COMPANY NAME/SITE LOCATION: TUSCALOOSA STEEL CORP.
1700 Holt Road NE
TUSCALOOSA, AL 35404-
TUSCALOOSA COUNTY

PERMIT/FILE NO. 413-0033-X005

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
(AGENCY)
GEORGE COX
(AGENCY CONTACT PERSON)

AIRS ID NO. 125-77256

EMISSION LIMITS (P:)

PROCESSES SUBJECT TO THIS PERMIT

FURNACE, ELECTRIC ARC (EAF)

PROCESS CODE 81.007
SCC CODE 3-03-009-08

THROUGHPUT
CAPACITY

POLLUTANT NAME
PM
SCC CODE 3-03-009-08

RANKING INFORMATION

EST % EFF
0.0035 GR/D.
0.0000

CONTROL METHOD:
ADD-ON CONTROL EQUIPMENT
NEGATIVE PRESSURE BAGHOUSE WITH STACK
(WHEELABRATOR MODEL 420)

3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NO2
CAS NO. 10102-44-0
0.3500 LB/T
0.0000

CONTROL METHOD:
NO

CO
CAS NO. 630-08-0
320.0000 LB/H
0.0000

CONTROL METHOD:
ADD
DIRECT EVACUATION CANOPY (DEC)
1/1 CONTROL OPTION
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. AL-0077

VOC
20.8000 LB/H
0.0000
CONTROL METHOD: ADD
DIRECT EVACUATION CANOPY (DEC)
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

FUGITIVE EMISSIONS FROM ROADS
0.00

PM
0.0000 SEE:
0.0000
CONTROL METHOD: POL
RAVE ROADS, VACUUM
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

METALLURGY STATION, LADLE
160.00 T/H

PM
1.4000 LB/H
0.0000
CONTROL METHOD: ADD
SIDE DRAFT HOOD AND
WITH STACK

CO
32.0000 LB/H
0.0000
CONTROL METHOD: NO

CASTER, CONTINUOUS
160.00 T/H

PM
0.5600 LB/H
0.0000
CONTROL METHOD: ADD
NEGATIVE PRESSURE BA
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
FURNACE, EQUALIZING

PROCESS CODE 81.007
SCC CODE 3-03-009-33

PM
CAS NO. PM 0.5000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICES. FUEL SPEC: NATURAL GAS

CO
CAS NO. 630-08-0 7.2000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICES. FUEL SPEC: NATURAL GAS

NO2
CAS NO. 10102-44-0 36.0000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
LOW NOX BURNERS

VOC
CAS NO. VOC 0.5000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICES. FUEL SPEC: NATURAL GAS

FURNACE, DIRECT REDUCED IRON (DRI) SHAFT

PROCESS CODE 81.007
SCC CODE 3-03-009-99

PM
CAS NO. PM 1.4000 LB/H
0.0000
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
VENTURI SCRUBBER

NO2
CAS NO. 10102-44-0 38.8000 LB/H
0.0000
CONTROL METHOD: NO
NOTES: DEC WITH ELEPHANT HOUSE ENCLOSURE AND BAGHOUSE WERE PROPOSED AS BACT.
A COST ANALYSIS OF VARIOUS OUTLET GRAIN LOADING FROM THE BAGHOUSE WAS
REVIEWED.
EMISSIONS FROM LMS ARE COMBINED WITH EMISSIONS FROM EAF AND CONTINUOUS
CASTER AND CONTROLLED BY MELTSHOP BAGHOUSE.
COMPANY NAME/SITE LOCATION: TUSCALOOSA STEEL CORP.
1700 HOLT ROAD NE
TUSCALOOSA, AL 35404-
TUSCALOOSA COUNTY

PERMIT/FILE NO. 413-0033-X005

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON: GEORGE COX

SCHEDULING INFORMATION:
RECEIVED APPLICATION 09/01/1994 ACT
PERMIT ISSUED 12/15/1994 ACT
START UP 10/01/1996 ACT
COMPLIANCE VERIFICATION 08/01/1997 EST

THROUGHPUT

FURNACE, ELECTRIC ARC (EAF) 160.0000 T/H

PROCESS/COMPLIANCE NOTES:
DEMONSTRATED COMPLIANCE WITH CO, VOC, NOX AND PM LIMITS.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 9,240,000
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 3,750,000
COST EFFECTIVENESS ($/TON): 141

COSTS ARE IN 1994 DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-    6

RBLC ID No. AL-0077                                        DATE ENTERED/UPDATED: 06/23/1999

NO2                                   CAPITAL COSTS: $            0          COSTS ARE IN
                                      O & M COSTS: $            0          COSTS ARE NOT
                                      ANNUALIZED COSTS: $            0        COSTS ARE NOT
                                      COST EFFECTIVENESS ($/TON): 0

