

EPA 450/2-83-005B

BACT-LAER Clearinghouse:

A Compilation Of Control Technology Determinations

Appendix G Volume 1 Source Type Codes 1.0-5.0

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1780.00 MM

COMPANY NAME/SITE LOCATION AL ELEC COOP INC ANDALUSIA, AL 36420 CHOCTAW COUNTY
P. O. BOX 550

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/24/81
PERMIT NO. AL 071 ESTIMATED DATE OF START-UP-- 1986
DETERMINATION MADE BY ALABAMA APCD (205)-834-6570
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE BOILER	4805.00 MMBTU/H EA	PM	144.0000 LB/H 631.0000 T/YR		NSPS
		SO2	3803.0000 LB/H 16658.0000 T/YR		99.80 NSPS
		NOX	2883.0000 LB/H 12628.0000 T/YR		90.00 NSPS
		CO	470.0000 LB/H 2060.0000 T/YR		BACT
				BOILER DESIGN & OPERATION	
				BOILER DESIGN & OPERATION	

NOTES -----
ESTIMATED STARTUP DATES -- UNIT 1, 3/86 - UNIT 2, 5/91 - UNIT 3, 7/96 - UNIT 4, 9/01.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MM

COMPANY NAME/SITE LOCATION ARIZONA PUBLIC SERVICE CO., CHOLLA UNIT* JOSEPH CITY, AZ

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/15/78
 PERMIT NO. AZP 78-01 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX JIM HANSON (415)-974-8038
 (AGENCY) (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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COAL FIRED BOILER	350.00 MM	PM	0.0500 LB/MMBTU ESP	
		SO2	0.0720 LB/MMBTU WET LIMESTONE SCRUBBING	94.00
		NOX	0.7000 LB/MMBTU LOW S COAL	NSPS

COAL HANDLING AREAS

LIMESTONE HANDLING AREAS

DUST CONTROL SYS

DUST CONTROL SYS

NOTES -----
 THE DEGREE OF CONTROL WAS PROPOSED BY CO. IN ITS APPLICATION. FUGITIVE DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATER SPRAY. BOTTOM ASH SHALL BE PUMPED TO A SPRAY POND. ASH SHALL BE MIXED WITH WASTE SLUDGE FROM SO2 ABSORBERS AND OR WASTEWATER FROM COOLING TOWER AND TRANSPORTED IN A SLURRY TO A SEPERATE DISPOSAL AREA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION ARKANSAS PWR & LT CO. NEWARK, AR INDEPENDENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/30/78
 PERMIT NO. PSD-AR-48 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 EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

COAL-FIRED STEAM GEN 800.00 MW S02 0.9300 LB/MMBTU NSPS
 PM 0.1000 LB/MMBTU LOW S WESTERN COAL
 ESP 99.50

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

EXTERNAL COMBUSTION - COAL

730.00 MM

ASSOC. ELECT. COOP., INC.
THOMAS HILL STATION

, MO

RANDOLPH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VII
(AGENCY)

DANIEL RODRIGUEZ
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/06/78
ESTIMATED DATE OF START-UP-- 1982
(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 (UNIT 3), PU* 6588.00 MMBTU/H

SO2

1.2000 LB/MMBTU

BACT

PM

0.1000 LB/MMBTU

BACT

NOX

0.7000 LB/MMBTU
COLD-SIDE ESP
BOILER DESIGN

NSPS

NOTES

PLANT NAME- THOMAS HILL (EXISTING UNIT 1 - 180MM, NET, EXISTING UNIT 2 - 303 MM, NET). THE NEW UNIT 3 IS SUBJECT TO NSPS, SUBP
ART D. EXISTING UNITS 1 AND 2 WILL BE LIMITED TO 8.0 LB SO2/MMBTU (3-HR. AVG.) BECAUSE OF POSSIBLE
AMBIENT STANDARD VIOLATIONS. THE EXISTING UNITS WILL BURN WASHED COAL (4.5% S BY WT.). UNIT 3 WILL BURN UNWASHED COAL (5.5% S
BY WT.). MISSOURI COAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 313.00 MMBTU/H

COMPANY NAME/SITE LOCATION AUSTELL BOX BOARD CO. AUSTELL, GA 30001
WASHINGTON ST.

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/29/81
PERMIT NO. 2631-033-7994-C ESTIMATED DATE OF START-UP-- 1983
DETERMINATION MADE BY GEORGIA EPD (404)-656-4867
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

BOILER 313.00 MMBTU/H

PM	0.1000 LB/MMBTU	BAGHOUSE	NSPS
S02	1.2000 LB/MMBTU		99.50
CO	0.7000 LB/MMBTU	SPRAY DRYER-ATOMIZED CA(OH)2	NSPS
VOC		FURNACE, BURNER DESIGN	70.00
NO2		FURNACE, BURNER DESIGN	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 249.00 MMBTU/H

COMPANY NAME/SITE LOCATION A.E. STALEY MFG. CO. MORRISVILLE, PA BUCKS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 05/27/82
 PERMIT NO. 81PA01 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY EPA REGION III (215)-597-7936
 (AGENCY) (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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COAL BOILER	249.00 MMBTU/H	PM	0.1000 LB/MMBTU BAGHOUSE	99.00
		SO2	0.9000 LB/MMBTU FGD-DRY SCRUBBER	80.00
		NOX	0.7000 LB/MMBTU COMBUSTION MODIFICATION TECH.	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION BASIN ELECTRIC POWER COOP.

BEULAH, ND

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 01/12/83

PERMIT NO.

ESTIMATED DATE OF START-UP-- 1987

DETERMINATION MADE BY NORTH DAKOTA SHD
(AGENCY)

ROBERT KING
(AGENCY CONTACT PERSON)

(701)-224-2348
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

6278.00 MMBTU/H

PM 188.0000 LB/H

NSPS

0.0300 LB/MMBTU

BAGHOUSE

SO2 2637.0000 LB/H

99.86
BACT

0.6000 LB/MMBTU

SPRAY DRYER

SO2 30.0000 % OF POTENT. COMBUST. CONC.

88.00

NOX 2825.0000 LB/H

BACT

0.4500 LB/MMBTU

COMBUSTION CONTROLS, MFG CLAIM

NOTES

THE SO2 EMISSION RATE IS BASED ON CLASS I AREA IMPACTS , THE TECHNOLOGY INVOLVED, & ECONOMICS. FOR THE EMISSION LIMITS THE MOS
T STRINGENT ONE APPLIES DEPENDING ON OPERATING CONDITIONS.

2637 LB/H OF SO2 IS BASED ON 0.42 LB/MMBTU INPUT AT MAXIMUM PRODUCTION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 880.00 MM

COMPANY NAME/SITE LOCATION BIG RIVERS ELECT. CORP.

, KY

DETERMINATION IS PERMIT NO. C-80-41 DATE OF PERMIT ISSUANCE-- 03/11/81
 DETERMINATION MADE BY KENTUCKY DAPC ESTIMATED DATE OF START-UP--
 (AGENCY) (502)-564-3382
 BILL DILLS (PHONE)
 (AGENCY CONTACT PERSON)

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

BOILERS, 2 4585.00 MMBTU/H EA

PM 492.0000 T/YR
 SO2 19686.0000 T/YR
 NOX 9843.0000 T/YR

COAL HANDLING 3281.00 MT/YR

PM

LIMITED OPERATING CONDITIONS

LIMESTONE HANDLING 279000.00 T/YR

PM

LIMITED OPERATING CONDITIONS

NOTES -----
 OPERATING LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 880.00 MM

COMPANY NAME/SITE LOCATION BIG RIVERS ELECT.-D.B. WILSON STATION LIVERMORE, KY 42352 OHIO COUNTY
D.B. WILSON STATION

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/11/81
PERMIT NO. C-80-41 ESTIMATED DATE OF START-UP-- 1985
DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
(AGENCY) BILL DILLS (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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BOILER, COAL FIRED	4585.00 MMBTU/H EA	PM	0.0300 LB/MMBTU ESP	BACT 99.80
		SO2	1.2000 LB/MMBTU	BACT 90.00
		NOX	0.6000 LB/MMBTU	BACT
		BOILER DESIGN & OPERATION		

NOTES -----
2 COAL FIRED 440 MM BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 246.00 MW

COMPANY NAME/SITE LOCATION BOARD OF PUBLIC UTILITIES KANSAS CITY, KS WYANDOTTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/29/76
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY EPA REGION VII CHARLES WHITMORE
 (AGENCY) (AGENCY CONTACT PERSON) (816)-374-6525
 (PHONE)

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

BOILER, COAL FIRED, PULV.	246.00 MW	SO2	1.2000 LB/MMBTU	BACT
		PM	0.1000 LB/MMBTU	NSPS
		NOX	0.7000 LB/MMBTU	NSPS
			ESP	
			BOILER DESIGN	

NOTES -----
 PLANT NAME: NEARMAN CREEK. THE UNIT IS SUBJECT TO NSPS, SUBPART D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---
EXTERNAL COMBUSTION - COAL
122.00 MMBTU/H

COMPANY NAME/SITE LOCATION BURLINGTON IND.
ERWIN, NC

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NC-032
DETERMINATION MADE BY NORTH CAROLINA DEM
(AGENCY)
MIKE SEWELL
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/25/80
ESTIMATED DATE OF START-UP--
(919)-733-7120
(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 FIRED	122.00 MMBTU/H	PM	0.3000 LB/MMBTU DUAL MULTICYCLONE	BACT 93.00 BACT
		SO2		

NOTES -----
SO2 LIMIT 1% S COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 122.00 MMBTU/H

COMPANY NAME/SITE LOCATION BURLINGTON IND. ROCKY MOUNT, NC NASH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/25/80
 PERMIT NO. (REGION FILE NO.) PSD-NC-034 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH CAROLINA DEM (919)-733-7120
 (AGENCY) MIKE SEWELL (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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BOILER, COAL FIRED	122.00 MMBTU/H	PM	0.3000 LB/MMBTU	BACT
			DUAL MULTICYCLONE	93.00
		S02	1.4000 LB/MMBTU	BACT
			LOW S COAL	

NOTES -----

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

6507.00 MMBTU/H

EXTERNAL COMBUSTION - COAL

SOURCE TYPE/SIZE---

COMPANY NAME/SITE LOCATION CAJUN ELECT. POWER COOP.

COUSHATTA, LA

RED RIVER PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-106
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/25/80
ESTIMATED DATE OF START-UP-- 1985
(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
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BOILER, LIGNITE FIRED 6507.00 MMBTU/H

PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS	99.95
SO2	1.0800 LB/MMBTU	LIME/LIMESTONE SCRUBBER		80.00
NOX	0.6000 LB/MMBTU	O2 CONTROL		
CO	0.0900 LB/MMBTU	O2 CONTROL		

COAL PILES

COAL HANDLING

LIME/LIMESTONE HANDLING AND PILING

PM	20.7000 LB/H	COMPACTION, CRUSTING AGENT		
PM	1.6000 LB/H	BAG FILTER		99.90
PM	2.1000 LB/H	BAG FILTER		99.90

NOTES

A REQUEST FOR PERMIT MODIFICATION WAS RECEIVED AND IS CURRENTLY UNDER REVIEW. BACT WILL BE CHANGED. SO2 LIMIT MAY BE EXPRESSED AS 0.6 LB/MMBTU, 30-DAY ROLLING AVG.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---

EXTERNAL COMBUSTION - COAL

161.20 MMBTU/H

COMPANY NAME/SITE LOCATION CARGILL, INC.
P.O. DRAWER 878
HARTSVILLE, SC 29550

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) OTTO PEARSON (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
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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	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 110000.00 LB/H STEAM

COMPANY NAME/SITE LOCATION CELANESE, AMCELLE PLANT CUMBERLAND, MD 21502 ALLEGANY COUNTY
P.O. BOX 444

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/03/79
PERMIT NO. 78MD08-R ESTIMATED DATE OF START-UP-- 1980
DETERMINATION MADE BY EPA REGION III ED VOLLBERG (215)-597-8990
(AGENCY) (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, COAL-FIRED	110.00 MLB/H	PM	9.2400 LB/H 40.5000 T/YR	SIP
		S02	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 S02 EMISSIONS BE INCREASED TO 208.3 LB/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MM

COMPANY NAME/SITE LOCATION CENTRAL ILLINOIS LIGHT CANTON, IL

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/15/80
 PERMIT NO. 81 11 0076 ESTIMATED DATE OF START-UP-- 1987
 DETERMINATION MADE BY ILLINOIS EPA CHRIS ROMAINE
 (AGENCY) (AGENCY CONTACT PERSON) (217)-782-2113
 (PHONE)

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

BOILER, COAL-FIRED, 1, EA 400.00 MM PM 0.0300 LB/MMBTU NSPS
 ESP 99.00
 SO2 0.7800 LB/MMBTU NSPS
 NOX 0.6000 LB/MMBTU FGD SCRUBBER 90.00
 NSPS

NOTES -----
 ONE (1) COAL FIRED BOILER UNDER PERMIT, CONSTRUCTION TO COMMENCE BY FEBUARY 1985.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 6781.00 MMBTU/H
 COMPANY NAME/SITE LOCATION CENTRAL POWER & LIGHT FANNIN, TX GOLIAD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-365 DATE OF PERMIT ISSUANCE-- 10/19/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP-- 1988
 JOHN BUNYAK (214)-767-1594
 (AGENCY CONTACT PERSON) (PHONE)

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

PROCESS	THROUGHPUT CAPACITY	POLLUTANT EMISSION	CONTROL EQUIPMENT	PROCESS MODIFICATION	BASIS	PCT EFF
COAL FIRED BOILER	6781.00 MMBTU/H	PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS	99.60
		SO2	0.3900 LB/MMBTU	FLUE GAS DESULFURIZATION	NSPS	99.60
		NOX	0.5000 LB/MMBTU	FIRE BOX DESIGN & O2 CONTROL	NSPS	99.60
		CO	0.0600 LB/MMBTU	O2 CONTROL OPTIMAL WITH NOX	BACT	
COAL DUMPER,ROTARY	11000.00 T/D COAL	PM	29.7600 LB/H 149.8000 LB/D	WET SUPPRESSION	BACT	50.00
CONVEYOR TO SAMPLE HOUSE		PM	2.4000 LB/H 11.7500 LB/D	COVERS, WET SUPPRESSION	BACT	99.00
CONVEYOR TO ACTIVE PILE		PM	2.2500 LB/H 2.2500 LB/D	TELESCOPIC CHUTE COVERS, WET SUPPRESSION	BACT	99.00

(CONTINUED) CENTRAL POWER & LIGHT				
PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACTIVE COAL PILE		PM	5.7800 LB/H COMPACTION & WET SUPPRESSION	BACT
INACTIVE COAL PILE		PM	2.5000 LB/H COMPACTION	BACT 90.00
COAL CONVEYOR TO TRANSFER HOUSE		PM	2.3200 LB/H 6.7200 LB/D COVERS, WET SUPPRESSION	BACT 99.00
COAL CONVEYOR TO BOILER		PM	4.6300 LB/H 13.4400 LB/D COVERS, WET SUPPRESSION	BACT 99.00
FLYASH HANDLING		PM	0.2800 LB/H 1.7000 LB/D BAG FILTERS PNEUMATIC CONVEYOR TO SILO	BACT 99.00
LIMESTONE CAR DUMP		PM	2.7000 LB/H 24.2900 LB/MK NONE	BACT
LIMESTONE CONVEYOR TO STORAGE		PM	0.3500 LB/H 3.1200 LB/MK COVERED BAG COLLECTOR	BACT 98.00
LIMESTONE CONVEYOR TO BINS		PM	0.4000 LB/H 3.6000 LB/MK COVERED BAG COLLECTOR	BACT 98.00

(CONTINUED) CENTRAL POWER & LIGHT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE STORAGE PILE		PM	0.0480 LB/H NONE	BACT
LIMESTONE RECLAIM		PM	19.9000 LB/H 179.5200 LB/WK NONE	BACT
COAL SAMPLE HOUSE		PM	7.0000 LB/H 34.3000 LB/D WET SUPPRESSION & COVERED CONVEYORS	BACT 99.00
COAL TRANSFER HOUSE		PM	7.0000 LB/H 34.3000 LB/D COVERED CONVEYORS WET SUPPRESS. & COVERED CONVEY.	BACT 99.00
LIMESTONE SILOS		PM	0.3500 LB/H 3.1500 LB/WK BAG FILTER	BACT 99.00
LIMESTONE TRANSFER HOUSE		PM	0.1900 LB/H 1.7100 LB/WK BAG FILTER ENCLOSED CONVEYOR	BACT 99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1200.00 MM

COMPANY NAME/SITE LOCATION CINCINNATI GAS & ELECTRIC CO. - EAST BEN* , KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-82-072
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY)
BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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UNIT #2	6313.00 MMBTU/H	PM	0.1000 LB/MMBTU 2970.0000 T/YR	ESP, WET SCRUBBER	99.60
		SO2	1.2000 LB/MMBTU 35640.0000 T/YR	WET SCRUBBER	81.50
		NO2	0.7000 LB/MMBTU 20790.0000 T/YR		
UNIT #1	6270.00 MMBTU/H	PM	0.1000 LB/MMBTU 1650.0000 T/YR	ESP	99.50
		SO2	0.8400 LB/MMBTU 13860.0000 T/YR	WET SCRUBBER	85.00
		NO2	0.7000 LB/MMBTU 11550.0000 T/YR		

NOTES -----
PERMIT COVERS ONLY UNIT #2. UNIT #1 CONSTRUCTION PERMIT C-78-51 ON 8/25/78

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6-- 20

ID NUMBER KY-0030

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 92.50 MMBTU/H
 COMPANY NAME/SITE LOCATION CITY OF WILKES-BARRE WILKES-BARRE, PA LUZERNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 79PA23 DATE OF PERMIT ISSUANCE-- 07/01/80
 DETERMINATION MADE BY EPA REGION III ESTIMATED DATE OF START-UP-- 1980
 (AGENCY) DAVID ARNOLD (215)-597-7936
 (AGENCY CONTACT PERSON) (PHONE)

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

BOILER 92.50 MMBTU/H PM 8.0000 LB/H BACT 99.70
 S02 199.0000 LB/H BACT
 1.5000 LB/MMBTU
 \$ IN FUEL

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1320.00 MM

COMPANY NAME/SITE LOCATION COLORADO UTE-CRAIG UNIT #3 NEAR CRAIG, CO MOFFAT COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/27/80
 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 EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

RR CAR	1.87 MT/YR	PM	1.0000 T/YR FF	BACT 99.80
ASH SILO VENT	355.00 MT/YR	PM	149.0000 T/YR FF	BACT 99.80
ASH UNLOAD	355.00 MT/YR	PM	34.0000 T/YR HYDROMIXER	BACT 59.00
BOILER, 440 MM	214.00 T/H	CO	NO CONTROL	BACT
		VOC	NO CONTROL	BACT
		NOX	0.5000 LB/HRTU	BACT
		PM	0.0300 LB/HRTU	65.00 BACT
		SO2	0.2000 LB/HRTU	99.80 BACT
			DRY SCRUBBER	90.00

(CONTINUED) COLORADO UTE-CRAIG UNIT #3

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL PILE	1.87 MMT/YR	PM	5.0000 T/YR SURFACTANT	BACT 85.00
CONV.	1.87 MMT/Y	PM	5.0000 T/YR ENCLOSURES	BACT 90.00
LIME TRANS./STORAGE	37.40 MT/YR	PM	0.0000 T/YR FF	BACT 99.80
TRANS PTS.	1.87 MMT/Y	PM	0.0000 T/YR ENC + FF	BACT 99.80

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 137.00 MMBTU/H

COMPANY NAME/SITE LOCATION CURTISS-WRIGHT CORP. WOOD-RIDGE, NJ 07075 BERGEN COUNTY
1 PASSAIC ST.

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/13/80
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION II STEVE RIVA (212)-264-8684
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PFB BOILER	137.00 MMBTU/H	SO2	0.3000 LB/MMBTU	SIP 93.00
			PROCESS MOD.	
			CALCIUM/SULFUR, 2/1	
		PM	NONE	
		NOX	PROCESS CYCLONES	
		CO	NONE	

NOTES -----
TEMPORARY SOURCE - NOT TO OPERATE IN EXCESS OF 3100 H/YR FOR A PERIOD NOT TO EXCEED TWO YEARS FROM START-UP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS T.BLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION DELMARVA POWER & LIGHT

VIENNA, MD 21869

DORCHESTER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 80MD01

DETERMINATION MADE BY: EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/30/81

ESTIMATED DATE OF START-UP-- 1983

(215)-597-2711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

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

BOILER

5702.00 MMBTU/H

S02	0.6000 LB/MMBTU	70.0000 %EMISSION REDUCTION	SCRUBBER	BACT
NOX	0.6000 LB/MMBTU	65.0000 %EMISSION REDUCTION	BURNER DESIGN	90.00 BACT
CO	0.0400 LB/MMBTU	BURNER DESIGN	BURNER DESIGN	BACT
VOC	0.0100 LB/MMBTU	BURNER DESIGN	BURNER DESIGN	BACT
VE	20.0000 % OPACITY STACK			BACT
PM	0.0300 LB/MMBTU	ESP	DUST-SUPPRESSANT LIQUID	BACT 99.65

BOILERS & STORAGE PILES

1.20 MMT/YR

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION DESERET GEN & TRANS, MOON LAKE NEAR BONANZA, UT UTAH COUNTY

DETERMINATION IS PERMIT NO. DATE OF PERMIT ISSUANCE-- 02/04/80
 DETERMINATION MADE BY EPA REGION VIII JOHN DALE ESTIMATED DATE OF START-UP--
 (AGENCY) (AGENCY CONTACT PERSON) (303)-837-3763
 (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 CONV	475.00 T/H COAL	PM	1.0000 T/YR ENC & FF	BACT 99.00
COAL CRUSHER	2.70 MMT/YR	VE	20.0000 % OPACITY	
COAL STORAGE	2.70 MMT/YR	PM	1.0000 T/YR ENC & FF	BACT 99.00
		VE	20.0000 % OPACITY	
		PM	2.0000 T/YR WET SUP	BACT 50.00
		VE	20.0000 % OPACITY	
LIMESTONE HAND.	55.60 MT/YR	PM	1.0000 T/YR ENC & FF	BACT 90.00
		VE	20.0000 % OPACITY	
BOILERS, COAL-FIRED, 2 EA	400.00 MW	CO	NO CONTROL	BACT
		VOC	NO CONTROL	BACT
		NOX	0.5500 LB/MMBTU BOILER DESIGN	BACT 99.60

PM	0.0300 LB/MMBTU	BACT
	0.0200 GR/DSCF	
	FF	
S02	418.0000 LB/H	99.80
	0.0550 LB/MMBTU	BACT
	WET SCRUBBER	
VE	20.0000 % OPACITY	94.00

NOTES -----
 CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR S02, NOX, OPACITY WILL BE DETERMINED BY CEM REPO
 RIS. VE IS STATEPERMIT REQUIREMENT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 27

ID NUMBER UT-0006

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---
EXTERNAL COMBUSTION - COAL
526.00 MM MOD.

COMPANY NAME/SITE LOCATION
EAST KENTUCKY POWER COOP.
P.O. BOX 707

MAYSVILLE, KY 40391

MASON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. C-76-46

DETERMINATION MADE BY
KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/02/76
ESTIMATED DATE OF START-UP--
(502)-564-3382
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, PULV., COAL FIRED, DRY * 6760.00 MMBTU/H

PM 0.1000 LB/MMBTU
HOT SIDE ESP

99.50

PB
HOT SIDE ESP
SO2 1.2000 LB/MMBTU
0.72% S IN FUEL

99.50

CO
NO2

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6-- 28

ID NUMBER KY-0018

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 670.00 MMBTU/H

COMPANY NAME/SITE LOCATION EASTMAN KODAK CO., KODAK PARK DIV. ROCHESTER, NY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/20/82
 PERMIT NO. C262800 025 00004 ESTIMATED DATE OF START-UP-- 1986
 DETERMINATION MADE BY NEW YORK DEC FRANK SHATTUCK (716)-226-2466
 (AGENCY) (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, COAL FIRED	670.00 MMBTU/H	PM	0.0350 LB/MMBTU ESP	BACT 99.57
		SO2	1.2000 LB/MMBTU LOW S COAL	BACT
		NOX	0.7000 LB/MMBTU COMBUSTION CONTROL	BACT
		CO	0.0450 LB/MMBTU COMBUSTION CONTROL	BACT
		BE	0.0010 LB/H ESP	BACT 98.40
COAL CAR UNLOADER		PM	1.1000 LB/H FABRIC FILTER	BACT 99.00
CRUSHING		PM	0.7500 LB/H FABRIC FILTER	BACT 99.00
BUNKER		PM	0.0230 LB/H	BACT

(CONTINUED) EASTMAN KODAK CO., KODAK PARK DIV.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH HANDLING		PM	0.0750 LB/H FABRIC FILTER	BACT 99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW, 2 EA

COMPANY NAME/SITE LOCATION E. KENTUCKY POWER CORP.
J.K. SMITH POWER STATION TRAPP, KY CLARK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/21/80
PERMIT NO. C-80-67 ESTIMATED DATE OF START-UP-- 1984
DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
(AGENCY) (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

BOILER, COAL FIRED	6760.00 MMBTU/H EA	PM	0.0300 LB/MMBTU ESP	BACT
		SO2	1.2000 LB/MMBTU	99.80 BACT
		NOX	WET SCRUBBER	90.00 BACT
			0.6000 LB/MMBTU	BACT
			BOILER DESIGN	
BOILER, COAL FIRED	6760.00 MMBTU/H	PM	0.0300 LB/MMBTU ESP	BACT
		SO2	1.2000 LB/MMBTU	99.80 BACT
		NOX	WET SCRUBBER	90.00 BACT
			0.6000 LB/MMBTU	BACT
			BOILER DESIGN	

NOTES -----
STARTUP UNIT 1 8/84, UNIT 2 8/85

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 245.00 MMBTU/H COAL

COMPANY NAME/SITE LOCATION E.I. DUPONT PHOENIX, NC BRUNSWICK COUNTY

DETERMINATION IS BACT PERMIT NO. NC-067 DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 04/25/80 ESTIMATED DATE OF START-UP-- (919)-733-6126 (PHONE)

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

BOILER 245.00 MMBTU/H COAL PM 0.1000 LB/MMBTU 24.5000 LB/H BAGHOUSE 2.2000 LB/MMBTU 1.4% S COAL NOX 0.7000 LB/MMBTU BOILER OPERATION & DESIGN BACT 99.00 BACT NSPS

NOTES ----- TWO COAL FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 97.00 MMBTU/H EA

COMPANY NAME/SITE LOCATION E.I. DUPONT WINONA, SC 29501 FLORENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/09/80
 PERMIT NO. (REGION FILE NO.) SC-034 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY SOUTH CAROLINA DHEC (803)-758-5406
 (AGENCY) OTTO PEARSON (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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BOILERS, COAL, #1 + #2	97.00 MMBTU/H EA	PM	0.0860 LB/MMBTU BAGOUSE	BACT 99.90
		SO2	1.7000 LB/MMBTU	BACT
		NOX	0.7000 LB/MMBTU 1/2 SULFUR IN COAL	BACT
			BOILER OPERATION & DESIGN	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1220.00 BTU/H

COMPANY NAME/SITE LOCATION FLORIDA POWER CORP. CRYSTAL RIVER, FLA., FL 33733 CITRUS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/15/80
 PERMIT NO. AC52-36102 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY FLORIDA DER ED PALAGYI (904)-488-1344
 (AGENCY) (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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FLY ASH HANDLING UNITS	55000.00 LB/H	PM	4.0000 LB/H BAGHOUSE	BACT 99.90
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NOTES -----
 ADDED ESP TO EXISTING BOILER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 58.00 MM

COMPANY NAME/SITE LOCATION GRAND HAVEN BOARD OF LT & FLR GRAND HAVEN, MI 49417 MUSKEGON COUNTY
HARBOR ISLAND

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/18/80
PERMIT NO. 541-79 ESTIMATED DATE OF START-UP-- 1983
DETERMINATION MADE BY MICHIGAN DNR JOHN CAUDELL (517)-322-1333
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

COAL-FIRED BOILER	710.00 MMBTU/H	PM	0.0300 LB/MMBTU ESP	99.80
		SO2	0.8400 LB/MMBTU 30 D AV 0.8000 LB/MMBTU 24 H AVG.	
		NOX	LINE SLURRY WET SCRUBBER 0.6000 LB/MMBTU 30 D AV	90.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 490.00 MW
 COMPANY NAME/SITE LOCATION GRAND RIVER DAM AUTHORITY
 , OK 74361 MAYES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. PSD-OK-51
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY) JOHN BUNYAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/30/78
 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 FIRED GEN STATION	490.00 MW	S02	1.2000 LB/MMBTU 6157.2000 LB/H		
		PM	0.1000 LB/MMBTU 513.1000 LB/H		

NOTES -----

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

88.40 MMBTU/H

EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION GREENWOOD MILLS, INC.

ORANGEBURG, SC

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. SC035

DATE OF PERMIT ISSUANCE-- 09/03/80
ESTIMATED DATE OF START-UP--

DETERMINATION MADE BY SOUTH CAROLINA DHEC
(AGENCY)

OTTO PEARSON
(AGENCY CONTACT PERSON)

(803)-758-5406
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COAL BOILER

88.40 MMBTU

SO2

1.4100 LB/MMBTU

BACT

NOX

0.5500 LB/MMBTU

BACT

PM

0.0400 LB/MMBTU

BACT

COMBUSTION MODIFICATION
CYCLOPES FOLLOWED BY BAGHOUSES
SEE NOTE

99.98

NOTES

PRELIMINARY STACK TESTS INDICATE TSP EMISSIONS OF .08 LB/MILLION BTU, ON VERYHIGH QUALITY COAL. WE EXPECT THE SOURCE TO REQUES
T THIS LIMIT BE REVISED UPWARD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 37

ID NUMBER SC-0001

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---
EXTERNAL COMBUSTION - COAL
113.00 MMBTU/H

COMPANY NAME/SITE LOCATION
GRIFFISS AIR FORCE BASE
ROME, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 30130004760029A-N
DETERMINATION MADE BY NEW YORK DEC
(AGENCY)
DAVID PROSSER
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/28/83
ESTIMATED DATE OF START-UP-- 1985
(315)-782-0100
(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 BOILERS, 4	113.00 MMBTU/H EA	PM	0.0500 LB/MMBTU FABRIC FILTER	98.00
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		SO2	0.7100 LB/MMBTU DRY SCRUBBER	85.00 BACT
		NOX	0.6200 LB/MMBTU STAGED COMBUSTION	

LIME SILO		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
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COAL SILO		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
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ASH SILO		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
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ASH HANDLING		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
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(CONTINUED) GRIFFISS AIR FORCE BASE

APPROPRIATE SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCI EFF
LIME BLOWER		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
LIME BIN		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
RECOVERY BIN		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
COAL CONVEYOR		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
COAL BUNKER		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
COAL HANDLING		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00

NOTES -----
 SOILER PM & SO2 EMISSION LIMITS SPECIFIED FOR NETTING PURPOSES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

HOLYOKE, MA

MT. TOM PHR PL*

HOLYOKE WATER POWER CO.,

DETERMINATION IS RACT FOR A MODIFIED SOURCE.

PERMIT NO. APPR. LTR 10-27-82

MASSACHUSETTS DEQE - AIR

(AGENCY)

DAVID HOWLAND

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/27/82

ESTIMATED DATE OF START-UP-- 1981

(617)-727-8640

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COAL COMBUSTION

1447.00 MBTU/H

S

1.2100 LB/MMBTU MONTHLY AV

RACT

PM

1.6000 LB/MMBTU DAILY AV

RACT

0.0800 LB/MMBTU

ESP

99.51

NO2

NOTES -----

ONE UNIT - 155 MM. VOLUNTARY COAL CONVERSION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 40

ID NUMBER MA-0005

SOURCE TYPE CODE

1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1993

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MM

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER HOUSTON, TX

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/28/77
 PERMIT NO. PSD-TX-33 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI TOM DIGGS (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
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COAL FIRED STEAM ELECT. GEN	550.00 MM	S02	1.2000 LB/MMBTU 573.0000 LB/H	
		PM	0.1000 LB/MMBTU	LOH S WESTERN COAL

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MM
 COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER THOMPSONS, TX FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. PS0-TX-234
 DETERMINATION MADE BY EPA REGION VI (AGENCY)
 JOHN BUNYAK (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 11/12/81
 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

COAL FIRED BOILER 5729.00 MMBTU/H
 SO2 0.3600 LB/MMBTU LIMESTONE SCRUBBER NSPS
 NOX 0.5000 LB/MMBTU LIMESTONE SCRUBBER 70.00 NSPS
 CO 0.0590 LB/MMBTU 02 CONTROLS, TANGENTIAL BURNERS
 PM 0.0300 LB/MMBTU 02 CONTROLS NSPS
 FABRIC FILTER 99.72
 LIMESTONE UNLOAD PM 0.1000 LB/H WET SUPPRESSION/BOTTOM DUMP BACT
 90.00
 ACTIVE LIMESTONE PILE PM 0.1000 LB/H ENCLOSED BACT
 INACTIVE LIMESTONE PILE PM 0.1000 LB/H ENCLOSED BACT

(CONTINUED) HOUSTON LIGHTING & POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE CONVEYERS & TRANSFER *		PM	0.5000 LB/H ENCLOSED	BACT 90.00
LIMESTONE CRUSHER		PM	0.1000 LB/H BAGHOUSE	BACT 99.50
LIMESTONE FEED SILO		PM	0.1000 LB/H BAGHOUSE	BACT 99.50
FLY ASH MIX TANK		PM	0.7000 LB/H WILL BE A SLURRY	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 727.00 MW

COMPANY NAME/SITE LOCATION IA SOUTHERN UTILITIES (CENTERVILLE, IA.) (NEAR) CHILLICOTHE, IA WAPELLO COUNTY
OTTUMWA STATION

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 12/01/76
DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP-- 1980
(AGENCY) CHARLES WHITMORE (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
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BOILER, STEAM GEN, COAL FIRED		SO2	1.2000 LB/MBTU	BACT
			LOW S COAL	
	PM	0.1000 LB/MBTU	BACT	
			ESP	

NOTES -----
THE PERMIT WAS AMENDED ON 03/30/78 TO ADDRESS PARTICULATE MATTER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 165.00 MMBTU/H
 COMPANY NAME/SITE LOCATION IDAHO NAT ENGINEERING LAB. IDAHO FALLS, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-X81-11
 DETERMINATION MADE BY EPA REGION X
 (AGENCY) DAVID TETTA
 (AGENCY CONTACT PERSON) (206)-442-1193
 (PHONE) DATE OF PERMIT ISSUANCE-- 06/05/81
 ESTIMATED DATE OF START-UP-- 1983

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

BOILERS, 2 82.50 M EA SO2 99.2000 LB/H FLUIDIZED BED BACT
 NOX 0.5000 LB/MMBTU BACT
 PM 0.0500 GR/DSCF COMBUSTION CONTROLS BACT
 BAGHOUSE 99.00
 FUGITIVE EMISSIONS PM 0.0100 GR/ACF BAGHOUSE 99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 980.00 MW

COMPANY NAME/SITE LOCATION INDIANA STATEWIDE RURAL ELEC. COOP., ME* , IN SULLIVAN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/28/77
 PERMIT NO. EPA-5-77-A-7 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V (312)-886-6054
 (AGENCY) (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, COAL FIRED, 2 EA	490.00 MW	PM	0.1000 LB/MMBTU	NSPS
		SO2	1.2000 LB/MMBTU	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2600.00 MM

COMPANY NAME/SITE LOCATION INDIANA & MICHIGAN ELEC. CO., ROCKPORT * ROCKPORT, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. EPA-5-78-A-1
 DETERMINATION MADE BY EPA REGION V
 (AGENCY) BONIFACE THAYIL
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 10/27/77
 ESTIMATED DATE OF START-UP-- (312)-886-6054
 (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 1300.00 MM PM 0.1000 LB/MMBTU NSPS
 SO2 1.2000 LB/MMBTU NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1950.00 MW

COMPANY NAME/SITE LOCATION INDIANAPOLIS POWER & LIGHT CO., PATRIOT* , IN SWITZERLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/14/79
 PERMIT NO. EPA-5-A-80-8 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V (312)-886-6054
 (AGENCY) (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
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BOILER, COAL FIRED, 3 EA	650.00 MW	PM	0.0300 LB/MMBTU	91.00
		SO2	0.5500 LB/MMBTU	
		NOX	0.6000 LB/MMBTU	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 3000.00 MW

COMPANY NAME/SITE LOCATION INTERMOUNTAIN PWR PROJECT-IPP NEAR LYNHOLY, UT MILLARD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/08/80
 DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
 (AGENCY) (303)-837-3763
 (AGENCY CONTACT PERSON) (PHONE)

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

ASH UNLOAD

PM	64.0000 LB/H	BACT	99.00
VE	20.0000 % OPACITY	HYDROMIXER	

4 BOILERS

CO	1248.0000 LB/H	BACT	
VOC	375.0000 LB/H	BACT	
NOX	0.5500 LB/MMBTU	BACT	
PM	0.0200 LB/MMBTU	DESIGN	65.00
SO2	0.1500 LB/MMBTU	ESP	99.80
VE	20.0000 % OPACITY	SCRUBBER	BACT
			90.00

COAL CONV

PM	17.0000 LB/H	BACT	
VE	20.0000 % OPACITY	ENCLOSURE	90.00

COAL CRUSHING

PM	1.0000 LB/H	BACT	
VE	20.0000 % OPACITY	BAGHOUSE	99.80

(CONTINUED) INTERMOUNTAIN PWR PROJECT-IPP

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL STORAGE	10.00 MMT/YR	PM	27.0000 LB/H CRUSHING MGMT	BACT 90.00
		VE	20.0000 % OPACITY	
COAL UNLOAD	10.00 MMT/YR	PM	2.0000 LB/H WET SUPPRES.	BACT 98.50
		VE	20.0000 % OPACITY	
HAUL ROADS		PM	1.0000 LB/H CHEM. SUPPRES.	BACT 85.00
LIME STORAGE		PM	0.1000 LB/H BAGHOUSE	BACT 99.80
		VE	20.0000 % OPACITY	
CONV/TRANSFER	10.00 MMT/YR	PM	4.0000 LB/H BAGHOUSE	BACT 98.80
		VE	20.0000 % OPACITY	

NOTES

THIS PROJECT IS UNDER CURRENT RE-REVIEW SINCE THE PROJECT HAS BEEN DOWN SIZED TO 2 UNITS VERSES THE ORIG.4. STRONGLY RECOMMEND THIS BE DELETED ANDWE WILL UPDATE THE ABOVE INFO AS SOON AS RE-EVALUATION IS COMPLETED (FROB. MAY 1983. CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION IOWA ELECTRIC LIGHT & POWER CO. PANORA, IA GUTHRIE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 10/29/82
 DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP--
 (AGENCY) STEVE KOVAC (816)-374-6525
 (AGENCY CONTACT PERSON) (PHONE)

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

STEAM GENERATING COAL-FIRED BOI* 400.00 T/H COAL SO2 0.6000 LB/MHSTU DAILY MAX
 WET Limestone SCRUBBER BACT
 LOH S COAL NOX 0.5000 LB/MHSTU 30 D R AVG BACT
 COMBUSTION DESIGN PM 0.0300 LB/MHSTU
 ELECT. PRECIP. VE 20.0000 % OPACITY BACT
 MATERIAL HANDLING PM 0.0100 GR/DSCF BACT
 BAGHOUSES VE 20.0000 % OPACITY BACT

NOTES -----
 SOURCE IS SUBJECT TO NSPS, SUBPART DA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW

COMPANY NAME/SITE LOCATION IOWA-ILLINOIS GAS & ELECT. LOUISA COUNTY
LOUISA STATION , IA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/16/81
PERMIT NO. ESTIMATED DATE OF START-UP-- 1983
DETERMINATION MADE BY EPA REGION VII CHARLES WHITMORE (816)-374-6525
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

BOILER	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
	7000.00 MBTU/H	NOX	0.6000 LB/MBTU	BOILER DESIGN	BACT
		PM	0.0300 LB/MBTU	ESP	BACT
		S02	0.8600 LB/MBTU 24H AV		BACT
			1.0500 LB/MBTU 3H AV		
			LOW S COAL		

NOTES -----
PERMIT ORIGINALLY ISSUED 07/07/79.

