STORAGE		PM	0.0300 GR/DSCF FABRIC FILTER	BACT 99.00

NOTES -----
 ALSO STATE ID NUMBER 019 827 AAA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 08/21/1984
 ID NUMBER IL-0027 SOURCE TYPE CODE 7.9
 PAGE G- 812

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

95.00 MMBTU/H

FATS/VEGETABLE OILS

VALDOSTA, GA

GOLD KIST INC.,

GOLD KIST INC., GOLD KIST SOY PLANT

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 2075-092-8098-C

DETERMINATION MADE BY

GEORGIA EPD
(AGENCY)

SUE MCFATHER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/09/81
ESTIMATED DATE OF START-UP-- 1982
(404)-656-4867
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

WELLON TYPE A BOILER

95.00 MMBTU/H

PM

0.1000 LB/MMBTU

NSPS

NOX

0.7000 LB/MMBTU

NSPS

VOC

2 STAGE MECHANICAL COLL./FAB. FILTER
BURNER & FURNACE DESIGN/GOOD OPER.
EFF. BOILER DESIGN & GOOD OPER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1985

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ID NUMBER GA-0010

SOURCE TYPE CODE 7.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS 360000.00 T SOYBEAN PROC.

COMPANY NAME/SITE LOCATION OWENSEBORO GRAIN CO.
923 EAST 2ND ST.

OWENSEBORO, KY 42301 DAVIESE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-81-70
DETERMINATION MADE BY KENTUCKY DAPC
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/24/81
ESTIMATED DATE OF START-UP-- 1982
(502)-554-3382
BILL DILLS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

BOILER, COAL FIRED, & FUEL HAND* 130.50 M³TU/H

SO₂ 1.6000 LB/MMBTU
NOX 0.7000 LB/MMBTU
CONVEUSTION CONTROL

SOLVENT EXTRACTION SYSTEM 360000.00 T/YR

VOC 2.9000 LB HEXANE/T SOYBEAN
517.2000 T/YR

MINERAL OIL SCRUBBER

98.00

SOYBEAN PREP. 360000.00 T/YR

PM NOT APPLICABLE

NOTES -----
NON-ATTAINMENT AREA FOR PM - REVIEW NOT APPLICABLE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVI.W POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984
SOURCE TYPE CODE 7.9
ID NUMBER KY-0039

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS

COMPANY NAME/SITE LOCATION QUINCY SOYBEAN

QUINCY, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 83 05 0033
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/16/83
ESTIMATED DATE OF START-UP-- 1984
(217)-782-2113
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2	125.00 MMBTU/H	PM	0.0750 LB/MMBTU	FABRIC FILTER	SIP 99.00
		SO2	1.8000 LB/MMBTU	COAL SUPPLY	BACT
		NOX	0.7000 LB/MMBTU	EQUIPMENT DESIGN	BACT
		CO	200.0000 PPM MAX	CONTINUOUS O2 MONITORS	BACT
COAL & ASH HANDLING, STORAGE		PM	0.0300 GR/DSCF	FABRIC FILTER	SIP 99.00
FUGITIVE EMISSIONS		PM		ROUTINE CONTROL MEASURES	SIP

NOTES -----
NOTE - ALSO STATE ID NUMBER 001 815 AAF. PROJECT WAS NOT A MAJOR MODIFICATION FOR PM. PERMIT CONDITIONS APPLIED TO PM EMISSIONS TO LIMIT EMISSIONS TO BELOW SIP LEVELS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 08/21/1984

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FRUITS/VEGETABLES PROCESSING

COMPANY NAME/SITE LOCATION A.E. STALEY MFG. CO.

DES MOINES, IA

POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VII (AGENCY)

CHARLES WHITMORE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP--
(816)-374-6525
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BOILER, COAL-FIRED, 2 EA

150.00 MMBTU/H

SO2

1.6000 LB/MMBTU MAX
1.2000 LB/MMBTU 30D AV
LOW SULFUR COAL

BACT

NOX

0.6000 LB/MMBTU

BACT

SPREADER STOKER, DESIGN TECH.