CO                                   CAPITAL COSTS: $            0          COSTS ARE IN
                                      O & M COSTS: $            0          COSTS ARE NOT
                                      ANNUALIZED COSTS: $            0        COSTS ARE NOT
                                      COST EFFECTIVENESS ($/TON): 0

VOC                                   CAPITAL COSTS: $            0          COSTS ARE IN
                                      O & M COSTS: $            0          COSTS ARE NOT
                                      ANNUALIZED COSTS: $            0        COSTS ARE NOT
                                      COST EFFECTIVENESS ($/TON): 0

FUGITIVE EMISSIONS FROM ROADS
                                      0.0000          COMPLIANCE WAS NOT VERIFIED
                                      COMPLIANCE METHOD (Y/N):
                                      STACK TEST: N
                                      INSPECTION: N
                                      CALCULATION:
                                      OTHER METHOD:

PM                                   CAPITAL COSTS: $            0          COSTS ARE IN
                                      O & M COSTS: $            0          COSTS ARE NOT
                                      ANNUALIZED COSTS: $            0        COSTS ARE NOT
                                      COST EFFECTIVENESS ($/TON): 0

METALLURGY STATION, LADLE
                                      160.0000 T/H          COMPLIANCE WAS NOT VERIFIED
                                      COMPLIANCE METHOD (Y/N):
                                      STACK TEST: N
                                      INSPECTION: N
                                      CALCULATION:
                                      OTHER METHOD:
<table>
<thead>
<tr>
<th>Source Type</th>
<th>Description</th>
<th>PM</th>
<th>Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/TON)</th>
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<tbody>
<tr>
<td>CASTER</td>
<td>Continuous</td>
<td>160.0000 T/H</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>FURNACE</td>
<td>Equalizing</td>
<td>160.0000 T/H</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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</tbody>
</table>
CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TONT): 0

NO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TONT): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TONT): 0

FURNACE, DIRECT REDUCED IRON (DRI) SHAFT
PROCESS/COMPLIANCE NOTES:

68.0000 T/H

COMPLIANCE WAS NOT VERIFIED.
ALTHOUGH A BACT DECISION WAS MADE FOR THIS PROCESS AND A PERMIT WAS ISSUED, THIS PROCESS WAS NEVER CONSTRUCTED. THEREFORE, THE PERMIT WAS VOIDED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
COMPANY NAME/SITE LOCATION: TRICO STEEL CO., LLC  
ROUTE 72  
DECATUR, AL 35601-  
MORGAN COUNTY

PERMIT/FILE NO. 712-0037-X001, -X002, -X003  
DATE OF PERMIT ISSUANCE-- 09/22/1995 ACT  
START-UP DATE-- 03/29/1997 ACT

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT  
(AGENCY)  
GEORGE COX  
(AGENCY CONTACT PERSON)  
(334) 271-7861

EMISSION LIMITS (P: STANDARDIZED)

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>PROCESS CODE</th>
<th>POLLUTANT NAME</th>
<th>CONTROL METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>440.00 T/H</td>
<td>81.007</td>
<td>SO2</td>
<td>POLLUTION PREVENTION</td>
</tr>
<tr>
<td></td>
<td>3-03-009-08</td>
<td>VOC</td>
<td>POLLUTION PREVENTION</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>ADD-ON CONTROL EQUIPMENT</td>
</tr>
</tbody>
</table>

CONTROL METHOD: POLLUTION PREVENTION SCRAP MANAGEMENT

CONTROL METHOD: POLLUTION PREVENTION SCRAP MANAGEMENT

CONTROL METHOD: ADD-ON CONTROL EQUIPMENT  
NEGATIVE PRESSURE BAGHOUSE WITH STACK
METALLURGICAL FURNACES, LADLE

PROCESS CODE 81.007
SCC CODE 3-03-009-99

CO
CAS NO. 630-08-0
2.0000 LB/T
CONTROL METHOD: ADD
DIRECT EVACUATION CANOPY (DEC)

NOX
CAS NO. 10102
0.3500 LB/T
CONTROL METHOD: ADD
DIRECT EVACUATION CANOPY (DEC)