53600.0 LB/DAY TOTAL ALLOWED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW

COMPANY NAME/SITE LOCATION JACKSONVILLE ELECT. AUTHORITY NORTHSIDE JACKSONVILLE, FL 32208 DUVAL COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. PERMIT NO. (REGION FILE NO.) PSD-FL-010 DATE OF PERMIT ISSUANCE-- 01/01/82
 DETERMINATION MADE BY FLORIDA DER ESTIMATED DATE OF START-UP-- 1984
 (AGENCY) ED PALAGYI (904)-488-1344
 (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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STEAM GEN. UNIT	600.00 MW EA	SO2	0.7600 LB/MHBTU	BACT
		PM	0.0300 LB/MHBTU	90.00 NSPS
		NOX	0.6000 LB/MHBTU	99.78 NSPS
			BOILER DESIGN	

NOTES -----
 TWO UNITS AT 600.0 MW EACH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 630.00 MW

COMPANY NAME/SITE LOCATION KANSAS CITY POWER & LIGHT IATAN, MO PLATTE COUNTY
IATAN STATION

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/07/77
PERMIT NO. ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ (816)-374-6525
(AGENCY) (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, COAL FIRED, PULV.	630.00 MW	PM	0.1000 LB/MMBTU	BACT
			ESP	99.40
		SO2	1.2000 LB/MMBTU	BACT
		NOX	0.7000 LB/MMBTU	NSPS
LOW S WESTERN COAL				
BOILER DESIGN				

NOTES -----
THE UNIT IS SUBJECT TO NSPS, SBPART D. THE PSD REGS. ADDRESSED ONLY PM AND SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2880.00 MW (TOTAL, 4 UNIT C*)

COMPANY NAME/SITE LOCATION KANSAS POWER & LIGHT CO. ST. MARY'S, KS POTTAWATOMIE COUNTY
JEFFREY ENERGY CENTER

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/30/78
PERMIT NO. ESTIMATED DATE OF START-UP-- 1984
DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ (816)-374-6525
(AGENCY) (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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COAL FIRED BOILERS, UNITS 3 AND*	720.00 MW EA	SO2	1.2000 LB/MMBTU WET LIMESTONE SPRAY TOWERS	BACT 60.00
		PM	0.1000 LB/MMBTU 2 COLD SIDE ESP'S PER UNIT	BACT 99.20
		NOX	0.7000 LB/MMBTU BOILER DESIGN	NSPS

NOTES -----
THE UNITS ARE SUBJECT TO NSPS, SUBPART D. BACT EMISSION LIMITS FOR NOX AND CO WERE NOT SET BECAUSE THE REGS. ADDRESSED ONLY PM AND SO2. PLANT NAME: JEFFREY ENERGY CENTER.
UNITS 1 AND 2 WERE NOT SUBJECT TO PSD REVIEW. UNIT 3 STARTUP 1982. UNIT 4 STARTUP 1984.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

1300.00 MW

EXTERNAL COMBUSTION - COAL

SOURCE TYPE/SIZE---

COMPANY NAME/SITE LOCATION KENTUCKY POWER - CARR'S FAC.
LEWIS COUNTY POWER PLANT

ASHAD, KY

LEWIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. C-80-42

DETERMINATION MADE BY KENTUCKY DAPC

(AGENCY)

BILL DILLS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/18/80

ESTIMATED DATE OF START-UP-- 1989

(502)-564-3382

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

POWER BOILER

11943.00 MMBTU/H EA

SO2

0.6000 LB/MMBTU

FGD

PM

0.0300 LB/MMBTU

ESP

NOX

0.6000 LB/MMBTU

BOILER DESIGN & OPERATION

BACT

95.00

BACT

99.81

BACT

NOTES -----
TWO UNIT COAL BURNING POWER PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 56

ID NUMBER KY-0004

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1300.00 MW
 COMPANY NAME/SITE LOCATION KENTUCKY UTILITIES - HANCOCK POWER PLANT LEXINGTON, KY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. C-82-123
 DETERMINATION MADE BY KENTUCKY DAPC (AGENCY)
 BILL DILLS (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/15/82
 ESTIMATED DATE OF START-UP-- (502)-564-3382 (PHONE)

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

UNIT #1	6650.00 MMBTU/H	PM	0.0300 LB/MMBTU 874.0000 T/YR	ESP	99.80
		CO	1397.0000 T/YR		
		SO2	1.2000 LB/MMBTU 15768.0000 T/YR	WET SCRUBBER	91.80
		NO2	0.6000 LB/MMBTU 17476.0000 T/YR		
UNIT #2	6650.00 MMBTU/H	PM	0.0300 LB/MMBTU 874.0000 T/YR	ESP	99.80
		CO	1397.0000 T/YR		
		SO2	1.2000 LB/MMBTU 15768.0000 T/YR	WET SCRUBBER	91.80
		NO2	0.6000 LB/MMBTU 17476.0000 T/YR		

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 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 SEWELL (919)-733-6126
 (AGENCY) (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	233.90 MMBTU/H	PM	0.1100 LB/MMBTU 114.8000 T/YR ESP	BACT
		SO2	2.2700 LB/MMBTU 1.43% SULFUR COAL	98.60 BACT
		NOX	0.0700 LB/MMBTU BOILER DESIGN	NSPS
		CO	1.0000 LB/T COAL BOILER DESIGN	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION LOUISVILLE GAS & ELECT. - TRIMBLE CNTY * WISES LANDING, KY TRIMBLE COUNTY

DETERMINATION IS PERMIT NO. C-78-34 DATE OF PERMIT ISSUANCE-- 12/27/78
 DETERMINATION MADE BY KENTUCKY DAPC ESTIMATED DATE OF START-UP--
 (AGENCY) (502)-564-3392
 BILL DILLS (PHONE)
 (AGENCY CONTACT PERSON)

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

INDIRECT HEAT EXCHANGER	THROUGHPUT CAPACITY	POLLUTANT EMISSION LIMITS	... & BASIS
PM	4851.00 MMBTU/H	0.1000 LB/MMBTU 1275.0000 T/YR	99.60
SO2		1.2000 LB/MMBTU 10790.0000 T/YR	90.00
NOX		0.7000 LB/MMBTU 8924.0000 T/YR	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION LOUISVILLE GAS & ELECT. - WISE'S LANDIN* , KY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/01/79
 PERMIT NO. C-79-53 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
 (AGENCY) (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
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INDIRECT HEAT EXCHANGER	4851.00 MMBTU/H	PM	0.1000 LB/MMBTU 1275.0000 T/YR	99.60
		SO2	ESP 1.2000 LB/MMBTU 10790.0000 T/YR	
		NOX	WET SCRUBBER 0.7000 LB/MMBTU 8924.0000 T/YR	90.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 18000.00 LB/H STEAM PROD.

COMPANY NAME/SITE LOCATION L.D.S. CHURCH WELFARE SQUARE , UT

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/01/82
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY UTAH BAQ CARL BROADHEAD (801)-533-6108
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

COAL FIRED BOILER 18000.00 LB/H STEAM
 PM 0.0400 GR/DSCF
 VE BAGHOUSE
 SO2 20.0000 % OPACITY
 NOX

NOTES -----
 BAGHOUSE INSTALLED TO CORRECT OPACITY PROBLEMS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 517.60 MMBTU/H

COMPANY NAME/SITE LOCATION MARQUETTE BOARD OF LT & PHR MARQUETTE, MI 49855 MARQUETTE COUNTY
SHIRAS GENERATING STA.

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/01/80
PERMIT NO. 65-80 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY MICHIGAN DNR (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
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BOILER, COAL-FIRED	517.60 MMBTU/H	PM	0.0300 LB/MMBTU BAGHOUSE	99.90
		SO2	0.4000 LB/MMBTU SPRAY LIME FGD UNIT	70.00
		NOX	0.5000 LB/MMBTU LOW SULFUR WESTERN COAL	
			LONG. FIRING + EXCESS AIR COM.	
COAL & ASH HANDLING & STORAGE		PM	0.0300 GR/DSCF BAG FILTER CONTROL ENCLOSURES, DUST SUPPRESSANTS	99.90

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 94.60 MMBTU/H

COMPANY NAME/SITE LOCATION MIAMI PAPER CORP. WEST CARROLLTON, OH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/25/82
 PERMIT NO. 0857190134 B002, B0* ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY RAPCA - DAYTON, OH AMY WRIGHT (513)-225-4435
 (AGENCY) (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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STOKER BOILER, 2	47.30 MMBTU/H EA	PM	0.1500 LB/MMBTU	97.10
			WET SCRUBBER	
		S02	1.6000 LB/MMBTU	23.60
			WET SCRUBBER	

NOTES -----
 BOTH COAL BOILERS ARE CONTROLLED BY A SINGLE SLY MANUFACTURING WET SCRUBBER. S02 EMISSIONS REDUCTIONS WERE QUANTIFIED FOR A PO
 SSIBLE PERCENT SULFUR COAL CREDIT, THEREBY ALLOWING THIS COMPANY TO BURN SLIGHTLY HIGHER SULFUR CONTENT COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500000.00 LB/H

COMPANY NAME/SITE LOCATION MICHIGAN SOUTH CENTRAL POWER AGENCY LITCHFIELD, MI 49242 HILLSDALE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/16/80
 PERMIT NO. 607-78 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY MICHIGAN DNR JOHN CAUDELL
 (AGENCY) (AGENCY CONTACT PERSON) (517)-322-1333
 (PHONE)

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

COAL-FIRED BOILER 500000.00 LB/H
 PM 0.0300 LB/MMBTU ESP 99.70
 SO2 LIMESTONE SPRAY SCRUB NSPS
 NOX 0.6000 LB/MMBTU 90.00
 CONTRL EXCESS & OVERFIRE AIR

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION MINNESOTA POWER & LIGHT CO., CLAY-BOSHE* COHASSET, MN

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. EPA-5-77-A-6
 DETERMINATION MADE BY EPA REGION V
 (AGENCY) BONIFACE THAYIL
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 06/16/77
 ESTIMATED DATE OF START-UP--
 (312)-886-6054
 (PHONE)

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

BOILER, COAL FIRED 500.00 MW PM 0.1000 LB/MMBTU NSPS
 SO2 1.2000 LB/MMBTU NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 150.00 MMBTU/H

COMPANY NAME/SITE LOCATION MONSANTO CO. MUSCATINE, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 11/12/82
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ (816)-374-6525
 (AGENCY) (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 B-8 SPREADER-STOKER	150.00 MMBTU/H	SO2	1.9500 LB/MMBTU 3HR R. AVG	BACT
		PM	0.0300 LB/MMBTU PERCENT SULFUR CONTENT	BACT
		NOX	0.6000 LB/MMBTU 30 D R AVG BAGHOUSE	BACT
		VE	20.0000 % NO AIR PREHEAT 6 MIN AVG.	BACT
ASH HANDLING		PM	0.0100 GR/DSCF BAGHOUSE	BACT
		VE	20.0000 % OPACITY	BACT
COAL HANDLING		PM	0.0100 GR/DSCF BAGHOUSE	BACT
		VE	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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE-- EXTERNAL COMBUSTION - COAL 98.30 MMBTU/H

COMPANY NAME/SITE LOCATION MORGANTOWN ENERGY RESEARCH CENTER MORGANTOWN, WV MONONGALIA COUNTY
MORGANTOWN ENERGY RESEARCH CE*

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78WV08 DATE OF PERMIT ISSUANCE-- 09/20/79
DETERMINATION MADE BY EPA REGION III ESTIMATED DATE OF START-UP--
(AGENCY) EILEEN GLEN (215)-597-8187
(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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FLUIDIZED BED BOILER	98.30 MMBTU/H	PM	5.4000 LB/H CENTRIF. COLL. & FABRIC FILTER	BACT 99.00
		SO2	86.0000 LB/H	BACT
		NOX	34.0000 LB/H	BACT
COAL/LIMESTONE DRYER	52.00 CF/H		FABRIC FILTER	99.00
COAL/LIMESTONE DRYER	13230.00 T COAL			
COAL/LIMESTONE DRYER	6600.00 T LIMESTONE			
COAL/LIMESTONE UNLOAD	20000.00 T COAL LIME*		FABRIC FILTER	99.90
COAL/LIMESTONE CONVEYORS	20000.00 T COAL LIME*		FABRIC FILTER	99.90

NOTES -----
PROJECT CANCELLED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 166.00 MM (GROSS)

COMPANY NAME/SITE LOCATION MUSCATINE POWER & WATER MUSCATINE, IA MUSCATINE COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/24/80
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VII (816)-374-6525
 (AGENCY) DANIEL RODRIGUEZ (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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BOILER, UNIT #9, COAL/OIL/GAS	166.00 MM	PM	0.0300 LB/MMSTU COLDSIDE ESP	LAER 99.70
		S02	0.4500 LB/MMBTU 30D R AV	LAER
			0.5600 LB/MMBTU MAX D AV	
		NOX	WET-LIMESTONE SCRUBBER	92.00 BACT
COAL HANDLING			BOILER DESIGN	
		PM	0.0100 GR/SCF BAGHOUSE	LAER 99.99
ASH HANDLING		PM	0.0200 GR/SCF BAGHOUSE	LAER 99.98

NOTES -----
 LAER'S ESTABLISHED BY THE IOWA DEPT. OF ENVIRONMENTAL QUALITY, CONTACT - AFTER 7/1/83, THE IOWA DEPT. OF WATER, AIR, & WASTE M ANAGEMENT, 515-281-8924. UNIT 9 WILL BURN SOUTHERN ILL. COAL. S02 & PM OFFSETS WILL BE OBTAINED.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION NE PUBLIC POWER DIST./GENTLEMAN #2 SUTHERLAND, NE
GERALD GENTLEMAN STATION (UNIT*) LINCOLN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/09/77
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VII CHARLES WHITHORE (816)-374-6525
(AGENCY) (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, STEAM GEN, COAL FIRED	650.00 MW	SO2	1.2000 LB/MMBTU LOW S COAL	BACT
		PM	0.1000 LB/MMBTU ESP	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MM

COMPANY NAME/SITE LOCATION NEBRASKA PUBLIC POWER DIST. , NE
COMSTOCK STATION

DETERMINATION IS BACT PERMIT NO. DATE OF PERMIT ISSUANCE-- 12/16/80
DETERMINATION MADE BY NEBRASKA DEC ESTIMATED DATE OF START-UP--
(AGENCY) (AGENCY) GENE ROBINSON (402)-471-2186
(AGENCY CONTACT PERSON) (PHONE)

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

PROCESS	THROUGHPUT CAPACITY	POLLUTANT EMISSIONS	CONTROL EQUIPMENT	PROCESS MODIFICATION	PCT EFF
BOILER	650.00 MM	PM	0.0300 LB/HMTU FABRIC FILTER		99.90
		SO2	70.0000 % REMOVAL 0.3800 LB/HMTU-30 D AVG		70.00
		NO2	0.5000 LB/HMTU 30 D AV		
		CO	50.0000 PPM		
COAL HANDLING		PM	20.0000 % OPACITY FABRIC FILTER		99.90

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 560.00 MW EA

COMPANY NAME/SITE LOCATION NEVADA POWER CO. , NV
25 MILES NE OF LAS VEGAS

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/13/81
PERMIT NO. NV-77-01 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION IX LARRY BOWERMAN (415)-974-8213
(AGENCY) (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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BOILERS, 4 EA	560.00 MW	CO	320.0000 LB/H 50.0000 PPM AT 20% EXCESS AIR PROPER BOILER DESIGN EXCESS AIR MONITORING	BACT
		NOX	2498.0000 LB/H 0.4400 LB/MMBTU	BACT
		S02	566.0000 LB/H 0.1000 LB/MMBTU	BACT
		PM	ONE (1) WET LIME SCRUBBER TWO (2) STANDBY MODULES TO IMPROVE SYSTEM RELI*	95.00
			0.0150 LB/MMBTU	BACT
		VOC	10.0000 % OPACITY BAGHOUSE, UNLESS ESP DESIGN APPROVED	99.76
		PB BE HG	PROPER BOILER DESIGN COMBUSTION MONITORS	BACT
			NONE	
			SAME AS LEAD NONE PM AND S02 CONTROLS EQUIPMENT	

FLU*	9.0000	MONITOR HG CONTENT IN COAL
	LB/H	
		SAME AS MERCURY
H2S*	13.0000	
	LB/H	
		SAME AS MERCURY W/O COAL MONITORING

(CONTINUED) NEVADA POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILERS, 4	31250.00 T/D	PM	11.4000 T/YR VENTURIES TO WET SCRUBBER OR BAGHOUSE ENCLOSURE AND WETTING TRANSFER POINTS	99.00
ACTIVE COAL STORAGE SILOS		PM	TRACE BAGHOUSE ON SILO VENTS	95.00
COAL DEMATERING PLANT		CO	26.0000 LB/H 50.0000 PPM SAME AS FOR BOILERS	
		NOX	204.0000 LB/H 0.4400 LB/HMBTU SAME AS FOR BOILERS	
		SO2	46.0000 LB/H 0.1100 LB/HMBTU SAME AS FOR BOILERS	
		BE	NONE SAME AS FOR BOILERS	
		HG	NONE SAME AS FOR BOILERS	
		FLU*	1.0000 LB/H 2.0000 LB/H SAME AS FOR BOILERS	
		H2S*	1.0000 LB/H 2.0000 LB/H SAME AS FOR BOILERS	
INACTIVE COAL STORAGE PILE			COMPACTION & CHEMICAL STABILIZATION W/BINDING *	90.00
LINE CONVEYING, TRANSFER, STORA*			BAGHOUSES ON LIME SILO AND SLAKER VENTS. PNEUMATIC UNLOADING, ENCLOSED CONVEYORS	

(CONTINUED) NEVADA POWER CO.

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

SILO VENTED TO BAGHOUSE.
FLY ASH PNEUMATICALLY CONVEYED TO SILO.

PLANT ACCESS & HAUL ROADS

FUG*

MOST ROADS PAVED AND 20 MPH SPEED LIMIT

FUEL OIL STORAGE

3.10 MMGAL

VOC

FIXED OR FLOATING ROOF

NOTES -----

(250) LB/HR LIMITS APPLY TO ANY CONSECUTIVE 24-HOUR PERIOD, ALL OTHER ARE FORCONSECUTIVE 30-DAY PERIOD AS DETERMINED BY CONTINUOUS MONITORING SYS. OPACIT Y LIMIT (6 MINUTE AVERAGE) CANNOT BE EXCEEDED EXCEPT FOR ONE 6-MINUTE PERIOD PER HOUR OF NOT MORE THAN 15% OPACITY AS DETERMINED BY METHOD 9 OR THE OPACITY MONITORING SYS. BACT FOR PH REPRESENTS BACT FOR LEAD. TRACE EQUALS LESS THAN 0.1 T/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1080.00 MM

COMPANY NAME/SITE LOCATION NEW ENGLAND POWER CO., BRAYTON POINT ST* SOMERSET, MA

DETERMINATION IS RACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 11/01/80
 PERMIT NO. APPR. LTR 10-01-80 ESTIMATED DATE OF START-UP-- 1980
 DETERMINATION MADE BY MASSACHUSETTS DEPE - AIR VAUGHAN STEEVES (617)-727-1440
 (AGENCY) (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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COAL COMBUSTION	10625.00 MMBTU/H	S	1.2100 LB/MMBTU MONTHLY AV	RACT
		PM	2.3100 LB/MMBTU DAILY AV	RACT
		NO2	0.0800 LB/MMBTU ESP	99.30

NOTES -----
 PM TESTED AT 0.034 LB/MMBTU, 0.016 LB/MMBTU, & 0.010 LB/MMBTU FOR UNITS 1 - 3, RESPECTIVELY. THREE UNITS COMBINED - 250 MM, 250 MM, & 580 MM. VOLUNTARY COAL CONVERSION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 82.60 MMBTU/H

COMPANY NAME/SITE LOCATION NORFOLK & WESTERN RAILWAY CO. ROANOKE, VA ROANOKE CITY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/14/80
 PERMIT NO. 79VA14 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY EPA REGION III BOB BLASZCZAK (215)-597-8186
 (AGENCY) (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, COAL-FIRED	82.60 MMBTU/H	PM	0.2280 LB/MMBTU 56.5000 LB/H	BACT
		SO2	ESP	95.40
			2.1100 LB/MMBTU	BACT
			523.1000 LB/H	SULFUR IN FUEL LIMITS

NOTES -----
 TOTAL BOILERHOUSE (4 BOILERS) LIMITED TO 210,000 LB/HR STEAM OUTPUT. SULFUR-IN-FUEL = 1.5% MAX PER SAMPLE, 1.25% MAX MONTHLY AVERAGE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 7934.00 MBTU/H

COMPANY NAME/SITE LOCATION NORTHERN INDIANA PUBLIC SERVICE CO. WHEATFIELD, IN

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/31/80
 PERMIT NO. EPA-5-A-80-18 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V BONIFACE THAYIL (312)-886-6054
 (AGENCY) (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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BOILERS, COAL-FIRED, 2 EA	3967.00 MBTU/H	PM	0.0300 LB/MBTU ESP	99.73
		SO2	0.6200 LB/MBTU SCRUBBER	90.00
		NOX	0.6000 LB/MBTU	

FUGITIVE EMISSIONS, CRUSHER HOU*		PM	BAGHOUSE	99.00
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FUGITIVE EMISSIONS, CONVEYORS		PM	ENCLOSED COAL CONVEYORS	
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FUGITIVE EMISSIONS, FLYASH & HA*		PM	BAGHOUSE WETTED COAL	
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NOTES -----
 TWO BOILERS UNDER PERMIT. TRUCKS UTILIZED FOR ASH DISPOSAL SHALL BE COVERED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MW

COMPANY NAME/SITE LOCATION NORTHERN STATE POWER CO., SHERBURNE STA BECKER, MN SHERBURNE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/25/77
 PERMIT NO. EPA-5-77-A-2 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V (312)-836-6054
 (AGENCY) (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
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BOILER, COAL FIRED, 2 EA	800.00 M.	PM	0.1000 LB/MMBTU	NSPS
		SO2	1.2000 LB/MMBTU	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 635.00 MW

COMPANY NAME/SITE LOCATION NY STATE ELECT. & GAS - CYUGA STATION SOMERSET, NY NIAGARA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/29/81
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1986
 DETERMINATION MADE BY EPA REGION II (212)-264-9579
 (AGENCY) (PHONE)
 BARRY TORNICK
 (AGENCY CONTACT PERSON)

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

MAIN BOILER 1750.00 MMBTU/H

PM	0.0300	LB/MMBTU	BACT
		ESP	
SO2	0.7000	LB/MMBTU	BACT
	0.6000	LB/MMBTU	
		FGD & S<3.6% BY WT.	90.00
NOX			BACT
	0.6000	LB/MMBTU	
		GOOD DESIGN & COMBST PRACT.	
CO			BACT
		GOOD COMBST PRACT.	
FLU*		FGD SYSTEM	BACT
PB		ESP/FGD	BACT
HG		ESP/FGD	BACT
BE		ESP/FGD	BACT
		USE OF #2 FUEL OIL	BACT
		USE OF #2 FUEL OIL	BACT

AUXILIARY BOILERS, 2 195.00 MMBTU/H

(CONTINUED) NY STATE ELECT. & GAS - CYUGA STATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL HANDLING	200000.00 T/YR	PM	FABRIC FILTER H2O SPRAY & ENCLOSED SYS.	BACT
LIMESTONE HANDLING		PM	FABRIC FILTER H2O SPRAY & ENCLOSED SYS.	BACT
FLYASH HANDLING		PM	FABRIC FILTER	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION OKLAHOMA GAS & ELECT. CO. BEDROCK, OK NOBLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-OK-218 DATE OF PERMIT ISSUANCE-- 10/05/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP-- 1986
 (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
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GEN. UNITS, COAL-FIRED, 2 EA	5250.00 MMBTU/H	SO2	0.4600 LB/MMBTU	NSPS
		NOX	0.5000 LB/MMBTU	70.00 NSPS
		CO	0.0640 LB/MMBTU	BACT
		PM	0.0300 LB/MMBTU	NSPS
			ESP OR BAGHOUSE	99.60
TUNNELS, COAL RECLAM., 2 EA		PM	2.8000 LB/H	BACT
			DUST COLLECTOR	98.00
COAL CRUSHER TOWER		PM	3.4000 LB/H	BACT
			DUST COLLECTOR	98.00
BIN TOWERS, COAL SURGE, 2 EA		PM	3.9000 LB/H	BACT
			DUST COLLECTOR	98.00

(CONTINUED) OKLAHOMA GAS & ELECT. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL SILOS, 2 EA		PM	3.7000 LB/H DUST COLLECTOR	BACT 98.00
COAL STORAGE PILES	60.00 LB/ACRE-H	PM	5.8000 LB/ACRE CHEMICAL & WATER STABILIZERS	BACT

NOTES -----
OKLAHOMA GAS & ELECTRIC COMPANY, UNIT #3.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION OKLAHOMA GAS & ELECT. CO.

MUSKOGEE, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-OK-57

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/30/78
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 FIRED BOILER 550.00 MW

S02 1.2000 LB/MMBTU
6180.0000 LB/H
PM 0.1000 LB/MMBTU
212.0000 LB/H
LOW S WESTERN COAL

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 625.00 MW ONE

COMPANY NAME/SITE LOCATION PENNSYLVANIA ELECT. CO. LAKE CITY, PA ERIE COUNTY
CCHO-1

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/18/81
PERMIT NO. 78PA13 ESTIMATED DATE OF START-UP-- 1989
DETERMINATION MADE BY EPA REGION III (215)-597-7936
(AGENCY) (PHONE)
DAVID ARNOLD
(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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UTILITY BOILER, COAL FIRED	6280.00 MMBTU/H	PM	0.0300 LB/MMBTU ESP	NSPS 99.70
		SO2	0.6260 LB/MMBTU	BACT 99.00
		NOX	0.6000 LB/MMBTU	NSPS
		CO	0.0400 LB/MMBTU	NSPS
		PM		BACT
COAL AND ASH HANDLING			WET SUPPRESSION AND DUST COLLECTORS	

NOTES -----
UP TO 40% SULFUR TO BE REMOVED BY COAL CLEANING PRIOR TO REACHING BOILER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2471.00 MMBTU/H
 COMPANY NAME/SITE LOCATION PLAINS ELECT. GEN & TRANS PREWITT, NM MCKINLEY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/27/81
 PERMIT NO. (REGION FILE NO.) PSD-NM-82 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY JOHN BUNYAK (214)-767-1594
 (AGENCY) (AGENCY) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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STEAM GENERATOR, COAL-FIRED	2471.00 MMBTU/H	PM	0.0300 LB/MMBTU BAGHOUSE	NSPS 99.90 BACT
		SO2	0.2000 LB/MMBTU FLUE GAS DESULFURIZATION	90.00 BACT
		CO	0.0630 LB/MMBTU FIRE BOX DESIGN & COM. CONTROL	BACT
		NOX	0.4500 LB/MMBTU FIRE BOX DESIGN & COM. CONTROL	BACT
		FLU*	0.0010 LB/MMBTU	BACT

COAL HANDLING

STOCKPILING AND STORAGE

LIMESTONE HANDLING

FUGITIVES

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 250.00 MM

COMPANY NAME/SITE LOCATION PLATTE RIVER PWR-RAHWIDE NEAR FORT COLLINS, CO LARIMER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/22/80
 PERMIT NO. 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 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER	250.00 MM	NOX	0.5000 LB/MMBTU DESIGN	BACT	65.00
		PM	0.0300 LB/MMBTU	BACT	99.70
		SO2	0.1300 LB/MMBTU	BACT	80.00
			DRY SCRUBBER		
COAL CONV	870.00 MT/YR	PM	0.5300 LB/H BAGHOUSE	BACT	99.70
COAL CRUSHING	870.00 MT/YR	PM	0.4000 LB/H BAGHOUSE	BACT	99.70
COAL STORAGE	870.00 MT/YR	PM	40.4000 LB/H CRUSHING AGENT	BACT	80.00
COAL UNLOAD	870.00 MT/YR	PM	1.0500 LB/H BAGHOUSE	BACT	99.70

(CONTINUED) PLATTE RIVER PWR-RAWHIDE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIME STORAGE	5.60 MT/YR	PM	0.0400 LB/H BAGHOUSE	BACT 99.60
SILLO(ASH)	57.70 MT/YR	PM	0.0100 LB/H BAGHOUSE	BACT 99.70

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 121.40 MMBTU/H

COMPANY NAME/SITE LOCATION SAGINAW STEERING GEAR ATHENS, AL LIMESTONE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/15/80
 PERMIT NO. AL 064 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY ALABAMA APCD SUE ROBERTSON (205)-834-6570
 (AGENCY) (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, COAL FIRED	121.40 LB/MMBTU	PM	1.6000 LB/H	BACT
			BAGHOUSE	99.70
		S02	1.5000 LB/MMBTU	BACT
			LOW S COAL	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MM

COMPANY NAME/SITE LOCATION SALT RIVER PROJECT CORONADO STATION UNIT* ST. JOHNS, AZ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) AZP76-1
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)
 JIM HANSON
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/10/78
 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
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STEAM GEN. UNIT	350.00 MM	PM	0.0820 LB/MMBTU ESP	
		SO2	0.8000 LB/MMBTU WET LIMESTONE SCRUBBER	64.00 NSPS
		NOX	0.7000 LB/MMBTU	

NOTES -----
 COAL CONVEYING SYS WILL BE ENCLOSED AND DUST SUPPLEMENT ADDED AT TRANSFER POINTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 890.00 MM

COMPANY NAME/SITE LOCATION SANDOW STEAM ELECT. STATION ROCKDALE, TX MILAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/20/77
 PERMIT NO. PSD-TX-28 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) TOM DIGGS (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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BOILER, LIGNITE FIRED	890.00 MM	S02	1.2000 LB/MMBTU 6827.0000 LB/H FGD	70.00
		PM	0.1000 LB/MMBTU ESP	99.80

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

530.50 MM

EXTERNAL COMBUSTION - COAL

SOURCE TYPE/SIZE---

COMPANY NAME/SITE LOCATION SIERRA PACIFIC POWER CO.

VALAMY, NV

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) NV 77-02
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DATE OF PERMIT ISSUANCE-- 04/04/78
ESTIMATED DATE OF START-UP--
(415)-974-8066
(PHONE)

DAVID SOLOMON
(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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BOILERS, COAL FIRED, 2 277.00 MM

SO2	1.2000 LB/MMBTU
NOX	0.7000 LB/MMBTU
PM	0.1000 LB/MMBTU
BAGHOUSE	

99.75

NOTES -----
EMISSION LIMITS APPLY TO EACH UNIT SEPERATELY. BASIS DETERMINED BY NAPS AND PSD CLASS II INCREMENT CONSIDERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 235.00 MW

COMPANY NAME/SITE LOCATION SIKESTON BOARD OF MUNICIPAL UTILITIES SIKESTON, MO SCOTT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 07/14/77
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VII CHARLES WHITMORE (816)-374-6525
 (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, STEAM GEN, COAL FIRED 235.00 MW SO2 1.2000 LB/MMBTU BACT
 PM 0.1000 LB/MMBTU WET LIMESTONE SCRUBBER BACT
 ESP

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 567.00 MW, 2 EA
 COMPANY NAME/SITE LOCATION SOUTHWESTERN PUBLIC SERVICE SUDAN, TX LAMB COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/30/78
 PERMIT NO. (REGION FILE NO.) PSD-TX-50 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) TOM DIGGS (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM TURBINE, COAL-FIRED	567.00 MW	SO2	508.8000 LB/H 1.2000 LB/MMBTU	
		PM	0.1000 LB/MMBTU FABRIC FILTER SPRINKLE ROADS WITH WATER OR CHEM.	98.60

NOTES -----
 TWO UNITS, 567 MW EACH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION SOYLAND POWER COOP.

FLORENCE, IL

PIKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 82 02 0030
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/23/82
ESTIMATED DATE OF START-UP--
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

450.00 MW

PM

0.0300 LB/MMBTU
90.0000 % REMOVAL
ESP

NSPS

SO2

1.2000 LB/MMBTU
90.0000 % REMOVAL
LIMESTONE SCRUBBER

99.70
NSPS

NOX

0.6000 LB/MMBTU

90.00
NSPS

MISC. FUGITIVE SOURCES

PM

ROUTINE CONTROL MEASURES

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 94

ID NUMBER IL-0018

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 348.00 MW (GROSS)

COMPANY NAME/SITE LOCATION SUNFLOWER ELECT. COOP., INC. - HAYS, KS. NEAR HOLCOMB, KA, KS FINNEY COUNTY
HOLCOMB STATION

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/19/80
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ (816)-374-6525
(AGENCY) (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, COAL-FIRED	3389.00 MMBTU/H	NOX	0.6000 LB/MMBTU	BACT
			STAGED COMBUST., LEA	
		SO2	0.4800 LB/MMBTU 300 ROLL AV	BACT
			LIME BASED DRY SCRUBBER	80.00
			LIME BASED DRY SCRUBBER	
		CO	0.0640 LB/MMBTU 300 ROLL AV	BACT
		PM	0.0300 LB/MMBTU	BACT
			FABRIC FILTER	

NOTES -----
THE NOX LIMIT TAKES PRIORITY OVER THE CO LIMIT. IF NECESSARY THE CO LIMIT WILL BE ADJUSTED AFTER THE UNIT HAS BEEN PERFORMANCE TESTED. THE UNIT WILL BURN LOW S WYOMING COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1440.00 MW

COMPANY NAME/SITE LOCATION SW ELECT. POWER CANTON, TX VAN ZANDT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO (REGION FILE NO.) PSD-TX-130
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 JOHN BUNYAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/23/81
 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
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BOILERS, 2 EA	6821.00 MMBTU/H	PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS
		S02	0.9000 LB/MMBTU		99.80 BACT
		NOX	0.6000 LB/MMBTU	WET LIMESTONE FLUE GAS DESULFURIZATION	87.40 NSPS
				LOW NOX BURNERS	
		CO	0.1000 LB/MMBTU	FLUE GAS RECIRCULATION	BACT
				LOW EXCESS AIR	
COAL UNLOAD		PM	2.4000 LB/H	WET SUPPRESSION	
COAL TRANSFER		PM	2.4000 LB/H	ENCLOSED	
COAL STORAGE		PM	2.4000 LB/H	CHEMICAL STABILIZER	

(CONTINUED) SW ELECT. POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
LIMESTONE UNLOAD		PM	0.2000 LB/H WET SUPPRESSION	
LIMESTONE TRANSFER		PM	0.6000 LB/H ENCLOSED	
LIMESTONE STORAGE		PM	0.2000 LB/H CHEMICAL STABILIZER	

NOTES -----
NOX LIMIT FOR BOILERS IS 30 DAY ROLLING AVERAGE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---EXTERNAL COMBUSTION - COAL

720.00 MW EA

COMPANY NAME/SITE LOCATION SM ELECT. POWER
P.O. BOX 21106

NABORTION, LA 71156

DESO TO PARISH PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-117
DETERMINATION MADE BY EPA REGION VI
(AGENCY)JOHN BUNYAK
(AGENCY CONTACT PERSON)DATE OF PERMIT ISSUANCE-- 09/01/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)PROCESSES SUBJECT
TO THIS PERMITTHROUGHPUT
CAPACITYPOLLUTANT
EMITTEDEMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION... & BASIS
... PCT EFF

BOILER, COAL FIRED

720.00 MW

SO2

1.2000 LB/MMBTU
FGDNSPS
76.00
NSPS

NOX

0.6000 LB/MMBTU
LOW NOX BURNERSBACT
99.80
BACT

PM

0.1000 LB/MMBTU
ESP0.8000 LB/MMBTU
EFFICIENT COMBUSTION

BACT

BOILER, COAL FIRED

720.00 MW

SO2

0.6000 LB/MMBTU
FGDNSPS
89.50
NSPS

NOX

0.6000 LB/MMBTU
LOW NOX BURNERSBACT
99.80
BACT

PM

0.0300 LB/MMBTU
ESP0.8000 LB/MMBTU
EFFICIENT OPERATION

COAL HANDLING

PM

SPRAY APPL. & DUST COLLECT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 98

ID NUMBER LA-0002

SOURCE TYPE CODE 1.1

NOTES -----
UNIT 1 UNDER 40CFR PART 60 SUBPART D. UNIT 2 UNDER 40CFR PART 60 SUBPART DA. FUGITIVE DUST CONTROLLED BY WATER SPRAY DURING CO
NSTRUCTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 99 ID NUMBER LA-0002 SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1993

SOURCE TYPE/SIZE---
EXTERNAL COMBUSTION - COAL
720.00 MM, 2 EA

COMPANY NAME/SITE LOCATION
SW ELECT. POWER
2700 ONE MAIN PL.
DALLAS, TX 75250

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY
EPA REGION VI
(AGENCY)
JOHN BUNYAK
(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
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BOILER, COAL FIRED UNIT #1	6780.00 MMBTU/H	PM	203.0000 LB/H 0.0300 LB/MMBTU ESP	99.90
		SO2	0.7200 LB/MMBTU 4882.0000 LB/H	
		NOX	0.6000 LB/MMBTU 4068.0000 LB/H	90.00
		CO	0.1300 LB/MMBTU 892.0000 LB/H	
			DESULFURIZATION SYS. BURNER DESIGN	

BOILER, COAL FIRED UNIT #2	6780.00 MMBTU/H	PM	203.0000 LB/H 0.0300 LB/MMBTU ESP	99.90
		SO2	0.7200 LB/MMBTU 4882.0000 LB/H	
		NOX	0.6000 LB/MMBTU 4068.0000 LB/H	90.00
		CO	0.1300 LB/MMBTU 892.0000 LB/H	
			DESULFURIZATION SYS. BURNER DESIGN	

CO 0.1300 LB/MMBTU
 892.0000 LB/H
 BURNER DESIGN

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 101

ID NUMBER TX-0015

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 M#

COMPANY NAME/SITE LOCATION SW ELECT. POKER HALLSVILLE, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/30/78
 PERMIT NO. PGD-TX-64 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
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COAL FIRED STEAM GEN	720.00 M#	S02	1.2000 LB/MMBTU 682.0000 LB/H	76.00
		PM	WET LIMESTONE FGD 0.1000 LB/MMBTU ESP	99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION S.C. PUBLIC SERVICE AUTHORITY CROSS, SC BERKELEY COUNTY

DETERMINATION IS BACT
 PERMIT NO. P/C-08-190
 DETERMINATION MADE BY SOUTH CAROLINA DHEC OTTO PEARSON DATE OF PERMIT ISSUANCE-- 12/03/81
 (AGENCY) (AGENCY CONTACT PERSON) (803)-758-5406 ESTIMATED DATE OF START-UP--
 (PHONE)

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

#3 GENERATOR	500.00 MW	PM	0.0300 LB/HMBTU	NSPS
			ESP	99.80
		SO2	0.4100 LB/HMBTU	BACT
			LOW S COAL	85.00
		NOX	0.6000 LB/HMBTU	B/N
			EQUIPMENT DESIGN & OPERATION	
		CO	0.0400 LB/HMBTU	BACT
			EQUIPMENT DESIGN & OPERATION	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

1600.00 MMBTU/H

EXTERNAL COMBUSTION - COAL

SOURCE TYPE/SIZE---

TACOMA, WA

TACOMA CITY LIGHT

COMPANY NAME/SITE LOCATION

DATE OF PERMIT ISSUANCE-- 05/11/82
ESTIMATED DATE OF START-UP--
(206)-442-1597
(PHONE)

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X-82-06
DETERMINATION MADE BY EPA REGION X
(AGENCY)

DAVID TETTA
(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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BOILER 1600.00 MMBTU/H

S02	0.2300 LB/MMBTU	367.0000 LB/H	DRY SCRUBBER	85.00
S02	1366.0000 T/YR		DRY SCRUBBER	85.00
NOX	0.5000 LB/MMBTU	786.0000 LB/H		
NOX	2926.0000 T/YR			

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 425.00 MW
 COMPANY NAME/SITE LOCATION TAMPA ELECT. CO.
 P.O. BOX 111
 RUSKIN, FL 33601
 HILLSBOROUGH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-FL-040
 DETERMINATION MADE BY FLORIDA DER
 (AGENCY)
 ED PALAGYI
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/15/81
 ESTIMATED DATE OF START-UP-- 1983
 (904)-488-1344
 (PHONE)

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

POWER GEN. UNIT 425.00 MW
 PM 0.0300 LB/MMBTU
 130.0000 LB/H
 ESP
 SO2 0.8200 LB/MMBTU
 3576.0000 LB/H
 LIMESTONE SCRUBBER
 COAL WASHING
 NOX 0.6000 LB/MMBTU
 2598.0000 LB/H
 EQUIPMENT DESIGN & OPERATION
 CO 0.0140 LB/MMBTU
 61.0000 LB/H
 EQUIPMENT DESIGN & OPERATION
 NSPS
 99.00
 NSPS
 90.00
 BACT
 BACT

NOTES -----
 BIG BEND STATION UNIT #4.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MM

COMPANY NAME/SITE LOCATION TUCSON ELECT. POWER CO. UNIT #3 SPRINGERVILLE, AZ

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 04/11/80
 PERMIT NO. AZP 79-01 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX DAVID SOLOMON (415)-974-8066
 (AGENCY) (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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COAL FIRED GEN. UNITS	350.00 MM	SOX	0.2180 LB/MMBTU 817.0000 LB/H	
			DRY LIMESTONE SCRUBBER	85.00
		NOX	0.4400 LB/MMBTU	
			COMBUSTION MODIFICATIONS	
		PM	0.0260 LB/MMBTU	99.96
			BAGHOUSE	

NOTES -----
 PSD INCREMENT COMPLIANCE AND NSPS USED IN THE DETERMINATION OF BACT EMISSION LIMITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 700.00 MW
 COMPANY NAME/SITE LOCATION TUCSON ELECT. POWER CO. UNITS #1 & 2 TUCSON, AZ APACHE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) AZ77-01
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)
 DAVID SOLOMON
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 12/21/77
 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
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COAL FIRED GEN. UNITS, 2	350.00 MW EA	PM	0.0340 LB/MBTU HOT SIDE ESP	BACT
		SO2	0.6900 LB/MBTU	BACT
		NOX	WET LIME SCRUBBER 0.6970 LB/MBTU	64.00 NSPS
COAL HANDLING		PM	SPRAY APPLIC. & DUST COLLECT	
BOTTOM ASH		PM	HYDRALIC CONVEYANCE	
FLY ASH		PM	PNEUMATIC CONVEYANCE	

NOTES -----
 DETAILED CONTROL STRATEGIES FOR THESE FACILITIES IS GIVEN IN PERMIT. WET SUPPRESSION SHALL BE USED TO CONTROL FUGITIVE DUST DURING CONSTRUCTION. SAMPLING OF COAL IS REQUIRED. THIS DEGREE OF CONTROL WAS PROPOSED BY THE CO. IN ITS APPLICATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---
 200.00 MMBTU/H
 COMPANY NAME/SITE LOCATION
 TVA - AFBC PILOT PLANT - SHAWNEE STEAM *
 AFBC PILOT PLANT
 PADACAH, KY 42001
 MCCracken COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. C-80-18
 DETERMINATION MADE BY
 KENTUCKY DAPC
 (AGENCY)
 BILL DILLS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/14/80
 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

FLUIDIZE BED BOILER
 200.00 MMBTU/H
 S02
 PH
 1.2000 LB/MMBTU
 0.1000 LB/MMBTU
 FLUIDIZED BED COMBUSTION
 BAGHOUSE
 BACT
 85.00
 BACT
 99.90

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 230.00 MW

COMPANY NAME/SITE LOCATION TVA - PARADISE - DRAKESBORO , KY MUHLENBURG COUNTY
720 EDRCO BLDG.