NOTES

COAL FIRED BOILER TO REPLACE EXISTING OIL FIRED BOILERS. ONE OIL-FIRED BOILER TO REMAIN AND BE USED ONLY AS A STAND-BY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE G- 816

ID NUMBER IA-0004

SOURCE TYPE CODE 7.11

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FRUITS/VEGETABLES PROCESSING

COMPANY NAME/SITE LOCATION SNACK FOODS PLANT

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. SEE NOTE

DETERMINATION MADE BY KERN COUNTY APCD
(AGENCY)

THOMAS PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/83
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
-------------------------------------	------------------------	----------------------	--	----------------------------

BOILER

72.00 MMBTU/H

PM	1.0000 LB/H
SO2	18.2000 LB/H
NOX	100.0000 PPM AT .3% O2 0.9400 LB/H

BOILER

72.00 MMBTU/H

PM	1.0000 LB/H
SO2	18.2000 LB/H
NOX	100.0000 PPM AT .3% O2 0.9400 LB/H

POTATO CHIP FRYING

31087.00 LB/D

PM

2.9000 LB/H
WET SCRUBBER

CORN CHIP

3155.50 LB/D

PM

0.5000 LB/H

TORTILLA CHIP LINE #1

4517.80 LB/H

PM

0.7000 LB/H

TORTILLA CHIP LINE #2

4517.80 LB/H

PM

0.7000 LB/H

CORN RECEIVING & CLEANING

15000.00 LB/H

PM

0.1900 LB/H
CYCLONE

BOILER

10.00 MMBTU/H

PM

0.1500 LB/H

90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

(CONTINUED) SNACK FOODS PLANT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
SUGAR RECEIVING, STORAGE, & SIF*	25000.00 LB/H	SO2	2.5000 LB/H	
		NOX	100.0000 PPM AT .3% O2 0.9600 LB/H	
FLOUR RECEIVING	25000.00 LB/H	PM	0.1700 LB/H FABRIC FILTER	
		PM	0.1900 LB/H FABRIC FILTER	
FLOUR SCREENING	13200.00 LB/H	PM	0.0900 LB/H FABRIC FILTER	

NOTES -----

507 GAL/H, 0.25 % S OIL, 72000. SCF/H NATURAL GAS. FILE A 370-014 NOTE -- PERMITS 3082001 - 3082011

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS:

ID NUMBER CA-0061 SOURCE TYPE CODE 7.11

05/21/1985

COMPANY NAME/SITE LOCATION STANISLAUS FOOD PRODUCT CO.
 , CA STANISLAUS COUNTY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, STEAM, NAT. GAS	125000.00 LB/H STEAM	NOX	65.0000 PPM AT 3/2 O2	BURNER W/FLUE GAS RECIRCULATION	O2 TRIM CONTROL, STAGED COMBUSTION	LAER
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NOTES -----
OPERATES 24 H/D, 7 D/WK, 10 WK/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL	REVIEW	POST STARTUP
PAGE G- 819		STATUS:	
ID NUMBER CA-0097	SOURCE TYPE CODE	7.11	

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 249.00 MMSTU/H

COMPANY NAME/SITE LOCATION A.E. STALEY MFG. CO.

MORRISVILLE, PA

BUCKS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 81PAQ1
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)

DAVID ARNOLD
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/27/82
 ESTIMATED DATE OF START-UP-- 1983
 (215)-597-7936
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

COAL BOILER

249.00 MMSTU/H

PM

0.1000 LB/MMSTU

BAGHOUSE

99.00

SO2

0.9000 LB/MMSTU

FGD-DRY SCRUBBER

80.00

NOX

0.7000 LB/MMSTU

COMBUSTION MODIFICATION TECH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

PAGE G- 820

ID NUMBER PA-0026

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 2500.00 LB/H

COMPANY NAME/SITE LOCATION BLACKWELL LAND CO., INC.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 3004006

DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/26/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PISTACHIO FINISHING OPERATION 2500.00 LB/H