PROCESS CODE 81.007
SCC CODE 3-03-009-23

PM
CAS NO. PM
0.0320 GR/D.
CONTROL METHOD: ADD
NEGATIVE PRESSURE BAGHOUSE WITH STACK

FURNACE, TUNNEL

PROCESS CODE 81.007
SCC CODE 3-03-009-23

PM
CAS NO. PM
1.5000 LB/H
CONTROL METHOD: POLLUTION PREVENTION
FUEL SPEC: NATURAL GAS

CO
CAS NO. 630-08-0
10.5000 LB/H
CONTROL METHOD: POLLUTION PREVENTION
FUEL SPEC: NATURAL GAS
VOC

CAS NO. 10102

CONTROL METHOD: POLLUTION PREVENTION
FUEL SPEC: NATURAL GAS
NOX

CAS NO. 10102

CONTROL METHOD: POL
LOW NOX BURNERS

NOTES: DIRECT SHELL EVACUATION WILL BE USED ON EAF, LARGE CANOPY HOOD TO COLLECT EMISSIONS WHICH ESCAPE CAPTURE BY DSE. SIDE DRAFT HOOD WILL BE USED ON LMF. ACTION LEVEL OF 0.0026 GR/DSCF REQUIRES MAINTENANCE TO LOWER EMISSIONS BELOW 0.0026 GR/DSCF. OPACITY LIMIT OF 6% FROM MELT SHOP BUILDING FOR ALL SOURCES
REPORT DATE: 06/24/1999  

COMPANY NAME/SITE LOCATION: TRICO STEEL CO., LLC  
ROUTE 72  
DECATUR, AL 35601-  
MORGAN COUNTY  

PERMIT/FILE NO. 712-0037-X001, -X002, -X003  

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT  
AGENCY CONTACT PERSON: GEORGE COX  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 02/24/1995 ACT  
PERMIT ISSUED 09/22/1995 ACT  
START UP 03/29/1997 ACT  
COMPLIANCE VERIFICATION 09/02/1998 ACT  

THROUGHPUT  
PROCESS NAME: FURNACE, ELECTRIC ARC - CARBON STEEL  
POLLUTANT NAME:  
CAPACITY: 440.0000 T/H  
COMPLIANCE WAS VERIFIED.  

PROCESS/COMPLIANCE NOTES:  
DEMONSTRATED COMPLIANCE WITH SO2 AND PM LIMITS  

CAPABILITY METHOD (Y/N):  
STACK TEST: Y  
INSPECTION: Y  
CALCULATION: N  
OTHER METHOD:  

SO2  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-   13

RBLC ID No. AL-0087                                        DATE ENTERED/UPDATED:  06/17/1999

VOC                                   CAPITAL COSTS:  $            0  COSTS ARE IN DOLLARS.
O & M COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
ANNUALIZED COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0

PM                                    CAPITAL COSTS:  $            0  COSTS ARE IN DOLLARS.
O & M COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
ANNUALIZED COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0

CO                                    CAPITAL COSTS:  $            0  COSTS ARE IN DOLLARS.
O & M COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
ANNUALIZED COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0

NOX                                   CAPITAL COSTS:  $            0  COSTS ARE IN DOLLARS.
O & M COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
ANNUALIZED COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0

METALLURGICAL FURNACES, LADLE

440.0000 T/H                    COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):  N
STACK TEST:  N
INSPECTION:  N       CALCULATION:  N        OTHER TEST:  N
OTHER METHOD:

NOX                                   CAPITAL COSTS:  $            0  COSTS ARE IN DOLLARS.
O & M COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
ANNUALIZED COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0

PM                                    CAPITAL COSTS:  $            0  COSTS ARE IN DOLLARS.
O & M COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
ANNUALIZED COSTS:  $            0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0
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<tr>
<th>Pollutant</th>
<th>CAPITAL COSTS: $</th>
<th>O &amp; M COSTS: $</th>
<th>ANNUALIZED COSTS: $</th>
<th>COST EFFECTIVENESS ($/TON):</th>
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</thead>
<tbody>
<tr>
<td>CO</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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</tbody>
</table>

FURNACE, TUNNEL

440.0000 T/H

COMPLIANCE WAS NOT VERIFIED.

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
RBLC ID No. AL-0117

COMPANY NAME/SITE LOCATION: GLOBE ELASTIC COMPANY, INC
P O BOX 2230
TUSCALOOSA, AL 35401-

PERMIT/FILE NO. 413-0058-X004

EMISSION LIMITS (PRIMARY)

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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</thead>
<tbody>
<tr>
<td>SPANDEX MANUFACTURING UNIT</td>
<td>3900.00 TPY</td>
<td>3900.00 TPY</td>
<td>VOC</td>
<td>90.0000 % REDUCTION</td>
<td>BACT-PSD</td>
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<td>PROCESS CODE 65.003</td>
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<td>SCC CODE 30102417</td>
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</table>

NOTES:
**COMPANY NAME/SITE LOCATION:** GLOBE ELASTIC COMPANY, INC  
P O BOX 2230  
TUSCALOOSA, AL 35401-  
TUSCALOOSA COUNTY  