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/25/79
PERMIT NO. C-79-47 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
(AGENCY) (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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COAL CRUSHING PLANT	2000.00 T/H	PM		
COAL WASHING PLANT	2000.00 T/H COAL	PM	325.2000 T/YR ALLOWABLE 136.5000 T/YR ACTUAL BAGHOUSE ROTARY CAR DUMP	LAER 98.00

NOTES -----
THIS IS A NON ATTAINMENT AREA - DETERMINATION STATES - "SINCE TVA IS WILLING TO ACCEPT AN ALLOWABLE ... OF LESS THAN 50 TPY ..
- NO FURTHER ANALYSIS UNDER OFFSET POLICY IS REQUIRED."
ALSO COVERS PERMIT NUMBER C-81-073. THIS ADDITIONAL PERMIT IS LAER. ROTARY CAR DUMP 93% EFF.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MM

COMPANY NAME/SITE LOCATION UTAH PWR & LT CO-HUNTER STATION
NEAR CASTLE DALE , UT EMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/02/80
DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
(AGENCY) JOHN DALE (303)-837-3763
(AGENCY CONTACT PERSON) (PHONE)

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

ACTIVE STORAGE	PM	2.0000 LB/H	BACT	90.00
	VE	20.0000 % OPACITY		
ASH SILO UNLD	VE	20.0000 % OPACITY	BACT	100.00
		KEPT DAMP		
ASH SILO VENTS	PM	49.0000 LB/H	BACT	99.80
	VE	20.0000 % OPACITY		
		FF		
BOILERS(3&4)	NOX	0.5500 LB/MMBTU	BACT	65.00
		BOILER DESIGN		
	PM	0.0300 LB/MMBTU	BACT	90.00
		FF		
	S02	0.1200 LB/MMBTU	BACT	90.00
	VE	20.0000 % OPACITY		
		SCRUBBER		

(CONTINUED) UTAH PWR & LT CO-HUNTER STATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONV	2.50 MMT/YR	PM	5.0000 LB/H ENC.	BACT 90.00
		VE	20.0000 % OPACITY	
HAUL ROADS		PM	2.7000 LB/H ASPHALT + H2O	BACT 90.00
INACT STORAGE		PM	40.0000 LB/H SEAL. & COMP.	BACT 90.00
		VE	20.0000 % OPACITY	
LIME T/S		VE	20.0000 % OPACITY FF	BACT 99.80
SLUDGE MIX(ASH)		VE	20.0000 % OPACITY FF	BACT 99.80
TRANS	2.50 MMT/YR	PM	1.0000 LB/H SPRAYS & ENC.	BACT 98.50
		VE	20.0000 % OPACITY	
TRUCK UNLD	2.50 MMT/YR	PM	0.1000 LB/H SPRAYS & ENC.	BACT 98.50
		VE	20.0000 % OPACITY	

NOTES -----
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR SOX, NOX, OPACITY WILL BE DETERMINED BY CEM REPO
RTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 70400.00 T/YR

COMPANY NAME/SITE LOCATION U.S. DOE, 4 - COAL PILOT PLANT , KY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/17/79
 PERMIT NO. C79121 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
 (AGENCY) (PHONE)
 BILL DILLS
 (AGENCY CONTACT PERSON)

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

BOILER	62.60 MMBTU/H	PM	2.0000 LB/H 10.0000 T/YR	
		CO	1.0000 T/YR	
		SO2	3.0000 T/YR	
		NO2	6.0000 T/YR	
		VOC	1.0000 T/YR	
REACTOR HEATERS, 201A & B, TOTAL	53.00 MMBTU/H	PM	1.0000 LB/H 5.0000 T/YR	
REACTOR HEATER #201C	48.40 MMBTU/H	PM	1.0000 LB/H 5.0000 T/YR	
		CO	2.0000 T/YR	
		SO2	1.0000 T/YR	
		NO2	9.0000 T/YR	
		VOC	1.0000 T/YR	
FILTRATE HEATERS	22.90 MMBTU/H	PM	1.0000 LB/H 5.0000 T/YR	
		NO2	3.0000 T/YR	
		VOC	2.0000 T/YR	

(CONTINUED) U.S. DOE, 4 - COAL PILOT PLANT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HYDROGEN HEATER	16.40 MMBTU/H	PM	0.8000 LB/H	
			3.5000 T/YR	
		CO	3.0000 T/YR	
		SO2	1.0000 T/YR	
		NO2	2.0000 T/YR	
		VOC	1.0000 T/YR	
THERMOLIQUID HEATER	36.80 MMBTU/H	PM	0.6000 LB/H	
			2.6300 T/YR	
		CO	2.0000 T/YR	
		SO2	12.0000 T/YR	
		NO2	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	
		NO2	6.0000 T/YR	
		VOC	1.0000 T/YR	
COAL UNLOADING	300.00 T/H	PM	9.0000 LB/H	
			3.7500 T/YR	99.00
COAL RECLAIM	208.00 T/H		FABRIC FILTER	
		PM	5.2000 LB/H	
			4.0000 T/YR	99.00
			FABRIC FILTER	
CRUSHED COAL BIN	208.00 T/H	PM	4.0000 T/YR	
			FABRIC FILTER	99.00

(CONTINUED) U.S. DOE, 4 - COAL PILOT PLANT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL DRYING	208.00 T/H	PM	0.6000 LB/H 2.1000 T/YR FABRIC FILTER	99.00
COAL STORAGE	208.00 T/H	PM	1.0000 T/YR FABRIC FILTER	99.00
FLAKER	208.00 T/YR	PM	0.2100 LB/H 0.9400 T/YR FABRIC FILTER	99.00
OIL MIST ELIMINATOR		PM	8.1500 LB/H 35.7000 T/YR MIST ELIMINATOR	99.00
FLARE		PM SO2	1.0000 T/YR 1.0000 T/YR	
NAPHTHA TANKS, 3		VOC	1.0000 T/YR	
RESID. OIL TANKS		VOC	1.0000 T/YR	
DIST. FUEL TANKS		VOC	1.0000 T/YR	
COAL HYD. REACTOR		SO2	90.0000 T/YR PROCESS GAS RECOVERY	99.90

NOTES -----
NON-ATTAINMENT FOR PM, SO2, NOX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2080.00 MM

COMPANY NAME/SITE LOCATION WASHINGTON WATER POWER CO. , WA

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-X-83-01
 DETERMINATION MADE BY EPA REGION X
 (AGENCY)

PAUL BOYS
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/17/82
 ESTIMATED DATE OF START-UP-- 1984
 (206)-442-1567
 (PHONE)

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

S02		0.2200 LB/MMBTU 300 ROLL AV		
		1140.0000 LB/H, 24 H ROLL AVG		
NOX		0.5000 LB/MMBTU SB. COAL		
		0.6000 LB/MMBTU, BIT. COAL		
		LIMITS ARE 30 DAY ROLLIN AVG		
PM		0.0300 LB/MMBTU		
VE		20.0000 % OPACITY		
CO		332.0000 LB/H		
VOC		3.3200 LB/H		
PB		0.2700 LB/H ANNUAL AV		
BE		0.0200 LB/H ANNUAL AV		
HG		0.0300 LB/H ANNUAL AV		
FLU*		1.1500 LB/H ANNUAL AV		
SUL*		80.9000 LB/H ANNUAL AV		

ROTARY CAR DUMPER (COAL)

PM		0.0100 GR/DSCF		90.00
		BAGHOUSE		
VE		5.0000 % OPACITY		

ROTARY CAR DUMPER (LIMESTONE)

PM		0.0100 GR/DSCF		90.00
		BAGHOUSE		
VE		5.0000 % OPACITY		

(CONTINUED) WASHINGTON WATER POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONVEYORS		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
COAL CONVEYOR DISCHARGE		PM		
		VE	TELESCOPIC CHUTES/LOWERING WELL 20.0000 % OPACITY	75.00
COAL CONVEYOR TRIPPERS		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
TRANSFER HOUSES		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
COAL SUPPLY SYSTEM		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
COAL SILOS		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
LIMESTONE SILOS		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
BOTTOM ASH DISPOSAL		PM	FIXATED W/SCRUBBER SLUDGE	100.00

(CONTINUED) WASHINGTON WATER POWER CO.

PROCESS SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROAD DUST		PM	CHEM. STABILIZ., DESIGN & OPER. PRACT.	85.00
FLY ASH HANDLING & SILOS		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
WASTE TREATMENT BLDG.		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		VE	5.0000 % OPACITY	
DEAD STORAGE		PM	20.0000 GR/DSCF SURFACE STABILIZATION	
		VE	95.0000 % OPACITY	

NOTES

THE PROPOSED CONTROL SYSTEM CONSISTS OF A LIMESTONE FGD SYSTEM FOR SO₂ REMOVAL PRECEDED BY A BAGHOUSE (OR POSSIBLY AN ESP) FOR PARTICULATE REMOVAL. THE APPLICABLE TRACE MATERIALS WILL ALSO BE REMOVED TO SOME EXTENT BY THE PARTICULATE AND SO₂ CONTROL SYSTEMS. NOX, CO, VOC ARE MINIMIZED BY COMBUSTION CONTROL (IE. EXCESS AIR CONTROL, ETC.). AMO UNITS SITED ARE EMISSIONS PER UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 640.00 MW (NET)

COMPANY NAME/SITE LOCATION WEST TEXAS UTILITIES CO. OKLAUNION, TX WILBERGER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/20/82
 PERMIT NO. 9015 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
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STEAM GENERATOR	6.80 MMBTU/H	PM	0.0300 LB/MMBTU ESP	NSPS 99.70
		SO2	0.5000 LB/MMBTU	NSPS 70.00
		NOX	0.5000 LB/MMBTU WET LIMESTONE SCRUBBER LOW NOX BURNERS	
COAL & LIMESTONE STORAGE/HANDLI*		PM	60.0000 LB/H DUST CONTROL SYSTEM	

NOTES -----
 THIS IS A COAL FIRED BOILER BURNING LOW SULFUR COAL (.64% S WORST CASE).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1160.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN ELEC. POWER CO., PLEASANT PRA* , WI KENOSHA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/09/76
 PERMIT NO. EPA-5-76-A-1 ESTIMATED DATE OF START-UP-- 1980
 DETERMINATION MADE BY EPA REGION V BONIFACE THAYIL (312)-886-6054
 (AGENCY) (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, COAL FIRED, 2 EA	580.00 MW	PM	0.1000 LB/MMBTU	NSPS
			ESP	99.00
		S02	1.2000 LB/MMBTU COAL	NSPS
			0.8000 LB/MMBTU, OIL	
			LOW S FUEL -- <0.7% COAL, <0.5% OIL	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPE IX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 400.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN POWER & LIGHT CO., EDGEWATER * SHEBOYGAN, WI

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/26/77
 PERMIT NO. EPA-5-77-A-3 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V BONIFACE THAYIL (312)-886-6054
 (AGENCY) (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 400.00 MW PM 0.1000 LB/MMBTU NSPS
 SO2 1.2000 LB/MMBTU NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 321.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN PUBLIC SERVICE CORP., WESTON * , WI MARATHON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/11/77
 PERMIT NO. EPA-5-77-A-4 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V BONIFACE THAYIL (312)-886-6054
 (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, COAL FIRED 321.00 MW PM 0.1000 LB/MMBTU NSPS
 SO2 1.2000 LB/MMBTU NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---
 EXTERNAL COMBUSTION - OIL
 98.00 MMBTU/H
 COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC.
 WILLIAMSBURG, VA
 JAMES CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 79VA15
 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
 98.00 MMBTU/H
 POLLUTANT EMITTED
 SO2 1.0700 LB/MMBTU
 PM 1% SULFUR IN OIL.
 TSP NOT SIGNIFICANT
 ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BACT

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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 37.50 MMBTU/H

COMPANY NAME/SITE LOCATION A.I. DUPONT INSTITUTE WILMINGTON, DE NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) 79-DE-01
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)
 JOANNE MCKERNAN
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/18/80
 ESTIMATED DATE OF START-UP-- 1981
 (215)-597-8182
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILERS (3)	37.50 MMBTU/H	PM	0.5800 LB/H		BACT
		SO2	66.7000 LB/H		BACT
				.85% S. IN FUEL OIL	
		CO	2.5000 LB/H		BACT
		VOC	0.5000 LB/H		BACT
		NOX	30.0000 LB/H		BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 243.00 MMBTU/H

COMPANY NAME/SITE LOCATION CRANSTON PRINT WORKS FLETCHER, NC HENDERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/25/80
 PERMIT NO. NC-030 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 EMITTED EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
	243.00 MMBTU/H	PM	0.1000 LB/MMBTU	MULTICYCLONE + VENTURI SCRUBBER	BACT 98.80
		SO2	1.2000 LB/MMBTU	CAUSTIC WASTE VENTURI SCRUB.	BACT 74.00
		NOX	0.7000 LB/MMBTU	EQUIPMENT OPERATION & DESIGN	HSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

96.40 MMBTU/H

COMPANY NAME/SITE LOCATION FIRESTONE TIRE CO.
3300 SYLVESTER RD

ALBANY, GA 31702

DOUGHERTY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. GA 067
DETERMINATION MADE BY

GEORGIA EPD
(AGENCY)

BILL MITCHELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/25/80
ESTIMATED DATE OF START-UP--
(404)-656-6900
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, OIL FUEL

96.40 MMBTU/H

SO2

1 1/2 SULFUR FUEL OIL

PM

0.1600 LB/MMBTU
BAGHOUSE

BACT
99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 125

ID NUMBER GA-0003

SOURCE TYPE CODE 1.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---

 EXTERNAL COMBUSTION - OIL

 81.90 MBTU/H

 COMPANY NAME/SITE LOCATION

 HOOKER CHEMICAL & PLASTICS CORP.
 P.O. BOX D

 PERRYVILLE, MD 21903

 CECIL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 78MD07
 DETERMINATION MADE BY

 EPA REGION III
 (AGENCY)

 BOB BLASZCZAK
 (AGENCY CONTACT PERSON)

 DATE OF PERMIT ISSUANCE-- 07/03/79
 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

OIL FIRED BOILER

 81.90 MBTU/H

 SO2

 355.1000 LB/H

 S IN FUEL LIM. TO 1.3% BY WT

 BACT

NOTES -----
 355.1 LB/H, 3 BOILERS (2 EXISTING & 1 NEW) WITH COMMON STACK
 SOURCE HAS CLOSED INDEFINITELY DUE TO MARKET CONDITIONS. PLANT HAS BEEN MOTHBALLED.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 185.00 MMBTU/H EA

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER

, TX 77001

MATAGORDA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-209
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/16/80
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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BOILER, 2 EA

185.00 MMBTU/H

S02 0.5000 LB/MMBTU

92.1000 LB/H

BACT

PM LOW SULFUR #2 FUEL OIL

0.1000 LB/MMBTU

18.3500 LB/H

BACT

FGD

O2 CONTROL

0.3000 LB/MMBTU

BACT

55.0000 LB/H

LOW NOX BURNER

LEA FIRING

NOTES -----

NO. 2 FUEL OIL -- < 0.5% SULFUR BY WT. CONTINUOUS OPERATION -- 8760 HR/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION ILLINOIS POWER CO.

HENNEPIN, IL

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. EPA-5-A-79-22

DETERMINATION MADE BY EPA REGION V

(AGENCY)

BONIFACE THAYIL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/26/79

ESTIMATED DATE OF START-UP--

(312)-886-6054

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TURBINE, OIL FIRED COMBUSTION

SO2

LIMITED TO 0.8% S FUEL OIL

NOX

75.0000 PPM

NOTES -----

TURBINE RESTRICTED TO 4000 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION ILLINOIS POWER CO.

CLINTON, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-79-21
DETERMINATION MADE BY EPA REGION V
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/03/79
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

TURBINE, OIL FIRED COMBUSTION

SO2

LIMITED TO 0.8% S FUEL OIL

NOX

75.0000 PPM

NOTES -----

TURBINE IS RESTRICTED TO 1500 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 129

ID NUMBER IL-0023

SOURCE TYPE CODE 1.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION NORTHERN INDIANA PUBLIC SERVICE CO., SC* , IN JASPER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/16/79
 PERMIT NO. EPA-5-79-A-25 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V BONIFACE THAYIL (312)-886-6054
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR, OIL FIRED, 2		SO2	LIMITED TO 0.8% S FUEL OIL	
		NOX	75.0000 PPM	

NOTES -----
 EACH TURBINE RESTRICTED TO 2000 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 175.00 MLB/H

COMPANY NAME/SITE LOCATION CONSUMERS POWER CO.

MIDLAND, MI

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 99-81

DETERMINATION MADE BY MICHIGAN DNR

(AGENCY)

DAVID FERRIER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/01/81

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

BOILERS, NAT. GAS, 3 EA

175.00 MLB/H

NOX

0.2000 LB/MM3TU

BURNER DESIGN & EX. AIR CONTRL

NOTES

3 NATURAL GAS-FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 2000.00 HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS ENTERPRISE, MS CLARKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 08/21/81
PERMIT NO. (REGION FILE NO.) PSD-MS-036 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY MISSISSIPPI DNR (601)-354-2550
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

ENGINE, NAT. GAS 14000.00 CF/H N. G. NOX 37.4000 LB/H NSPS
163.9000 T/YR
CO 10.5000 LB/H NSPS
46.2000 T/YR
BOILER DESIGN & OPERATION
BOILER OPERATION & DESIGN

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 170.00 MMBTU/H

COMPANY NAME/SITE LOCATION CAROLINA FOREST INDUSTRIES, INC. BENNETTSVILLE, SC MARLBORO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/25/81
 PERMIT NO. (REGION FILE NO.) PSD-SC-039 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY SOUTH CAROLINA DHEC (803)-758-5406
 (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON) (PHONE)

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

BOILER, BARK/WOODWASTE	172.00 MMBTU/H	PM	0.2500 LB/MMBTU 43.0000 LB/H	MECHANICAL COLLECTOR/ESP	BACT
		NOX	1.1900 LB/MMBTU 205.0000 LB/H	EQUIPMENT OPERATION & DESIGN	98.00 BACT
BOILERS, COAL FIRED, 2	311.00 MMBTU/H EA	PM	62.2000 LB/H 271.8000 T/YR	ESP	BACT
		SO2	746.4000 LB/H 3260.4000 T/YR	LOW S COAL	99.00 BACT
		NOX	435.4000 LB/H 1901.8000 T/YR	BOILER DESIGN	BACT
		CO	25.6000 LB/H 111.8000 T/YR	EQUIPMENT OPERATION	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

THREE UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
===== SOURCE TYPE CODE 1.4
ID NUMBER SC-0005
PAGE G- 134

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE

COMPANY NAME/SITE LOCATION CO-GEN COEUR D'ALENE, ID

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/15/83
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY IDAHO AGB CLINT AYER (208)-334-5360
 (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, WOOD FIRED 104.00 MMBTU/H PM 3.9500 LB/H 98.40
 MULTICLONE & BAGHOUSE
 CO 5.9000 LB/H
 NOX 19.0000 LB/H

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

6.00 MM

EXTERNAL COMBUSTION - WOOD WASTE

SOURCE TYPE/SIZE---

COEUR D'ALENE, ID

COMPANY NAME/SITE LOCATION CO-GEN., INC.

DATE OF PERMIT ISSUANCE-- 03/15/83
ESTIMATED DATE OF START-UP-- 1983
(206)-442-1193
(PHONE)

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-16
DETERMINATION MADE BY EPA REGION X
(AGENCY)

PAUL BOYS
(AGENCY CONTACT PERSON)

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

BOILER 6.00 MM

PM 0.0340 LB/MMBTU
16.6000 T/YR
ESP
NOX 0.1700 LB/MMBTU
88.2000 T/YR
CO 0.2200 LB/MMBTU
117.6000 T/YR
VOC 0.0600 LB/MMBTU
117.6000 T/YR

99.00
BACT
BACT
BACT

NOTES -----
GENERAL DESIGN CONTRIBUTES TO REDUCTION OF OIL POLLUTANTS AND INCLUDES 1) INCREASED BOILER HEIGHT FOR BETTER EFFICIENCY, 2) OV
ERFIRE AND UNDERFIRE AIR, 3) FEEDWATER HEATERS TO INCREASE EFFICIENCY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER ID-0001

SOURCE TYPE CODE 1.4

PAGE G- 136

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

88.00 MMBTU/H

EXTERNAL COMBUSTION - WOOD WASTE

SOURCE TYPE/SIZE---

COMPANY NAME/SITE LOCATION EVERGREEN FOREST PRODUCTS

TAMARACK, ID

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY IDAHO ARB

(AGENCY)

CLINT AYER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/30/82

ESTIMATED DATE OF START-UP-- 1983

(208)-334-5360

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, WOOD FIRED

88.00 MMBTU/H

PM

21.2200 LB/H

2 STAGED MULTICLONES

96.00

CO

17.5600 LB/H SEE NOTE

NOX

17.5600 LB/H SEE NOTE

NOTES -----

NOTE - CO & NOX PREDICTIONS BASED ON AP-42.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 137

ID NUMBER ID-0005

SOURCE TYPE CODE 1.4

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 95.00 MMBTU/H

COMPANY NAME/SITE LOCATION GOLD KIST INC., GOLD KIST SOY PLANT VALDOSTA, GA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 2075-092-8088-C
 DETERMINATION MADE BY GEORGIA EPD SUE MCFATHER DATE OF PERMIT ISSUANCE-- 12/09/81
 (AGENCY) (AGENCY CONTACT PERSON) (404)-656-4867 ESTIMATED DATE OF START-UP-- 1982
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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WELLON TYPE A BOILER	95.00 MMBTU/H	PM	0.1000 LB/MMBTU	NSPS
		NOX	2 STAGE MECHANICAL COLL./FAB. FILTER	98.00
			0.7000 LB/MMBTU	NSPS
		VOC	BURNER & FURNACE DESIGN/GOOD OPER.	
EFF. BOILER DESIGN & GOOD OPER.				

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 150.00 MMBTU/H

COMPANY NAME/SITE LOCATION HUDSON LUMBER CO. ANDERSON, CA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/05/81
 PERMIT NO. 81-PO-17 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY SHASTA COUNTY APCD RICHARD BOOTH
 (AGENCY) (AGENCY CONTACT PERSON) (916)-246-5674
 (PHONE)

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

BOILER 90000.00 LB/H STEAM PM 0.0350 GR/DSCF MULTICLONE & VENTURI SCRUBBER 98.00
 NOX 30.0000 LB/H, 8 H AVG COMBUSTION PARAMETER CONTROL 40.00
 SOX 2.0000 LB/T FUEL COMBUSTION PARAMETER CONTROL 98.00
 CO COMBUSTION PARAMETER CONTROL 76.00
 VOC

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 50.00 MM

COMPANY NAME/SITE LOCATION MCNEIL GENERATING STATION BURLINGTON, VT
BURLINGTON ELECTRIC LIGHT DEP*

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/01/80
PERMIT NO. ESTIMATED DATE OF START-UP-- 1984
DETERMINATION MADE BY VERMONT AEC HAROLD GARABEDIAN (802)-828-3395
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

WOOD FIRED FURNACE 670.00 MMBTU/H PM 0.0070 LB/MMBTU 0.0070 GR/DSCF AT 12% CO2 99.90
MEC. DUST COLLECTOR & ESP
80%-MEC COLLECT. & 99.5%-ESP

NOTES
418000 ACFM AT 310F-CYCLONES-LARGE DIA. CERAMIC-24 TUBE, 58 IN. DIAMETER, 12.3 FT LONG, DELTA P=3.4 IN. H2O, INLET VEL. 63.1FT /SEC-ESP-HEIGHTED WIRE TYPE ,TOTAL PLATE AREA 280000 SQ. FT.,SCA=672 SQ. FT./1000 ACFM, LINEAR VEL. 3 FT/SEC - 9 FIELDS, 119 GAS PASSAGES, 9 IN. PASSAGE SPACING, 45 FT GAS TRAVEL DISTANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 37.00 MW

COMPANY NAME/SITE LOCATION PANORAMA ENERCORP, INC KETTLE FALLS, WA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/22/81
 PERMIT NO. (REGION FILE NO.) PSD-X81-15 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION X (206)-442-1193
 (AGENCY) PAUL BOYS (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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BOILER	37.00 MW	PM	0.0070 GR/DSCF 12% CO2	99.00 BACT
		CO	107.3000 LB/H	BACT
		VOC	36.5000 LB/H	BACT
		NOX	0.1700 LB/HBTU	BACT

NOTES -----
 GENERAL DESIGN CONTRIBUTES TO REDUCTION OF ALL POLLUTANTS AND INCLUDES 1) INCREASED BOILER HEIGHT FOR BETTER EFFICIENCY, 2) OV
 ERFIRE AND UNDERFIRE AIR, 3) FEEDWATER HEATERS TO INCREASE EFFICIENCY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 145.00 MBTU/H

COMPANY NAME/SITE LOCATION ULTRASYSTEMS INC. BURNLEY, CA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/06/82
 PERMIT NO. 82-PO-32 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY SHASTA COUNTY APCD RICHARD BOOTH
 (AGENCY) (AGENCY CONTACT PERSON) (916)-246-5674
 (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	150000.00 LB/H STEAM	PM	0.0350 GR/DSCF MULTICLONE & VENTURI SCRUBBER	98.00
		NOX	139.0000 T/YR COMBUSTION PARAMETER CONTROL	40.00
		CO	126.0000 T/YR COMBUSTION PARAMETER CONTROL	98.00
		VOC	55.0000 T/YR COMBUSTION PARAMETER CONTROL	76.00
		SOX	21.0000 T/YR	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 1440.00 T/D WOOD & WASTE

COMPANY NAME/SITE LOCATION WATSON ENERGY SYS, INC. WILMINGTON, CA

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/03/80
 PERMIT NO. (REGION FILE NO.) LA 77-02 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX (415)-974-8220
 (AGENCY) BOB BAKER (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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STEAM GEN. UNITS, 4, WASTE/FUEL*	1440.00 T/D	NOX	83.0000 LB/H	LAER
			COMBUSTION MODIFICATION	
		SO2	64.0000 LB/H	LAER
		PM	4.0000 LB/H	90.00
			WET SCRUBBER (CAUSTIC)	LAER
			BAGHOUSE	99.50

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION WESTERN KRAFT P.O. BOX 130 HAWESVILLE, KY 42348 HANCOCK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. PERMIT NO. KY-146 DATE OF PERMIT ISSUANCE-- 06/02/80
 DETERMINATION MADE BY KENTUCKY DAPC ESTIMATED DATE OF START-UP--
 (AGENCY) (502)-564-3382
 BILL DILLS (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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BOILER, WOODWASTE	450.00 MMBTU/H	PM	0.0400 LB/MMBTU	BACT
			VENTURI SCRUBBER	99.30
		SO2	0.3150 LB/MMBTU	BACT
		NOX	0.4000 LB/MMBTU	BACT
			BOILER DESIGN	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 65.00 MM

COMPANY NAME/SITE LOCATION AMES MUNICIPAL POWER PLANT AMES, IA STORY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 11/05/79
 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ (816)-374-6525
 (AGENCY) (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, UNIT #8, STEAM GEN.	769.00 MMBTU/H	PM	0.1000 LB/MMBTU HOT SIDE ESP'S	BACT 99.60
		SO2	1.2000 LB/MMBTU LOW S COAL	BACT
		NOX	0.7000 LB/MMBTU BOILER DESIGN	BACT

NOTES
 UPON STARTUP OF UNIT 8, SO2 EMISSIONS FROM EXISTING UNITS 5,6, AND 7 WILL BE REDUCED FROM PRE-MODIFICATION EMISSION LEVELS BECAUSE OF A PROJECTED VIOLATION OF THE 24HR SO2/NAAGS. SEE IOWA CONSENT ORDER 79-A-007. THE STACKS ON TWO EXISTING UNITS AND ON PROPOSED UNIT 8 ARE LESS THAN 66P STACK HEIGHT. UNIT #8 WILL BE CAPABLE OF BURNING UP TO 30% REFUSE-DERIVED FUEL. TWO ESP'S WILL BE INSTALLED, STACKED ONE ON TOP OF THE OTHER BECAUSE OF SPACE LIMITATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 90.00 MW

COMPANY NAME/SITE LOCATION CITY OF COLUMBUS COLUMBUS, OH FRANKLIN COUNTY

DETERMINATION IS B/L FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/16/79
 PERMIT NO. EPA-5-A-80-3 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION V BONIFACE THAYIL (312)-886-6054
 (AGENCY) (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, REFUSE/COAL FIRED, 6 EA 240.00 MMBTU/H	PM	0.1000 LB/MMBTU		
	SO2	0.9300 LB/MMBTU	6 BOILERS OPER.	
		1.4400 LB/MMBTU	<4 BOILERS OPER.	
	NOX	0.5000 LB/MMBTU		
		0.7000 LB/MMBTU	COAL ONLY	

NOTES -----
 REFUSE MUST COMPRISE AT LEAST 50% OF THE TOTAL HEAT INPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1993

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 205.68 MMBTU/H

COMPANY NAME/SITE LOCATION DEGUSSA CHEM CORP.
THEODORE INDUSTRIAL PARK THEODORE, AL MOBILE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AL 072 DATE OF PERMIT ISSUANCE-- 04/07/81
DETERMINATION MADE BY ALABAMA APCD ESTIMATED DATE OF START-UP-- 1982
(AGENCY) SUE ROBERTSON (205)-834-6570
(AGENCY CONTACT PERSON) (PHONE)

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

HEAT BOILER, FUEL OIL, NATURAL * 205.68 MMBTU/H
SO2 1.2000 LB/MMBTU BACT
PM 0.1000 LB/MMBTU BACT
NOX 0.4000 LB/MMBTU BACT
BOILER DESIGN & OPERATION

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---

 EXTERNAL COMBUSTION - MULTIPLE FUELS

 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 IKRAM HABIB DATE OF PERMIT ISSUANCE--
 (AGENCY) (AGENCY CONTACT PERSON) (216)-664-3508 ESTIMATED DATE OF START-UP-- 1982
 (PHONE)

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

 BOILER 3.12 MMBTU/H PM 0.1690 LB/H 0.0540 LB/MMBTU 95.00
 WET SCRUBBER

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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 3600.00 MBTU/H

COMPANY NAME/SITE LOCATION FLORIDA POWER & LIGHT BARWICK ROAD SANFORD, FL 32771 VOLUSIA COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 02/20/80
 PERMIT NO. FL-047 ESTIMATED DATE OF START-UP-- 1980
 DETERMINATION MADE BY FLORIDA DER ED PALAGYI (904)-488-1344
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

COAL PULVERIZERS 96000.00 LB/H PM 7.7000 LB/H NSPS
 11.0900 T/YR BAGHOUSE 99.96

NOTES -----
 TEST FACILITY - 50/50 COAL/OIL FIRED UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 691.00 MMBTU/H

COMPANY NAME/SITE LOCATION GILMAN PAPER CO.
MILL AT ST. MARYS ST. MARYS, GA 31558 CAMDEN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. GA-071
DETERMINATION MADE BY GEORGIA EPD
(AGENCY) BILL MITCHELL
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 06/29/81
ESTIMATED DATE OF START-UP--
(404)-656-6900
(PHONE)

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

BOILER, COAL/WOODWASTE 587.00 MMBTU/H PM 0.1000 LB/MMBTU ESP 90.00
S02 1.2000 LB/MMBTU WET SCRUBBER

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 4457.00 MMBTU/H

COMPANY NAME/SITE LOCATION GULF STATES UTILITY WEST LAKE, LA, CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/24/81
 PERMIT NO. (REGION FILE NO.) PSD-LA-305 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
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TURBINE	1390.00 MMBTU/H	NOX	0.2700 LB/MMBTU OIL 0.2700 LB/MMBTU GAS	NSPS		
		CO	STEAM INJECTION	60.00 BACT		
			0.1300 LB/MMBTU OIL 0.0900 LB/MMBTU GAS			
		SO2	EFFICIENT COMBUSTION	BACT		
			0.6800 LB/MMBTU OIL 0.0010 LB/MMBTU GAS			
		PM	LOW SULFUR FUEL (.7%)	BACT		
			0.2100 LB/MMBTU OIL 0.0010 LB/MMBTU GAS			
		COAL GASIFIER	75.34 T/H COAL		EFFICIENT COMBUSTION (.5% ASH)	
				NOX	0.0300 LB/T	BACT
				CO	EXISTING INTERNAL CONTROLS	BACT
0.6900 LB/T						
SO2	EXISTING INTERNAL CONTROLS			BACT		
	0.1000 LB/T					
PM	EXISTING INTERNAL CONTROLS			BACT		
	0.0300 LB/T					
	EXISTING INTERNAL CONTROLS					

(CONTINUED) GULF STATES UTILITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	1706.00 MMBTU/H	NOX	0.1900 LB/MMBTU COAL GAS	BACT
			0.3000 LB/MMBTU OIL	
		CO	LOW BTU COAL GAS AS FUEL	56.00 BACT
			0.0080 LB/MMBTU COAL GAS	
			0.0300 LB/MMBTU OIL	
		SO2	LOW BTU COAL GAS AS FUEL	BACT
			0.6200 LB/MMBTU COAL GAS	
			0.6600 LB/MMBTU OIL	
		PM	LOW BTU COAL GAS AS FUEL	BACT
			0.0300 LB/MMBTU COAL GAS	
			0.0100 LB/MMBTU OIL	
			LOW BTU COAL GAS AS FUEL	
COAL GASIFIER	53.65 T/H COAL	NOX	0.0100 LB/T	BACT
			RECYCLE PROCESS GAS	
		CO	0.0100 LB/T	BACT
		SO2	EFFICIENT COMBUSTION	BACT
			0.1900 LB/T	
		PM	TAIL GAS FLARE	BACT
			0.0100 LB/T	
			NORE	
TURBINE	1361.00 MMBTU/H	NOX	0.2500 LB/MMBTU	NSPS
			STEAM INJECTION	
		CO	0.0900 LB/MMBTU	BACT
		SO2	EFFICIENT COMBUSTION	BACT
			0.2100 LB/MMBTU	
			LOW SULFUR FUEL (.7%)	
		PM	0.0010 LB/MMBTU	BACT
			COAL GAS SLOW ASH FUEL (.5%)	
COAL DELIVERY		PM	0.0800 LB/H	BACT
			WETTING	

(CONTINUED) GULF STATES UTILITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRUSHING/SCREENING		PM	0.1400 LB/H BAGHOUSE	BACT
PULVERIZING		PM	0.0800 LB/H BAGHOUSE	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

EXTERNAL COMBUSTION - MULTIPLE FUELS

442.00 MMBTU/H

COMPANY NAME/SITE LOCATION HARNEY ELECT.