PM

0.6300 LB/H

HIGH EFF. CYCLONE & 2 SOCK FILTERS

BACT
90.00

NOTES -----

PROCESS OPERATES 16 H/D, 5 D/WK, 35 WK/YR. HOURS OF OPERATION & THRU-PUT CAPACITY ARE PART OF THE PERMIT PROCESS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

PAGE 6- 621

ID NUMBER CA-0086

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

45.00 MMBU/YR

OTHER FOOD & AGRICULTURAL

SOURCE TYPE/SIZE

EAGLE GROVE, IA

COMPANY NAME/SITE LOCATION BOONE VALLY COOP.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 08/28/81
ESTIMATED DATE OF S.ART-UP-- 1981

DANIEL RODRIGUEZ
(AGENCY CONTACT PERSON)

DETERMINATION MADE BY EPA REGION VII
(AGENCY)

(816)-374-6525
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED BOILER	146.50 MMBTU/H	SO2	2.0000 LB/MMBTU LOW S WESTERN COAL	
		NOX	0.6000 LB/MMBTU LEA AND STAGED COMBUSTION	
MINERAL OIL SCRUBBER		VOC	0.0700 GAL/T SOYBEAN PROC.	
MEAL DRYER		VOC	0.2500 GAL/T SOYBEAN PROC.	
MEAL COOLER		VOC	0.2000 GAL/T SOYBEAN PROC.	

NOTES -----
VOC EMISSIONS ARE CONTROLLED BY THE DESIGN OF THE SOY EXTRACTION PROCESS EQUIPMENT WHICH MINIMIZES THE LOSS OF HEXANE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1985

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 113.00 MMBTU/H EA

COMPANY NAME/SITE LOCATION CAMPBELL SOUP CO. MAXTON, NC

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/25/80
 PERMIT NO. NC-065 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH CAROLINA DEM MIKE SEWELL (919)-733-6126
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 BOILER 113.00 MMBTU/H EA SO2 1.3000 LB/MMSTU FUEL OIL 1.2% SULFUR BACT
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION CAMPBELL SOUP CO. NAPOLEON, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 0335010105
 DETERMINATION MADE BY OHIO EPA NHD
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 03/20/81
 ESTIMATED DATE OF START-UP-- 1982
 (419)-352-8461
 (PHONE)
 SAMIR ARAJ
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
3 FLUIDIZED BED BOILERS	150000.00 LB/H STEAM	PM	0.1000 LB/MMBTU BAGHOUSE	99.00
		SO2	1.6000 LB/MMBTU LIMESTONE INJECTION	85.00
		NOX		

NOTES

PERMIT CONDITIONS ALLOW INDICATED MAXIMA FOR PARTICULATE AND SO2 EMISSIONS ONLY IF THE STACK TESTS SHOW THAT THE LIMITS CANNOT BE ACHIEVED. THEY ALSO REQUIRE DECOMMISSIONING OF TWO EXISTING OIL FIRED BOILERS (CAPY. 160000 LB/H), AND INSTALLATION OF CONTINUOUS OPACITY MONITOR PER 40 CFR PART 60.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

161.20 MMBTU/H

OTHER FOOD & AGRICULTURAL

HARTSVILLE, SC 29550

COMPANY NAME/SITE LOCATION CARGILL, INC.
P.O. DRAHER 878

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 02/25/81
DETERMINATION MADE BY SOUTH CAROLINA DHEC ESTIMATED DATE OF START-UP--
(AGENCY) (803)-758-5406
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, #5 + #6	80.60 MMBTU/H EA	PM	29.0000 LB/H	BACT
			FABRIC FILTER	98.00
		SO2	326.9000 LB/H	BACT
			1.28% SULFUR IN COAL	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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ID NUMBER SC-0004
REVIEW STATUS: 04/01/1993 04/02/1984
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

51.20 MMBTU/H

COMPANY NAME/SITE LOCATION CENTRAL SOYA

MARION, OH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 03-779

DATE OF PERMIT ISSUANCE-- 08/09/79
ESTIMATED DATE OF START-UP-- 1981

DETERMINATION MADE BY OHIO EPA NRD
(AGENCY)

SAMIR ARAJ
(AGENCY CONTACT PERSON)

(419)-352-8461
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FLUIDIZED BED BOILER

44.00 MMBTU/H

PM

0.0240 LB/MMBTU
BAGHOUSE

98.00

(*) INDICATED DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER OH-0037

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION CONTINENTAL GRAIN CO.