**PERMIT/FILE NO.** 413-0058-X004  
**DETERMINATION MADE BY:** ALABAMA DEPT OF ENVIRONMENTAL MGMT  
**AGENCY CONTACT PERSON:** TOM GARRETT  
**PHONE #** (334) 271-7861  

**SCHEDULING INFORMATION:**  
**ESTIMATED/ACTUAL DATE**  
RECEIVED APPLICATION 12/30/1997 ACT  
PERMIT ISSUED 04/29/1998 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /  

**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**  

**SPANDEX MANUFACTURING UNIT**  
3900.0000 TPY  
**COMPLIANCE WAS NOT VERIFIED.**  

**PROCESS/COMPLIANCE NOTES:**  
EMISSION TESTING TO BE CONDUCTED AFTER START-UP  

**THROUGHPUT**  

**EMISSION TESTING TO BE CONDUCTED AFTER START-UP**  

**COMPLIANCE METHOD (Y/N):**  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER TEST: N  
OTHER METHOD:  

**VOC**  
**CAPITAL COSTS:** $111,230  
**O & M COSTS:** $0  
**ANNUALIZED COSTS:** $0  
**COST EFFECTIVENESS ($/TON):** 196  

COSTS ARE IN 1997 DOLLARS.  
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: AMOCO CHEMICALS
FINLEY ISLAND ROAD
DECATUR, AL 35609-2215

PERMIT/FILE NO. 712-0002-X076
DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
DAPHNE YOUNG
(AGENCY) (AGENCY CONTACT PERSON)
(AIR) (PHONE)

AIRS ID NO. 01-103-00002

MULTIPLE FUEL BOILER
400.00 MMBTU/HR

PROCESS CODE 11.004
SCC CODE 10200601

PROCESS CODE 11.004
SCC CODE 10200601
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: AMOCO CHEMICALS
FINLEY ISLAND ROAD
DECATUR, AL 35609-2215

PERMIT/FILE NO. 712-0002-X076

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON: DAPHNE YOUNG

SCHEDULING INFORMATION:
RECEIVED APPLICATION 09/25/1997 ACT
PERMIT ISSUED 04/13/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME: MULTIPLE FUEL BOILER
POLLUTANT NAME
CAPACITY 400.0000 MMBTU/HR

PROCESS/COMPLIANCE NOTES: BOILER FIRES NATURAL GAS, #2 FUEL OIL, AND HEAVY AROMATIC BOTTOMS (HAB). THE HAB OIL IS A BYPRODUCT LIQUID WASTE FROM ANOTHER PROCESS ON SITE. COMPLIANCE TESTING TO BE PERFORMED AFTER STARTUP

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

NO2
CAPITAL COSTS: $ 204,462
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 199,702
COST EFFECTIVENESS ($/TON): 456
REPORT DATE: 06/24/1999  
REPORT: DETAILED SOURCE LISTING (Part A)  
RBLC ID No. AL-0119  

COMPANY NAME/SITE LOCATION: MACMILLAN BLOEDEL PACKAGING  
P.O. BOX 336  
PINE HILL, AL 36769-  
WILCOX COUNTY  

PERMIT/FILE NO. 109-S007-X002  
DATE ENTERED/UPDATED: 07/01/1998  
DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT  
JIM WILSON  
(AGENCY CONTACT PERSON)  
(334) 271-7861  

AIRS ID NO. 01-131-05007  

EMISSION LIMITS (P: (S)  
throughput  
capacity  
pollutant name  
ranking information  

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
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<tbody>
<tr>
<td>HIGH TEMP LUMBER DRY KILN</td>
<td>200.00 MBF</td>
<td>200.00 MBF</td>
<td>VOC</td>
<td>4.5200 LB/MBF</td>
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<td></td>
<td></td>
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<td>CAS NO.</td>
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<td>CONTROL METHOD: NO</td>
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<td></td>
<td></td>
<td></td>
<td>PM</td>
<td>0.0660 LB/MBF</td>
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<td></td>
<td></td>
<td>CONTROL METHOD: NO</td>
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<td></td>
</tr>
<tr>
<td>PLANER MILL W/ HI EFFICIENCY CYCLONE &amp; BAGHOUSE</td>
<td>130000.00 LB/HR</td>
<td>130000.00 LB/HR</td>
<td>PM</td>
<td>3.0000 LB/HR</td>
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<td></td>
<td></td>
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<td>CAS NO.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>CONTROL METHOD: ADD CYCLONE AND BAGHOUSE TO THE BAGHOUSE 3/ 1 CONTROL OPTI-</td>
<td></td>
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</tbody>
</table>
WOOD WASTE PNEUMATIC TRANSFER SYSTEM