HINES, OR

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-X81-12
 DETERMINATION MADE BY EPA REGION X
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 08/14/81
 ESTIMATED DATE OF START-UP--
 (206)-442-1193
 (PHONE)

PAUL BOYS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

BOILERS, 2

221.00 MMBTU/H EA

SO2

0.1800 LB/MMBTU

BACT

NOX

0.5000 LB/MMBTU

85.00
 BACT

DRY SCRUBBING
 DRY COMBUSTION CONTROLS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 154

ID NUMBER OR-0001

SOURCE TYPE CODE 1-5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 2360.00 T/D

COMPANY NAME/SITE LOCATION HOOKER ENERGY CORP. NIAGARA FALLS, NY NIAGARA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 07/23/81
 PERMIT NO. NONE ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY EPA REGION II BARRY TORNICK (212)-264-9579
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

RDF/COAL FIRED BOILERS 2360.00 T/D REFUSE

S02	1.2000 LB/MMBTU COAL	
	0.8000 LB/MMBTU OIL	
NOX	0.7000 LB/MMBTU COAL	CONTRL METHOD: FUEL S CONTENT
	0.3000 LB/MMBTU OIL	
PM	0.1000 LB/MMBTU COAL	CONTRL METHOD: TEMP & E.A.
	0.0700 LB/MMBTU OIL	
PM	0.0300 GR/DSCF REFUSE	
VE	20.0000 % OPACITY COAL	BACT
	20.0000 % OPACITY OIL	
VE	20.0000 % OPACITY REFUSE	BACT

NOTES -----
 COAL USE LIMITED TO 30 DAYS PER YEAR. COMBUSTION FUEL EMISSION LIMITS INTERPOLATED BASED ON FUEL MIXTURE RATIO.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 237.00 MMBTU/H

COMPANY NAME/SITE LOCATION PHILIP MORRIS CHESTER, VA CHESTERFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 05/20/81
 PERMIT NO. 80VA06 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY VIRGINIA SAPCB (804)-786-4867
 (AGENCY) (PHONE)
 PAUL PITTS
 (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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BOILER, COAL/OIL FIRED	237.00 MMBTU/H	PM	0.1000 LB/MMBTU ESP	BACT 99.60
		NO2	0.7000 LB/MMBTU	BACT
		VE	20.0000 % OPACITY	BACT
		SO2	2.1000 LB/MMBTU COAL 2.5100 LB/MMBTU OIL 1.2% SULFUR COAL	BACT

NOTES -----
 WHEN BURNING A MIXTURE OF COAL AND OIL, THE SO2 LIMIT SHALL BE DETERMINED USING THE FORMULA: $E(SO_2) = [2.51(X) + 2.1(Y)]/100 M$
 HERE X = % HEAT INPUT FROM OIL AND Y = % HEAT INPUT FROM COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 700.00 MM

COMPANY NAME/SITE LOCATION POWER AUTHORITY STATE OF NEW YORK STATEN, NY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/22/82
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1987
 DETERMINATION MADE BY EPA REGION II DENNIS SANTELLA
 (AGENCY) (AGENCY CONTACT PERSON) (212)-264-9628
 (PHONE)

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

BOILER 6700.00 MMBTU/H

PM 0.0210 LB/MMBTU COAL BACT
 0.0300 LB/MMBTU COAL/ROF BACT
 PM 0.0120 LB/MMBTU OIL BACT
 VE 20.0000 % OPACITY 92.00
 SO2 0.4000 LB/MMBTU BACT
 FGD
 NOX 0.6000 LB/MMBTU COAL
 0.3000 LB/MMBTU OIL BACT
 CO 0.0410 LB/MMBTU
 GOOD COMBUSTION
 GOOD COMBUSTION BACT

AUX. BOILER 220.00 MMBTU/H

PM 0.0840 LB/MMBTU
 GOOD COMBUSTION
 SO2 0.3000 % S FUEL SIP
 NOX 0.3000 LB/MMBTU
 COA* USE OF PRE-WASHED COAL BACT

COAL HANDLING

(CONTINUED) POWER AUTHORITY STATE OF NEW YORK

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CRUSHED		PM	0.0300 GR/DSCF	
		VE	20.0000 % OPACITY	BACT
COOLING TOWER		PM	0.0020 % OF H2O FLOW DRIFT ELIMINATOR	

NOTES -----
CONTACT REGION 2 FOR DESIGN SPECIFICS FOR CONTROL DEVICES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS

COMPANY NAME/SITE LOCATION STONE CONTAINER CORP.

COSHOCOTON, OH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. EPA-5-A-81-3

DETERMINATION MADE BY SE OHIO

(AGENCY)

GLEN GREENWOOD

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/23/81

ESTIMATED DATE OF START-UP-- 1983

(614)-385-8501

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, WOOD/GAS

609.00 MBTU/H

PM

0.0600 LB/MBTU

MULTICLONE & VENTURI SCRUBBER

98.50

SO2

0.0200 LB/MBTU

CO

0.2000 LB/MBTU

VOC

0.0200 LB/MBTU

NOX

0.3800 LB/MBTU

NOTES

BOILER BURNS WOOD WASTE OR NATURAL GAS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 659.00 MMBTU/H

COMPANY NAME/SITE LOCATION THE CHESAPEAKE CORP. WEST POINT, VA KING WILLIAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/07/80
 PERMIT NO. 80VA03 EPA REGION III ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY BOB BLASZCZAK (215)-597-8186
 (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, WOODWASTE	659.00 MMBTU/H	PM	0.1000 LB/MMBTU MULTIPLE CYCLONE & ESP	NSPS 98.60 NSPS
		SO2	0.8000 LB/MMBTU LOW SULFUR FUEL	NSPS
		NOX	0.3000 LB/MMBTU GOOD DESIGN AND OPERATION	NSPS
		CO	0.2300 LB/MMBTU GOOD DESIGN AND OPERATION	NSPS
		VOC	0.2300 LB/MMBTU GOOD DESIGN AND OPERATION	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 1055.00 MBTU/H

COMPANY NAME/SITE LOCATION UNION CAMP CORP.
P.O. BOX 570
SAVANNAH, GA 31402
CHATHAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-GA-062
DETERMINATION MADE BY GEORGIA EPD
(AGENCY)
BILL MITCHELL
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/01/80
ESTIMATED DATE OF START-UP--
(404)-656-6800
(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/WOOD WASTE	1055.00 MBTU/H	PM	0.0750 LB/MBTU ESP	BACT 99.50 NSPS
		SO2	1.2000 LB/MBTU	
		NOX	0.7000 LB/MBTU LOW SULFUR FUEL BOILER DESIGN	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 195.00 MMBTU/H

COMPANY NAME/SITE LOCATION ATLANTIC SUGAR ASSOC. PALM BEACH, FL 33430 PALM BEACH COUNTY
P.O. DRAWER B

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/06/81
PERMIT NO. (REGION FILE NO.) AC50-42389 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY FLORIDA DER (904)-488-1344
(AGENCY) (AGENCY) (PHONE)
BOB KING
(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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BOILER, BAGASSE	54681.00 LB/H BAGASSE	PM	0.1500 LB/MMBTU INPUT JOY TURBULAIRE MODIFIED	BACT 92.00
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BOILER, NO. 6 OIL	3.13 BBL/H #6 OIL	SO2	1.0000 % S OIL FUEL ANALYSIS	BACT
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		VOC	LAER DETERMINATION SEE NOTE	
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BOILER, BAGASSE	54681.00 LB/H BAGASSE	PM	0.1500 LB/MMBTU INPUT IMPINGER-SCRUB SIZE 90 TYPE D	BACT
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		VOC	2.0000 LB/T BAGASSE FIRED	SCC
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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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 51.20 MMBTU/H

COMPANY NAME/SITE LOCATION CENTRAL SOYA MARION, OH

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/09/79
 PERMIT NO. 03-779 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY OHIO EPA - NMD (419)-352-8461
 (AGENCY) (PHONE)
 SAMIR ARAJ
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER FARRAR, TX LIMESTONE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-371
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 JOHN BUNYAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/10/81
 ESTIMATED DATE OF START-UP-- 1985
 (214)-767-1594
 (PHONE)

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

BOILER, LIGNITE-FIRED, 2 EA	7863.00 MMBTU/H	PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS	99.95
		SO2				
		NOX	0.6000 LB/MMBTU	FLUE GAS DESULFURIZATION	82.00	NSPS
		CO	0.1100 LB/MMBTU	TANGENTIAL FIRING, LOW NOX BURNER	BACT	
		VOC	0.0010 LB/MMBTU	CONTROLLED COMB. & O2 MON.	BACT	
		PB	0.0000 LB/MMBTU	BOILER DESIGN	BACT	
		HG	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	98.00	BACT
		BE	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	13.00	BACT
		H2S*	0.0310 LB/MMBTU	FLUE GAS DESULFURIZATION	99.40	BACT
				MIST ELIMINATOR		
LIMESTONE RAILCAR UNLOAD		PM	1.3300 LB/H	WET SUPPRESSION	BACT	

(CONTINUED) HOUSTON LIGHTING & POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE RECLAIM & TRANSFER		PM	0.0500 LB/H BAGHOUSE	BACT 99.80
LIMESTONE LOADOUT		PM	0.0200 LB/H BAGHOUSE	BACT 99.80
LIMESTONE STORAGE PILE		PM	0.3700 LB/H TELESCOPIC CHUTE	BACT
LIMESTONE RECLAIM TUNNEL		PM	0.0200 LB/H BAGHOUSE	BACT 99.80
LIMESTONE FEED SILO, 3 EA		PM	0.0100 LB/H BAGHOUSE	BACT 99.80
FLYASH SILO		PM	0.1200 LB/H BAGHOUSE	BACT 99.80
FEED SILO, WASTE BLENDING		PM	0.1200 LB/H BAGHOUSE	BACT 99.80
PUGMILL, WASTE BLENDING		PM	0.2100 LB/H BAGHOUSE	BACT 99.80

NOTES -----

PM LIMIT TO BE COMPUTED BY APPLICANT USING GRAPH DERIVED FROM NSPS (CONSIDER CONTROL EFFICIENCY AND FUEL SULFUR CONTENT). SULFURIC ACID MIST LIMIT APPLIES WHEN FIRING LIGNITE WITH UP TO 1.71 LB/MMBTU. OTHERWISE, 0.075 LB/MMBTU WHEN FIRING LIGNITE WITH MORE THAN 1.71 LB/MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 2010.00 T/D
 COMPANY NAME/SITE LOCATION METROPOLITAN SERVICE DISTRICT OREGON CITY, OR

DETERMINATION IS B/L FOR A NEW SOURCE.
 PERMIT NO. 03-2667
 DETERMINATION MADE BY OREGON DEQ (AGENCY)
 LLOYD KOSTOW (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP--
 (503)-229-5186 (PHONE)

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

BOILERS, 3	2010.00 T/D		PM	0.0150 GR/DSCF	BAGHOUSE	LAER
			VOC	0.1200 LB/T		99.90 BACT
			SO2	0.5730 LB/T	GOOD COMBUSTION	BACT
			NOX	3.5800 LB/T	DRY SCRUBBER	80.00 BACT
			HG	0.0025 LB/T		BACT
			CO	1.4300 LB/T	BAGHOUSE	BACT
			PB	0.0075 LB/T	GOOD COMBUSTION	BACT
			FLU*	0.0170 LB/T	BAGHOUSE	BACT
			HCL	0.6690 LB/T	DRY SCRUBBER	70.00 BACT
			TET*	0.0000 LB/T	DRY SCRUBBER	90.00 BACT
					BAGHOUSE	BACT
					GOOD COMBUSTION	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

THE FINAL PERMIT WAS NOT ISSUED BECAUSE APPLICATION WAS WITHDRAWN FOLLOWING DEFEAT OF THE PROJECT BY VOTE ON INITIATIVE. LIMIT ARE BASED ON PROPOSED PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 167

ID NUMBER OR-0003

SOURCE TYPE CODE 1.6

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 80.00 MW

COMPANY NAME/SITE LOCATION OCCIDENTAL GEOTHERMAL - OXY #1 , CA LAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. NSR-4-4-1 NC-81-03
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY) MATT HABER
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 05/10/82
 ESTIMATED DATE OF START-UP--
 (415)-974-8209
 (PHONE)

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

POWER PLANT 80.00 MW H2S 8.0000 LB/H STRETFORD PROC.,H2O2 TREAT., DESIGN 99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---- EXTERNAL COMBUSTION - OTHER 288.00 MMBTU/H

COMPANY NAME/SITE LOCATION OSCEOLA FARMS CO. PALM BEACH COUNTY
EAST OF PAHOKEE US-98 PAHOKEE, FL 33476

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 11/12/81
PERMIT NO. FL-0012 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY FLORIDA DER (904)-488-1344
(AGENCY) (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, BAGASSE	80000.00 LB/H BAGASSE	PM	0.1500 LB/MMBTU INPUT WET SCRUBBER JOY TYPE D TURBULAIRE	BACT 93.90
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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	30.0000 % OPACITY LAER DETERMINATION - SEE NOTE 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 SU
PLEMENTARY 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER

COMPANY NAME/SITE LOCATION PACIFIC GAS & ELECTRIC CO., GEYSERS UNIT* , CA SONOMA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 07/27/82
 PERMIT NO. (REGION FILE NO.) NSR-4-4-3 SSB-81-03 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX (415)-974-8209
 (AGENCY) MATT HABER (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT	2.00 MMLB/H STEAM	H2S	10.4000 LB/H STRETFORD PROCESS & CATALYST SYS	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 240000.00 LB/H

COMPANY NAME/SITE LOCATION SUGAR CANE GROWERS COOP. BELLE GLADE, FL 33430 PALM BEACH COUNTY
P.O. BOX 666

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/28/81
PERMIT NO. (REGION FILE NO.) PSD-FL-077 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY FLORIDA DER (904)-488-1344
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

BOB KING
(AGENCY CONTACT PERSON)

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

BOILER, BAGASSE/RESIDUE, #6 CON* 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 326.0000 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, #6 OIL 240000.00 LB/H STEAM

PM	0.1000 LB/MMBTU	SCRUBBER	BACT
SO2	1.0000 % S OIL	FUEL FLOW	90.00 BACT
VOC	OIL CONSUM. NOT OVER 42 BBL/H	SEE NOTE	LAER
VE	30.0000 % OPACITY		BACT

COMBUSTION
SEE NOTE

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 SEASON'L. VOC 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION TEXAS UTILITIES GEN CO. FRANKLIN, TX ROBERTSON COUNTY
TWIN OAKS STATION

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/22/77
PERMIT NO. PSD-TX-32 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 EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

LIGNITE FIRED STEAM 1500.00 MW
SO2 1.2000 LB/MMBTU 71.90
PM 0.1000 LB/MMBTU 99.50
FGD
ESP

NOTES -----
LIGNITE-FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION TEXAS UTILITIES SERVICE, INC. KOSSE, TX 76653 LIMESTON COUNTY
OAK KNOLL STATION

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/09/78
PERMIT NO. PSD-TX-47 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 EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
TO THIS PERMIT EMITTED ... PCT EFF

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS
LIGNITE FIRED STEAM	1500.00 MW	S02	1.2000 LB/MMBTU	FGD	74.00
		PM	0.1000 LB/MMBTU	ESP	90.00

NOTES -----
LIGNITE FIRED

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 792.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS UTILITIES SERVICE, INC. HENDERSON, TX RUSK COUNTY
MILL CREEK

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/17/78
PERMIT NO. PSC-TX-44 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) JOE WINKLER (PHONE)
(AGENCY CONTACT PERSON)

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

LIGNITE FIRED STEAM ELECT. 750.00 MW SO2 1.2000 LB/MMBTU 89.70
FGD
PM 0.1000 LB/MMBTU 99.44
ESP

NOTES -----
EMISSIONS ARE BASED ON 1.06 LB/MMBTU SO2, 0.1 LB/MMBTU PART., AND 0.6 LB/HR NOX. LOWER EMISSIONS MAY BE REQUIRED.

LIGNITE FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

EXTERNAL COMBUSTION - OTHER

2250.00 T/D

PECKSKILL, NY

WESTCHESTER COUNTY RESOURCE RECOVERY

DATE OF PERMIT ISSUANCE-- 02/22/82
ESTIMATED DATE OF START-UP-- 1985
(212)-264-9579
(PHONE)

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION II
(AGENCY)BARRY TORNICK
(AGENCY CONTACT PERSON)

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

INCINERATORS, REFUSE FIRED, MAT* 750.00 T/D

PM	0.0300 GR/DSCF ESP	AT 12% CO	BACT 98.50
CO	0.6200 LB/T REFUSE DESIGN, HIGH XS AIR, GOOD COMBUSTION		BACT
NOX	3.0000 LB/T REFUSE DESIGN, PROPER OPERATION		BACT
SO2 PB	0.0300 GR/DSCF ESP	AT 12% CO	BACT 98.50
HG	0.0300 GR/DSCF ESP	AT 12% CO	BACT 98.50
BE	0.0300 GR/DSCF ESP	AT 12% CO	BACT 98.50
ASB*	0.0300 GR/DSCF ESP	AT 12% CO	BACT 98.50

NOTES -----

(*) INDICATES JATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 176

ID NUMBER NY-0008

SOURCE TYPE CODE 1.6

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1800.00 T/D RDF

COMPANY NAME/SITE LOCATION ENERGY ANSWERS CORP. ROCHESTER, MA
SEMASS PROJECT

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/15/82
PERMIT NO. 025-120HA14 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION I (617)-223-4448
(AGENCY) JOHN COURCIER (PHONE)
(AGENCY CONTACT PERSON)

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

BOILER, WATER-COOLED, 3 EA. 600.00 T/D RDF EA
PM 0.0500 GR/DSCF 12% CO2 BACT
ESP, 3-STAGE 96.00
SO2 0.3000 % S OIL BACT
0.2300 LB/MMBTU
LOW S #2 FUEL OIL/LOW S RDF
NOX 0.5000 LB/MMBTU BACT
BOILER DESIGN

NOTES -----
ALL BACT LIMITS WERE DETERMINED SIMPLY BY TECHNOLOGY AVAILABLE AND THE ECONOMIC IMPACTS OF OTHER CONTROLS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1000.00 T/D

COMPANY NAME/SITE LOCATION MCKAY BAY REFUSE-TO-ENERGY PROJECT TAMPA, FL 33602

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/25/82
 PERMIT NO. AC 89-47277 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY FLORIDA DER JOHN SVEC (904)-488-1344
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

MASS BURN FURNACES 1000.00 T/D WASTE PM 0.0250 GR/DSCF AT 12% O2 LAER
 VE ESP 99.00
 CONTINUOUS OPACITY MONITOR

NOTES -----
 CONTINUOUS OPACITY MONITOR LIMITS TO BE DETERMINED DURING PERFORMANCE TESTING. FACILITY TO INCLUDE WASTE HEAT BOILERS AND TURBINE ELECTRICAL GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1000.00 T/D
 COMPANY NAME/SITE LOCATION MCKAY BAY REFUSE-TO-ENERGY PROJECT TAMPA, FL 33602

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD FL-086
 DETERMINATION MADE BY FLORIDA DER
 (AGENCY)
 JOHN SVEC
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 07/02/82
 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

MASS BURN FURNACES 1000.00 T/D WASTE
 SO2 170.0000 LB/H LOW SULFUR FUEL
 NOX 300.0000 LB/H COMBUSTION TECHNIQUE
 VOC 9.0000 LB/H COMBUSTION TECHNIQUE
 PB 3.1000 LB/H ESP 98.00
 FLU* 6.0000 LB/H NONE
 HG 0.6000 LB/H ESP
 BE 5.0000 G/D ESP 98.00

NOTES -----
 FACILITY DESIGN ALLOWS FOR FUTURE INSTALLATION OF A SCRUBBER SYSTEM; NSPS APPLIES TO THIS FACILITY. FURNACES-FOUR 250 TPD USIN
 G VOLUMID TECHNOLOGY, WASTE HEAT BOILERS & TURBINE GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 600.00 T/D

COMPANY NAME/SITE LOCATION MUNICIPAL INCINERATOR PULASKI HWY BALTIMORE, MD 21237 BALTIMORE CITY COUNTY
PULASKI HIGHWAY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/25/80
PERMIT NO. 78MD-09 ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY EPA REGION III ED VOLLBERG
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

MUNICIPAL INCINERATOR	600.00 T/D MSW	PM	0.0300 GR/DSCF 81.6000 T/YR	SIP
			ESP	98.00 BACT
		SO2	35.1000 PPH 154.0000 T/YR	
			PROPER COMBUSTION TECHNIQUES	
		CO	30.0000 PPH 127.0000 T/YR	BACT
			PROPER COMBUSTION TECHNIQUES	
		VOC	1.3000 PPH 5.5000 T/YR	BACT
			PROPER COMBUSTION TECHNIQUES	
		NOX	2.6000 PPH 11.4000 T/YR	BACT
			PROPER COMBUSTION TECHNIQUES	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 62.50 T/H WASTE

COMPANY NAME/SITE LOCATION NESMC RESOURCE RECOVERY FACILITY NORTH ANDOVER, MA

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 029-121MA16
 DETERMINATION MADE BY EPA REGION I
 (AGENCY) JOHN COURCIER
 (AGENCY CONTACT PERSON) (617)-223-4448
 (PHONE)
 DATE OF PERMIT ISSUANCE-- 05/27/82
 ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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STEAM GENERATING UNITS, 2 INCIN* 750.00 T/D EA, WAS*

PM	0.0500	GR/DSCF AT 12% CO2 ESP	B/S
SO2	0.3400	LB/MMBTU	98.66 BACT
NOX	0.3200	LOW S FUEL - 0.3% S #2 OIL LB/MMBTU	BACT
CO	0.0700	INCINERATOR DESIGN LB/MMBTU	BACT
SOX	0.0200	INCINERATOR DESIGN LB/MMBTU	99.00 BACT
		INCINERATOR DESIGN	BACT
		0.1550 LB/MMBTU	BACT
		BOILER DESIGN	BACT
		0.0350 LB/MMBTU	98.00 BACT
		BOILER DESIGN	BACT
		0.0200 LB/MMBTU	B/S
		BOILER DESIGN	BACT
PM	0.1000	LB/MMBTU	
SO2	0.3400	LOW S FUEL - 0.3% S #2 OIL LB/MMBTU	

AUXILIARY BOILER, 1 19.60 MMBTU/HR

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

LIMITS ARE REDUCTION OVER AP-42 EMISSIONS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
===== ID NUMBER MA-0004 SOURCE TYPE CODE 2.1
=====

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 2010.00 T/D 3 UNITS

COMPANY NAME/SITE LOCATION N.E. MARYLAND WASTE DISPOSAL AUTHORITY BALTIMORE, MD 21230 BALTIMORE CITY COUNTY
1801 OLD ANNAPOLIS ROAD

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81MD01 DATE OF PERMIT ISSUANCE-- 09/10/81
DETERMINATION MADE BY EPA REGION III ESTIMATED DATE OF START-UP-- 1984
(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
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WATER WALL, 3 EA INCINERATOR	2010.00 T/D	SO2	335.0000 LB/H 1259.0000 T/YR	BACT
		CO	109.0000 LB/H 406.0000 T/YR	BACT
		NOX	227.0000 LB/H 999.0000 T/YR	BACT
		FLU*	4.2000 LB/H 15.7000 T/YR	BACT

NOTES -----
MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE PERFORMED LAER ANALYSIS FOR PARTICULATE MATTER. 0.019 GR/DSCF CORRECTED TO 12% CO
IS BEING CONSIDERED (ESP).
EMISSION RATES BASED ON REFUSE CHARACTERISTICS. PERMITTEE IS TO PROVIDE PROCEDURES TO ENSURE ACCEPTABLE WASTE BEFORE OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 100.00 T/D SOLID WASTE

COMPANY NAME/SITE LOCATION REDDY CREEK IMPROVEMENT DIST LAKE BUENA VISTA, FL 32830 ORANGE COUNTY
P.O. BOX 36

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 02/11/81
PERMIT NO. PSD-FL-044 ESTIMATED DATE OF START-UP-- 1983
DETERMINATION MADE BY ED PALAGYI (904)-488-1344
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

SLAGGING PYROLYSIS INCIN. 100.00 T/D CO 2.2600 LB/MMBTU BACT
91.2000 LB/H
FLUE GAS MONITORING SYS.

NOTES -----

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 960.00 T/D RDF

COMPANY NAME/SITE LOCATION REFUSE FUELS, INC. LAURENCE, MA

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/23/81
 PERMIT NO. 023-121MA12 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY EPA REGION I JOHN COURCIER (617)-223-4448
 (AGENCY) (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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FURNACE, WATER WALL, BALANCED DR*	960.00 T/D RDF	PM	0.0250 GR/DSCF ESP, 5-FIELD, IN SERIES	LAER 98.00 BACT
		SO2	0.8000 % S OIL 1.2000 LB/MMBTU RDF	
		NO2	LOW S #6 OIL/LOW S RDF 0.7000 LB/MMBTU RDF 0.3000 LB/MMBTU OIL BOILER DESIGN	BACT

NOTES -----
 LAER REQUIRED ON TSP FOR NONATTAINMENT AREA IN LAURENCE. BACT ON SO2 DETERMINED BY TECHNOLOGY AND ECONOMICS. BACT ON NO2 DETERMINED BY MEETING NSPS LIMITS FOR FOSSIL FUEL BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 75.00 T/D 2 EA

COMPANY NAME/SITE LOCATION RESOURCES AUTHORITY GALLATIN, TN SUMMER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/01/80
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY TENNESSEE APC NERVAT AHMED (615)-741-3651
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

BOILERS, 2 MUNICIPAL REFUSE BUR* 75.00 T/D EA PM 0.0400 GR/SCF NSPS
 SCRUB. & FABRIC FILTERS 99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION

COMPANY NAME/SITE LOCATION STEAM SUPPLY CORP.

TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. T82-90

DETERMINATION MADE BY

TULSA CITY-COUNTY HEALTH DEPT

(AGENCY)

JIM VAN SANDT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/16/82

ESTIMATED DATE OF START-UP-- 1985

(918)-744-1000

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

INCINERATORS, SOLID WASTE, 3 EA 230.00 T/D

PM 31.7000 LB/H

3 ESP'S, SEE NOTE #2

98.00

SO2 17.5000 LB/H

NOX 46.0000 LB/H

VOC 3.5000 LB/H

CO 54.6000 LB/H

HG 0.2000 LB/H

NOTES

RATES ARE TOTAL EMISSIONS. 1) SIC CODES 4931 & 4961 ARE ALSO INVOLVED BECAUSE STEAM & ELECTRICITY WILL BE SOLD TO INDUSTRY.

2) PERFORMANCE STANDARDS OF 10% AVG. OPACITY (PER CLOCK HOUR) & 0.06 GR/DSCF CORRECTED TO 12% CO HAVE BEEN IMPOSED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SEWAGE SLUDGE INCINERATION

COMPANY NAME/SITE LOCATION CITY OF L.A., HYPERION, BUREAU OF ENGIN* LOS ANGELES, CA
CITY HALL

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/30/82
PERMIT NO. (REGION FILE NO.) NSR-4-4-9 LA-82-02 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION IX RICK SUGAREK (415)-974-8224
(AGENCY) (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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GAS TURBINE, 4, DIGESTER GAS FI*	8.00 MW EA	SO2	20.0000 PPM DRY BASIS WET SCRUBBER	BACT 90.00
THERMAL PROCESSING WASTE HEAT R*		SO2	20.0000 PPM DRY BASIS 9.2000 LB/H 2 STAGE WET SCRUBBER/VENTURI SCRUB COUNTER CURRENT TRAY TOWER	BACT
		HG	0.2890 LB/H 2 STAGE WET SCRUBBER	BACT
		BE	0.0000 LB/H FABRIC FILTER/2 STAGE WET SCRUBBER	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION DELAWARE SOLID WASTE AUTHORITY

WILMINGTON, DE

NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 79DE02

DETERMINATION MADE BY EPA REGION III

(AGENCY)

BOB BLASZCZAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/14/80

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

AIR CLASSIFIER

PM 7.7000 LB/H

BAGHOUSE

BACT 99.90

AIR CLASSIFIER

PM 7.7000 LB/H

BACT

DUST CONTROL SYS

PM 5.2000 LB/H

BACT

GLASS RECOVERY

PM 6.2000 LB/H

BACT

AIR KNIFE

PM 3.8000 LB/H

BACT

SECONDARY AIR CLASSIFIER

PM 4.1000 LB/H

BACT

DRYER

PM 12.8000 LB/H

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 189

ID NUMBER DE-0003

SOURCE TYPE CODE 2.3

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION DELAWARE SOLID WASTE II

WILMINGTON, DE

NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 79DE02 II
DETERMINATION MADE BY

EPA REGION III
(AGENCY)

BOB BLASZCZAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/14/80
ESTIMATED DATE OF START-UP--
(215)-597-8186
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DRYER

PM 0.4800 LB/H

BACT

DRYER

PM 1.0400 LB/H

BACT

BOILER

PM 0.0100 LB/H

BACT

BOILER

PM 0.0200 LB/H

BACT

HEATER

PM 0.0010 LB/H

BACT

VENTS, 3

PM 1.6000 LB/H

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 190

ID NUMBER DE-0003A

SOURCE TYPE CODE 2.3

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 26.00 MW

COMPANY NAME/SITE LOCATION CHUGACH ELECTRIC ASSOCIATION, UNIT #4 BERNICE LAKE, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-X82-07
 DETERMINATION MADE BY EPA REGION X
 (AGENCY)
 PAUL BOYS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 08/06/82
 ESTIMATED DATE OF START-UP-- 1982
 (206)-442-1567
 (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 TURBINE	26.00 MW	NOX	130.0000 LB/H		
			569.0000 T/YR		
		PM	12.0000 LB/H		
			48.2000 T/YR		
LOW S COAL, DISTILLATE OIL BACKUP					

NOTES -----
 THE BACT NOX EMISSION LIMIT WAS BASED ON THE NSPS. THE BACT PM EMISSION WAS BASED ON THE USE OF #2 DISTILLATE OIL, HOWEVER, THE COMPANY PLANS TO USE NATURAL GAS AS THE PRIMARY FUEL. BECAUSE OF LIMITED BACKUP CAPACITY AT THAT LOCATION, THE COMPANY REQUESTED A PERMIT BASED ON 100% OIL USE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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=====
SOURCE TYPE/SIZE--- NATURAL GAS TURBINES
=====
COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS LAKE STATION, KS KEARNY COUNTY
=====
DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/19/82
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VII STEVE KOVAC (816)-374-6525
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)
=====
PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
=====
I.C. RECIP. ENGINES, GAS-FIRED,* 1475.00 HP EA NOX 760.0000 PPMV,15%O2 DRY BASIS
OPERATE AT MAX EFFICIENCY
=====

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NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION CROWN ZELLERBACH, INC.

ANTIOCH, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 28179

DETERMINATION MADE BY BAY AREA AQMD

(AGENCY)

DOUG WOLF

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/01/82

ESTIMATED DATE OF START-UP--

(415)-771-6000

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GAS TURBINE

32.00 MW

NOX

42.0000 PPM NO2 AT 15%O2

WATER/STEAM INJECTION

DUCT BURNER

145.00 MMBTU/H

NOX

68.0000 PPM NO2 AT 3%O2

LO-NOX DESIGN

NOTES -----
BURNING NATURAL GAS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 193

ID NUMBER CA-0044

SOURCE TYPE CODE

3.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION KILN-GAS R & D INC. WOOD RIVER, IL MADISON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE--
 PERMIT NO. 82 07 0021 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY ILLINOIS EPA CHRIS ROMAINE (217)-782-2113
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE		SO2	150.0000 PPM	NSPS
			PURIFICATION OF PRODUCT GAS	
		NOX	75.0000 PPM	NSPS
			PURIFICATION OF PRODUCT GAS	
		CO	290.0000 LB/H	
			EQUIPMENT DESIGN	

NOTES -----
 TURBINE IS TO BE USED IN A 3 YR EXPERIMENTAL PROGRAM IN ASSOCIATION WITH A 600 TON PER DAY COAL GASIFICATION DEMONSTRATION PROJECT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 400.00 MMBTU/H

COMPANY NAME/SITE LOCATION KISSIMMEE UTILITIES
P.O. BOX 1608 KISSIMMEE, FL 32741 OSCEOLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-FL-087 DATE OF PERMIT ISSUANCE-- 02/19/82
DETERMINATION MADE BY FLORIDA DER ESTIMATED DATE OF START-UP-- 1982
(AGENCY) TERESA HERON (904)-488-1344
(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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GAS TURBINE	400.00 MMBTU/H	NOX	129.0000 PPM	NSPS
			0.0075 LB/MMBTU	40.00 BACT
		S02	388.0000 FUEL	
		VE	#2 FUEL OIL, WITH <0.8% SULFUR	NSPS
		PM	20.0000 % OPACITY	BACT
			16.0000 LB/H	
			0.0362 LB/MMBTU	
			COMBUSTION CONTROL	

NOTES -----
EXHAUST GASES INTO A WASTE HEAT BOILER. TOTAL ELECTRIC POWER GENERATED BY SYSTEM IS 49.9 GROSS MEGAWATTS. NOX EMISSION LIMITS SET BY SUB. GG, 60.332(A)(1).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 73.50 MW

COMPANY NAME/SITE LOCATION NEVADA PWR CO., CLARK STATION UNIT #7 EAST LAS VEGAS, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) NV 78-02
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)
 JIM HANSON
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/01/79
 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
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GEN., GAS TURBINE	73.50 MW	NO2	0.3400 LB/MMBTU	
			WATER INJECTION	
		PM	0.0300 LB/MMBTU	
		CO	0.1200 LB/MMBTU	
		S02		
			0.25% S FUEL CONTENT	

NOTES
 REGENERATOR IS SUBJECT TO NSPS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

NATURAL GAS TURBINES

73.50 MW

COMPANY NAME/SITE LOCATION

NEVADA PWR CO., CLARK STATION UNIT #8

EAST LAS VEGAS, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NV 80-01
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/11/80
ESTIMATED DATE OF START-UP--
(415)-974-8213
(PHONE)

LARRY BOHERMAN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

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

GEN., COMBUSTION TURBINE

73.50 MW

NOX

0.3400 LB/MMBTU

NSPS

SO2

WATER INJECTION

BACT

0.25% S FUEL OIL

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 197

ID NUMBER NV-0005

SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES
 COMPANY NAME/SITE LOCATION NORTHERN NATURAL GAS CUNNINGHAM, KS
 DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 03/12/82
 DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP--
 (AGENCY) STEVE KOVAC (816)-374-6525
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 I.C. RECIP. ENGINES, DUAL FUEL,* 2250.00 HP EA NOX 60.0000 LB/H
 CO 15.0000 LB/H
 VOC 3.9000 LB/H

NOTES -----
 IN CONSIDERATION OF TEST RESULTS, THE CO EMISSION LIMIT WAS CHANGED FROM 9 TO 15 LB/H ON NOV. 29, 1982.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE CO. ELKHART STATION, KS MORTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 11/18/81
 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VII STEVE KOVAC (816)-374-6525
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

I.C. RECIP. ENGINES, GAS FIRED,* 3200.00 HP EA NOX 600.0000 PPMV,15%O2 DRY BASIS
 PRE-IGNITION CHAMBER

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---

NATURAL GAS TURBINES

303.00 MHP

COMPANY NAME/SITE LOCATION PRUDHOE BAY CONSORTIUM

PRUDHOE BAY, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-X81-01

DETERMINATION MADE BY EPA REGION X

(AGENCY)

DAVID TETTA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/29/81

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

TURBINES

303.00 MHP

NOX 150.0000 PPM

BACT

CO 1.0900 LB/MMSCF FUEL

BACT

PROPER COMBUSTION

HEATERS 250.00 MMBTU/H

NOX 0.0800 LB/MMBTU

BACT

LCH NOX BURNERS

CO 0.0100 LB/MMBTU

BACT

PROPER COMBUSTION

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 200

ID NUMBER AK-0004

SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 200.00 MM

COMPANY NAME/SITE LOCATION PUGET SOUND POWER & LIGHT FREDONIA, WA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/23/82
 PERMIT NO. PSD-X-82-09 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY EPA REGION X (206)-442-1567
 (AGENCY) (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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GAS TURBINE, 2	100.00 MM EA	NOX	480.0000 LB/H 2061.0000 T/YR	WATER INJECTION
		CO	185.0000 LB/H 645.0000 T/YR	
		SO2	640.0000 LB/H 154.0000 T/YR	
		PM	2.9000 LB/H 12.5000 T/YR	

NOTES -----
 THE NSPS LIMIT FOR NOX WAS THE BASIS FOR BACT. THE SO2 BACT LIMIT WAS BASED ON THE USE OF 0.5% S OIL.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 3200.00 HP

COMPANY NAME/SITE LOCATION SW GAS STORAGE CO., PANHANDLE EAST. PIP* , KS MEADE COUNTY
BROCHERS STATION

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 12/11/80
DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP--
(AGENCY) STEVE KOVAC (816)-374-6525
(AGENCY CONTACT PERSON) (PHONE)

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

ENGINES, NAT. GAS FIRED, 5 IC R* 3200.00 HP EA NOX 850.0000 PPM 15% O2 (D) BACT

NOTES
BORCHERS UNDERGROUND STORAGE FACILITY. (2-CYCLE, TURBO CHARGED ENGINES WITH STANDARD COMBUSTION CHAMBERS, DESIGNED TO OPERATE AT RELATIVELY LOW SPEED)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 18500.00 HP

COMPANY NAME/SITE LOCATION TEXAS EASTERN TRANSMISSION CO. DELMONT, PA WESTMORELAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/07/82
 PERMIT NO. 82PA02 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY EPA REGION III VERNON BUTLER
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

GAS TURBINE 18500.00 HP NOX 150.0000 PPM NATURAL GAS BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 39.10 MW

COMPANY NAME/SITE LOCATION VULCAN MATERIALS CO. WICHITA, KS SEDGWICK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/23/81
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VII (816)-374-6525
 (AGENCY) STEVE KOVAC (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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TURBINE, SIMPLE-CYCLE, NAT. GAS	39.10 MW	NOX	SEE NOTE STEAM INJECTION	BACT
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NOTES -----
 THE UNIT IS SUBJECT TO NSPS, SUBPART GG.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 BRAKE HP

COMPANY NAME/SITE LOCATION ALCONQUIN GAS TRANSMISSION CO. CROMWELL, CT

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/05/82
 PERMIT NO. 026-042CT01 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY EPA REGION I JOHN COURCIER
 (AGENCY) (AGENCY CONTACT PERSON) (617)-223-4448
 (PHONE)

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

ENGINE, TURBINE COMPRESSION 40.00 BHP NO2 0.0135 % BY VOL MANUFACTURER'S GUARANTEE BACT

NOTES -----
 NSPS USED AS GUIDE, BUT MODIFICATION WAS NOT SUBJECT TO NSPS. BACT BASED ON MANUFACTURER'S GUARANTEE. LIMIT MEASURED AT 15% O2 DRY BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 20.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, CHEYENNE NEAR ROCKPORT, CO WELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 09/12/80
 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
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2 ENGINES	5130.00 HP	NOX	39.2400 LB/H DESIGN	BACT
2 REC ENGINES	5130.00 HP	CO NOX	68.0000 LB/H DESIGN	BACT BACT
2 REC ENGINES	12000.00 HP	CO NOX	158.6000 LB/H DESIGN	BACT BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 20.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, DEERTRAIL , CO ELBERT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/24/80
 PERMIT NO. 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 EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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ENGINE	6000.00 HP	CO NOX	79.3000 LB/H DESIGN	BACT BACT
2 ENGINES	16000.00 HP	CO NOX	211.4000 LB/H DESIGN	BACT BACT
GEN. ENGINE	425.00 HP	CO NOX	10.2000 LB/H DESIGN	BACT BACT
HEATER	6.00 MMBTU/H	CO NOX	0.7600 LB/H	BACT BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 66.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, FLANK NEAR LA JUNTA, CO BACA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/24/80
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VIII (303)-837-3763
 (AGENCY) (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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H3 GLYCO REBOIL	8.00 MMBTU/H	NOX	8610.0000 SCFH	BACT
6 REC NG ENGS	13320.00 HP	NOX	83.1000 LB/H DESIGN	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 44.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, KIT CARSON NEAR EADS, CO CHEYENNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/12/80
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VIII JOHN DALE (303)-837-3763
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

ENGINE, OPR 370.00 HP NOX 8.9000 LB/H BACT
 DESIGN
 3 ENGINES 16000.00 HP CO BACT
 CO BACT
 NOX 211.4000 LB/H BACT
 DESIGN

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 34.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, TOTEM/LONG , CO ELBERT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 09/12/80
 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
4 ENGINES	1340.00 HP	CO NOX	53.1600 LB/H DESIGN	BACT BACT
6 ENGINES	2130.00 HP	CO		BACT
GENERATOR	370.00 HP	CO NOX	8.9000 LB/H	BACT BACT
2 HEATERS	16.00 MMBTU/H	CO NOX	2.5200 LB/H	BACT BACT
6 ENGINES	8550.00 HP	NOX	216.6000 LB/H DESIGN	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 60.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, WATKINS

NEAR WATKINS, CO

ADAMS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 09/12/80

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

ENGINE

1350.00 HP

CO

VOC

NOX

17.8400 LB/H

DESIGN

BACT

BACT

BACT

4 ENGINES

10800.00 HP

CO

VOC

NOX

142.7200 LB/H

DESIGN

BACT

BACT

BACT

5 ENGINES

30000.00 HP

CO

VOC

NOX

396.5000 LB/H

DESIGN

BACT

BACT

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 211

ID NUMBER CO-0006

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 1600.00 HP 2 EA

COMPANY NAME/SITE LOCATION CONSOLIDATED GAS SUPPLY CORP.
HASTINGS COMPRESSOR STATION , WV WETZEL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81WV01 DATE OF PERMIT ISSUANCE-- 09/14/81
DETERMINATION MADE BY EPA REGION III BOB BLASZCZAK ESTIMATED DATE OF START-UP-- 1982
(AGENCY) (AGENCY CONTACT PERSON) (215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE	1600.00 HP	NOX	7.3300 G/SEC NONE	BACT

NOTES -----
RELOCATION OF TWO 1600 HP. COOPER BESSEMER I.C. ENGINES. THIS RELOCATION WAS A MAJOR MODIFICATION TO THE COMPRESSOR STATION RELOCATING THE ENGINES. THE ENGINES WERE 16 YEARS OLD AND NATURAL GAS-FIRED. OPERATION LIMITED TO 5600 HRS./YR. CONSOLIDATED GAS SUPPLY CO. REQUESTED A MOD. OF PSD PERMIT FROM USEPA REGION 3 ON 01/11/83. MOD. OF PERMIT WOULD INVOLVE ALTER NATE METHOD OF OPER. OF COMPRESSOR ENGINES & AN INCREASE IN EMISSIONS OF NOX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION EL PASO NATURAL GAS CO., WASHINGTON RAN* WHITES CITY, NM

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NM-428

DETERMINATION MADE BY

AIR QUALITY BUREAU - NWEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982
(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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ENGINE, I.C. COMPRESSOR	4500.00 HP	NOX	2.4500 G/HP-H COOPER ENERGY SERVICES	
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ENGINE, I.C. COMPRESSOR	4500.00 HP	NOX	2.4500 G/HP-H COOPER ENERGY SERVICES	
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NOTES -----

STACK TEST PERFORMED ON THESE TWO ENGINES BUT NO REPORT RECIEVED YET.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION GETTY OIL CO.