GUNTERSVILLE, AL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 711-0003-X021
DETERMINATION MADE BY ALABAMA DEM
(AGENCY)

DATE OF PERMIT ISSUANCE-- 04/27/84
ESTIMATED DATE OF START-UP-- 1986
(205)-271-7861
(PHONE)

SUE ROBERTSON
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER, COAL-FIRED 60.60 MMBTU/H

PM 0.2270 LB/MMBTU BAGHOUSE
SO2 1.1000 LB/MMBTU 0.8% S COAL
NOX 0.2700 LB/MMBTU DESIGN & COMBUSTION PRACTICES

SIP 99.00 BACT
BACT

COAL & ASH HANDL SYSTEM

PM NO LEAKS
VE BAGHOUSE 20.0000 % OPACITY
WET SUPPRESSION

SIP 99.00 SIP

NOTES -----
NET EMISSION REDUCTION FOR TSP, THEREFORE BACT NOT REQUIRED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

PAGE G- 827

ID NUMBER AL-0025

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION FRITO-LAY

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. SEE NOTE

DETERMINATION MADE BY KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/09/84

ESTIMATED DATE OF START-UP--

(805)-861-3682

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CORN CHIP FRYER

2500.00 LB/H

PM

0.5000 LB/H

MIST ELIMINATOR SEPARATOR

BACT

TURBINE, GAS FIRED

6.00 MW

PM

0.8300 LB/H

SO2

0.0300 LB/H

LOW SULFUR OIL

NOX

13.7000 LB/H

H2O/STEAM INJECTION

BACT

NOTES -----

NOTE #1 -- PERMIT # 3082013 & 3082014, NOTE #2 -- DUCT BURNER FIRES OIL - SO₂ 10.1 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER CA-0085

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 243.00 MMBTU/H

COMPANY NAME/SITE LOCATION GENERAL FOODS CORP. DOVER, DE

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/23/82
PERMIT NO. APC 83/074 ESTIMATED DATE OF START-UP-- 1985
DETERMINATION MADE BY DELEHARE DNR HUGH MENGHI
(AGENCY) (AGENCY CONTACT PERSON) (302)-736-4791 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	243.00 MMBTU/H	SO2	3.0400 LB/MMBTU	
			2% S COAL	
		PM	0.1000 LB/MMBTU	
		NOX	0.7000 LB/MMBTU	99.00
			ESP	
			FURNACE DESIGN	

NOTES -----
BACT FOR SO2 DETERMINED BY FUEL AVAILABILITY AND ECONOMICS

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION GRIFFIN INDUSTRIES NEWBERRY, IN

DETERMINATION IS BACT PERMIT NO. DATE OF PERMIT ISSUANCE--
 DETERMINATION MADE BY INDIANA APCD ESTIMATED DATE OF START-UP--
 (AGENCY) (317)-633-0663
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BOILER, COAL FIRED NOX 183.0000 T/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

PAGE 6- 630 ID NUMBER IN-0007

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION HTC INDUSTRIES

SAN ANGELO, TX

TOM GREEN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8710

DETERMINATION MADE BY

TEXAS ACB

(AGENCY)