PROCESS CODE 30.003
SCC CODE 30700805

130000.00 LB/HR

PM
CAS NO.
1.7000 LB/H
0.0000

CONTROL METHOD: ADD
PNEUMATIC TRANSFER S
2/1 CONTROL OPTI:
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** MACMILLAN BLOEDEL PACKAGING
P O BOX 336
PINE HILL, AL 36769- WILCOX COUNTY

**PERMIT/FILE NO.** 109-S007-X002

**DETERMINATION MADE BY:** ALABAMA DEPT OF ENVIRONMENTAL MGMT
**AGENCY CONTACT PERSON:** JIM WILSON

**PERMIT ISSUED** 05/28/1998  ACT
**START UP** 11/01/1998  EST

### THROUGHPUT

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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>HIGH TEMP LUMBER DRY KILN</td>
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<td>200.0000 MBF</td>
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</tbody>
</table>

**COMPLIANCE WAS NOT VERIFIED.**

**PROCESS/COMPLIANCE NOTES:** TESTING WILL BE CONDUCTED UPON START-UP

**COMPLIANCE METHOD (Y/N):**
- STACK TEST: N
- INSPECTION: N

**OTHER METHOD:**

**VOC**

<table>
<thead>
<tr>
<th>CAPITAL COSTS: $</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O &amp; M COSTS: $</td>
<td>0</td>
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<tr>
<td>ANNUALIZED COSTS: $</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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**COSTS ARE IN DOLLARS.**

**COSTS ARE NOT VERIFIED BY AGENCY.**
REPORT DATE: 06/24/1999

PLANER MILL W/ HI EFFICIENCY CYCLONE & BAGHOUSE

PROCESS/COMPLIANCE NOTES:

CYCLONE EXHAUST VENTS TO THE BAGHOUSE

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:

WOOD WASTE PNEUMATIC TRANSFER SYSTEM

PROCESS/COMPLIANCE NOTES:

WOOD WASTE COLLECTED FROM CYCLONE/BAGHOUSE IS PNEUMATICALLY CONVEYED THRU THIS PROCESS

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GENERAL ELECTRIC PLASTICS
ONE PLASTICS DRIVE
BURKVILLE, AL 36752-
LOWNDES COUNTY

PERMIT/FILE NO. 207-0008-X016

EMISSION LIMITS (PRIMARY)

<table>
<thead>
<tr>
<th>PROCESS CODE 15.004</th>
<th>THROUGHPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC CODE 20200203</td>
<td>0.00</td>
</tr>
</tbody>
</table>

PROCESSES SUBJECT TO THIS PERMIT

<table>
<thead>
<tr>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO2</td>
<td>0.0700 LBS/MMBTU</td>
<td>BACT-PSD</td>
</tr>
</tbody>
</table>

CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
DRY LOW NOX BURNER ON TURBINE AND LOW NOX BURNER ON DUCT BURNER

<table>
<thead>
<tr>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>0.0800 LBS/MMBTU</td>
<td>BACT-PSD</td>
</tr>
</tbody>
</table>

CONTROL METHOD: NO CONTROLS FEASIBLE
PROPER COMBUSTION

<table>
<thead>
<tr>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0100 LBS/MMBTU</td>
<td>BACT-PSD</td>
</tr>
</tbody>
</table>

CONTROL METHOD: NO CONTROLS FEASIBLE
CLEAN FUEL - NATURAL GAS/HYDROGEN

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GENERAL ELECTRIC PLASTICS
ONE PLASTICS DRIVE
BURKVILLE, AL 36752-
LAWNDES COUNTY

PERMIT/FILE NO. 207-0008-X016
DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON: WILL BACON

SCHEDULING INFORMATION:
RECEIVED APPLICATION 10/01/1997 ACT
PERMIT ISSUED 05/27/1998 ACT
START UP / / COMPLIANCE VERIFICATION / /

PROCESS NAME                    POLLUTANT NAME          CAPACITY

COMBINED CYCLE (TURBINE AND DUCT BURNER)  0.0000
COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:
TURBINE - 978.453 MMBTU/HR AND DUCT BURNER - 225 MMBTU/HR
COMPLIANCE WILL BE VERIFIED BY STACK TEST UPON STARTUP

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

NO2

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: ELF ATOCHEM NORTH AMERICA, INC
HIGHWAY 43
AXIS, AL 36505-
MOBILE COUNTY

PERMIT/FILE NO. 503-5017

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
WILL BACON
(334) 271-7861

AIRS ID NO. 01-097-05017

PROCESS CODE 64.999
SCC CODE

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT
CAPACITY
PM 6.5000 LBS/HR
CAS NO. 0.0000
CONTROL METHOD: ADD BAGHOUSE