SKELLYTOWN, TX

CARSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X3878

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

RANDY HAMILTON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/12/82
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

SUPERIOR 126TA 'CLEAN BURN' ENG* 2000.00 HP

NOX

77.2000 T/YR

CO

115.8000 T/YR

VOC

8.4000 T/YR

COMBUSTION CHAMBER MOD.

NOTES

2.0 G/HP-H NOX, 3.0 G/HP-H CO, 0.2 G/HP-H VOC

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION LLANO, INC. NEAR HOBBS, NM

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NM-477

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/22/82
ESTIMATED DATE OF START-UP-- 1982
(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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ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H NEW DESIGN	

NOTES -----
STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON TWO OF THE ABOVE MENTIONED FIVE ENGINES & THE ACTUAL EMISSIONS WERE 0.38 G/H P-H & 1.34 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 HP 2 EA

COMPANY NAME/SITE LOCATION MICHIGAN WISCONSIN PIPE LINE CO. CHARLTON TOWNSHIP, MI 49000 OTSEGO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 11/01/80
 PERMIT NO. 660-80 ESTIMATED DATE OF START-UP--
 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
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COMPRESSOR, NAT. GAS, 2 EA	4000.00 HP	NOX	12.3000 G/HP-H	COMBUSTION MODIFICATIONS
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NOTES -----
 2 NATURAL GAS COMPRESSORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 24.00 MHP

COMPANY NAME/SITE LOCATION MTN FUEL RESOURCES-KASTLER , UT DAGGETT COUNTY

DETERMINATION IS PERMIT NO. DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 11/25/81 ESTIMATED DATE OF START-UP-- (303)-837-3763 (PHONE)

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

4 COMP UNIT 10400.00 HP CO 228.0000 LB/H DESIGN BACT VOC BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 1669.00 HP

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE CO. , KS GRANT COUNTY
COGNAC STATION

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/28/80
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VII STEVE KOVAC (816)-374-6525
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

I.C. RECIP. ENGINE, UNIT#3 1669.00 HP NOX 700.0000 PPM 15% O2 (D) BACT
PRE-IGNITION CHAMBER

NOTES
IF CONSTRUCTION COMMENCES PRIOR TO JANUARY/1982, THE UNIT WILL NOT BE SUBJECT TO PROPOSED SUBPART FF OF THE NSPS REGS. THE PER
MIT, HOWEVER, INCORPORATES SEVERAL PROVISIONS OF PROPOSED SUBPART FF AS PERMIT CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 18.00 MHP

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE-FRED. , CO WELD COUNTY

DETERMINATION IS BACT PERMIT NO. DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 11/25/81 ESTIMATED DATE OF START-UP-- (303)-837-3763 (PHONE)

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

REC COMP ENG 4500.00 HP CO VOC NOX 5.5000 G/HP-H ENG MODS BACT BACT BACT 55.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 13746.00 HP

COMPANY NAME/SITE LOCATION PANHANDLE EAST., FT. LUPTON , CO WELD COUNTY

DETERMINATION IS BACT PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/29/80
 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 EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

REC COMP ENG, 3 2246.00 BRAKE HP EA NOX 55.0000 LB/H EA BACT
 ENG DESIGN & MODIFICATIONS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 2000.00 HP EA

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 2563 BIRMINGHAM, AL 35202 JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AL-055 DATE OF PERMIT ISSUANCE-- 01/29/80
DETERMINATION MADE BY ALABAMA APCD ESTIMATED DATE OF START-UP--
(AGENCY) (205)-834-6570
SUE ROBERTSON (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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VERT COMPRESSOR ENGINES, 3 EA	6000.00 HP	NOX	16.5000 GM/HP-H COMBUSTION CONTROL	BACT
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NOTES -----
THREE UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 68 GALLION, AL 36742 HALE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-AL-074 DATE OF PERMIT ISSUANCE-- 06/04/81
DETERMINATION MADE BY ALABAMA APCD ESTIMATED DATE OF START-UP-- 1982
(AGENCY) (AGENCY) SUE ROBERTSON (205)-834-6570
(AGENCY CONTACT PERSON) (PHONE)

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

VERTICAL COMPRESSOR ENGINE 4000.00 BRAKE HP NOX 15.0000 G/HP-H
EQUIPMENT OPERATION

NOTES -----
MANUFACTURER EMISSION TEST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 5000.00 BRAKE HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS P.O. BOX 67
ELMORE, AL 36025
ELMORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AL-075
DETERMINATION MADE BY ALABAMA AFCD
(AGENCY)
SUE ROBERTSON
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/04/81
ESTIMATED DATE OF START-UP-- 1982
(205)-834-6570
(PHONE)

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

VERTICAL COMPRESSOR ENGINE 5000.00 BRAKE HP
NOX 15.0000 G/HP-H
EQUIPMENT OPERATION
BACT

NOTES -----
MANUFACTURER EMISSION TEST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 15500.00 HP

COMPANY NAME/SITE LOCATION TENNESSEE GAS PIPELINE CO.

MARIONVILLE, PA

FOREST COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 27-399-001

DETERMINATION MADE BY PENNSYLVANIA BAQ, DER

(AGENCY)

WILLIAM CHARLTON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/01/83

ESTIMATED DATE OF START-UP-- 1983

(814)-724-8530

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GAS COMPRESSOR

15500.00 HP

NOX

PSD

LEAN BURN PROC./AIR-FUEL RATIO ADJUST.

NOTES

EXISTING CAPACITY IS 11500 HP. PROPOSED ADDITIONS ARE 4000 HP. TOTAL CAPACITY WILL BE 15500 HP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 224

ID NUMBER PA-0028

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., BITTER LAKE * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-274-M-2

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID

(AGENCY)

SHANKAR ANANTHAKRISHNA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/23/82

ESTIMATED DATE OF START-UP--

(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

1596.00 HP

NOX

4.0000 G/HP-H

LOW NOX ENGINE

NOTES -----

STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS - 2.96 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., BITTER LAKE * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-274-M-1

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID

(AGENCY)

SHANKAR ANANTHAKRISHNA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82

ESTIMATED DATE OF START-UP-- 1982

(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

1050.00 HP

NOX

5.0000 G/HP-H

LOW NOX ENGINE

NOTES -----

STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS - 2.42 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 226

ID NUMBER NM-0013

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., ISLER NO. 1 * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NM-464

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/08/82
ESTIMATED DATE OF START-UP-- 1982
(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

1588.00 HP

NOX

4.0000 G/HP-H
LOW NOX ENGINE

NOTES

STACK TEST PERFORMED, EPA REF. METHOD 20, -- RESULTS - 2.06 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 227

ID NUMBER NM-0014

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., KEMNITZ STAT* NEAR MALJAMAR, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-399-M-1

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID

(AGENCY)

SHANKAR ANANTHAKRISHNA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82

ESTIMATED DATE OF START-UP-- 1982

(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

1072.00 HP

NOX

5.0000 G/HP-H

LOW NOX ENGINE

NOTES -----

STACK TEST PERFORMED, EPA REF. METHOD 20, -- RESULTS - 4.15 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. NM-411-M-1
 DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID SHANKAR ANANTHAKRISHNA
 (AGENCY) (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 05/03/82
 ESTIMATED DATE OF START-UP-- 1982
 (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	1596.00 HP	NOX	4.0000 G/HP-H LOW NOX ENGINE	

NOTES -----
 STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 3.58 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-412-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID SHANKAR ANANTHAKRISHNA
(AGENCY) (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020
(PHONE)

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

ENGINE, I.C. COMPRESSOR 1073.00 HP
NOX 5.0000 G/HP-H
LOW NOX ENGINE

NOTES -----
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 2.4 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-413-M-1

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID

(AGENCY)

SHANKAR ANANTHAKRISHNA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82

ESTIMATED DATE OF START-UP-- 1982

(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

1588.00 HP

NOX

4.0000 G/HP-H

LOW NOX ENGINE

NOTES -----

STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 2.51 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 231

ID NUMBER NM-00108

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-414-M-1
DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(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

2647.00 HP

NOX

4.0000 G/HP-H
LOW NOX ENGINE

NOTES

STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 0.82 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSHESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-415-M-1

DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID

(AGENCY)

SHANKAR ANANTHAKRISHNA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82

ESTIMATED DATE OF START-UP-- 1982

(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

2585.00 HP

NOX

5.0000 G/HP-H

LOW NOX ENGINE

NOTES -----

STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 3.2 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 233

ID NUMBER NM-00100

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., MALJAMAR STAT* NEAR MALJAMAR, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NM-387-M-1

DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY)

SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(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

1073.00 HP

NOX

5.0000 G/HP-H

LOW NOX ENGINE

NOTES

STACK TEST PERFORMED, EPA RREF. METHOD 20, -- RESULTS - 3.93 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 3000.00 HP

COMPANY NAME/SITE LOCATION VALERO TRANSMISSION CO. OLD OCEAN, TX BRAZORIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/09/82
 PERMIT NO. X-3603 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY TEXAS ACB RANDY HAMILTON (512)-451-5711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

GAS COMPRESSORS, 3 1000.00 HP EA NOX 34.8000 T/YR
 CO 64.4000 T/YR
 VOC 0.7000 T/YR

NOTES -----
 GAS TURBINES INHERENTLY CLEAN-BURNING WITH RESPECT TO NOX EMISSIONS. EMISSIONS OF NOX BASED ON 1.2 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 540.00 MW

COMPANY NAME/SITE LOCATION CAJUN ELECT. POWER COOP. NEW ROADS, LA POINTE COUPE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/30/78
 PERMIT NO. (REGION FILE NO.) PSD-LA-062 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) JOHN BUNYAK (PHONE)
 (AGENCY CONTACT PERSON)

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

TURBINE, COAL FIRED 540.00 MW SO2 LOW SULFUR WESTERN COAL
 PM

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 6000.00 KW

COMPANY NAME/SITE LOCATION CITY OF AUGUSTA (MUNICIPAL ELECT. SYS, PLANT * AUGUSTA, KS BUTLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/29/81 ESTIMATED DATE OF START-UP-- (816)-374-6525 DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) (PHONE)

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

DUAL FUEL ENGINE, GEN. UNIT #10 6000.00 KW NOX 1150.0000 PPM 15% O2 (D) FUEL STANDARD FUEL OIL S CONTENT-0.7% BY WT. TEST NAAQ NAAQ

NOTES ----- THE UNIT WILL NOT BE SUBJECT TO PROPOSED SUBPART FF OF THE NSPS REGULATIONS, WHEN PROMULGATED. THE PERMIT, HOWEVER, INCORPORATES SEVERAL PROVISIONS (E.G., PERFORMANCE TEST PROCEDURES, MONITORING OF EMISSIONS, ETC.) OF PROPOSED SUBPART FF AS PER MIT CONDITIONS. TEST DATA USED TO SET NOX STANDARD.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 18611.00 HP

COMPANY NAME/SITE LOCATION CITY OF KINGMAN P.O. BOX 168 KINGMAN, KS 67068 KINGMAN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. DATE OF PERMIT ISSUANCE-- 03/01/83 ESTIMATED DATE OF START-UP-- 1983 DETERMINATION MADE BY CHARLES WHITMORE (816)-374-6525 (PHONE) (AGENCY CONTACT PERSON)

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

IC ENGINE, DUAL FUEL, UNIT 8 3495.00 HP NOX 1150.0000 PPMV, 15% O2, DRY EFFICIENT OPERATION OF THE UNIT BACT

NOTES THE UNIT, A COOPER-BESSEMER MODEL LSV-12-GOT, WAS PREVIOUSLY OPERATED SINCE 1963 BY ANOTHER MUNICIPAL UTILITY. TO ENSURE THAT SO2 EMISSIONS WILL NOT INCREASE BY A "SIGNIFICANT" AMOUNT, THE AMOUNT OF DISTILLATE FUEL OIL WHICH MAY BE COMBUSTED IS LIMITED TO 10% OF THE TOTAL ANNUAL HEAT INPUT FOR THE UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 16624.00 HP (TOTAL, TO BE AD*

COMPANY NAME/SITE LOCATION CITY OF OTTAWA OTTAWA, KS FRANKLIN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 12/02/80
 DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF START-UP-- 1980
 (AGENCY) STEVE KOVAC (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
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RECIP. ENGINES, 2 DUEL-FUEL IC,*	6000.00 KW EA	NOX SO2	1150.0000 PPM 15% O2 (D) FUEL STANDARD S IN FUEL LIM. TO 0.5% BY WT.	BACT
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NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 90.00 MM

COMPANY NAME/SITE LOCATION EMPIRE DIST. ELECT. CO. , MO LAWRENCE COUNTY
LARUSSELL STATION

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/07/81
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ (816)-374-6525
(AGENCY) (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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COMBUSTION TURBINE, SIMPLE-CYC,*	1056.00 MMBTU/H (MA*	NOX	230.0000 PPMV, 15% O2, (ISO)-STAND. DAY COND.	BACT
		CO	56.0000 LB/H	BACT
		SO2	21.0000 PPMV	
			FUEL STANDARD	
			SEE NOTE	

NOTES -----
THE UNIT IS NOT SUBJECT TO NSPS, SUBPART GG. THE % S CONTENT OF THE FUEL TO BE BURNED IN UNIT 2 IS LIMITED BY PERMIT CONDITION S TO 0.8%, BY WT. THE NOX AND CO/BACT LIMITS WERE DERIVED FROM INFO. PROVIDED BY THE TURBINE MANUFACTURER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 252.00 MW

COMPANY NAME/SITE LOCATION FLORIDA POWER AVON PARK, FL 33733 HIGHLANDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/21/81
 PERMIT NO. FL 017 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY FLORIDA DER (904)-488-1344
 (AGENCY) ED PALAGYI (PHONE)
 (AGENCY CONTACT PERSON)

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

TURBINE PEAKING UNITS, 4 EA	63.00 MW EA	SO2	379.0000 LB/H EA	BACT
			284.0000 T/YR	
			0.5% S FUEL OIL	
		NOX	250.0000 LB/H	NSPS
			187.0000 T/YR	
			WATER INJECTION	
		CO	86.0000 LB/H	BACT
			64.0000 T/YR	
			CONTROLLED COMBUSTION	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---- OTHER INTERNAL COMBUSTION 2672.00 MMBTU/H

COMPANY NAME/SITE LOCATION GULF STATES UTILITY 13 MI. S. BATON ROUGE BATON ROUGE, LA IBERVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. (REGION FILE NO.) PSD-LA-292 DATE OF PERMIT ISSUANCE-- 01/30/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
 (AGENCY) (214)-767-1594
 JOHN BUNYAK (PHONE)
 (AGENCY CONTACT PERSON)

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

COMBUSTION TURBINE(2)	1336.00 MMBTU/H	SO2	5.5000 LB/H 0.0040 LB/MMBTU GAS	NATURAL GAS FIRING	NSPS
		NOX	334.0000 LB/H 0.2500 LB/MMBTU GAS	STEAM/WATER INJECTION	NSPS
		CO	125.0000 LB/H 0.0900 LB/MMBTU GAS	COMBUSTION CONTROLS	BACT
		PM	1.0000 LB/H 0.0010 LB/MMBTU GAS	NATURAL GAS FIRING	BACT
		SO2	296.0000 LB/H 0.2200 LB/MMBTU OIL	.28% S. FUEL OIL	NSPS
		NOX	362.0000 LB/H 0.2700 LB/MMBTU OIL	STEAM/WATER INJECTION	NSPS
		CO	216.0000 LB/H 0.1600 LB/MMBTU OIL	COMBUSTION CONTROLS	BACT
		PM	33.0000 LB/H		BACT

0.0250 LB/MMBTU OIL
.1% ASH FUEL OIL

NOTES -----

TWO COMBUSTION TURBINES ARE PERMITTED TO FIRE EITHER NATURAL GAS OR FUEL OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 243

ID NUMBER LA-0005

SOURCE TYPE CODE 3.3

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---- OTHER INTERNAL COMBUSTION 100.00 MM

COMPANY NAME/SITE LOCATION GULF STATES UTILITY
8 MI WNW OF LAKE CHARLES LAKE CHARLES, LA CALCASIEL PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-294
DETERMINATION MADE BY EPA REGION VI
(AGENCY) JOHN BUNYAK
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 12/22/80
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

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMISSION	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	& BASIS
TURBINE	1396.00 MMBTU/H	SO2	0.3500 LB/MMBTU OIL 0.0010 LB/MMBTU GAS	LOW SULFUR OIL (0.46%)	NSPS
		NOX	0.2600 LB/MMBTU OIL 0.2500 LB/MMBTU GAS		NSPS
		CO	0.1600 LB/MMBTU OIL 0.0900 LB/MMBTU GAS	WATER/STEAM INJECTION	60.00 BACT
		PM	0.0900 LB/MMBTU OIL 0.0010 LB/MMBTU GAS	EFFICIENT DESIGN	BACT
				LOW ASH OIL (0.1%)	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 23.30 MKW

COMPANY NAME/SITE LOCATION HOFFMANN-LAROCHE, INC.
MANUNKACHUNK AVENUE BELVIDERE, NJ 07823 WARREN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 08/17/81
DETERMINATION MADE BY EPA REGION II ESTIMATED DATE OF START-UP--
(AGENCY) LARRY KARAS (212)-264-9538
(AGENCY CONTACT PERSON) (PHONE)

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

DIESEL ENGINE, W/WASTE HEAT BOI* 23.30 MKW
NOX 2272.0000 T/YR WASTE HEAT BOILER NSPS
RETARD. FUEL INJ. TIMING

NOTES -----
SPECIFIC LIMITATIONS IN TERMS OF CAPACITY SHALL BE MET (AS PERMIT CONDITIONS) FOR THE OPERATION OF THE DIESEL COGENERATION FAC
ILITY IN COMBINATION WITH SOME OF THE FIVE EXISTING BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION MUNICIPAL GENERATING PLANT

BELOIT, KS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VII

(AGENCY)

STEVE KOVAC

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

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

ENGINE-GENERATOR

6000.00 KW

NOX

1150.0000 PPMV, 15%O2 DRY BASIS

SO2

FUEL STANDARD

CO

S CONTENT LIM. TO 0.7% BY WT.

NOTES -----

TEST DATA USED TO ESTABLISH NOX STANDARD

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 246

ID NUMBER KS-0014

SOURCE TYPE CODE 3.3

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 250.00 MM
 COMPANY NAME/SITE LOCATION NEVADA PWR CO./REID GARDNER STATION MOAPA, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) NV 79-03
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)
 JIM HANSON
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/03/80
 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
GENERATOR	250.00 MM	SO2	0.2900 LB/MMBTU WET SCRUBBER	85.00
		NOX	0.5000 LB/MMBTU SB. COAL 0.6000 LB/MMBTU BIT. COAL	
		PM	0.0300 LB/MMBTU PROPER BOILER DESIGN & OPER. BAGHOUSE	99.60

NOTES -----
 ALL EMISSION LIMITS ARE BASED ON: NSPS, AND BACT DETERMINED BY TECHNOLOGY ANDECONOMICS. ADDITION OF GENERATOR TO AN EXISTING FACILITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

160.00 MHP

OTHER INTERNAL COMBUSTION

SOURCE TYPE/SIZE---

PRUDHOE BAY, AK

PRUDHOE BAY CONSORTIUM

COMPANY NAME/SITE LOCATION

DATE OF PERMIT ISSUANCE-- 12/17/80
ESTIMATED DATE OF START-UP--
(206)-442-1193
(PHONE)

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-13
DETERMINATION MADE BY EPA REGION X
(AGENCY)

PAUL BOYS
(AGENCY CONTACT PERSON)

... & BASIS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

POLLUTANT EMISSION LIMITS
EMITTED

THROUGHPUT
CAPACITY

PROCESSES SUBJECT
TO THIS PERMIT

16.00 MHP EA

GAS TURBINE, 10

NOX 150.0000 PPM

BACT

CO 109.0000 LB/MMSCF FUEL

BACT

MONTGOMERY PROPER COMBST. COND.

GAS HEATERS

NOX 0.0800 LB/MMBTU

BACT

LOW NOX BURNERS

CO 0.0180 LB/MMBTU

MONTGOMERY PROPER COMBST. COND.

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 248

ID NUMBER AK-0003

SOURCE TYPE CODE 3.3

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION SEA WORLD, INC.
1720 SOUTH SHORES RD.

SAN DIEGO, CA 92109

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 7801

DETERMINATION MADE BY SAN DIEGO APCD
(AGENCY)

GUS ANDERSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/11/82
ESTIMATED DATE OF START-UP-- 1981
(619)-565-3925
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. PISTON ENGINE

7.10 MMBTU/H

NOX

1.8000 LB/MMBTU SEE NOTE

SINGLE STAGE CATALYTIC CONVERT.

CO

1.5000 LB/MMBTU SEE NOTE

SINGLE STAGE CATALYTIC CONVERTER

NOTES -----

COGENERATION UNIT CONSISTING OF 930 BHP I.C. PISTON ENGINE, NATURAL GAS FUELED, 630 KW ELECTRIC GENERATOR AND EQUIPPED FOR WAS
TE HEAT RECOVERY.
BEFORE USING THE EMISSION UNITS SHOWN, THE SAN DIEGO AGENCY SHOULD BE CONTACTED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION SEA WORLD, INC.
1720 SOUTH SHORES RD.

SAN DIEGO, CA 92109

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY SAN DIEGO APCD

(AGENCY)

GUS ANDERSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/15/83

ESTIMATED DATE OF START-UP-- 1983

(619)-565-3925

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. PISTON ENGINE

7.10 MMBTU/H

NOX

0.2480 LB/MMBTU

2 STAGE CATALYTIC CONVERT.

90.00

CO

0.2300 LB/MMBTU

2 STAGE CATALYTIC CONVERTER

90.00

NOTES

COGENERATION UNIT CONSISTING OF 930 BHP I.C. PISTON ENGINE, NATURAL GAS FUELED, 630 KW ELECTRIC GENERATOR AND EQUIPPED FOR WAS
TE HEAT RECOVERY. PERMIT PENDING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 40.00 MM

COMPANY NAME/SITE LOCATION SEBRING UTILITIES COMMISSION
368 S. COMMERCE AVE. P.O. BOX*

SEBRING, FL 33870

HIGHLANDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-071
DETERMINATION MADE BY FLORIDA DER
(AGENCY)

ED PALAGYI
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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DIESEL ENGINES 19.53 MM EA

NOX	819.0000	PPMV	COMBUSTION CONTROL	NSPS
SO2	2.6700	LB/MMBTU	2.5% SULFUR OIL	BACT
PM	0.1000	LB/MMBTU	COMBUSTION CONTROL	BACT
CO	0.5750	LB/MMBTU	EQUIPMENT OPERATION	NSPS
VOC	0.2600	LB/MMBTU	EQUIPMENT OPERATION	NSPS

NOTES -----
TWO UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 27.50 MMCF/D

COMPANY NAME/SITE LOCATION SHELL OIL CO. NEAR MCCAHEY, TX UPTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/27/81
 PERMIT NO. (REGION FILE NO.) PSD-TX-360 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

I.C. ENGINES, RECIPROCATING FUE* 1215.00 HP NOX 10.0000 G/HP-H DERATED OLD ENGINES BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 12000.00 KW

COMPANY NAME/SITE LOCATION TRENTON DISTRICT ENERGY CO.
S. WARREN BET. LIVINGSTON & F*

TRENTON, NJ

MERCER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 10/29/81
ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (212)-264-9538 (PHONE)
(AGENCY CONTACT PERSON)

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

DIESEL ENGINES, W/2 SUP. FIRED * 6.00 MKW EA

PM	71.0000 T/YR	SUPPLEMENTARY FIRED BOILERS	
		PROPER COMBUST. OF EXHAUST GASES	SIP
SO2	482.0000 T/YR	LOW SULFUR FUEL	
		LOW SULFUR FUEL	
NOX	1869.0000 T/YR	USE OF MANUFACT. ENG. MOD.	DESI

NOTES

GOOD COMBUSTION PRACTICE & USE OF LOW SULFUR FUEL OIL, 0.5% BY WT., & USE OF NATURAL GAS AS AVAILABLE, ARE REQUIRED FOR WASTE H
EAT BOILERS. BASIS FOR PM CONTROL IS CONTROL EQUIPMENT.
BASIS FOR PM CONTROL IS CONTROL EQUIPMENT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION BALL METAL CONTAINER GROUP

EAST FINDLAY, OH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 03-1025

DETERMINATION MADE BY OHIO EPA - NMD

(AGENCY)

DON WALTERMEYER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/10/81

ESTIMATED DATE OF START-UP-- 1981

(419)-352-8461

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

EXTERIOR BASE OPERATION

300.00 MM CANS/LIN*

VOC

0.3600 KG/L COATING SOLIDS
THERMAL INCINERATOR

NSPS
85.00

INTERNAL COAT

300.00 MM CANS/LIN*

VOC

0.5400 LB/GAL OF COATING - H2O

BACT

NOTES -----

PERMIT REQUIRES THAT VOC EMISSIONS SHALL NOT EXCEED ANY NSPS LIMITS APPLICABLE TO BEVERAGE CAN SURFACE COATING. IT REQUIRES THE SOURCE TO NOTIFY OF 1) CONSTRUCTION DATE, 2) ANTICIPATED STARTUP DATE, 3) ACTUAL STARTUP DATE, AND 4) DATE OF PERFORMANCE TESTING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION EVANS COOPERAGE CO., INC.

TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. T82-31

DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT

(AGENCY)

JIM VAN SANDT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/04/82

ESTIMATED DATE OF START-UP-- 1983

(918)-744-1000

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

HAND SPRAY DRUM PAINTING

72.00 DRUMS/H

VOC

15.6800 LB/H

HIGH SOLIDS PAINT, 43.9% SOLIDS

12.90

NOTES

1) VOC REDUCTION IN PAINTS BACT BECAUSE OF ECONOMIC FACTOR. ANY OTHER CONTROLS WOULD HAVE COST 50% OF THE TOTAL INVESTMENT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS 600.00 MM CANS/YR

COMPANY NAME/SITE LOCATION MILLER BREWING CO. MOULTRIE, GA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 07/02/79
 PERMIT NO. 3411-035-6706-C ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY GEORGIA EPD HAI CHANG (404)-656-6900
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BASE COATING	298.00 T/YR	VOC	1.8500 LB/GAL COATING - H2O LOW SOLVENT COATING	
INTERIOR BODY SPRAYING	182.00 T/YR	VOC	3.9900 LB/GAL COATING - H2O LOW SOLVENT COATING	
OVERVARNISH	76.00 T/YR	VOC	2.3300 LB/GAL COATING - H2O LOW SOLVENT COATING	
END SEALING COMPOUND	66.00 T/YR	VOC	3.7000 LB/GAL COATING - H2O LOW SOLVENT COATING	

NOTES -----
 PLANT CURRENTLY DOES NOT PREFORM ANY BASE COATING OPERATION. COMPLIANCE COATINGS ARE NOW BEING USED FOR THE OTHER THREE COATIN G OPERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATINGS - CANS/COILS

COMPANY NAME/SITE LOCATION NATIONAL CAN CORP.

CHICAGO, IL

COOK COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. C 7906091

DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/09/81
ESTIMATED DATE OF START-UP--
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

COATER & OVENS

VOC

209.6000 T/YR

COATING BREAKDOWN SEE NOTES

LAER

NOTES

COATING SOLVENT LIMITATION - INSIDE SPRAY 3.63 LB/GAL, BOTTOM END SPRAY 2.1 LB/GAL, OVERVARNISH 2.1 LB/GAL, BASECOAT 1.8 LB/GA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION PREFINISH METALS

WALBRIDGE, OH

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 03-746

DETERMINATION MADE BY OHIO EPA - NMD

(AGENCY)

CHUCK HULL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/04/79

ESTIMATED DATE OF START-UP-- 1981

(419)-352-8461

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

2 COIL COATERS & OVENS

700000.00 T/H, VARIES

VOC

37.0000 LB/H

AFTERBURNERS

97.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 258

ID NUMBER OH-0039

SOURCE TYPE CODE 4.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION STROH CONTAINER

FREMONT, OH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 03-807

DETERMINATION MADE BY

OHIO EPA - NWD
(AGENCY)

DON WALTERMEYER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/30/79
ESTIMATED DATE OF START-UP-- 1981
(419)-352-8461
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BASE, BOTTOM, AND INTERNAL COAT* 3000.00 CANS/MIN.

VOC

40.0000 T/YR

CATALYTIC INCINERATOR

90.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 259

ID NUMBER OH-0036

SOURCE TYPE CODE 4.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION ALLIED PRINTERS & PUBLISHERS, INC.

TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. T80-74

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

DATE OF PERMIT ISSUANCE-- 03/13/81
ESTIMATED DATE OF START-UP-- 1980
(918)-744-1000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

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

... PCT EFF

WEB OFFSET PRINTING PRESS

800.00 FT/SEC

VOC

0.7140 LB/H

STRAIGHT FLAME INCIN., W/PREHEATER
HIGH SOLIDS INK (68%)

90.00

NOTES

1) DECREASE IN VOC CONTENT. EFFICIENCY = 12.5%. 2) CONVERSION OF PHOTOCHEMICAL REACTANTS TO NON-REACTANT MATERIALS. EFFICIENCY = 90%

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION AVERY INTERNAT PAINESVILLE TWP., OH LAKE COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 06/11/81
 PERMIT NO. 0243110957 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY OHIO EPA NED (216)-425-9171
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

VINYL AND PAPER COATING LINE 63.90 GAL/H VOC 2.6000 LB/GAL COAT. APPLIED LAER
 132.8000 T/YR
 LOW SOLVENT COATING

NOTES -----
 LAER LIMITS AND ANNUAL MAX. EMISSION IMPOSED BY PERMIT CONDITIONS WHICH REQUIRES REDUCTIONS FROM SOURCE K007 OF 159.4 TPY TO P
 PROVIDE THE OFFSET AND FURTHER REDUCTIONS FROM 6 (CONT. 27)
 OTHER COATING LINES TO LIMIT VOC EMISSIONS TO 2.05 LB/GAL, EXCL. WATERBY 4-1-82

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION DIETZSEN CORP. DES MOINES, IL

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/11/80
 PERMIT NO. C8006034 ESTIMATED DATE OF START-UP-- 1981
 DETERMINATION MADE BY EPA REGION V CHRIS ROMAINE
 (AGENCY) (AGENCY CONTACT PERSON) (217)-782-2113
 (PHONE)

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

ROLLER COATER LINE VOC 0.6000 LB/GAL COATING AFTERBURNER LAER 90.00

NOTES
 90% EFFICIENCY REQUIRED OF AFTERBURNER SYSTEM (CAPTURE & DESTRUCTION).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS 240.00 LB/H

COMPANY NAME/SITE LOCATION FRYE COPY SYS, INC GOSHEN, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. PC(20)1480
 DETERMINATION MADE BY INDIANA APCD
 (AGENCY)
 FRANK PROFIT
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 11/07/00
 ESTIMATED DATE OF START-UP--
 (317)-633-0664
 (PHONE)

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

PAPER COATING LINE 240.00 LB/H
 VOC 25.0000 T/YR CARBON ABSORBER 95.00

NOTES -----
 4000 HRS/YEAR OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION INTERNAT. LABEL MFG. FAC.

CLARKSVILLE, TN

MONTGOMERY COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. PSD-TN-060
DETERMINATION MADE BY

TENNESSEE APCD
(AGENCY)

ANGIE PITCOCK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/26/80
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

PAPER PRINTING

3454.00 LB/H

VOC

46.9400 T/YR

CARBON ADSORP. BEDS + INCIN.

LAER

99.90

BOILERS, NAT. GAS, 3 EA

SO2

152.8800 T/YR

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 264

ID NUMBER TN-0004

SOURCE TYPE CODE 4.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION ITEN FIBRE CO.

ASHTABULA, OH

ASHTABULA COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 0204010112

DETERMINATION MADE BY OHIO EPA NED

(AGENCY)

DENNIS BUSH

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/23/81

ESTIMATED DATE OF START-UP--

(216)-425-9171

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

RESIN COATING LINE

VOC

2.9000 LB/GAL COAT. APPLIED

516.0000 T/YR

LOW SOLVENT COATING

LAER

NOTES -----

COMPANY TO REPORT QUARTERLY OR MONTHLY COATING USE, TOTAL VOC EMISSIONS, AND LB/GAL VOC EMISSIONS RATE.

OFFSETS NOT REQUIRED RURAL AREA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 265

ID NUMBER OH-0015

SOURCE TYPE CODE 4.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS 450.00 LB/H

COMPANY NAME/SITE LOCATION MURRAY RUBBER, (HEAD COMPANY) HOUSTON, TX 77040 HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 9040
 DETERMINATION MADE BY TEXAS ACB
 (AGENCY) ART KELLOGG
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 07/01/82
 ESTIMATED DATE OF START-UP-- 1982
 (512)-451-5711
 (PHONE)

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

FABRIC COATER 450.00 LB/H VOC 27.0000 LB/H THERMAL OXIDIZER 90.00

NOTES
 THIS SYSTEM REDUCES EMISSIONS TO 0.83 LB/GAL APPLIED W/GREATER THAN 90% EFFICIENCY (MAXIMUM). TACB REGULATIONS & EPA GUIDELINE
 S ALLOW A MAX. OF 2.9 LB/GAL APPLIED. THE OXIDIZER REQUIRES NO FUEL FOR OPER. OTHER THAN THE DRYER EMIS.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION NDM CORP.