GARY WALLIN

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/30/81

ESTIMATED DATE OF START-UP-- 1982

(512)-451-5711

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BATCH COOKERS, 6

8000.00 LB EA

ODOR

100.0000 ODOR UNITS

VENTED TO BOILER FIRE BOXES

99.00

GAS/OIL FIRED BOILERS, 2

500.00 HP

NOX

0.3000 LB/H

CO

3.3000 LB/H

PM

0.7500 LB/H

SO2

5.4000 LB/H

PLANT AIR FROM 6 BATCH COOKERS 100000.00 ACFM

ODOR 100.0000 ODOR UNITS

HORIZONTAL, CROSSFLOW SCRUBBER

90.00

NOTES

ONE BOILER IS FOR STAND-BY OPERATION ONLY. POLLUTANT EMISSION RATES ARE FOR ONE BOILER, FIRING 100% NO. 2 FUEL OIL.
ANIMAL BY-PRODUCTS MUST BE FRESH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE G- 831

ID NUMBER TX-0093

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION KERN PISTACHIO COOP.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 3068002A KERN COUNTY APCD
 DETERMINATION MADE BY (AGENCY)

DATE OF PERMIT ISSUANCE-- 07/25/84
 ESTIMATED DATE OF START-UP--
 (805)-861-3682
 (PHONE)

TOM PAXSON
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT THROUGHPUT
 TO THIS PERMIT CAPACITY

POLLUTANT EMISSION LIMITS
 EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

MATL PROCESSING, DRYING & HULLI* 48000.00 LB/YR

PM 0.0240 GR/SCF, CYC
 0.0084 GR/SCF, FIF.
 CYCLONE & FABRIC COLLECTOR

NOTES -----
 SOURCE OPERATES 24 H/D, 7 D/WK, APPROX. 10 WKS/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 09/01/1984

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ID NUMBER CA-0082

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION KHAPPEN VILACTOS MOLASSES

ST. PAUL, MN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 181-81-I-1

DETERMINATION MADE BY

MINNESOTA PCA

(AGENCY)

JERRY LIEFERT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/07/81

ESTIMATED DATE OF START-UP-- 1981

(612)-296-7272

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DRYING DRUM

14.50 T/H

PM

1.9400 T/YR

PARALLEL CYCLONES & INCIN.

BACT

98.00

SETTLING CHAMBER SEPARATION CYC 37000.00 CF/M

PM

7.50 T/H

FLUID BED CONVEYOR

PM

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

PAGE G- 833

ID NUMBER MN-0005

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

12.00 MMLB/YR DRY MILK

OTHER FOOD & AGRICULTURAL

SOURCE TYPE/SIZE

MOUNTAIN LAKE, MN

COMPANY NAME/SITE LOCATION LAND O'LAKES INC.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 787U-61-I-1
 DETERMINATION MADE BY MINNESOTA PCA
 (AGENCY)
 JERRY LIEFERT
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/08/81
 ESTIMATED DATE OF START-UP-- 1981
 (612)-296-7272
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY DRYER (MILK POWDER)	12.00 MMLB/H	PM	TRACE 1.0000 T/YR BAGHOUSE JET PULSE AIR CLEANING	BACT 99.80

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 7.12
 ID NUMBER MN-0001
 PAGE G- 834

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION PACIFIC ADHESIVES COMPANY OF TEXAS

FORT WORTH, TX

TARRANT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 6690A

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

GARY WALLIN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/02/82
ESTIMATED DATE OF START-UP-- 1979
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BLOOD DRYER, DRIED BLOOD HANDLI* 1300.00 LB/H DRIED *

PM

3.0000 T/YR

BAG FILTER

99.00

BLOOD DRYER

1300.00 LB/H DRIED *

ODOR

CYCLONE, VENTURI, PACKED SCRUBBER

90.00

NOTES -----

ORIGINAL PERMIT, 6690, WAS ISSUED TO A DIFFERENT OWNER ON 1/26/79. NO CHANGE IN POLLUTANT CONTROLS WAS REQUIRED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0097

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

18.00 BALE/H

OTHER FOOD & AGRICULTURAL

SOURCE TYPE/SIZE

FRESNO, CA

COMPANY NAME/SITE LOCATION PRODUCERS COTTON OIL CO.
1/2 MILE EAST OF LASSEN AVE.

DETERMINATION IS B/L FOR A MODIFIED SOURCE.