VOC 24.1000 LBS/HR
CAS NO. 0.0000
CONTROL METHOD: NO

PROCESSES SUBJECT TO THIS PERMIT

METABLEN LATEX POLYMERS UNIT
THROUGHPUT 31000000.00 LB/yr
CAPACITY
PM 6.5000 LBS/HR
CAS NO. 0.0000
CONTROL METHOD: ADD BAGHOUSE

VOC 24.1000 LBS/HR
CAS NO. 0.0000
CONTROL METHOD: NO

D-200 LATEX POLYMERS DRYER A
THROUGHPUT 46800000.00 LB/yr
CAPACITY
PM 10.8000 LB/HR
CAS NO. 0.0000
CONTROL METHOD: ADD BAGHOUSE
<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>PM Emissions</th>
<th>VOC Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>METABLANS II LATEX POLYMERS</td>
<td>5.5000 LBS/HR</td>
<td>52.3000 LB/HR</td>
</tr>
<tr>
<td>D-200 LATEX POLYMERS DRYER B</td>
<td>10.4000 LB/H</td>
<td>61.6000 LB/H</td>
</tr>
<tr>
<td>STYRENE STORAGE TANK</td>
<td></td>
<td>0.0000</td>
</tr>
</tbody>
</table>

**Control Methods:***
- **METABLANS II LATEX POLYMERS:** NO CONTROLS FEASIBLE
- **D-200 LATEX POLYMERS DRYER B:** ADD BAGHOUSE
- **STYRENE STORAGE TANK:** ADD CARBON CANNISTER
<table>
<thead>
<tr>
<th>Storage Tank Name</th>
<th>Capacity</th>
<th>Process Code</th>
<th>VOC</th>
<th>CAS No.</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTYL ACRYLATE STORAGE TANK</td>
<td>61100.00 GALLONS</td>
<td>64.004</td>
<td>0.0000</td>
<td>98.000</td>
<td>ADD-CARBON ADSORBER</td>
</tr>
<tr>
<td>METHYL METHACRYLATE STORAGE TANK</td>
<td>61100.00 GALLONS</td>
<td>64.004</td>
<td>0.0000</td>
<td>98.000</td>
<td>ADD-CARBON ADSORBER</td>
</tr>
<tr>
<td>ETHYL ACRYLATE STORAGE TANK</td>
<td>18500.00 GALLONS</td>
<td>64.004</td>
<td>0.0000</td>
<td>98.000</td>
<td>ADD-CARBON ADSORBER</td>
</tr>
</tbody>
</table>
METHYL METHACRYLATE STORAGE TANK

120000.00 GALLONS

PROCESS CODE 64.004
SCC CODE

VOC: 0.0000
CAS NO.: 98.000
CONTROL METHOD: ADD CARBON ADSORBER

N-BUTYL-METHACRYLATE STORAGE TANK

30000.00 GALLONS

PROCESS CODE 64.004
SCC CODE

VOC: 0.0000
CAS NO.: 98.000
CONTROL METHOD: ADD CARBON ADSORBER

NOTES:
COMPANY NAME/SITE LOCATION: ELF ATOCHEM NORTH AMERICA, INC
HIGHWAY 43
AXIS, AL 36505-
MOBILE COUNTY

PERMIT/FILE NO. 503-5017
Determination Made By: Alabama Dept of Environmental Mgmt
Agency Contact Person: Will Bacon

Scheduling Information:
Estimated/Actual Date
Received Application: 07/24/1996 ACT
Permit Issued: 06/22/1998 ACT
Start Up: / / 
Compliance Verification: / / 

Process Name          Pollutant Name          Capacity
METABELN LATEX POLYMERS UNIT 31000000.0000 LB/YR

Compliance Was Not Verified:
Compliance Method (Y/N):
Stack Test: N
Inspection: N
Calculation: N

Other Method:
PM
Capital Costs: $ 0
O & M Costs: $ 0
Annualized Costs: $ 0
Cost Effectiveness ($/Ton): 0

VOC
Capital Costs: $ 0
O & M Costs: $ 0
Annualized Costs: $ 0
Cost Effectiveness ($/Ton): 0
D-200 LATEX POLYMERS DRYER A

- **Report Date:** 06/24/1999
- **RBLC ID No.:** AL-0121
- **Detailed Source Listing (Part B):**
- **Details: D-200 LATEX POLYMERS DRYER A**
- **46800000.0000 LB/yr**
- **Compliance:** Not Verified
- **Compliance Method:**
  - Stack Test: N
  - Inspection: N
  - Calculation: N
  - Other Test: N
- **Other Method:**
- **PM:**
  - Capital Costs: $0
  - O & M Costs: $0
  - Annualized Costs: $0
  - Cost Effectiveness ($/Ton): 0
- **VOC:**
  - Capital Costs: $0
  - O & M Costs: $0
  - Annualized Costs: $0
  - Cost Effectiveness ($/Ton): 0