MORaine, OH

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 0857101457 K001

DETERMINATION MADE BY RAPCA - DAYTON, OH

(AGENCY)

THURMAN SMITH

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/23/82

ESTIMATED DATE OF START-UP-- 1982

(513)-225-4435

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PAPER COATINGS

30.00 FT/MIN

VOC

19.0000 LB/H

11.4000 T/YR

THERMAL INCINERATOR

99.70

NOTES

THERMAL INCINERATOR WAS TESTED AT 99.7% OVERALL EFFICIENCY. COATING MUST MEET 2.9 LB VOC/GAL COATING OR CONTROL EQUIPMENT MUST PROVIDE AN EMISSION REDUCTION OF 50.5%. PERMIT RESTRICTS OVERALL EFFICIENCY TO NO LESS THAN 85.5%.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS 75.00 CARS/H

COMPANY NAME/SITE LOCATION CHRYSLER CORP. DETROIT, MI 48226 WAYNE COUNTY
JEFFERSON AV. ASSEMBLY PLANT

DETERMINATION IS LAER FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/05/80
PERMIT NO. C-5366 THRU C-5369 ESTIMATED DATE OF START-UP-- 1980
DETERMINATION MADE BY AL SCHEANS (313)-224-4693
(AGENCY) (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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TACK-OFF BOOTH		VOC	EXHAUST THRU SPRAY BOOTH	LAER
COLOR SPRAY BOOTH	500000.00 SCFM	VOC	SEE NOTE	
COLOR FLASH-OFF BOOTH	10000.00 SCFM	VOC	25.2000 LB/GAL APPL. SOL	LAER
DOUBLE-WIDTH OVEN	6668.00 SCFM	VOC	12.9000 LB/GAL APPL. SOL OVEN EXHAUST INCIN.	90.00

NOTES -----
STAGED LAER CONCEPT PROVIDING FOR PHASE-IN OF NEW TECHNOLOGY AS IT IS DEVELOPED - PHASE 1, START UP USING LOW VOLTAGE ELECTROS
TATIC PAINT SPRAYING AND OVEN EXHAUST INCINERATION; PHASE 2, INTRODUCTION OF HIGH VOLTAGE
ELECTROSTATIC PAINT SPRAYING; PHASE 3, INTRODUCTION OF HIGH SOLIDS TOPCOAT ENAMELS BY 8/31/83.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION FORD MOTOR CO. MILAN, MI MONROE COUNTY
MILAN PLASTICS PLANT

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/01/80
PERMIT NO. 447-454/79 + 456/79 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY MICHIGAN DNR (517)-322-1333
(AGENCY) GREGORY EDWARDS (PHONE)
(AGENCY CONTACT PERSON)

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

ELECTROSTATIC PAINT SYS.

VOC 457.5000 LB/H LAER 95.00
CATALYTIC INCINERATOR

ELECTROSTATIC SPRAY BOOTHS

COMPOUND MACHINES, DIRECTIONAL *

VOC 0.7400 LB/H LAER 90.00
VOC 9.0700 LB/H LAER
CARBON ADSORPTION
NONE

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS 60.00 TRUCKS/H

COMPANY NAME/SITE LOCATION GM WORLD WIDE TRUCK DIV
2601 WEST STROOP ROAD MORaine, OH 45439 MONTGOMERY COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 08-215 DATE OF PERMIT ISSUANCE-- 05/13/80
DETERMINATION MADE BY RAPCA - DAYTON, OH ESTIMATED DATE OF START-UP-- 1981
(AGENCY) (AGENCY CONTACT PERSON) (513)-225-4435
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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ELPO PRIME	63.50 UNITS/H	VOC	1.2000 LB/GAL COATING MINUS H2O CATHODIC EDP	LAER
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PRIMER SURFACER	63.50 UNITS/H	VOC	2.8800 LB/GAL COATING MINUS H2O 15.8400 LB/GAL VOC SOLIDS APPL WITH 62% TRANSFER EFFICIENCY	LAER
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TOP COAT	63.50 UNITS/H	VOC	3.6000 LB/GAL COATING MINUS H2O 15.0500 LB/GAL VOC SOLIDS APPL WITH 59% TRANSFER EFFICIENCY	LAER
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ANTI-CORROSION	63.50 UNITS/H	VOC	4.3000 LB/GAL COATING MINUS H2O WITH 90% TRANSFER EFFICIENCY	LAER
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PLASTISOL/ANTI-CHIP	63.50 UNITS/H	VOC	3.5000 LB/GAL COATING MINUS H2O WITH 50% TRANSFER EFFICIENCY	LAER
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(CONTINUED) GM WORLD WIDE TRUCK DIV

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCI EFF
CHASSIS BLACK	63.50 JOB/H	VOC	3.5000 LB/GAL VOC MINUS H2O	
WHEEL PAINT	63.50 JOB/H	VOC	3.7000 LB/GAL VOC MINUS H2O	
MAST JACKET	63.50 JOB/H	VOC	6.3000 LB/GAL VOC MINUS H2O	
FINAL REPAIR	63.50 JOB/H	VOC	4.8000 LB/GAL VOC MINUS H2O	

NOTES -----
MISCELLANEOUS FUGITIVE VOC EMISSIONS ARE ESTIMATED TO TOTAL 488 TPY FROM THIS FACILITY.
TOTAL VOC EMISSIONS NOT TO EXCEED 2050 TPY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION VOLKSHAGEN OF AM 16 MILE ROAD & VAN DYKE AVENUE STERLING HEIGHTS, MI 48077 OAKLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 250-80 TO 273-80, 3*
 DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
 JON TROUT (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 06/01/80
 ESTIMATED DATE OF START-UP-- (517)-322-1333 (PHONE)

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

PAINTING OPERATIONS

VOC	SEE NOTE
	SEE NOTES

NOTES -----
 CHECK WITH STATE FOR DETAILS. EMISSION LIMITS TOO EXTENSIVE TO MENTION HERE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - METAL FURNITURE

COMPANY NAME/SITE LOCATION STEELCASE, INC.
1120 36TH STREET

GRAND RAPIDS, MI 49501

KENT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 51-80

DETERMINATION MADE BY MICHIGAN DNR
(AGENCY)

JOHN CAUDELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/01/80
ESTIMATED DATE OF START-UP-- 1981
(517)-322-1333
(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 40000.00 LB/H

PM 0.0500 LB/MMBTU

CYCLONE & BAGHOUSE

SO2 1.6000 LB/MMBTU

LOW S COAL, MAX 1%

NOX 0.6000 LB/MMBTU

CONTROL EXCESS & OVERFIRE AIR

COAL & ASH HANDLING SYS.

PM 0.0300 GR/DSCF

FABRIC FILTER

DUST SUPPLEMENT

99.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 273

ID NUMBER MI-0018

SOURCE TYPE CODE 4.4

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - MAGNET WIRE

COMPANY NAME/SITE LOCATION PHELPS DODGE, MAGNET WIRE CORP.
P.O. BOX 768

HOPKINSVILLE, KY 42440

CHUSTION COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. C-75-16

DETERMINATION MADE BY

KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/25/75
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
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OVENS, 4	1501.00 T/YR COATING	VOC	40.8000 LB/H 675.4900 T/YR INCINERATOR	90.00
OVENS, FINE WIRE, 10	165.00 T/YR COATING	VOC	4.5500 LB/H 19.1100 T/YR INCINERATOR	90.00
OVENS, 1 HEAVY & 1 MEDIAN WIRE	514.00 T/YR COATING	VOC	13.9600 LB/H 58.6000 T/YR INCINERATOR	90.00
OVENS, 6 HEAVY & 1 FINE WIRE	2158.00 T/YR COATING	VOC	31.3000 LB/H 85.9000 T/YR CATALYTIC (1350 F), THERMAL INCINERATOR	BACT
OVEN, 1 FINE WIRE	16.00 T/YR COATING	VOC	0.4550 LB/H 1.9100 T/YR	95.00

NOTES -----
ALSO COVERS PERMIT NUMBERS C-75-23, C-77-75, C-78-60, C-79-013.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 275

ID NUMBER KY-0035

SOURCE TYPE CODE 4.5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - LARGE APPLIANCES

COMPANY NAME/SITE LOCATION SANYO E&E CORP.
400 RUFFIN RD.

SAN DIEGO, CA 92123

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 07037
DETERMINATION MADE BY SAN DIEGO APCD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/21/81
ESTIMATED DATE OF START-UP-- 1979
LORENZO ALEJANDRIA
(619)-565-3914
(AGENCY CONTACT PERSON)
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

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

COATING LINE

107.50 GAL/D

VOC

275.0000 G/LITER OF COATING
HIGH SOL. COAT. TO LOW SOL. COAT..

BACT

NOTES -----

AVERAGE SOLVENT CONTENT OF COATINGS USED BEFORE MODIFICATION WAS 365.9 G/LITER, & AFTER MODIFICATION, THE SOLVENT CONTENT OF NEW COATINGS IS 280 G/LITER (WITH 10% DEVIATION FOR UNSTANDARDIZED TEST METHOD USED & AGREED BY APCD).
COATING LINE INCLUDES ONE AUTOMATIC PAINT SPRAY Booth USING ELECTROSTATIC SPRAY DEVICES, TWO TOUCHUP SPRAY BOOTHS, ONE BAKING OVEN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS

COMPANY NAME/SITE LOCATION MARK IND.

SELMA, TX

GUADALUPE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X3697

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

RANDY HAMILTON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/20/82
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

SPRAY BOOTHS, 2

VOC

7.6400 T/YR

ELECTROSTATIC PAINT GUNS/DRY FILTER
WATERBASE PAINT, HEATED, AIRLESS

90.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 277

ID NUMBER TX-0103

SOURCE TYPE CODE 4.7

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SOLVENT DEGREASING

COMPANY NAME/SITE LOCATION BRIGGS & STRATTON CORP.

MENOMONEE FALLS, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-GEB-81-68-002
DETERMINATION MADE BY WISCONSIN DNR
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/04/81
ESTIMATED DATE OF START-UP--
(608)-266-0244
(PHONE)

EMILIA ESTRADA
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DEGREASERS

VOC

LAER

NOTES

OFFSETS FOR NEW EQUIPMENT COVERED PERMIT, EXCLUDING RELOCATED EQUIPMENT AT 20% OBTAINED FROM DISCONTINUING DETREX LDC-750-16,
#57920, CONVEYORIZED DEGREASER LOCATED AT BRIGGS & STRATTON BURLEIGH ST PLANT, MILWAUKEE
DISCONTINUED CONVEYOR CREATED 73.62 TPY EMISSION REDUCTION, 19.49 TPY ASSIGNED TO OFFSET SOURCES UNDER MIN-05-80-68-126, 19.82
TPY ASSIGNED FOR OFFSETS THIS PERMIT, REMAINING 24.31 TPY BANKED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BENIS CARPHANE FILMS

OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. MAN-10-EYE-81-71-083

DETERMINATION MADE BY WISCONSIN DNR

(AGENCY)

EMILIA ESTRADA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/25/81

ESTIMATED DATE OF START-UP--

(608)-266-0244

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SARAN COATERS, 2 EA

VOC

0.3200 KG/L

2.6700 LB/GAL

LOW SOLVENT COATING

LAER

NOTES -----

OFFSET FROM SHUTDOWN OF #14 LAMINATOR AT CURWOOD, NEW LONDON

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 279

ID NUMBER WI-0003

SOURCE TYPE CODE 4.12

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS CO.

OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. MAN-03-80-71-125

DETERMINATION MADE BY WISCONSIN DNR

(AGENCY)

EMILIA ESTRADA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/13/80

ESTIMATED DATE OF START-UP--

(608)-266-0244

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FLEXOGRAPHIC PRINTING PRESS #8

VOC 85.0000 % REDUCTION
LOW SOLVENT COATINGS

LAER

EXTRUSION COATER #9

VOC 0.0900 KG/L
1.5600 LB/GAL

LOW SOLVENT COATINGS

LAER

LAMINATOR #16

VOC 0.1700 KG/L
1.4300 LB/GAL

LOW SOLVENT COATINGS

LAER

NOTES -----
OFFSET FROM CLOSING #1 SARAN COATER & LAMINATOR #11

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BENIS SPECIALTY FILMS OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
 PERMIT NO. MAN-10-EYE-81-71-082
 DETERMINATION MADE BY WISCONSIN DNR
 (AGENCY)

EMILIA ESTRADA
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/21/81
 ESTIMATED DATE OF START-UP--
 (608)-266-0244
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LAMINATOR #17		VOC	0.0400 KG/L COATING 0.3300 LB/GAL LOW SOLVENT COATINGS	LAER
COATER #10		VOC	0.0300 KG/L COATING 0.2500 LB/GAL LOW SOLVENT COATINGS	LAER
COATER #11		VOC	0.2100 KG/L 1.7700 LB/GAL LOW SOLVENT COATINGS	LAER
FLEXOPRESS COATER #2		VOC	18.0000 % VOC VOL. IN INK LOW SOLVENT COATINGS	LAER

NOTES -----
 OFFSET FROM SHUTDOWN OF #14 LAMINATOR & #2 SARAN COATER AT CURWOOD, NEW LONDON

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 102.00 GAL INK/H

COMPANY NAME/SITE LOCATION BROWN PRINTING FRANKLIN, KY 42134 SIMPSON COUNTY
P.O. BOX 451

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 07/28/80
PERMIT NO. KY 153 ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
(AGENCY) (PHONE)
BILL DILLS
(AGENCY CONTACT PERSON)

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

ROTOGRAVURE PRINTING PRESS 102.00 GAL/H INK VOC 102.0000 GAL/H INK LAER
CARBON ADSORPTION 97.00

NOTES -----
CHANGING THINNER USAGE, BUT LIMITING INK TO 102 G/L INK/HOUR. 7 UNITS, BACT/LAER WILL BE DETERMINED USING A PHASED APPROCH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION COLUMBUS COATED FABRICS

COLUMBUS, OH

DETERMINATION IS LAER FOR A MODIFIED SOURCE.

PERMIT NO. 01-415

DETERMINATION MADE BY

OHIO EPA - CD

(AGENCY)

VICTOR FISHER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/29/81

ESTIMATED DATE OF START-UP--

(614)-864-3195

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INTA-ROTO HL-41 PRINTER

7.00 MMYD/YR

VOC

4.8000 LB/GAL VINYL

2.9000 LB/GAL INK

COAT COMPOSIT.<25% SOLV.BY VOL

BACT

70.00

NOTES -----

LIMITS IMPOSED BY PERMIT TO INSTALL, WHICH ALSO REQUIRES NEW PERMIT APPLICATION IF SOLVENT COMPOSITION OR SCHEDULE ARE CHANGED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 360.00 T/YR

COMPANY NAME/SITE LOCATION CONTAINER CORP. OF AM MUNCIE, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. PC(18)1477
 DETERMINATION MADE BY INDIANA APCD
 (AGENCY)
 FRANK PROFIT
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/31/80
 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

ROTOGRAVERE PRINT PRESS 362.00 T/YR VOC 36.0000 T/YR FUME INCINERATOR 90.00

NOTES
 OPERATES 6240 HRS/YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 1073.30 LB/H
 COMPANY NAME/SITE LOCATION CPS INDUSTRIES FRANKLIN, TN WILLIAMSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TN-069
 DETERMINATION MADE BY TENNESSEE APCD
 (AGENCY)
 ANN NIELSON
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP--
 (615)-741-3651
 (PHONE)

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

CERUTTI & HELIX PRESSES, 5 1073.30 LB/H TOTAL VOC 128.1100 LB/H SOLVENT REC. SYS & CARBON. BED LAER 84.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 2400.00 T/YR

COMPANY NAME/SITE LOCATION DIVERSIFIED PRINTING BACKSON, TN 37055 DICKSON COUNTY
DICKSON CORAMY INDUSTRIAL PARK

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/10/81
PERMIT NO. PSD-TN-069 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY TENNESSEE APCD (615)-741-3651
(AGENCY) ANGIE PITCOCK (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRINTING		VOC	2400.0000 T/YR CARBON ADSORPTION	LAER 84.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

2000.00 FT/MIN

GRAPHIC ARTS

WINSTON-SALEM, NC

R. J. R. ARCHER, INC.
220 E. POLO RD

DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(919)-727-8060
(PHONE)

DETERMINATION IS BASED FOR A MODIFIED SOURCE.

PERMIT NO. 00466-0005-P
DETERMINATION MADE BY

FORSYTH COUNTY ENV. AFFAIRS KEITH TART
(AGENCY) (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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ROTOGRAVURE PRESS	2630.00 LB/H PAPER	VOC	341.0000 LB/H CARBON ADSORB. SYS & RECOVERY SYS	69.00
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NOTES -----
LOCAL PERMIT TO CONSTRUCT WAS NOT ISSUED. R.J.R. ARCHER, INC. REQUESTED TERMINATION OF PSD EVALUATION BECAUSE THEY CONTROLLED THE MAJORITY OF THE EXISTING PLANT AND THE OFFSET GENERATED WOULD ELIMINATE THE REQUIREMENTS OF A PSD ANALYSIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 3368.00 T/YR EA

COMPANY NAME/SITE LOCATION R.R. DONNELLEY & SONS CO. MATTOON, IL COLES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. EPA-5-A-80-17
 DETERMINATION MADE BY EPA REGION V
 (AGENCY)
 BONIFACE THAYIL
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/18/80
 ESTIMATED DATE OF START-UP--
 (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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ROTOGRAVURE PRESSES, 2 EA	3368.00 T/YR	VOC	212.0000 T/YR CARBON ABSORBER	95.00
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NOTES -----
 OPERATING HOURS MAX. 7280 HRS/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION WORLD COLOR PRESS

SALEM, IL

MARION COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. C 80 10 0006
 DETERMINATION MADE BY ILLINOIS EPA
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 01/13/82
 ESTIMATED DATE OF START-UP-- 1980
 (217)-782-2113
 (PHONE)

CHRIS ROMAINE
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

ROTOGRAVURE PRESSES

VOC 336.0000 T/YR

CARSON ADSORPTION SYSTEM

94.00

OFFSET PRESSES

VOC 251.0000 T/YR

AFTERBURNER SYSTEM
 OR EQUIVALENT SYSTEM

90.00

NOTES

1.BACT RETROSPECTIVELY APPLIED WHEN PSD PROJECT BROUGHT TO LIGHT BY APPLICANT. 2.EFFECTIVENESS OF AFTERBURNERS FOR OFFSET PRESSES IS BEING INVESTIGATED WITH TRIAL PROGRAM ON ONE PRESS TO BE CONCLUDED 9/84. EVALUATING ADD ON CONTROLS VS. REDUCTIONS ACHIEVED THROUGH REFORMULATION OF INK AND FOUNTAIN SOLUTION. LIMITS WILL BE ADJUSTED ACCORDINGLY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- 120.00 MMBTU/H

GRAPHIC ARTS

COMPANY NAME/SITE LOCATION W.F. HALL PRINTING CO.
4310 EVANS TO LOCK RD

EVANS, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 2754-036-8480
DETERMINATION MADE BY GEORGIA EPD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 10/04/82
ESTIMATED DATE OF START-UP-- 1981
(404)-656-4867
(PHONE)

BILL FARRISEE
(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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BOILERS, 2	60.00 MMBTU/H	PM	0.1000 LB/MMBTU BOILER DESIGN	NSPS
		S02	246.0000 LB/H 0.8000 LB/MMBTU BOILER DESIGN	NSPS
		VOC	39.0000 LB/H CARBON ADSORPTION SYSTEM	LAER 95.00
CARBON BED ADSORPTION UNIT	513.00 LB/H VOC	CO	0.3000 LB/MMBTU BOILER DESIGN	NSPS
		NO2		

NOTES -----
PERMIT AMENDED TO COVER TWO BOILERS INSTEAD OF THREE BOILERS IN ORIGINAL PERMIT AND TO COVER USE OF NO.6 FUEL (2.1% SULFUR) I
NSTEAD OF NO.6 FUEL (.9% SULFUR) IN ORIGINAL PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS 300.00 GAL TOPCOAT/D

COMPANY NAME/SITE LOCATION BROYHILL FURNITURE NEWTON, NC CATAWBA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE--
 PERMIT NO. NC-035 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 EMISSION LIMITS ... & BASIS
 POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

SPRAY BOOTHS VOC 688.0000 T/YR BACT
 NONE
 EQUIPMENT DESIGN & OPERATION

NOTES -----
 11 SPRAY BOOTHS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION MEREDITH CORP.

DES MOINES, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VII

(AGENCY)

STEVE KOVAC

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/15/82

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

ROTOGRAVURE PRINTING PRESS

1614.00 LB/H SOLVENT

VOC

16.0000 % VOL SOLVENT USED

SOLVENT RECOVERY SYSTEM

95.00

FLEXOGRAPHIC PRINTER

NOTES

THE FLEXOGRAPHIC PRINTER SHALL NOT USE A RAW INK (OR RELATED COATING) WITH A RATIO OF VOC VOLUME CONTENT TO SOLIDS VOLUME CONTENT WHICH IS GREATER THAN 0.64 NOR SHALL RAW INK BE DILUTED WITH ANYTHING OTHER THAN WATER ADDITION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION ROCKWELL INTERNATIONAL

TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. T80-43

DETERMINATION MADE BY

TULSA CITY-COUNTY HEALTH DEPT

(AGENCY) BILL GIBBONS

(918)-744-1000

(PHONE)

DATE OF PERMIT ISSUANCE-- 07/08/80

ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

CHEM MASKANT ON ACFT SKINS

NOTE #1

VOC

202.0000 T/YR UNCONT.,NOTE#2

CARBON ADSORPTION

90.00

BOND PRIME, PRIME & ENAMEL COAT*

NOTE #1

VOC

18.4000 T/YR UNCONT.,NOTE#2

3.4000 T/YR CONT.,NOTE#2

CARBON ADSORPTION UNITS

80.00

NOTES

1) MASKANT & COATINGS RELATED TO COMMERCIAL AIRCRAFT BODY SECTION PRODUCTION, PERMIT LIMITS PRODUCTION TO 144 SHIP SETS PER YE AR.

2) BATCH TYPE COATINGS OPERATIONS NEGATES MEANINGFUL HOURLY EMISSION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 293

ID NUMBER OK-0012

SOURCE TYPE CODE 4.14

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION SOLVENT RESOURCE RECOVERY WEST CARROLLTON, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
 PERMIT NO. 0857751346 P004
 DETERMINATION MADE BY RAPCA - DAYTON, OH
 (AGENCY) AMY WRIGHT
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 07/07/82
 ESTIMATED DATE OF START-UP-- 1982
 (513)-225-4435
 (PHONE)

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

DISTILLATION UNIT 300000.00 GAL/YR VOC 1.2700 LB/D
 0.1600 T/YR CONDENSORS 99.99

NOTES -----
 DISTILLATION UNIT IS OPERATED WITH CONDENSORS WHICH ARE 150% OF DESIGN CAPACITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETR. REFINING/OIL & GAS PROD./RELATED INDUSTRY 24.00 MMCF

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 (601)-354-2550
(AGENCY) (PHONE)
DWIGHT WILEY
(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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TEST WELL	25.00 MMCF/D	S02	745.0000 T/D 30 D MAX FLARE	99.00
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NOTES -----
TEST FACILITY -- EXPECTED LIFE 120 DAYS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---

PETROLEUM REFINING - SEPARATION

450.00 MMBTU/H

COMPANY NAME/SITE LOCATION ARCO PETROLEUM PROD. CO.

CARSON, CA

DETERMINATION IS BACT 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

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DISTILL. UNIT, REPLACEMENT CRUDE 450.00 MMBTU/H HEA*

SO2

800.0000 PPM S REFIN. GAS

0.2500 %S-FUEL OIL

SULFUR-IN-FUEL

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 296

ID NUMBER CA-0017

SOURCE TYPE CODE 5.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
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HEATERS, 4

109.00 MBTU/H

S02	32.9000 T/YR	NONE - LOW SULFUR FUELS	BACT
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FUGITIVES

NOX	19.5000 T/YR		AP42
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VOC	3.1000 T/YR	MONITORING & MAINTENANCE	BACT
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VAC. COLUMN EJECTOR 16000.00 B/D FEED

VOC	NONE	VAPORS TO FUEL SYSTEM	75.00
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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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

2 VACUUM DISTALL. UNITS, GAS 200.00 MMBTU/H EA SO2 0.0270 LB/MMBTU NSPS
 LIMIT H2S TO 0.10 GR/DSCF
 NOX 0.1200 LB/MMBTU BACT
 COM. AIR CONT. BY BURN. DESIGN

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX --- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 55000.00 BBL/D

COMPANY NAME/SITE LOCATION ASHLAND OIL, INC. LEACH, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. C-82-127
 DETERMINATION MADE BY KENTUCKY DAPC (AGENCY)
 BILL DILLS (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/21/82
 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
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BOILER, PACKAGED, OIL/GAS	69.00 MMBTU/H	PM 17.0000 T/YR SO2 345.0000 T/YR		
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FCC REGEN. AFTER BURNER	327.00 MMBTU/H	PM 287.0000 T/YR CO 6027.0000 T/YR SO2 673.0000 T/YR	CENTRIFUGAL CYCLONE DIRECT FLAME AB	81.30 95.90
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HEATER, GAS	27.00 MMBTU/H	PM 9.0000 T/YR CO 3.0000 T/YR		
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FCC CHARGING HEATER AFTERBURNER	145.00 MMBTU/H	PM 96.0000 T/YR CO 240.0000 T/YR SO2 9.0000 T/YR	CENTRIFUGAL CYCLONE DIR. FLAME AFTERBURNER	85.00 99.50
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(CONTINUED) ASHLAND OIL, INC.					... & BASIS	
PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	...	PCT	EFF
HF ALKY ISU	86.00 MMBTU/H	PM	7.0000 T/YR			
		SO2	10.0000 T/YR			
CO BOILER	800.00 MMBTU/H	PM	68.0000 LB/H 298.0000 T/YR			
		CO	FABRIC FILTER 300.0000 PPM 2234.0000 T/YR			99.70
		SO2	AFTER BURNER 250.0000 PPM 4260.0000 T/YR			98.70
		NO2	DRY LIME INJ. 0.2000 LB/MMBTU 713.0000 T/YR			92.90
		VOC	65.0000 T/YR PROCESS CHANGE			66.20

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FCC UNIT

30000.00 BBL/D

S02

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

S02

230.0000 MG/DSCM H2S

0.1000 GR/DSCF

SULFUR IN FUEL

CATALYTIC POLYMERIZATION UNIT 3500.00 BBL/D

S02

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.

PAGE 6- 301

ID NUMBER CA-0016

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
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COKER HEATER	278.00 MMBTU/H	NOX	0.1800 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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 BY EPA 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 PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

PROCESS HEATER

VOC	5.1000 T/YR	LAER
NOX	02 ANALYZER/EFFICIENT COMBUSTION 1663.0000 T/YR	BACT
SO2	CONVENTIONAL BURNERS 195.4000 T/YR	BACT
	SCRUBBER & SULFUR PLANT .1 GR/DSCF H2S-FLUEGAS/.5% S BY WT. FUEL OIL	

HYDROFINER POWER FORMER

VOC	2.5000 T/YR	LAER
SO2	FURNACE BURNER 4416.6000 T/YR	BACT
	3 CLAUS & 1 PARSON BEAVON UNITS	

TANKAGE

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

FUGITIVE EMISSIONS

VOC	203.0000 T/YR	LAER
	PROPER COMBUSTION PROPER MAINTENANCE	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
===== ID NUMBER NJ-0001 SOURCE TYPE CODE 5.2
PAGE G- 304

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 5.00 HP

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/19/82
 PERMIT NO. 27769 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY BAY AREA AQMD JIM KARAS (415)-771-6000
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

CENTRIFUGAL PUMPS 5.00 HP VOC 500.0000 PPM DOUBLE MECH. SEAL W/HEAVY SEAL OIL

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

COMPANY NAME/SITE LOCATION UNITED REFINING CO.

WARREN, PA

WARREN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.

PERMIT NO. 78PA14

DETERMINATION MADE BY EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/25/80

ESTIMATED DATE OF START-UP-- 1980

(215)-597-2711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... 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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 306

ID NUMBER PA-0016

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLFUM 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)-757-1594
(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

S02

0.1000 LB/H

FIRING OF NAT GAS

BACT

TRIETHYLENE GLYCOL 60000.00 BTU/H

S02

0.1000 LB/H

FIRING OF NAT. GAS

BACT

INCIN.

S02

460.0000 LB/H

NO CONTROL,USED TO CONTROL H2S

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING 2.00 MMSCFD

COMPANY NAME/SITE LOCATION OIL INTERNATIONAL LTD OILMONT, MT TOOLE COUNTY

DETERMINATION IS PERMIT NO. DATE OF PERMIT ISSUANCE-- 03/10/83
 DETERMINATION MADE BY STATE OF MONTANA ESTIMATED DATE OF START-UP--
 (AGENCY) HARRY KELTZ (406)-449-3454
 (AGENCY CONTACT PERSON) (PHONE)

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

INCINERATOR 2.00 MMSCFD S02 57.0000 LB/H BACT
 249.0000 T/YR INCINERATION 0.00

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

PETROLEUM REFINING - FEEDSTOCK

10.80 MMGAL

WHITING, IN

AMOCO OIL CO.

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

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

STORAGE TANKS, GASOLINE 5.40 MMGAL

VOC

WELDED TANKS & INT FLOAT ROOFS

LAER

NOTES
 2 GASOLINE STORAGE TANKS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 309

ID NUMBER IN-0010

SOURCE TYPE CODE 5.4

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

PETROLEUM REFINING - FEEDSTOCK

SOURCE TYPE/SIZE---
 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
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)
 BOB BLASZCZAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/18/80
 ESTIMATED DATE OF START-UP-- 1981
 (215)-597-8186
 (PHONE)

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

STORAGE TANKS NO. 1	10.00 MEBL	VOC	0.2700 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 2, 13, 15	100.00 MEBL	VOC	1.6500 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 4, 12	150.00 M3BL	VOC	2.1600 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 9, 10	100.00 MEBL	VOC	1.3200 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 11, 14	100.00 MEBL	VOC	1.6100 LB/H	INTERNAL FLOATING ROOFS	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION VENTECH REFIN. KROTZ SPRINGS, LA 70750 ST. LANDRY PARISH
JCT. HWY 190 & RT. 105

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 02/13/80
PERMIT NO. (REGION FILE NO.) PSD-LA-278A ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) (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
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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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

WASTE INCINERATOR/HEAT RECOVERY* 56.00 MMBTU/H

S02

4.4300 LB/MMBTU
NONE APPLICABLE

BACT

NOTES -----
WASTE INCIN./HEAT RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 PERMITTHROUGHPUT
CAPACITY

EMISSION LIMITS

POLLUTANT
EMITTEDCONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

HEATERS, 12 EA

144.00 MMBTU/H

NOX

0.1200 LB/MMBTU

BACT

LOW NOX BURNERS

SO2

0.0300 LB/MMBTU

NSPS

GAS FIRED

SULFUR RECOVERY UNIT

1000.00 LY/D S/LFUR

NOX

13.0000 LB/H

BACT

EFFICIENT OPERATION

SO2

250.0000 PPM

NSPS

3-STAGE CLAUS UNIT

SRU FLARE

8.80 MMBTU/H

NOX

0.1200 LB/MMBTU

BACT

EFFICIENT OPERATION

SO2

0.0300 LB/MMBTU

NSPS

GAS FIRED

HYDROTREATER FLARES, 2

6.10 MMBTU/H EA

NOX

0.1200 LB/MMBTU

BACT

EFFICIENT OPERATION

SO2

0.0300 LB/MMBTU

BACT

GAS FIRED

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 313

ID NUMBER TX-0020

SOURCE TYPE CODE 5.5

H2S LIMITED TO 0.1 GRAIN/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 314

ID NUMBER TX-0020

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50000.00 BPSD

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

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.

APPENDIX --- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 250.00 MMSCFD SOURGAS

COMPANY NAME/SITE LOCATION AMOCO, CAVE CREEK NEAR WAHSATCH, UT SUMMIT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/20/81
 PERMIT NO. 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 EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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S02 RECOVERY PLANT

S02	825.0000 PPM			BACT
	794.0000 LB/H			

NOX	67.5000 T/YR	SCOT TAILGAS		99.70 BACT
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NOX	145.9000 T/YR	DESIGN, LOW NOX BURNERS		BACT
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VE	20.0000 % OPACITY			
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GLYCOL REBOILER

NOX	2.1000 T/YR	DESIGN, LOW NOX BURNERS		BACT
-----	-------------	-------------------------	--	------

VE	20.0000 % OPACITY			
----	-------------------	--	--	--

REG GAS HEATER

NOX	3.6000 T/YR	DESIGN, LOW NOX BURNERS		BACT
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VE	20.0000 % OPACITY			
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STAB REBOILER

NOX	9.2000 T/YR	DESIGN, LOW NOX BURNERS		BACT
-----	-------------	-------------------------	--	------

VE	20.0000 % OPACITY			
----	-------------------	--	--	--

(CONTINUED) AMOCO, CAVE CREEK

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
8 HEATERS	1.30 MMBTU/H	NOX	0.7000 T/YR	BACT
		VE	DESIGN, LOW NOX BURNERS 20.0000 % OPACITY	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CALCASIEU REFIN. LAKE CHARLES, LA CALASIEU PARISH

DETERMINATION IS BAC; FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/22/81
 PERMIT NO. (REGION FILE NO.) PSD-LA-293 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 JOHN BUNYAK (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION CAROLINA REFINING & DIST SAVANAH, 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) (AGENCY CONTACT PERSON) (PHONE)

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

PROCESS HEATERS 584.00 MMBTU/H
S02 CLAUSS-STRETFORD NSPS
NOX 518.1000 T/YR 98.00 BACT
VOC 3326.2000 T/YR GOOD OPERATION PRACTICES BACT
GOOD OPERATION PRACTICES

NOTES -----
OPERATION PROHIBITED BY STATE AUTHORITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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	S02	9.9000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS TRACE H2S	NSPS
		NOX	47.0000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	BACT
		S02	112.7000 LB/H G/O 0.7600 LB/MMBTU G/O TRACE H2S	NSPS
		NOX	67.3000 LB/H G/O 0.1700 LB/MMBTU G/O AFR CONTROLS, LNB	BACT
HEATER, PLATFORMER DEPENTANIZER	25.20 MMBTU/H	S02	0.6000 LB/H REFIN. GAS 0.0250 LB/MMBTU REFIN. GAS TRACE H2S	NSPS
		NOX	3.0000 LB/H REFIN. GAS 0.1200 LB/MMBTU REFIN. GAS	
		S02	17.5000 LB/H G/O 0.7600 LB/MMBTU G/O TRACE H2S	NSPS
		NOX	4.4000 LB/H G/O	BACT

0.1700 LB/MMBTU G/O
AFR CONTROLS, LNB

(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	S02	0.5000 LB/H REFIN. GAS	NSPS
			0.0250 LB/MMBTU REFIN. GAS	
			TRACE H2S	
		NOX	2.4000 LB/H REFIN. GAS	BACT
			0.1200 LB/MMBTU REFIN. GAS	
			AFR CONTROL, LNB	
		S02	13.8000 LB/H G/O	NSPS
			0.7600 LB/MMBTU G/O	
HEATER, HYDROTREATER CHARGE	47.60 MMBTU/H		TRACE H2S	
		NOX	3.5000 LB/H G/O	BACT
			0.1700 LB/MMBTU G/O	
			AFR CONTROL, LNB	
		S02	1.2000 LB/H REFIN. GAS	NSPS
			0.0250 LB/MMBTU REFIN. GAS	
			TRACE H2S	
		NOX	5.7000 LB/H REFIN. GAS	BACT
REBOILER, HYDROTREATER STRIPPER	31.40 MMBTU/H		0.1200 LB/MMBTU REFIN. GAS	
			AFR CONTROL, LNB	
		S02	33.0000 LB/H G/O	NSPS
			0.7600 LB/MMBTU G/O	
			TRACE H2S	
		NOX	8.2000 LB/H G/O	BACT
			0.1700 LB/MMBTU G/O	
			AFR CONTROL, LNB	
		S02	0.8000 LB/H REFIN. GAS	NSPS
			0.0250 LB/MMBTU REFIN. GAS	
			TRACE H2S	
		NOX	3.8000 LB/H REFIN. GAS	BACT
			0.1200 LB/MMBTU REFIN. GAS	
			AFR CONTROLS, LNB	
		S02	2.2000 LB/H G/O	NSPS
			0.7600 LB/MMBTU G/O	
			TRACE H2S	
		NOX	5.4000 LB/H G/O	BACT
			0.1700 LB/MMBTU G/O	
			AFR CONTROLS, LNB	

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 3 (FUEL GAS ONLY)	47.00 MMBTU/H EA	SO2	1.2000 LB/H 0.0250 LB/MMBTU TRACE H2S	NSPS
		NOX	5.6000 LB/H 0.1200 LB/MMBTU AFR CONTROL, LNB	BACT
EMERGENCY FLARE	16.00 SCFH	SO2	0.1000 LB/H NONE	BACT
		NOX	0.1000 LB/H STEAM INJECTION	BACT

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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 MISSISSIPPI DNR ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY 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
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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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
FURNACE 4	57.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3/02 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #5	18.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3/02 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #6	15.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3/02 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #1	12.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3/02 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #2	19.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3/02 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #3	66.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3/02 ONE SCR UNIT ON FURNACES 1,2,3	

(CONTINUED) CHEVRON USA, INC.
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PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURANCE #7	22.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURANCE #8	28.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURANCE #9	26.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURANCE #10	15.00 MMBTU/H	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

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 01/18/80
PERMIT NO. 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 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	LOW NOX BURNERS & LEA FIRING	BACT
		VOC	0.0030 LB/MMBTU 0.6000 LB/H		BACT
REFORMER FURNACE, B-503,504,505*	536.90 MMBTU/H	NOX	0.1900 LB/MMBTU 101.7000 LB/H	COM. CONT. F. G. 02 METER	BACT
		VOC	0.0030 LB/MMBTU 1.5000 LB/H		BACT
C REFORMER, REGEN. VENT		NOX	COM. CONT. F. G. 02 METER		
		VOC	NONE		
A REFORMER FURNACE, B-102 - 106	93.10 MMBTU/H GAS	VOC	0.9000 LB/H 0.0100 MMBTU/H		BACT
		NOX	NONE 34.5000 LB/H		BACT

0.0400 LB/MBTU
NONE

(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

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
B REFORMER FURNACE, B-403,404,4*	330.00 MMBTU/H	NOX	50.8000 LB/H 0.2200 LB/MMBTU NONE	BACT
		VOC	2.3000 LB/H 0.0030 LB/MMBTU NONE	BACT
COKER FURNACE, B-101	108.20 MMBTU/H	NOX	23.7000 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

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER HOUSE BOILER, B-A3,3C	173.00 MMBTU/H	NOX	60.5000 LB/H	BACT
			0.3500 LB/MMBTU	
		VOC	NONE	BACT
			0.9000 LB/H	
TANKAGE		VOC	0.0050 LB/MMBTU	BACT
			NONE	
REFINERY, MSC. SOURCES		VOC	581.7000 LB/H	BACT
			BACT FOR FUGITIVE HC	
COMPLEX COOLING TOWERS		VOC	291.0000 LB/H	BACT
			BACT FOR FUGITIVE HC	
		VOC	234.4000 LB/H	BACT
			BACT FOR FUGITIVE HC	

NOTES -----

REFINERY MODIFICATIONS INCLUDE: INSTALLATION OF NEW "C" REFORMER, REVISION OF REFINERY FUEL BALANCE, INSTALLATION OF AIR PREHEAT 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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--

(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

BURNING BYPRODUCT GAS WITH OIL

PM 92.9000 T/YR

CO 55.5000 T/YR

STORAGE TANKS

VOC 70.2000 T/YR

NOTES -----

NOX EMISSION LIMIT ON PROCESS HEATERS WILL BE SPECIFIED UPON SUBMISSION OF DETAILED ENGINEERING SPECIFICATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 225.00 MBPSD

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 DATE OF PERMIT ISSUANCE-- 10/14/80
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
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INCIN.	15.70 MMBTU/H	NOX	2.3000 LB/H 0.1500 LB/MMBTU LEA FIRING	BACT
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HEATER, COKER CHARGE	113.00 MMBTU/H	CO	0.3000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
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HEATER, FCCU FEED	65.00 MMBTU/H	NOX	13.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
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		CO	2.0400 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
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		NOX	7.8000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
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		CO	1.1700 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
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(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, ISOSTRIPPER	89.00 MMBTU/H	NOX	10.7000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
GAS OIL HDS HEATER	73.00 MMBTU/H	NOX	8.8000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.3100 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
REBOILER- GAS OIL HDS	36.00 MMBTU/H	NOX	4.3000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.6500 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
REBOILER, CRUDE UNIT	55.00 MMBTU/H	NOX	6.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.9900 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, VACUUM CHARGE	51.00 MMBTU/H	NOX	5.4000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.9200 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE CHARGE	45.00 MMBTU/H	NOX	5.4000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.8100 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, TAIL GAS UNIT	6.30 MMBTU/H	NOX	0.8000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.1100 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, REFORMER	123.00 MMBTU/H	NOX	14.8000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	2.2200 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, NAPHTHA HDS	35.00 MMBTU/H	NOX	4.2000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.6300 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, KEROSENE HDS	16.30 MMBTU/H	NOX	2.0000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.2900 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, KEROSENE HDS	12.50 MMBTU/H	NOX	1.5000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.2300 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
HEATER, DIESEL HDS	9.10 MMBTU/H	NOX	1.1000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.1600 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
REBOILER, 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

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REGENERATOR, FCCU		NOX	160.0000 LB/H	BACT
		CO	103.9000 LB/H	BACT
			HIGH TEMP. REGENERATION	

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 12000.00 BPSD

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

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/08/81
PERMIT NO. (REGION FILE NO.) PSD-LA-419 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) JOHN BENHAM (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT 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

(CONTINUED) CONOCO, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, DEPROPANIZER	32.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 TOM DIGGS (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
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COKER HEATERS, 2 DELAYED REG.	99.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
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HEATER, CRACKED DISTIL HYDRO DE*	16.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
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HEATER, HEAVY VACUUM GAS OIL HY*	15.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
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INCIN., SULFUR RECOVERY PLANT	9.68 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
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NOTES -----
4 FUEL GAS-HEATERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

48000.00 BBL/D

PETROLEUM REFINING - AUXILIARY

SOURCE TYPE/SIZE---

COMPANY NAME/SITE LOCATION CRA, INC.