PERMIT NO. 1030042101
DETERMINATION MADE BY

FRESNO COUNTY APCD
(AGENCY)

WILLIAM RODDY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/20/80
ESTIMATED DATE OF START-UP-- 1981
(209)-445-3239
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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#2 CLEANER MOIST AIR FAN	18.00 BALE/H	PM	0.0145 GR/SCF 1D-3D CYCLONE COLLECTORS	
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MOTES ROBBER (2ND CUT)	18.00 BALE/H	PM	0.0290 GR/SCF 1D-3D CYCLONE COLLECTORS	
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MG LINT CLEANER	18.00 BALE/H	PM	0.0007 GR/SCF 1D-3D CYCLONE COLLECTORS	
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MOTES	18.00 BALE/H	PM	0.0094 GR/SCF 1D-3D CYCLONE COLLECTORS	
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WAGON SUCTION	18.00 BALE/H	PM	0.0102 GR/SCF 1D-3D CYCLONE COLLECTORS	
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NOTES -----
BOTH A BACT & A LAER DETERMINATION.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER CA-0041

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 850.00 KW

COMPANY NAME/SITE LOCATION RALSTON PURINA, VAN CAMP SEAFOOD DIV. PAGO PAGO, AS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. AS 83-01

DETERMINATION MADE BY EPA REGION IX

(AGENCY)

MATT HABER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/06/83

ESTIMATED DATE OF START-UP-- 1983

(415)-974-8209

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

I.C. ENGINE

850.00 KW

NOX

320.0000 PPM AT 15% O2

19.3600 LB/H 2H AV

NOTES -----

THIS IS A NEW DIESEL ENGINE ADDED TO AN EXISTING CANNERY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/19/1984

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ID NUMBER AS-0001

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 248.00 MMBTU/H, 5, EA

COMPANY NAME/SITE LOCATION R. J. REYNOLDS TOBACCOVILLE, NC

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE--
DETERMINATION MADE BY FORSYTH COUNTY ENV. AFFAIRS KEITH TART ESTIMATED DATE OF START-UP--
(AGENCY) (AGENCY CONTACT PERSON) (919)-727-8060
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, PULVERIZED COAL FIRED, 5	248.00 MMBTU/H EA	PM	0.0500 LB/MMBTU BAGHOUSE	BACT 99.50
		BE	0.0004 G/MMBTU BAGHOUSE	BACT 99.50
		PB	0.0009 G/MMBTU BAGHOUSE	BACT 99.50
		SO2	1.2000 LB/MMBTU LOW S COAL	NSPS 99.50
		NOX	0.7000 LB/MMBTU COMBUSTION CONTROLS	NSPS
		F	0.0048 LB/MMBTU	BACT
		HG	0.0030 G/MMBTU	BACT
		CO	0.0370 LB/MMBTU	BACT
		VOC	0.0110 LB/MMBTU	BACT
ASH HANDLING	2.20 T/H	PM	0.0400 LB/T BAGHOUSE H2O SPRAY	BACT 99.90
UNLOADING COAL FROM RAIL CARS	254040.00 T/YR	FUG*	0.1100 GR/T PARTIAL ENCLOSURE & CHEM. SPRAY	LAER 97.00
COAL STORAGE PILE	254040.00 T/YR	FUG*	0.0130 LB/T STACKER/TELESCOPIC CHUTE/CHEM. STAB.	BACT 96.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER NC-0027

SOURCE TYPE CODE 7.12

(CONTINUED) R. J. REYNOLDS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CIGARETTE MFG	37.50 T/H	PM	0.2500 LB/T	BACT
		FUG*	BAGHOUSE & WET SCRUBBER	99.90
		VOC	0.2100 LB/T	BACT
			11.6300 LB/T	
VEHICLE TRAFFIC	2275.00 VEH/D		PROCESS CHANGE	74.00
		FUG*	7.2000 LB/D	
			FLUSHING/SPEED REDUCTION/PAVING	88.00