METABLANS II LATEX POLYMERS

- **Report Date:** 06/24/1999
- **RBLC ID No.:** AL-0121
- **Detailed Source Listing (Part B):**
- **Details: METABLANS II LATEX POLYMERS**
- **39800000.0000 LB/yr**
- **Compliance:** Not Verified
- **Compliance Method:**
  - Stack Test: N
  - Inspection: N
  - Calculation: N
  - Other Test: N
- **Other Method:**
- **PM:**
  - Capital Costs: $0
  - O & M Costs: $0
  - Annualized Costs: $0
  - Cost Effectiveness ($/Ton): 0
- **VOC:**
  - Capital Costs: $0
  - O & M Costs: $0
  - Annualized Costs: $0
  - Cost Effectiveness ($/Ton): 0
D-200 LATEX POLYMERS DRYER B  56800000.0000 LB/YR

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N     CALCULATION:   N        OTHER TEST:  N

OTHER METHOD:

PM
CAPITAL COSTS:  $     0
O & M COSTS:  $      0       COSTS ARE IN
ANNUALIZED COSTS:  $   0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

VOC
CAPITAL COSTS:  $     0
O & M COSTS:  $      0       COSTS ARE IN
ANNUALIZED COSTS:  $   0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

STYRENE STORAGE TANK  61100.0000 GALLONS

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N     CALCULATION:   N        OTHER TEST:  N

OTHER METHOD:

VOC
CAPITAL COSTS:  $     0
O & M COSTS:  $      0       COSTS ARE IN
ANNUALIZED COSTS:  $   0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

BUTYL ACRYLATE STORAGE TANK  61100.0000 GALLONS

COMPLIANCE WAS NOT VERIFIED.
BUTYL ACRYLATE STORAGE TANK
61100.0000 GALLONS

METHYL METHACRYLATE STORAGE TANK
61100.0000 GALLONS
<table>
<thead>
<tr>
<th>Storage Tank Type</th>
<th>Gallons</th>
<th>Compliance Status</th>
<th>Method Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Methacrylate Storage Tank</td>
<td>61100.0000</td>
<td>Not Verified</td>
<td>Stack Test: N, Inspection: N, Calculation: N, Other Test: N, Other Method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VOC: CAPITAL COSTS: $0, O&amp;M COSTS: $0, ANNUALIZED COSTS: $0, COST EFFECTIVENESS ($/TON): 0</td>
</tr>
<tr>
<td>Ethyl Acrylate Storage Tank</td>
<td>18500.0000</td>
<td>Not Verified</td>
<td>Stack Test: N, Inspection: N, Calculation: N, Other Method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VOC: CAPITAL COSTS: $0, O&amp;M COSTS: $0, ANNUALIZED COSTS: $0, COST EFFECTIVENESS ($/TON): 0</td>
</tr>
<tr>
<td>Methyl Methacrylate Storage Tank</td>
<td>120000.0000</td>
<td>Not Verified</td>
<td>Stack Test: N, Inspection: N, Calculation: N, Other Method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VOC: CAPITAL COSTS: $0, O&amp;M COSTS: $0, ANNUALIZED COSTS: $0, COST EFFECTIVENESS ($/TON): 0</td>
</tr>
<tr>
<td>VOC</td>
<td>CAPITAL COSTS: $</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>-----------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td></td>
<td>O &amp; M COSTS: $</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**N-BUTYL-METHACRYLATE STORAGE TANK**

30000.0000 GALLONS

COMPLIANCE WAS NOT VERIFIED.

**COMPLIANCE METHOD (Y/N):**
- STACK TEST: N
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N
- OTHER METHOD:

**VOC**

<table>
<thead>
<tr>
<th>CAPITAL COSTS: $</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>O &amp; M COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
</tr>
</tbody>
</table>
**COMPANY NAME/SITE LOCATION:** Gulf States Paper Corp  
1647 County Road 46  
Moundville, AL 35474-  
Hale County