COFFEYVILLE, KS

MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VII
(AGENCY)

DANIEL RODRIGUEZ
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/04/80
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
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HEATER, UNIT 40 (RETROFIT)	51.00 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT 41 (BUILT, BUT NOT*)	32.00 MMBTU/H	NOX	0.1500 LB/MMBTU	BACT
HEATER, UNIT 42 (RELOCATE)	136.00 MMBTU/H	NOX	0.1600 LB/MMBTU CONVENT. BURN W/AIR PREHEAT	BACT
HEATER, UNIT 43 (RELOCATE)	27.60 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT 44 (NEW)	21.70 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT 45 (NEW)	62.20 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT

NOTES

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 60000.00 BBL/D

COMPANY NAME/SITE LOCATION DIAMOND SHAMROCK CORP.
P.O. BOX 631 AMERILLO, TX 77173 MOORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-346
DETERMINATION MADE BY EPA REGION VI
(AGENCY) JOHN BUNYAK
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 09/04/81
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 BOILER, 2	240.00 MMBTU/H	S02	103.8700 LB/H	SCRUB FUEL 6.7% S FUEL OIL	B/N
		NOX	130.0000 LB/H	LOW NOX BURNERS	BACT
		CO	6.8100 LB/H	EFFICIENT COMBUSTION	BACT
		PM	10.0600 LB/H	SCRUB FUEL 6.7% FUEL OIL	BACT
FCCU REGEN STACK, 2	45000.00 BBL/D	S02	931.5000 LB/H	NONE	BACT
		NOX	24.4000 LB/H	HIGH TEMP REGENERATION	BACT
		CO	195.0000 LB/H	HIGH TEMP REGENERATION	BACT
		PM	22.7000 LB/H	ESP	BACT
					98.80

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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)

DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP-- 1984
(214)-767-11594
(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

HEATERS, NAT. GAS-FIRED, 3 EA

275.00 MMBTU/H

NOX

0.2300 LB/MMBTU

CONTROL OF EXCESS OXYGEN

BACT

NOTES

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

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

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/30/81
PERMIT NO. (REGION FILE NO.) PSD-TX-387 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
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HEATERS, 4	75.00 MMBTU/H	PM	0.0042 LB/MMBTU	GAS FIRED	BACT
		SO2	0.0224 LB/MMBTU	REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMBTU	EFFICIENT COMBUSTION	BACT
BOILER	40.00 MMBTU/H	PM	0.0042 LB/MMBTU	GAS FIRED	BACT
		SO2	0.0214 LB/MMBTU	REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMBTU	EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT		SO2	9.1500 LB/H	CLAUS PLANT	BACT

(CONTINUED) FRIENDSWOOD REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR		PM	24.0000 LB/H ESP (0.85 LB/MLB OF COKE)	BACT
CO BOILER COMPLEX		SO2	48.0000 LB/H	NSPS
		NOX	103.5000 LB/H SULFUR REDUCTION CAT.	75.00 BACT
		CO	175.5000 LB/H NO CONTROL COBOILER (500PPM)	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 350.00 MMBTU/H

COMPANY NAME/SITE LOCATION GETTY OIL CO. BAKERSFIELD, CA 93308
ROUTE 1, BOX 197-X

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 08/24/82
PERMIT NO. SJ-81-11 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION IX JOE SLAMOVICH (415)-974-8235
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

STEAM GENERATOR, 7 240.00 BBL/D NOX 0.1500 LB/MMBTU PER GEN. 63.00
AMMONIA INJECTION

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 350000.00 BPSD

COMPANY NAME/SITE LOCATION GOOD HOPE REFIN., INC.
P.O. BOX 126, 257 PROSPECT AV* ST. CHARLES PARISH

GOOD HOPE, LA 70079

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/08/81
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

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		NSPS
		NOX	3.1000 LB/H 0.1200 LB/MMBTU	0.10 GRH2S/DSCF	BACT
		CO	0.4000 LB/H 0.0140 LB/MMBTU	LOW NOX BURNERS, LEA FIRING 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		NSPS
		NOX	3.1000 LB/H 0.1200 LB/MMBTU	0.10 GRH2S/DSCF	BACT
				LOW NOX BURNERS, LEA FIRING	

CO	0.4000 LB/H	BACT
	0.0140 LB/MBTU	
	COMBUSTION CONTROL	

(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 0.10 GRH2S/DSCF	NSPS
		NOX	38.0000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	4.5000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT
FCCU FURNACE	45.00 MMBTU/H	PM	0.5000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.9000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	5.4000 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 FURNACE	39.00 MMBTU/H	PM	0.4000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.7000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	4.7000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM COLUMN FURNACE	244.00 MMBTU/H	PM	2.6000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	4.7000 LB/H 0.0190 LB/MMBTU	NSPS
		NOX	0.10 GRH2S/DSCF 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

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR	82000.00 BBL/D	PM	64.9000 LB/H	NSPS
			THIRD-STAGE CYCLONE SEPARATOR	95.00
		S02	761.7000 LB/H	BACT
			SULFUR REDUCTION CATALYST	
		NOX	242.6000 LB/H	BACT
			LEA FIRING	
		CO	138.6000 LB/H	NSPS
			COMBUSTION CONTROL	
SULFUR PLANT INCIN.		S02	12.8000 LB/H	NSPS
			TAIL-GAS TREATMENT (SCOT)	98.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
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HEATERS, 4 EA	425.00 MMBTU/H	NOX	0.3000 LB/MMBTU AIR/FUEL RATIO	BACT
		S02	0.5800 LB/MMBTU	NSPS
		CO	LOW SULFUR FUEL (.5 % S) 0.0370 LB/MMBTU	BACT
		PM	EFFICIENT COMBUSTION 0.0580 LB/MMBTU	BACT
TREATING UNIT, SCOT TAIL GAS		S02	70.4000 LB/H DESULFURIZED FUEL	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

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

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-342
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
JOHN BUNYAK
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/21/80
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

SOLVENT EXTRACTION UNIT #1843	122.30 MMBTU/H	S02	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	S02	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	S02	39.3000 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

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CATALYTIC DEMAXING UNIT #1944	20.00 MMBTU/H	SO2	11.6000 LB/H 0.6000 LB/MMBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	6.0000 LB/H 0.3000 LB/MMBTU LEA CONTROLS, TRACE H2S	BACT
SULFUR RECOVERY UNIT #544	15.70 MMBTU/H	SO2	45.0000 LB/H NAT. GAS FIRED	NSPS 99.90
		NOX	1.9000 LB/H LEA CONTROLS, LNB	BACT
SOLVENT DEMAXING UNIT	100.10 MMBTU/H	SO2	3.0000 LB/H 0.0300 LB/MMBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	67.4000 LB/H 0.6700 LB/MMBTU NONE	BACT
SOLVENT DEMAXING UNIT #1943	35.60 MMBTU/H	SO2	1.1000 LB/H 0.0300 LB/MMBTU REFIN. GAS/NAT. GAS, TRACE H2S	NSPS
		NOX	23.9000 LB/H 0.6700 LB/MMBTU NONE	BACT
GULFINING UNIT #244	60.00 MMBTU/H	SO2	34.9000 LB/H 0.6000 LB/MMBTU 0.5% S IN OIL	NSPS
		NOX	18.0000 LB/H 0.3000 LB/MMBTU LEA CONTROL, LNB	BACT

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DELAYED COKING UNIT	116.00 MMBTU/H	SO2	3.5000 LB/H 0.0200 LB/MMBTU TRACE H2S	NSPS
		NOX	13.9000 LB/H 0.1200 LB/MMBTU LEA FIRING, LNB	BACT

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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HAWAIIAN INDEPEN. REFIN.

EMA 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

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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 09/05/80
 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

INCINERATOR 2.00 MMSCFD SO2 65.0000 LB/H INCINERATION BACT 0.00

NOTES -----
 4 YEAR PERMIT LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 66550.00 BPSD

COMPANY NAME/SITE LOCATION HILL PETROLEUM KROTZ SPRINGS TERNIN KROTZ SPRINGS, LA 70750 ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/10/80
 PERMIT NO. (REGION FILE NO.) PSD-LA-286A ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) (PHONE)
 TOM DIGGS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT 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

(CONTINUED) HILL PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SEPARATOR		VOC	0.3100 LB/H MAINTENANCE PROGRAM	BACT
PUMP SEALS		VOC	0.6500 LB/H MAINTENANCE PROGRAM	BACT
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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

(AGENCY)

JIM VAN SANDT

(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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 360

ID NUMBER OK-0014

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

COMPANY NAME/SITE LOCATION INDEPENDENT REFIN. WINNIE, TX JEFFERSON COUNTY

DETERMINATION BY BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/11/81
 PERMIT NO. (REGION FILE NO.) PSD-TX-388 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
HEATERS, 6	96.50 MMBTU/H	NOX	0.1100 LB/MMBTU LOW NOX BURNERS	NSPS
REBOILER	14.40 MMBTU/H	NOX	0.1100 LB/MMBTU LOW NOX BURNERS	NSPS

NOTES -----

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION LONGVIEW REFIN. LONGVIEW, TX GREGG COUNTY
5 KM SW POST OFFICE

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 05/08/81
PERMIT NO. PSD-TX-364 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
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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	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	BACT

CO LOW NOX BURNERS
 0.0200 LB/MMBTU
 EFFICIENT COMBUSTION

BACT

(CONTINUED) LONGVIEW REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	74.00 MMBTU/H	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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

ROBINSON, IL

CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. C 8005034

DETERMINATION MADE BY ILLINOIS EPA

(AGENCY)

CHRIS ROMAINE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/01/80

ESTIMATED DATE OF START-UP--

(217)-782-2113

(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

SO2

1.0000 LB/MMBTU

H2S FUEL LIM :0.10 GR/DSCF

NOX

0.3000 LB/MMBTU

LOW NOX BURNERS

PM

0.1000 LB/MMBTU

HEATER

250.00 MMBTU/H

SO2

0.8000 LB/MMBTU

NOX

0.3000 LB/MMBTU

LOW NOX BURNERS

PM

0.1000 LB/MMBTU

NOTES -----

SO2 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.

PAGE 6- 365

ID NUMBER IL-0007

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 DATE OF PERMIT ISSUANCE-- 03/03/80
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
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HEATER, CRUDE	175.00 MMBTU/H	NOX	36.7400 LB/H N. GAS 0.2200 LB/MMBTU N. GAS	BACT
		S02	LOW NOX BURN./LEA FIRING 4.3000 LB/H N. GAS 0.0260 LB/MMBTU N. GAS	NSPS
		NOX	<0.1 GR H2S/DSCF 52.5000 LB/H FUEL OIL 0.3000 LB/MMBTU FUEL OIL	BACT
		S02	LOW NOX BURN./LEA FIRING 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- 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 DANIEL RODRIGUEZ (816)-374-6525
 (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 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 35.00 MBPSD

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

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/31/80
PERMIT NO. TX-262 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 EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

VACUUM UNIT FURNACE	150.00 MBTU/H	PM	7.9000 LB/H OIL 0.0530 LB/MBTU OIL LIQUID OR GASEOUS FUEL	BACT
		SO2	70.0000 LB/H OIL 0.4670 LB/MBTU OIL	BACT
		NOX	0.42% S OIL 45.0000 LB/H OIL	BACT
		CO	0.3000 LB/MBTU OIL LEA FIRING	BACT
		VOC	5.5000 LB/H OIL 0.0370 LB/MBTU OIL COMBUSTION CONTROLS	LAER
		PM	1.1000 LB/H OIL 0.0070 LB/MBTU OIL 2.0000 LB/H GAS	BACT
		SO2	0.0130 LB/MBTU GAS LIQUID OR GASEOUS FUEL	NSPS
		NOX	3.5000 LB/H GAS 0.0230 LB/MBTU GAS 0.1% GR H2S/DSCF	BACT
			18.0000 LB/H GAS 0.1200 LB/MBTU GAS	

CO	LEA FIRING	BACT
	2.3000 LB/H GAS	
	0.0150 LB/MMBTU GAS	
VOC	COMBUSTION CONTROLS	BACT
	0.4000 LB/H GAS	
	0.0070 LB/MMBTU GAS	

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGEN		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
ISOSTRIPPER REBOILER	90.00 MMBTU/H	PM	4.7000 LB/H OIL 0.0520 LB/MMBTU OIL	BACT
		SO2	LIQUID OR GASEOUS FUEL 42.0000 LB/H OIL 0.4670 LB/MMBTU OIL	BACT
		NOX	0.42% S OIL 27.0000 LB/H OIL 0.3000 LB/MMBTU OIL	BACT
		CO	LEA FIRING 3.3000 LB/H OIL 0.0370 LB/MMBTU OIL	BACT
		VOC	COMBUSTION CONTROLS 0.7000 LB/H OIL 0.0080 LB/MMBTU OIL	BACT
		PM	1.2000 LB/H GAS 0.0130 LB/MMBTU GAS	BACT
		SO2	LIQUID OR GASEOUS FUEL 2.1000 LB/H GAS 0.0230 LB/MMBTU GAS	NSPS
		NOX	0.1% GR H2S/DSCF 10.8000 LB/H GAS 0.1200 LB/MMBTU GAS	BACT
		CO	LEA FIRING 1.4000 LB/H GAS 0.0160 LB/MMBTU GAS	BACT
			COMBUSTION CONTROLS	

VOC

0.2000 LB/H GAS
0.0080 LB/HBTU GAS

BACT

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR PLANT	2.70 MMBTU/H GAS			
		SO2	2.2000 LB/H	BACT
			SCOT TAIL GAS TREAT.	95.00
		NOX	0.3000 LB/H	BACT
			0.1200 LB/MMBTU	
			NONE	
FLARE		PM	TRACE	BACT
			SMOKELESS OPERATION	
		SO2	NEGLECTIBLE	BACT
			NONE	
		NOX	TRACE	BACT
			SMOKELESS/STEAM INJECTION	
		CO	TRACE	BACT
			SMOKELESS OPERATION	
BOILER	170.00 MMBTU/H OIL			
		PM	8.9000 LB/H OIL	BACT
			0.0520 LB/MMBTU OIL	
			LIQUID OR GASEOUS FUEL	
		SO2	79.3000 LB/H OIL	BACT
			0.4670 LB/MMBTU OIL	
			0.42% S FUEL	
		NOX	51.0000 LB/H OIL	BACT
			0.3000 LB/MMBTU OIL	
			LEA FIRING	
		CO	6.2000 LB/H OIL	BACT
			0.0360 LB/MMBTU OIL	
			COMBUSTION CONTROLS	
		VOC	1.2000 LB/H OIL	BACT
			0.0070 LB/MMBTU OIL	
		PM	2.3000 LB/H GAS	BACT
			0.0140 LB/MMBTU GAS	
			LIQUID OR GASEOUS FUEL	
		SO2	4.2000 LB/H GAS	BACT
			0.0250 LB/MMBTU GAS	
			0.1% GR H2S/DSCF	
		NOX	20.4000 LB/H GAS	BACT
			0.1200 LB/MMBTU GAS	
			COMBUSTION CONTROLS	

CO	2.6000 LB/H GAS	BACT
	0.0150 LB/MMBTU GAS	
	COMBUSTION CONTROL	
VOC	0.5000 LB/H GAS	BACT
	0.0070 LB/MMBTU GAS	

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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 MBBL EA	VOC	7.6000 LB/H TOTAL EXTERNAL FLOATING ROOFS	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

HEATER, CRUDE CHARGE 427.00 MMBTU/H

BACT

PM 3.2000 LB/H

0.0070 LB/MMBTU

GAS FIRED, F.G. 02 CONTROL

NSPS

S02 6.8000 LB/H

0.0100 LB/MMBTU

LOW S GAS (0.1 GR H2S/DSCF)

BACT

NOX 51.3000 LB/H

0.1200 LB/MMBTU

LEA FIRING, F.G. 02 CONTRL

BACT

VOC 0.8000 LB/H

0.0020 LB/MMBTU

F.G. 02 CONTROL

BACT

CO 4.6000 LB/H

0.0100 LB/MMBTU

F.G. 02 CONTROL

HEATER, VACUUM CHARGE 219.00 MMBTU/H

BACT

PM 1.7000 LB/H

0.0070 LB/MMBTU

GAS FIRED, F.G. 02 CONTRL.

NSPS

S02 3.5000 LB/H

0.0200 LB/MMBTU

LOW S GAS (0.1 GR H2S/DSCF)

NOX	26.2000 LB/H	BACT
	0.1200 LB/MMBTU	
	1EA FIRING, F.G. 02 CONTRL	
VOC	0.4000 LB/H	BACT
	0.0020 LB/MMBTU	
	F.G. 02 CONTROL	
CO	2.3000 LB/H	BACT
	0.0100 LB/MMBTU	
	F.G. 02 CONTROL	

(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
COKER HEATER	401.00 MMBTU/H	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 LEA FIRING, F.G 02 CONTRL	BACT
		CO	4.7000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
FCCU REGENERATOR	24.90 MMBL/D	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	85.00 BACT
		VOC	12.7000 LB/H LEA FIRING, F.G. 02 CONTRL	BACT
		CO	61.2000 LB/H F.G. 02 CONTROL 0.0500 % BY VOL.	NSPS
HEATER, HYDROHEATER FEED	147.00 MMBTU/H	PM	1.1000 LB/H 0.0070 LB/MMBTU	BACT
		SO2	2.6000 LB/H 0.0200 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	NSPS
		NOX	17.6000 LB/H 0.1200 LB/MMBTU LOW S GAS (0.1 GR H2S/DSCF) LEA FIRING, F.G. 02 CONTRL	BACT

VOC	0.3000 LB/H	BACT
	0.0020 LB/MMBTU	
	F.. O2 CONTROL	
CO	1.7000 LB/H	BACT
	0.0100 LB/MMBTU	
	F.. O2 CONTROL	

(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, 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 LOW S GAS, 0.1 GR H2S/DSCF	BACT
		VOC	0.8000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTRL	BACT
		CO	4.1000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTRL	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
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	BACT
		NOX	321.9000 LB/H 0.1200 LB/MMBTU LOW S GAS, 0.7% S/LB	BACT
		VOC	5.3000 LB/H 0.0020 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT

CO	26.8000 LB/H	F.G. 02 CONTROL	
	0.0100 LB/HMBTU		BACT
		F.G. 02 CONTROLS	

(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, PENEX ISOMER FEED	15.00 MMBTU/H	PM	0.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. O2 CONTROL	BACT
		SO2	0.3000 LB/H 0.0200 LB/MMBTU	NSPS
		NOX	LOW S GAS, 0.1 GR H2S/DSCF 1.7000 LB/H 0.1200 LB/MMBTU	BACT
		VOC	LEA FIRING, F.G. O2 CONTRL TRACE	BACT
		CO	F.G. O2 CONTROL 0.2000 LB/H 0.0100 LB/MMBTU	BACT
			F.G. O2 CONTROL	
INCIN., SULFUR PLANT	48.00 MMBTU/H	PM	0.4000 LB/H 0.0080 LB/MMBTU	BACT
			NONE	
		SO2	26.0000 LB/H 0.0200 % BY VOL.	NSPS
		NOX	SULFUR PLANT, SULFUR RECOVERY 67.4000 LB/H	99.90 BACT
		VOC	1.4000 LB/MMBTU LEA FIRING, F.G. O2 CONTRL	BACT
		CO	0.1000 LB/H 0.0020 LB/MMBTU F.G. O2 CONTROL	BACT
			0.4000 LB/H 0.0080 LB/MMBTU F.G. O2 CONTROL	BACT
HEATER, HF ALK ISOSTRIPPER REBO*	233.00 MMBTU/H	PM	1.7000 LB/H 0.0070 LB/MMBTU	BACT
		SO2	GAS FIRED, F.G. O2 CONTRL 4.0000 LB/H 0.0200 LB/MMBTU	NSPS
		NOX	LOW S GAS, 0.1 GR H2S/DSCF 28.0000 LB/H	BACT

VOC	0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
	0.5000 LB/H	
	0.0020 LB/MMBTU	
	F.G. 02 CONTROLS	
CO	2.7000 LB/H	BACT
	0.0100 LB/MMBTU	
	F.G. 02 CONTROL	

(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, BUTAMER ISOMER	12.00 MMBTU/H	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	BACT
		NOX	LOW S GAS, 0.1 GR H2S/DSCF 1.4000 LB/H 0.1200 LB/MMBTU	BACT
		VOC	LEA FIRING, F.G. 02 CONTRL TRACE	BACT
		CO	F.G. 02 CONTROL 0.1000 LB/H 0.0100 LB/MMBTU	BACT
			F.G. 02 CONTROL	
		SO2	112.1000 LB/H NONE	
		NOX	78.8000 LB/H	BACT
		VOC	STEAM INJECTION 3.3000 LB/H	BACT
		CO	STEAM INJECTION 17.8000 LB/H	BACT
BOILER	255.00 MMBTU/H	PM	STEAM INJECTION 0.0000 LB/H	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	NSPS
		NOX	LOW S GAS, 0.1 GR H2S/DSCF 31.7000 LB/H 0.1200 LB/MMBTU	BACT
		VOC	LEA FIRING, F.G. 02 CONTROL 0.4000 LB/H 0.0020 LB/MMBTU	BACT
			F.G. 02 CONTROL	

CO

2.3000 LB/H
0.0100 LB/MMBTU
F.G. O2 CONTROL

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, OIL	163.00 MMBTU/H	PM	1.2000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.6. 02 CONTRL	BACT
		SO2	2.8000 LB/H 0.0100 LB/MMBTU	NSPS
		NOX	LOW S GAS, 0.1 GR H2S/DSCF 19.6000 LB/H 0.1200 LB/MMBTU	BACT
		VOC	LEA FIRING, F.6. 02 CONTROL 0.4000 LB/H 0.0020 LB/MMBTU	BACT
		CO	F.G. 02 CONTROL 1.9000 LB/H 0.0100 LB/MMBTU	BACT
HEATER, SCOT UNIT FEED	5.00 MMBTU/H	PM	F.G. 02 CONTROL 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	NONE TRACE NONE	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU NONE	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

04/29/1983

130000.00 BPSD

BORGER, TX

HUTCHINSON COUNTY

DATE OF PERMIT ISSUANCE-- 10/15/81

ESTIMATED DATE OF START-UP--

(214)-767-1594

(AGENCY CONTACT PERSON)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

EMISSION LIMITS

**POLLUTANT
EMITTED**

EMISSION LIMITS

... & BASIS
... PCT EFF

650.00 H? EA

SO2	0.0320	LB/MBTU GAS
	0.8000	LB/MBTU OIL
NOX	0.1360	LB/MBTU GAS
	0.4000	LB/MBTU OIL
VOC	0.0036	LB/MBTU GAS
	0.0070	LB/MBTU OIL
CO	0.0170	LB/MBTU GAS
	0.0340	LB/MBTU OIL
PM	0.0100	LB/MBTU GAS
	0.0700	LB/MBTU OIL
SO2	0.0320	LB/MBTU GAS
	0.8000	LB/MBTU OIL
NOX	0.1360	LB/MBTU GAS
	0.4000	LB/MBTU OIL
VOC	0.0036	LB/MBTU GAS

3000.00 HP EA

0.0070 LB/MMBTU OIL
02 MONITORING
0.0170 LB/MMBTU GAS
0.0340 LB/MMBTU OIL
02 MONITORING
0.0100 LB/MMBTU GAS
0.0700 LB/MMBTU OIL

CO

PM

(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4	32.00 MMBTU/H			
		SO2	0.0320 LB/MMBTU GAS AS FUEL	
		NOX	0.1360 LB/MMBTU O2 MONITORING	
		VOC	0.0036 LB/MMBTU O2 MONITORING	
		CO	0.0170 LB/MMBTU O2 MONITORING	
		PM	0.0100 LB/MMBTU GAS AS FUEL	
CRUDE OIL TANKS, 3	200.00 MMBL	VOC	1.8300 T/YR EA EPA EQUIV. STAND & MAINT. PROG	
FUGITIVE		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 O2 MONITORING	
		VOC	0.0014 LB/MMBTU O2 MONITORING	
		CO	0.0170 LB/MMBTU O2 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	

NOTES -----
NATURAL GAS FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 389

ID NUMBER TX-0052

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

COMPANY NAME/SITE LOCATION PROCESS REFIN. CO. BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/19/79
 PERMIT NO. SJ-78-27 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX MATT HABER (415)-974-8058
 (AGENCY) (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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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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

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
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BOILER AND HEATER

NOX	0.4300 LB/MMBTU 2H AV	LOW NOX BURNERS		
SO2			FUEL LIM:H2S-.1GR/DSCF,S-.4%MT	
H2S			SCOT TAIL GAS UNIT	

CLAUS SULFUR RECOVERY UNIT

FCC UNIT & CATALYST REGEN.

PM	1.0000 LB/MLB COKE BURNED	3 STAGE CATALYST SEP. & ESP		
CO		CO BOILER		
SO2			FUEL LIM:H2S-.1GR/DSCF,S-.1%MT	

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 PROGRESS,
 COVERED OIL/WATER SEPERATOR, VAPOR RECOVERY ON LIGHT GASOLINE TANKS, AND DOUBLE SEALED FLOATING ROOF TANKS ON OTHER GASOLINE T
 ANKS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 100.00 MBPSD

COMPANY NAME/SITE LOCATION SABER REFIN. 6560 UPRIVER ROAD CORPUS CHRISTI, TX NEUCES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 05/08/81
PERMIT NO. (REGION FILE NO.) PSD-TX-324 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (214)-767-1594
(AGENCY) JOHN BUNYAK (PHONE)
(AGENCY CONTACT PERSON)PROCESSSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

HEATERS, 5	365.00 MMBTU/H	PM	0.0100 LB/MMBTU	REF. FIELD GAS	BACT
		SO2	0.0140 LB/MMBTU	REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU	FIRE REFINERY FLUE GAS	BACT
		CO	0.0160 LB/MMBTU	LOW NOX BURNERS	BACT
				EFFICIENT COMBUSTION	
FURNACES, 5	178.00 MMBTU/H	PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU	REF. FUEL GAS	BACT
		CO	0.0160 LB/MMBTU	LOW NOX BURNERS	BACT
				EFFICIENT COMBUSTION	
REBOILERS, 2	158.00 MMBTU/H	PM	0.0160 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	REF. FUEL GAS	NSPS
				REF. FUEL GAS	

NOX	0.1200 LB/MMBTU	BACT
	LOW NOX BURNERS	
CO	0.0160 LB/MMBTU	BACT
	EFFICIENT COMBUSTION	

(CONTINUED) SABER REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMERS, 2	356.00 MMBTU/H	PM	0.0100 LB/MMSTU 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/MMSTU 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
		NOX	203.0000 LB/H NO CONTROLS AVAILABLE	98.20 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 67.00 MBPSD
 COMPANY NAME/SITE LOCATION SIGHORE 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 EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

HEATER, #1 CRUDE	59.50 MMBTU/H	PM	2.7500 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	22.1800 LB/H		BACT
		NOX	9.3400 LB/H	0.7% S FUEL OIL	BACT
		CO	2.1300 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, LUBE CRUDE	10.80 MMBTU/H	PM	0.0600 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.2300 LB/H		BACT
		NOX	2.4800 LB/H	0.7% S FUEL OIL	BACT
		CO	0.1800 LB/H	EFFICIENT COMBUSTION	BACT
FCCU REGENERATOR	40.00 MBPSD	PM	12.0000 LB/H	EFFICIENT COMBUSTION	NSPS
		SO2	205.4200 LB/H	ESP	90.00
				HIGH TEMP REGEN.	BACT

NOX	37.0100	LB/H		BACT
		HIGH	TEMP REGEN.	
CO	90.1200	LB/H		BACT
		HIGH	TEMP REGEN.	

(CONTINUED) SIGHORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		... & BASIS ... PCT EFF
			CONTROL EQUIPMENT OR PROCESS MODIFICATION		
REBOILER, ISOSTRIPPER	48.80 MMBTU/H	PM	3.3100 LB/H		BACT
			EFFICIENT COMBUSTION		
		SO2	38.6000 LB/H		BACT
			0.7% S FUEL OIL		
		NOX	32.8700 LB/H		BACT
			EFFICIENT COMBUSTION		
		CO	1.6500 LB/H		BACT
			EFFICIENT COMBUSTION		
BOILERS	167.80 MMBTU/H	PM	11.3600 LB/H		BACT
			EFFICIENT COMBUSTION		
		SO2	132.7200 LB/H		BACT
			0.7% S FUEL OIL		
		NOX	113.0400 LB/H		BACT
			EFFICIENT COMBUSTION		
		CO	9.6800 LB/H		BACT
			EFFICIENT COMBUSTION		
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H	PM	2.7100 LB/H		BACT
			EFFICIENT COMBUSTION		
		SO2	31.6400 LB/H		BACT
			0.7% S FUEL OIL		
		NOX	26.9500 LB/H		BACT
			EFFICIENT COMBUSTION		
		CO	1.3500 LB/H		BACT
			EFFICIENT COMBUSTION		
HEATER, VACUUM DISTALLATION	96.50 MMBTU/H	PM	1.6000 LB/H		BACT
			EFFICIENT COMBUSTION		
		SO2	19.4900 LB/H		BACT
			.7% S FUEL,SCRUB TO .1 GR/DSCF		
		NOX	20.8000 LB/H		BACT
			EFFICIENT COMBUSTION		
		CO	2.5000 LB/H		BACT
			EFFICIENT COMBUSTION		

(CONTINUED) SIGHORE REFIN. CO.					... & BASIS		
PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... PCT EFF			
HEATER, #2 CRUDE UNIT	18.10 MMBTU/H	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			

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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
		NOX	4.4600 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.6300 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA SPLITTER	27.30 MMBTU/H	PM	0.1400 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.7500 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.3400 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.4700 LB/H EFFICIENT COMBUSTION	BACT
HEATER, 1ST REFORMER	59.50 MMBTU/H	PM	0.3100 LB/H EFFICIENT COMBUSTION	BACT
		SO2	1.6300 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	7.2900 LB/H EFFICIENT COMBUSTION	BACT
		CO	1.0300 LB/H EFFICIENT COMBUSTION	BACT
HEATER, 2ND REFORMER	52.80 MMBTU/H	PM	0.2700 LB/H EFFICIENT COMBUSTION	BACT
		SO2	1.4500 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	6.4700 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.9200 LB/H EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 3RD REFORMER	26.40 MMBTU/H	PM	0.1400 LB/H EFFICIENT OPERATION	BACT
		SO2	0.7200 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.2300 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.4600 LB/H EFFICIENT COMBUSTION	BACT
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

(CONTINUED) SIGHORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, GAS OIL HDS CHARGE	97.80 MMBTU/H	PM	0.5000 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO2	2.6800 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	11.9800 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	1.7000 LB/H	BACT
			EFFICIENT COMBUSTION	
REBOILER, DEETHANIZER	25.20 MMBTU/H	PM	0.1300 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO2	0.6900 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.0900 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.4400 LB/H	BACT
			EFFICIENT COMBUSTION	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
(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

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.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 - NMD
(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

NO2

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

NO2

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

NO2

0.1470 LB/MMBTU

CO

0.0150 LB/MMBTU

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 403

ID NUMBER OH-0038

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 63.00 MMBTU/H

COMPANY NAME/SITE LOCATION SUNOCO MARCUS HOOK, PA DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 78PA10 DATE OF PERMIT ISSUANCE-- 03/20/79
 DETERMINATION MADE BY EPA REGION III ESTIMATED DATE OF START-UP-- 1980
 (AGENCY) VERNON BUTLER (215)-597-2711
 (AGENCY CONTACT PERSON) (PHONE)

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

HEATER/BOILER 63.00 MMBTU/H
 SO2 56.0000 LB/H
 NOX 23.0000 LB/H
 1/2 SULFUR FUEL OIL
 BACT
 BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TENNECO

CHALMETTE, LA

ST. BERNARD PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-199
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/23/81
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, 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 0.0360 LB/MMBTU
NONE

BACT

(CONTINUED) TENNECO

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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FCCU REGEN	42000.00 BPSD	CO	212.8000 LB/H COMPLIANCE W/NSPS	NSPS
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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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 11/16/81
 PERMIT NO. (REGION FILE NO.) PSD-LA-420 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY JOHN BUNYAK (214)-767-1594
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT 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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 04/23/81
 PERMIT NO. (REGION FILE NO.) PSD-LA-378 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
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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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

FCCU	170.00 MBBL/D	SO2	406.3000 LB/H	SOX REDUCTION CATALYST	NSPS	75.00
HEATER #1407	30.74 SCFM	SO2	4.5000 LB/H	0.1 GR/DSCF, AMINE SCRUB.	NSPS	
FLUE GAS SCRUB./SULFUR RECOVERY		SO2	1.1000 LB/H SEE NOTE	TAIL GAS TREATING UNIT	NSPS	99.97

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
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CO BOILER	92700.00 LB/H	CO	45.7000 LB/H	LAER
		SO2	0.5000 % S FUEL	99.40 LAER
		NOX	41.0000 LB/H	BACT
COMBUSTION MODIFICATION BASED ON 0.3 LB/MMBTU				

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 DATE OF PERMIT ISSUANCE-- 03/12/80
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
 (AGENCY) (AGENCY) (214)-767-1594
 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
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HEATER, VACUUM	66.65 MMBTU/H	SO2	1.2700 LB/H 0.0190 LB/MMBTU FUEL GAS: 0.1 GR/DSCF H2S	NSPS
		PM	1.5100 LB/H 0.0230 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	11.6000 LB/H 0.1740 LB/MMBTU COMBUS. CONTROL/LOW NOX BURN.	BACT
		CO	1.6700 LB/H 0.0250 LB/MMBTU COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0024 LB/MMBTU COMBUSTION CONTROL	BACT
FCC UNIT	17000.00 BBL/D	SO2	64.1000 LB/H F. G. :0.1 GR/DSCF H2S	NSPS
		PM	12.0000 LB/H 1.0000 LB/MLB COKE BURN OFF ESP	NSPS
		NOX	29.4000 LB/H	BACT

CO	89.1000 LB/H	CMBST. CONTRL. & LOW NOX BURN.	NSPS
VOC	2.6000 LB/H	HIGH TEMP. REGENERATION	BACT
		COMBUSTION CONTROL	

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, ISOSTRIPPER	38.24 MMBTU/H			
		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
TAIL GAS INCIN		SO2	39.7000 LB/H NO CONTROL	BACT
		NOX	0.0790 LB/H NO CONTROL	BACT
REGENERATOR, HYDROTREATER CATAL*		SO2	0.2400 LB/H F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	0.7900 LB/H COMBUSTION CONTROL	BACT
HEATER, REFORMER	161.00 MMBTU/H	SO2	1.9000 LB/H 0.0120 LB/MMBTU F.G. : 0.1 GR/DSCF	NSPS
		PM	0.0790 LB/H 0.0005 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H 0.2700 LB/MMBTU COMBUSTION CONTROL	BACT
		CO	6.7500 LB/H 0.0420 LB/MMBTU COMBUSTION CONTROL	BACT

BACT

0.8000 LB/H
0.0050 LB/HBTU
COMBUSTION CONTROL

VOC

(CONTINUED) UNI OIL

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

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 02/13/80
 PERMIT NO. (REGION FILE NO.) PSD-LA-232 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
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CATALYTIC REGEN	PM	14.6000 LB/H	3 STAGE CYCLONE		BACT 94.00 NSPS
	S02	265.2000 LB/H	LOW H2S FUEL (OIL LB/DCSF)		
	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
SULFUR RECOVERY PLANT	S02	2.1000 LB/H	NONE		NSPS
		50.00 MMBTU/H			
FCCU FURNACE	PM	0.0200 LB/MMBTU	EFFICIENT OPERATION		BACT
	S02	0.0260 LB/MMBTU	LOW H2S FUEL		NSPS
	NOX	0.2300 LB/MMBTU	LOW EXCESS AIR - COMBST CONTRL		BACT
	VOC	0.0060 LB/MMBTU	EFFICIENT OPERATION		BACT

NSPS

0.0200 LB/MMBTU
LOW EXCESS AIR

CO

(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 MBTU/H	PM	0.0200 LB/MBTU EFFICIENT OPERATION	BACT
		SO2	0.0260 LB/MBTU LOW H2S FUEL	NSPS
		NOX	0.2300 LB/MBTU COMBUSTION CONTROLS	BACT
		VOC	0.0060 LB/MBTU EFFICIENT OPERATION	BACT
		CO	0.0200 LB/MBTU LOW EXCESS AIR	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 21.00 MBBL/D

COMPANY NAME/SITE LOCATION GARY WESTERN REFIN.
GARY COMMUNITY RIAL 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) (303)-837-3763
(AGENCY CONTACT PERSON) (PHONE)

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

VAP. REC. GAS CONT.	18.00 MMSCFD	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

(CONTINUED) GARY WESTERN REFIN.