NOTES -----

PSD APPLICATION IS BEING REVIEWED AT PRESENT AND NO PERMITS HAVE BEEN ISSUED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NC-0027

SOURCE TYPE CODE 7.12

05/21/1985

302.60 MMBTU/H

WINSTON-SALEM, NC

DATE OF PERMIT ISSUANCE-- 03/09/79
ESTIMATED DATE OF START-UP-- 1979
(919)-727-8060
(PHONE)

FORSYTH COUNTY ENV. AFFAIRS KEITH TART
(AGENCY) (AGENCY CONTACT PERSON)

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

302.60 MBTU/H

0.1000 LB/MMBTU

08-66
7/8

502 1.2000 LB/MMBTU

7/8

NOX 0.7000 LB/MMBTU

B/L

COMBUSTION CONTROLS

VE 20.0000 % CPACITY

99.85

153

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NC-0025

SOURCE	TYPE	CODE	7.12
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94	94	94	94
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96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION SALTER GRAIN & MILLING CO.

, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8323

DETERMINATION MADE BY

KINGS COUNTY APCD

(AGENCY)

MARTIN KEAST

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/20/83

ESTIMATED DATE OF START-UP-- 1984

(209)-584-1411

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

COTTON GIN

800.00 BALES/D

PM

17.0000 LB/H

CYCLONES

NOTES

STATE FILE # A370-034-83

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS:

ID NUMBER CA-0076

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION ZALOOM BROTHERS, INC.

, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 3081001

DETERMINATION MADE BY

KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/24/84

ESTIMATED DATE OF START-UP-- 1982

(805)-861-8682

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

PRECLEANER, HULLING & DRYING 300.00 T/D

PM 141.6000 LB/D

HIGH EFFICIENCY CYCLONE

96.00

FINISHING 40000.00 LB/D

PM 11.4000 LB/D

HIGH EFFICIENCY CYCLONE

90.00

NOTES -----

FILE NUMBER A370-033-084. PERMIT NUMBER 30810002

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

PAGE G- 642

ID NUMBER CA-0075

SOURCE TYPE CODE 7.12

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

REPORT NO. EPA-450/3-85-016C	2.	3. RECIPIENT'S ACCESSION NO.
TITLE AND SUBTITLE BACT/LAER Clearinghouse - A Compilation of Control Technology Determinations: Volume II-B, Appendix G - Source Type Codes 5.0-7.0		5. REPORT DATE June 1985 (Date of Issue)
AUTHOR(S) David Dunbar, PEI Gary Rust, U.S. EPA		6. PERFORMING ORGANIZATION CODE
PERFORMING ORGANIZATION NAME AND ADDRESS PEI Associates, Inc. Chester Towers 11499 Chester Road Cincinnati, Ohio 45246		8. PERFORMING ORGANIZATION REPORT NO.
SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency Office of Air Quality Planning and Standards Emission Standards and Engineering Division Research Triangle Park, North Carolina 27711		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-02-3890 Work Assignment No. 4
		13. TYPE OF REPORT AND PERIOD COVERED Task Final
		14. SPONSORING AGENCY CODE 68A

SUPPLEMENTARY NOTES This report will be supplemented from time to time as new determinations require. Users of this report should contact Regional Offices to get the number of subsequent reports.

ABSTRACT

This volume contains the detailed source listings for the determinations submitted in source type code 5.0 through source type code 7.0.

The detailed source listing normally contains the following information: source type and size; company name and location; whether determination was BACT or LAER for new or modified source; the person, agency and phone number that made the determination; permit issue date; estimated date of start-up; processes subject to this permit; through-put capacity; pollutant(s) emitted; emission limits; control equipment or process modification; a section for notes; and review status dates.

KEY WORDS AND DOCUMENT ANALYSIS

DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Air Pollution Industrial Processes Combustion Sources Control Equipment Coal Oil Bark	Nitrogen Oxides Scrubbers Baghouses Electrostatic Precipitators	Air Pollution Control Stationary Sources BACT LAER Sulfur Dioxide Particulate VOC
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