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 184000.00 BPSD

COMPANY NAME/SITE LOCATION HAMPTON ROADS ENERGY CO. PORTSMOUTH, VA PORTSMOUTH CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 78VA01
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)
 EILEEN GLEN
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/25/80
 ESTIMATED DATE OF START-UP--
 (215)-597-8187
 (PHONE)

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

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

(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				
HEATER, DISTILLATE HDS, STACK 2.	130.00 MMBTU/H	SO2	152.0000 LB/H BEACON UNIT OR EQUIVALENT	NAAQ 99.50
		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	BACT
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	BACT
HEATER, CATALYTIC REFORMER, STA*	520.00 MMBTU/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	BACT
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 LOW NOX BURNERS	BACT
			GOOD OPERATION	BACT

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, ATMOS. CRUDE DISTIL, ST*	505.00 MMBTU/H	PM	29.0000 LB/H	BACT
		SO2	152.0000 LB/H 0.3% S FUEL	NAAQ
		NOX	95.0000 LB/H LOW NOX BURNERS	BACT
		CO	17.0000 LB/H GOOD OPERATION	BACT
GEN.UTILITY STEAM,STACK 3	60.00 MMBTU/H	PM	34.0000 LB/H	BACT
		SO2	180.0000 LB/H 0.3% S FUEL	NAAQ
		NO2	106.0000 LB/H LOW NOX BURNERS	BACT
		CO	20.0000 LB/H GOOD OPERATION	BACT
FLARING		SO2	8.0000 LB/H	BACT

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 WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

750.00 MBPSD

PETROLEUM REFINING - ENTIRE OPERATION

SOURCE TYPE/SIZE---

ST. CROIX, VI 00806

COMPANY NAME/SITE LOCATION HESS OIL - VIRGIN ISLANDS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NONE DATE OF PERMIT ISSUANCE-- 02/09/82

DETERMINATION MADE BY EPA REGION II ESTIMATED DATE OF START-UP-- 1985

(AGENCY) (AGENCY) (PHONE)

ED NOWAK

(AGENCY CONTACT PERSON)

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

FCC UNIT, 2 152734.00 BBL/D

S02 0.6000 % BY WT. BACT

PM 0.8000 LB/MLB COKE BURN USE OF LOW S FEED STOCK VOG BACT

NOX 175.0000 PPM 2% O2 ESP 95.00 BACT

CO 500.0000 PPM VOL LEA & LOW COMBST TEMPS BACT

VOC CO BURNING REGENERATOR

CO BURNING REGENERATOR

S02 0.1000 GR/DSCF H2S.GAS NSPS

PM 0.5000 % S OIL LOW S GAS OR OIL NSPS

NOX 0.2000 LB/MMBTU GAS PROPER MAINTENANCE BACT

CO 0.3000 LB/MMBTU OIL LEA & WASTE HEAT REC. BACT

VOC 0.2000 LB/MMBTU GAS LEA & WASTE HEAT REC. BACT

PROCESS HEATERS, 3

0.3000 LB/MMBTU OIL
LEA & WASTE HEAT REC.

(CONTINUED) HESS OIL - VIRGIN ISLANDS

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

VOC	GOOD ENGINEERING PRACT.	BACT
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NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 427

ID NUMBER VI-0002

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
4.0000 LB/MMBTU GAS
1.5000 LB/MMBTU PROPANE
FLUE GAS MONITORING

CO

(CONTINUED) HILL PETROLEUM CO.

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

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 ENITIED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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FBC COAL FIRED BOILER	50000.00 BTU/H	PM	0.0600 LB/MMBTU	99.00
		S02	MULTICLONE & BAGHOUSE 0.1400 LB/MMBTU	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFININGS - ENTIRE OPERATION 10.00 MBPSO

COMPANY NAME/SITE LOCATION MITCHELL ENERGY
HWY 380, 2 MI W OF BRIDGE PORT BRIDGEPORT, TX WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-139 DATE OF PERMIT ISSUANCE-- 07/24/81
DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
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
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HEATERS, 2	21.34 MMBTU/H	VOC	0.0030 LB/MMBTU EFFICIENT OPERATION	BACT
BOILER	12.55 MMBTU/H	VOC	0.0030 LB/MMBTU EFFICIENT OPERATION	BACT
FLARE		VOC	0.0460 LB/MMBTU EFFICIENT OPERATION	BACT
NALTHA 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

(CONTINUED) MITCHELL ENERGY

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

EPA REGION IX

(AGENCY)

DAVID SOLOMON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/22/80

ESTIMATED DATE OF START-UP--

(415)-454-8066

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... 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

VOC

TRAILER TANKS TO BE LEAK TIGHT

VALVES/FLANGES/PUMPS/COMPRESSORS

VOC

FUGITIVE I&M PROGRAM

WORK WATER SEPARATOR

VOC

REQUIRED TO BE COVERED

SUMP

VOC

REQUIRED TO BE COVERED

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

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

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

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

PROCESS	THROUGHPUT CAPACITY	POLLUTANT EMISSIONS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS
HEATER, CRUDE UNIT ATMOS.	94.00 MBTU/H	PM 9.0000 LB/H SO2 18.0000 LB/H NOX 36.0000 LB/H CO 3.0000 LB/H	0.37% S IN FUEL 2 STAGE + OFF-STOICH. COMB. GOOD OPERATION	BACT BACT BACT BACT
HEATER, CRUDE UNIT VACUUM	18.00 MBTU/H	PM 2.0000 LB/H SO2 3.0000 LB/H NOX 7.0000 LB/H CO 1.0000 LB/H	S IN FUEL 0.3% 2 STAGE + OFF-STOICH. COMB. GOOD OPERATION	BACT BACT BACT BACT
HEATER, VISBREAKER	44.00 MBTU/H	PM 4.0000 LB/H SO2 8.0000 LB/H NOX 17.0000 LB/H CO 1.0000 LB/H	S IN FUEL 0.3% 2 STAGE + OFF-STOICH. COMB.	BACT BACT BACT BACT

GOOD OPERATION

(CONTINUED) SWANN 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	1.0000 LB/H	BACT
		SO2	0.3000 LB/H	BACT
		NOX	BURN REFINERY GAS <0.0063% S	BACT
			11.0000 LB/H	
			2 STAGE + OFF-STOICH. COMB.	
		CO	1.0000 LB/H	BACT
			GOOD OPERATION	
HEATER, NAPHTHA HYDRODESULFURIZ*	16.00 MMBTU/H	PM	0.3000 LB/H	BACT
		SO2	0.1000 LB/H	BACT
		NOX	BURN REFINERY GAS <0.0063% S	BACT
			4.0000 LB/H	
			2 STAGE + OFF-STOICH. COMB.	
		CO	0.3000 LB/H	BACT
			GOOD OPERATION	
HEATER, DISTILLATE HYDRODESULFU*	16.00 MMBTU/H	PM	0.3000 LB/H	BACT
		SO2	0.1000 LB/H	BACT
		NOX	BURN REFINERY GAS <0.0063% S	BACT
			4.0000 LB/H	
			2 STAGE + OFF-STOICH. COMB.	
		CO	0.3000 LB/H	BACT
			GOOD OPERATION	
BOILER, STEAM	29.00 MMBTU/H	PM	0.5000 LB/H	BACT
		SO2	0.2000 LB/H	BACT
		NOX	BURN REFINERY GAS <0.0063% S	BACT
			7.0000 LB/H	
			2 STAGE & STOICHIOMETRIC COMB	
		CO	0.6000 LB/H	BACT
			GOOD OPERATION	
EMERGENCY FLARE SYS		SO2	0.0100 LB/H	BACT
		NOX	0.2000 LB/H	BACT

(CONTINUED) SWANN OIL CO.					
PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF	
POWER PLANT, TANKER	VARIABLE	PM	14.0000 LB/H		BACT
		SO2	211.0000 LB/H		BACT
		NOX	64.0000 LB/H		BACT
		CO	1.0000 LB/H		BACT
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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 200.00 MBPSD

COMPANY NAME/SITE LOCATION VIRGIN ISLANDS REFINERY CORP. ST. CROIX, VI
ESTATE BETHLEHAM

DETERMINATION 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 NCWAK (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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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/HMBTU GAS	GOOD BOILER OPERATION	BACT
PM	0.3000 LB/HMBTU OIL		BACT
SO2	0.3520 LB/HMBTU		BACT
	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	GOOD BOILER OPER./NO FUEL OIL	BACT
PM	0.3520 LB/HMBTU	STOICHIOM. COMBUST./NO FUEL OIL	BACT
SO2	3.0000 T/YR		BACT
	NO GAS<.1 GR/DSCF H2S		

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS				
		CO	369.0000 T/YR GOOD BOILER OPERATION	BACT
		VOC	72.0000 T/YR GOOD BOILER OPER.	BACT
		NOX	0.3000 LB/MMBTU OIL 0.2000 LB/MMBTU ALT. FUELS	BACT
		PM	0.3520 LB/MMBTU	BACT
		SO2	3683.0000 T/YR OIL<.33%S WT/ALT<.16R/DSCF H2S	BACT
FCC UNIT				
	175000.00 BBL/D	CO	565.0000 T/YR	NSPS
		VOC	3247.0000 T/YR	BACT
		NOX	0.3000 LB/MMBTU OIL 0.2000 LB/MMBTU ALT. FUELS	BACT
		PM	1.0000 LB/HLB COKE BURN 0.1000 LB/MMBTU SUPP. OIL	LAER
		SO2	79.0000 T/YR OIL<.33%S WT/ALT<.16R/DSCF H2S	NSPS
SULFUR RECOVERY PLANT				
		CO	29.0000 T/YR GOOD HEATER OPERATION	BACT
		VOC	35.0000 T/YR GOOD HEATER OPERATION	BACT
		NOX	0.3000 LB/MMBTU OIL 0.2000 LB/MMBTU, ALT.	BACT
		PM	0.3520 LB/MMBTU	BACT
		SO2	365.0000 T/YR CLAUS SYS. W/ 3 UNITS OIL<.33S WT/ALT<.16R/DSCF H2S	NSPS
PETROLEUM LIQUID STORAGE TANKS				
		VOC	937.0000 T/YR FLOATING ROOF TANKS	NSPS

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PUMPS, SEALS, VALVES, FLANGES		VOC	177.0000 T/YR	BACT
MARINE LOAD & UNLOAD FACILITY		VOC	64.0000 T/YR SEALS	SIP
INCINERATOR, MULTI-CHAMBER		CO	NONE GOOD OPERATION	BACT
		NOX	NONE GOOD OPERATION	BACT
		PM	0.3000 LB/H	
API WASTE OIL SEPERATOR		VOC	436.0000 T/YR FIXED COVER/FOAM SPHERES	NSPS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- BULK TERMINALS

COMPANY NAME/SITE LOCATION AMOCO OIL CO., GRANVILLE

MILWAUKEE, WI

DETERMINATION IS LAER FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 06/23/80

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

ESTIMATED DATE OF START-UP-- 1981

DETERMINATION MADE BY WISCONSIN DNR
(AGENCY)

ELIZABETH SPAETH
(AGENCY CONTACT PERSON)

(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 GASOLIN*

VOC

30.0000 MG/L

FLOAT ROOF & VAPOR RECOVERY SYS.

LAER
97.00

TERMINAL

71358.00 MGAL #2 OIL

VOC

80.0000 MG/L

VOC 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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SOURCE TYPE/SIZE--- BULK TERMINALS
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COMPANY NAME/SITE LOCATION ASHLAND PETROLEUM CO.
30TH & JONES ST.
LEXINGTON, KY 41015
KENTON COUNTY

DETERMINATION IS
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--
(502)-564-3382
(PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY POLLUTANT 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 ALIEVATE RETROFITTING EXISTING TANKS W/FLOATING ROOFS. PERMIT N/A TO BACT/LA
 ER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 02/12/82
 PERMIT NO. 8865 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY TEXAS ACB (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
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STORAGE TANKS, 49	CAPACITY VA*	VOC	FLARING EMIS., SEE NOTE 2 MAT. W/>0.5 PSIA VAP. PRESS.	BACT 99.00
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WASTE WATER SEPARATOR, SEE NOTE*		VOC	COVERS W/VENTS TO FLARES	BACT 99.00
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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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

(AGENCY)

BILL GIBBONS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/81

ESTIMATED DATE OF START-UP--

(918)-744-1000

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DRUM FILLING FACILITY

VOC

VAPOR RECOVERY LOOP

90.00

NOTES

DRUM FILLING FACILITY USED FOR WHOLESALING VARIOUS CHEMICALS. CONSERVANTS INSTALLED ON SHORTAGE TANKS, TOTAL STORAGE CAPACITY 60000 GALLONS. NOTE - PERMIT # T79-78 THRU T79-83 & T78-068

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 445

ID NUMBER OK-0011

SOURCE TYPE CODE 5.9

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

COMPANY NAME/SITE LOCATION ANR STORAGE CO.

EXCELSIOR TWP, MI 49000

KALKASKA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 67-80

DETERMINATION MADE BY MICHIGAN DNR

(AGENCY)

DAVID FERRIER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/01/80

ESTIMATED DATE OF START-UP-- 1981

(517)-322-1333

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

COMPRESSOR, NAT. GAS, 2 EA

3750.00 HP

NOX

12.0000 G/HP-H

RETARDED IGNITION

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 446

ID NUMBER MI-0015

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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)

GEORGE DEMIS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/13/81

ESTIMATED DATE OF START-UP--

(614)-864-3195

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 447

ID NUMBER OH-0024

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---		TRANSPORT & MARKETING - PETROLEUM PRODUCTS	
COMPANY NAME/SITE LOCATION		CRYSEN REFINING, WESTERN DIV.	
DETERMINATION IS PERMIT NO.		WOODS CROSS, UT	
DETERMINATION MADE BY		DATE OF PERMIT ISSUANCE-- 11/12/82	
UTAH BAQ (AGENCY)		ESTIMATED DATE OF START-UP-- 1983	
		(801)-533-6108 (PHONE)	
DONALD ROBINSON (AGENCY CONTACT PERSON)			
THROUGHPUT CAPACITY		EMISSION LIMITS	
NAPTHA TANK, 2		10000.00 BBL	
VOC		INTERNAL FLOATING ROOF	
PROCESSES SUBJECT TO THIS PERMIT		POLLUTANT EMITTED	
		CONTROL EQUIPMENT OR PROCESS MODIFICATION	
		... & BASIS ... PCT EFF	
NOTES -----			

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 22600.00 GAL/D

COMPANY NAME/SITE LOCATION DEPT. OF THE NAVY CORPUS CHRISTI, TX NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/15/82
 PERMIT NO. X3818 ESTIMATED DATE OF START-UP-- 1984
 DETERMINATION MADE BY TEXAS ACB (512)-451-5711
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

LOADING RACK/STORAGE TANKS, 2 6000.00 BBL VOC NIL EMISSIONS
 DISPLACED VAPORS ROUTED TO FLARE 99.90

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 2000.00 MMCF/D

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

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 4.0000 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---
TRANSPORT & MARKETING - PETROLEUM PRODUCTS
933.00 MBBL/D

COMPANY NAME/SITE LOCATION
NORTHERN TIER
AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-14
DETERMINATION MADE BY EPA REGION X
(AGENCY)

PAUL BOYS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/14/81
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

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

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 NORMAL EQUIP. OPERATION BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS SEE NOTE

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION CO. , ND BILLINGS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/12/83
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH DAKOTA SHD GARY HELBLING (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	SEE NOTE	SO2	SEE NOTE	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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 260.00 MMCF/D

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO. CARTHAGE, TX P.O. BOX 310 PONTALA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 01/11/80
 PERMIT NO. TX-206 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
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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
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

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTINGS

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 3.09 MMCF/D

COMPANY NAME/SITE LOCATION CRYSTAL EXPLORATION CO.,SECTION 18,T9N,* MARATHON, MI LAPEER COUNTY

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

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

SWEETENING FACILITY 3.09 MMCF/D S02 SEE NOTE 2 STAGE CAUSTIC SCRUBBER 96.00

NOTES
 RULE 403(4) OF THE RULES OF THE MICHIGAN APC COMMISSION REQUIRES BACT ON ALL NEW SWEETENING FACILITIES. DETERMINATION IS BASED ON A DETAILED ECONOMIC ANALYSIS AND EXPECTED EFFICIENCIES OF VARIOUS CONTROL SYSTEMS.
 THE LIMIT IN THIS CASE IS A 96% EFFICIENT CONTROL DEVICE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCF/D

COMPANY NAME/SITE LOCATION DELHI GAS PIPELINE CORP. ATHENS, TX HENDERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 04/29/82
 PERMIT NO. 8628 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY TEXAS ACB (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
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GAS PROCESSING PLANT - SULFUR	37.70 LT/D	SO2	92.9000 T/YR 400.0000 PPM	
GAS PROCESSING PLANT - GAS	60.00 MMCF/D	H2S	1.3000 T/YR 10.0000 PPM	99.70

NOTES -----
 CONCENTRATIONS OF SO2 AND H2S ARE CALCULATED ON A DRY, OXYGEN FREE BASIS AT INCINERATOR EXIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 11.50 MMCF/D
 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 EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

AMINE SWEETENING CLAUS 11.50 MMCF/D S02 155.0000 LB/H CLAUS PLANT BACT 90.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCF/D N. GAS

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

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

60.00 MMCF/D

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE---

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP.

NEAR ARTESIA, NM

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NM-389

DATE OF PERMIT ISSUANCE-- 12/10/81
ESTIMATED DATE OF START-UP-- 1981
(505)-984-0020
(PHONE)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

AIR QUALITY BUREAU - NMEID
(AGENCY)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... 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.

PAGE G- 459

ID NUMBER NM-0008

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 01/14/83
 PERMIT NO. PSD-NM-576 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID SHANKAR ANANTHAKRISHNA (505)-984-0020
 (AGENCY) (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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ACID GAS FLARE	7.50 MMSCF/F	SO2	703.0000 LB/H	DIETHANOL AMINE UNIT
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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

BOILERS

110.00 MBTU/H

PM

5.4000 LB/H

BACT

SO2

75.0000 LB/H

BACT

STRETTFORD

LOW S FUEL

NOX

74.0000 LB/H

BACT

STORAGE TANKS

1.00 MMBBL/YR

VOC

91.0000 T/YR

BACT

DBL SEALS, FLOAT. ROOF TANKS

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 461

ID NUMBER PA-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 30.00 MMCF/D

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. , ND WILLIAMS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/25/82
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY NORTH DAKOTA SHD (701)-224-2343
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

INCINERATOR STACK 30.00 MMCF/D S02 93.3000 LB/H BACT
 CLAUS PLANT. 98.50

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 10/08/81
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
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ENGINE, I.C. COMPRESSOR, 2 EA	585.00 HP EA	NOX	11.0000 G/HP-H AIR/FUEL RATIO	BACT
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NOTES -----
2 INTERNAL COMBUSTION COMPRESSOR ENGINES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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.
 PERMIT NO. (REGION FILE NO.) PSD-TX-314
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 JOE WINKLER
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/30/80
 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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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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. 813-81

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 M³/SCFD

SO2

81.1000 LB/MMSCF

CLAUS UNIT

85.00

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 465

ID NUMBER MI-0027

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 08/03/81
 PERMIT NO. (REGION FILE NO.) PSD-MS-037 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

NAT. GAS PROCESSING-SULFUR RECO* 50.00 MMCF/D S02 0.0030 LB/H EA TREATED NAT. GAS FOR BOILERS BACT

NOTES -----
 TWO BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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.

PERMIT NO. 2724

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

LES MONTGOMERY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/14/81
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

NATURAL GAS TREATING PLANT

117.00 MMSCFD

SO2

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 TO H2S. THE REMAINDER IS INCINERATED TO SO2.
THIS IS A SMALL UNIT IN AN ISOLATED LOCATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 467

ID NUMBER TX-0094

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 10.00 MMCF/D

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

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 12/23/81
PERMIT NO. (REGION FILE NO.) PSD-NM-156M-1 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 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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCF/D

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO. , ND 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 EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

INCINERATOR STACK S02 534.0000 LB/H CLAUD & 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 S02 EMISSION RATE WILL BE 534 LB/H & CAN HANDLE
 ABOUT ANOTHER 30 MMCF/D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

COMPANY NAME/SITE LOCATION B.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 (601)-533-6108
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
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STEAM GEN., 11 EA	50.00 MMBTU/H	SO2	0.0650 LB/MMBTU 1.2000 % S FUEL OIL SO2 SCRUBBER W/ EDUCTOR/VENTURI	95.00 BACT
		NOX	0.2000 LB/MMBTU LOW NOX BURNERS EXCESS O2 CONTROLLERS	50.00 LAER
		PM	0.0570 LB/MMBTU SO2 SCRUBBER W/ EDUCTOR/VENTURI	50.00 LAER
		PM	0.0100 LB/MMBTU SCRUBBER W/ ESP SECTION	90.00
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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 08/04/82
 PERMIT NO. NSR-4-4-9 LA-82-01 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION IX DAVID SOLOMON (415)-974-8240
 (AGENCY) (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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TURBINE & WASTE HEAT BOILER	6464.00 KW	SDX	14.0000 LB/H FGD SYSTEM	BACT 95.00
		BE	0.0000 LB/H WET SCRUBBER & FGD SYSTEM	99.00

NOTES -----
 36.0 BBL/S/H OF 1.34% SULFUR CRUDE OIL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 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% O2

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 07/16/82
PERMIT NO. NSR-4-4-8 SJ-79-32 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION IX (415)-974-8215
(AGENCY) BOB BAKER (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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BOILERS, 9	390.00 GAL/H, EA	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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 426.00 BBL/D
 COMPANY NAME/SITE LOCATION GEOKINETICS INC., OIL SHALE 40 MILES S. VERNAL, UT UTAH COUNTY

DETERMINATION IS BACT PERMIT NO. DATE OF PERMIT ISSUANCE-- 11/13/80
 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 EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

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

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 ... PCT EFF
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NAT. GAS SULFUR REMOVAL	225.00 MMSCFD	SO2	200.0000 LB/H EA	BACT 99.86
DIESEL ENGINES, 4 RIGS	1100.00 HP/ENGINE	CO	9.4000 LB/H-RIG	
			NONE	
		SO2	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 MMBTU/H	NOX	0.2000 LB/MMBTU	54.00
		SO2	1.0000 LB/H	
			LOW S FUEL	

SULFUR DEPOT BOILER	5.00 MMBTU/H	NOX	0.2000 LB/MMBTU	37.00
		SO2	2.2000 LB/H	
			LOW S FUEL	

(CONTINUED) MOBIL OIL EXPLORATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE GENERATOR, GAS-FIRED	7.50 MW	NOX	175.0000 PPM BY VOL.	
		SO2	1.0000 LB/H LOW S FUEL	
PLATFORM GENERATORS, 5 EA., GAS*	661.00 HP/ENGINE	NOX	146.0000 LB/H-PLATFORM NONE	
		CO	146.0000 LB/H-PLATFORM NONE	
		SO2	1.0000 LB/H-PLATFORM LOW S FUEL	

NOTES -----
DRILLING PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 1.00 MBBL/D

COMPANY NAME/SITE LOCATION OXY-LOGAN WASH MODIF.1980 NEAR DE BEQUE, CO GARFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/27/80
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY JOHN DALE (303)-837-3763
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

BOILER, ETC

CO	2.0000 LB/H	BACT
VOC	3.0000 LB/H	BACT
NOX	CONDENSOR	
	52.0000 LB/H	BACT
PM	CONDENSOR	60.00
	7.0000 LB/H	BACT
	DUST CONTROL	50.00
SO2	31.0000 LB/H	

RETORT 1000.00 BBL/D

CO	3640.0000 LB/H	BACT
VOC	154.0000 LB/H	BACT
HS	CONDENSOR	60.00
	376.0000 LB/H	BACT

NOTES
 OPERATION OVER IN 1982

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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.

DATE OF PERMIT ISSUANCE-- 11/16/82

PERMIT NO.

ESTIMATED DATE OF START-UP-- 1985

DETERMINATION MADE BY UTAH BAQ (AGENCY)

DONALD ROBINSON (AGENCY CONTACT PERSON)

(801)-533-6108 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

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

BOLTING, SCALING, HANDLING, DRI* 75000.00 T/D SHALE

FUG*

WATER SPRAYING

50.00

BLASTING 54000.00 LB ANFO/D

CO
NOX
FUG*

CRUSHING

75000.00 T/D

SETTLING

50.00

IN MINE TRANSFER

75000.00 T/D

PM 0.0150 GR/DSCF
BAGHOUSE

99.90

MINE MOBILE EQUIPMENT

11730.00 GAL/D DIESEL*

PM 0.0150 GR/DSCF
BAGHOUSE

99.00

PM

11.0000 LB/MMGAL
SETTLING

50.00

NOX

385.2000 CATALYTIC CONVERTER

10.00

SO2

31.2000 LB/MMGAL

90.00

VOC

2.8000 CATALYTIC CONV.

CO 4.5000

CATALYTIC CONV.

95.00

(CONTINUED) PARAHIO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MATERIAL HANDLING	75000.00 T/D			
		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		PM	0.0050 GR/DSCF BAGHOUSE	99.00
		PM	0.0200 GR/DSCF WET SCRUBBERS	99.00
STORAGE PILES	VARIOUS SIZ*	PM		
			WATER SPRAYS	50.00
HYDROGEN PLANT REFORMER FURNACE	800.00 MMBTU/H	PM	15.0000 LB/MMCF	
		CO	17.0000 LB/MMCF	
		VOC	3.0000 LB/MMCF	
		NOX	161.0000 LB/MMCF	
			LOW NOX BURNERS	30.00
		SO2	0.6000 LB/MMCF	
		PM	0.0150 LB/MMBTU	
		CO	0.0170 LB/MMBTU	
		VOC	0.0030 LB/MMBTU	
		NOX	0.1610 LB/MMBTU	
			LOW NOX BURNERS	30.00
		SO2	9.8300 LB/H	
			HOLMES STRETTFORD UNIT	99.60
HYDROTREATER FEED FURNACE	41.25 MMBTU/H NG	PM	15.0000 LB/MMCF	
		CO	17.0000 LB/MMCF	
		VOC	3.0000 LB/MMCF	
		NOX	161.0000 LB/MMCF	
		SO2	0.6000 LB/MMCF	
			LOW NOX BURNERS	30.00
POWER GENERATION FACILITY	2110.00 MMBTU/H	PM	0.0150 LB/MMBTU	
		CO	0.0170 LB/MMBTU	
		VOC	0.0030 LB/MMBTU	
		NOX	0.2500 LB/MMBTU	
			WATER WASH OF RETORT OFF GAS TO REMOVE NH3	NSPS
		NOX	0.2000 LB/MMBTU	97.00
			WATER WASH OF RETORT OFF GAS TO REMOVE NH3	NSPS
				97.00

SO2	0.1400 LB/MMBTU REMOVE H2S BEFORE COMBUST.	99.60
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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 MMBTU/H #2 *	PM SO2 CO VOC NOX	2.0000 LB/MMGAL 0.5000 % S CONTENT 5.0000 LB/MMGAL 1.0000 LB/MMGAL 22.0000 LB/MMGAL	
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 -----
.005 PM LIMITATION IS FOR LARGER BAGHOUSES ON CRUSHERS. PWR. GEN. - 3 STACKS. GAS TURBINE & WASTE HEAT BOILER EACH. BOILERS PR
OVIDE 36.73% HEAT INPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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. DATE OF PERMIT ISSUANCE-- 12/20/81
 PERMIT NO. 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 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	99.80
			ESP	
ORE CONY-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

(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
PRIM. CRUSH/SCR	4400.00 T/D SHALE	PM	0.2400 LB/H BAGHOUSE	BACT 99.00
PROC SHALE TRANS.,FEED	4400.00 T/D SHALE	PM	0.4000 LB/H BAGHOUSE	BACT 99.00
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 MMBTU/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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 50.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS TAR SANDS, LTD LARVOR, 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 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 45.00 MMBL/D

COMPANY NAME/SITE LOCATION TOSCO OIL SHALE-1981 NEAR BONANZA, UT UINTAH 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 JOHN DALE (303)-837-3763
 (AGENCY) (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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2 AUX BOILERS

CO	2.9000 LB/H			BACT
NOX	18.0000 LB/H			BACT
PM	3.2000 LB/H	DESIGN		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

MINE VENTS

PM	10.6000 LB/H			BACT
	14.9000 LB/H	SETTLING		

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			

(CONTINUED) TOSCO OIL SHALE-1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ORE STORAGE		PM	4.7000 LB/H BAGHOUSE	BACT 99.70
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 MBBL/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 NOX PM SO2	10.8000 LB/H 90.3000 LB/H 12.0000 LB/H 30.1000 LB/H LOW S FUEL	BACT BACT BACT BACT
6 ELUTRIATORS		NOX PM	15.8000 LB/H 42.0000 LB/H SCRUBBER	BACT BACT 99.99
6 PROCESS SHALE WET		SO2 PM	5.3000 LB/H 43.2000 LB/H SCRUBBER	BACT BACT 98.40

(CONTINUED) TOSCO OIL SHALE-1981

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

VOC	303.0000	LB/H	BACT	85.00
		INCINERATOR	BACT	85.00
NOX	1588.2000	LB/H	BACT	99.99
PM	90.0000	LB/H	BACT	95.00
S02	62.5000	LB/H	BACT	95.00
		SCRUBBER		
		ABSORPTION		

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 489

ID NUMBER UT-0020

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 10.00 MBBL/D

COMPANY NAME/SITE LOCATION UNION OIL SHALE #1 NEAR PARACHUTE, CO GARFIELD COUNTY

DETERMINATION IS PERMIT NO. DETERMINATION MADE BY EPA REGION VIII JOHN DALE DATE OF PERMIT ISSUANCE-- 05/27/81 ESTIMATED DATE OF START-UP-- (303)-837-3763 (PHONE) (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT 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
					99.90

(CONTINUED) UNION OIL SHALE #1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR REC. UNIT	12.00 T/D	SO2	300.0000 PPM 1.9000 LB/H CLAUS&TAIL GAS	BACT 99.90

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 491

ID NUMBER CO-0014

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 UINTAH 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 BAQ (801)-533-6108
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

IN-MINE PRIMARY CRUSHING	89000.00 TPSD	PM	WET SUPPRESSION	0.08
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

(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
FINES CONVEYOR, POINTS TRANSFER	900.00 TPSD	VE	20.0000 % OPACITY WET SUPPRESSION	80.00
CONVEYORS				
UNION RETORT SILO FEED	46400.00 TPSD	PM	0.0130 GR/DSCF FULLY COVERED	90.00
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	PM	0.0130 GR/DSCF BAGHOUSE	99.70
SUPERIOR PROCESSED CONVEYOR SHA*	84000.00 TPSD	VE	20.0000 % OPACITY FULLY COVERED CONVEYORS 20% MOISTURE	99.00
MAIN ACCESS ROADS		VE	20.0000 % OPACITY FULLY COVERED CONVEYORS 20% MOISTURE	99.00
2ND LIGHT DUTY ROADS		PM	PAVE PAVING	95.00
		PM	MINIMIZE CHEMICAL SUPPRESSION	75.00

(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
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
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			

(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
PHASE III-UNION B RECYCLE GAS H*	960.00 MMBTU/H			
		PM	0.0210 LB/MMBTU	
			5.0000 LB/H STACK	
		SO2	0.0230 LB/MMBTU	
			5.5000 LB/H STACK	
			TREATED GAS & UPGRADED SHALE OIL	
		NOX	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	
		SO2	0.1600 LB/MMBTU	
			10.0000 LB/H STACK	
			CLEANED & TREATED HIGH BTU FUEL GAS	
		NOX	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	99.50
			VENTURI SCRUBBER	
		SO2	0.0020 GR/DSCF	
			0.5000 LB/H STACK	
			TREATED FUELS	
		NOX	0.2200 GR/DSCF	
			51.9000 LB/H STACK	50.00
			LOW-NOX BURNERS	
BOILER & POWER PLANTS (3 STK)	2438.00 MMBTU/H			
		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	

(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
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	
		NOX	CLEANED, TREATED & UPGRADED FUELS 0.2100 LB/MMBTU 267.8000 LB/H LOW-NOX BURNERS	25.00

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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 306.00 MMGAL/YR

COMPANY NAME/SITE LOCATION SIGNOR 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 ACB (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
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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 INT. 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 2000.00 HP EA,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 CAPAC.TY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SUPERIOR COMPRESSOR ENGINE	2000.00 HP	NOX	4.2000 G/BHP-HR	TURBOCHARGED
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NOTES -----
 SUPERIOR TURBOCHARGED "CLEAN BURN" 2000 IP ENGINE, MODEL 12 SGTA, 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

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. COMPRESSOR, 4 7000.00 HP EA

NOX

11.7000 G/HP-H

AIR/FUEL RATIO

BACT

CO

1.4000 G/HP-H

AIR/FUEL RATIO

BACT

GAS HEATERS, 3

UNKNOWN

NOX

2.1000 LB/H

AIR/FUEL RATIO

BACT

REGENERATOR HEATERS, 3

UNKNOWN

NOX

0.4000 LB/H

AIR/FUEL RATIO

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 499

ID NUMBER LA-0023

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 525600.00 MMGAL/YR

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. , UT DAVIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/08/82
 PERMIT NO. ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY UTAH BAQ (801)-533-6108
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOE WINKLER
(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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COMPRESSOR ENGINE 2700.00 HP

NOX	0.0010 G/HP-H	TURBOCHARGED CLEAN BURN	BACT
CO	0.0010 G/HP-H	EFFICIENT COMBUSTION	BACT
SO2	0.0010 G/HP-H	EFFICIENT OPERATION	BACT
VOC	0.0010 G/HP-H	EFFICIENT COMBUSTION	BACT
PM		EFFICIENT COMBUSTION	BACT

EMERGENCY GEN. 370.00 HP

NOX	10.9000 G/HP-H	NORMAL OPERATION	BACT
CO	1.4000 G/HP-H	NORMAL OPERATION	BACT
SO2	0.0010 G/HP-H	NORMAL OPERATION	BACT
VOC	0.8400 G/HP-H	NORMAL OPERATION	BACT
PM		NORMAL OPERATION	BACT

(CONTINUED) COLORADO INTERSTATE GAS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	2.60 MMBTU/H	NOX	0.3200 LB/H NORMAL OPERATION	BACT
		CO	0.0500 LB/H NORMAL OPERATION	BACT
		SO2	0.0020 LB/H NORMAL OPERATION	BACT
		VOC	NORMAL OPERATION	BACT
		PM	0.0130 LB/H NORMAL OPERATION	BACT

NOTES -----
OPERATED ONLY DURING POWER OUTAGES. BOILER OPERATED ONLY DURING COLD WEATHER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION HOUSTON PIPE LINE CO. HOUSTON, TX 77001
HOUSTON NAT. GAS BLDG 14TH FL.

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 04/30/81
PERMIT NO. TX-313 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
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I.C. ENGINES, 4 TURBO.	2400.00 HP EA	NOX	60.8000 LB/H 11.5000 /HP-H AIR/FUEL RATIO CONTROL	BACT
DEHYDRATORS, 2	1.25 MMBTU/H EA	NOX	0.1500 LB/H 0.1200 LB/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.

PAGE 6- 503

ID NUMBER TX-0076

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION OASIS PIPELINE CO.
1200 TRAVIS, BOX 1188
HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 10/06/80
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
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COMPRESSOR ENGINE	1350.00 HP EA	NOX	6.8600 G/HP-H	BACT
			LOW EX. AIR -- AIR/FUEL RATIO	37.00
		VOC	0.7000 G/HP-H	BACT
		CO	EFFICIENT COMBUSTION	
			1.4000 G/HP-H	BACT
			EFFICIENT COMBUSTION	

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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
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TURBINE

7660.00 HP

NOX	1.3000 G/HP-H	AIR/FUEL RATIO	BACT
CO	0.5000 G/HP-H	AIR/FUEL RATIO	BACT
NOX	6.5000 G/HP-H	AIR/FUEL RATIO	BACT
CO	2.2000 G/HP-H	AIR/FUEL RATIO	BACT

I. C. ENGINES, 2 EA

1560.00 HP

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 545

ID NUMBER TX-0028

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY --- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE

ALVA, OK

WOODS 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
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I.C. ENGINE, 3 EA	4500.00 HP	NOX	6.0000 G/HP-H AIR/FUEL RATIO	BACT
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I.C. ENGINE	631.00 HP	CO	4.8000 G/HP-H AIR/FUEL RATIO	BACT
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		NOX	11.5000 G/HP-H AIR/FUEL RATIO	BACT
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		CO	5.5000 G/HP-H AIR/FUEL RATIO	BACT
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NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
CASHION STATION

CASHION, OK

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

I. C. ENGINE, 2 EA 4500.00 HP

NOX 9.0000 G/HP-H
CO 9.0000 G/HP-H
AIR/FUEL RATIO
AIR/FUEL RATIO

BACT
BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PAIRHANDLE 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)

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

POLLUTANT
EMITTED

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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. ENGINES, 3

771.00 BRAKE HP EA

NOX

11.5000 G/HP-H

BACT

CO

5.7000 G/HP-H

BACT

AIR/FUEL RATIO

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

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
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
LAURA STEINBERGER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/19/83
ESTIMATED DATE OF START-UP-- 1985
(517)-322-1333 (PHONE)

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

GAS SWEETENING FACILITY 7.00 MMCFD
S02 3-STAGE CLAUS UNIT 93.50
S02 184.0000 LB/H
540.0000 LB/H
GROUND LEVEL INCINERATOR 99.90

NOTES -----
END ALTERNATE LIMIT - 2100 LB/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 DWIGHT WILEY (601)-354-2550
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

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

CCC INJECTION 8200.00 BBL/D NOX BEST OPERATING PRACTICE BACT

NOTES ---
 3 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.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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 G/HP-H

AIR/FUEL RATIO

BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

5000.00 HP

NOX
CO

182.0000 LB/H
4.0000 LB/H

BACT
BACT

AIR/FUEL RATIO

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SUN GAS CO.
THREE NORTH PARK EAST ST. DALLAS, TX

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
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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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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)

JOHN BENHAM

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/30/81

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. 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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 516

ID NUMBER LA-0012

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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	... & BASIS ... PCT EFF
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I.C. COMPRESSOR ENGINE, TURBOCH*	1650.00 HP	NOX	6.5000 G/HP-H AIR/FUEL RATIO	BACT
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		CO	1.3000 G/HP-H NORMAL OPERATION	BACT
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GEN. DRIVER, 2 EA	360.00 HP	NOX	10.0000 G/HP-H NORMAL OPERATION	BACT
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		CO	10.0000 G/HP-H NORMAL OPERATION	BACT
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NOTES -----
ONE GENERATOR DRIVER IS A STANDARD UNIT. NATURAL GAS USED AS FUEL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE---

PETROLEUM INDUSTRY -- OTHER

6300.00 HP

COMPANY NAME/SITE LOCATION TEXACO, INC.
1501 CANAL ST., P.O. BOX 60252
NEW ORLEANS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-301
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
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ENGINE, I.C., TURBOCHARGED	2650.00 HP	NOX	43.7000 LB/H 7.5000 G/HP-H IGN. TI. RETARD ENG. SPARK	BACT
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TURBINE COMPRESSOR, GAS-FIRED	3300.00 HP	NOX	9.4000 LB/H 1.3000 G/HP-H	NSPS
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I.C. ENGINE, NAT. ASPIRATED	350.00 HP	NOX	7.7000 LB/H 10.0000 G/HP-H AIR/FUEL RATIO CONTROL	BACT
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NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

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

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO. HOUSTON, LA 77001
P.O. BOX 1478

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
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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
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NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED PIPE LINE CO.
P.O. BOX 1478 HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-211

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

1000.00 HP EA

NOX

31.5000 LB/H

31.5000 LB/MHP-H

BACT

CNTRL AIR/FUEL RATIO, IGN TIM.

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 521

ID NUMBER TX-0070

SOURCE TYPE CODE 5.16