**PERMIT/FILE NO.** 406-S003

**DETERMINATION MADE BY:** Alabama Dept of Environmental Mgmt  
Christal Thompson (334) 271-7861

**AIRS ID NO.** 01-065-05003

**EMISSION LIMITS (PRIMARY) THROUGHPUT**

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILL, PLANER</td>
<td>7.30 T/H</td>
<td>PM</td>
<td>0.2100 LB/H</td>
<td>99.000</td>
</tr>
<tr>
<td>SCC CODE 30700805</td>
<td></td>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>KILNS, LUMBER DRY</td>
<td>0.00</td>
<td>VOC</td>
<td>5.4800 LB/MBF</td>
<td>0.0000</td>
</tr>
<tr>
<td>SCC CODE 30700898</td>
<td></td>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>BOILER, WOOD FIRED</td>
<td>98.00 MMBTU/H</td>
<td>PM</td>
<td>0.1000 LB/MMBTU</td>
<td>4/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
</tr>
<tr>
<td>SCC CODE 10200902</td>
<td></td>
<td>CAS NO. PM</td>
<td>0.1000 LB/MMBTU</td>
<td></td>
</tr>
</tbody>
</table>

**CONTROL METHOD:** ADD-ON CONTROL EQUIPMENT CYCLONE AND BAGHOUSE 2/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
<table>
<thead>
<tr>
<th>Substance</th>
<th>Emission Rate (LB/MMBTU)</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>0.5000</td>
<td>NO CONTROLS FEASIBLE</td>
</tr>
<tr>
<td></td>
<td>0.0000</td>
<td>3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
</tr>
<tr>
<td>VOC</td>
<td>0.1000</td>
<td>NO CONTROLS FEASIBLE</td>
</tr>
<tr>
<td></td>
<td>0.0000</td>
<td>MULTICYCLONE AND ESP</td>
</tr>
<tr>
<td>NOX</td>
<td>0.3000</td>
<td>NO CONTROLS FEASIBLE</td>
</tr>
<tr>
<td></td>
<td>0.0000</td>
<td>5/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
</tr>
</tbody>
</table>

NOTES:
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-   38

COMPANY NAME/SITE LOCATION:  GULF STATES PAPER CORP
1647 COUNTY ROAD 46
MOUNDVILLE, AL 35474-6500

PERMIT/FILE NO. 406-5003

PERMIT ISSUED            10/14/1998  ACT
START UP                   /  /  ACT
COMPLIANCE VERIFICATION   /  /  ACT

PROCESS NAME                POLLUTANT NAME  CAPACITY              COMPLIANCE WAS VERIFIED.

MILL, PLANER                 7.3000 T/H

KILNS, LUMBER DRY            0.0000

PROCESS/COMPLIANCE NOTES:

5 DRY KILNS: 2 @ 116 MBF, 2 @ 143 MBF, AND 1 @ 84 MBF
MBF=THOUSAND BOARD PER FEED.
BOILER, WOOD FIRED

98.0000 MMBTU/H

COMPLIANCE WAS VERIFIED.

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999  

NOX  

CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
### Emission Limits (P: Standardized)

<table>
<thead>
<tr>
<th>Process Code</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROCESS CODE 30.002</td>
<td>0.00</td>
<td>CO</td>
<td>0.0680 LB/MMBTU</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td>SCC CODE 30700199</td>
<td></td>
<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
<td>0.000</td>
</tr>
<tr>
<td>CONTROL METHOD: NO CONTROLS FEASIBLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROCESS CODE 30.002</td>
<td>0.00</td>
<td>CO</td>
<td>0.3000 LB/MMBTU</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td>SCC CODE 30700199</td>
<td></td>
<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
<td>0.000</td>
</tr>
<tr>
<td>CONTROL METHOD: NO CONTROLS FEASIBLE</td>
<td></td>
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<td>PROCESS CODE 30.002</td>
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<td>CO</td>
<td>200.0000 PPM</td>
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</tr>
<tr>
<td>SCC CODE 30700199</td>
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<td>CAS NO. 630-08-0</td>
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<td>0.000</td>
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<tr>
<td>CONTROL METHOD: NO CONTROLS FEASIBLE</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

} DETAILED SOURCE LISTING (Part A)

RBLC ID No. AL-0123

BOILER, AUX. POWER, NO.1

PROCESS CODE 30.002
SCC CODE 30700199

CO
CAS NO. 630-08-0
0.1000 LB/MMBTU
0.0000

CONTROL METHOD: NO CONTROLS FEASIBLE

NOTES:
COMPANY NAME/SITE LOCATION: U S ALLIANCE
17589 PLANT ROAD (HWY 235 N)
COOSA PINES, AL 35044-0555

PERMIT/FILE NO. 309-0006
DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON: GLEN GOLSON

SCHEDULING INFORMATION:
RECEIVED APPLICATION 06/23/1998 ACT
PERMIT ISSUED 09/25/1998 ACT
START UP 01/01/2000 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY
TURBINE, GAS COMBUSTION W/DUCT BURNER 0.0000 COMPLIANCE WAS NOT VERIFIED
COMPLIANCE METHOD (Y/N): N
STACK TEST: N INSPECTION: N CALCULATED
OTHER METHOD:
CO CAPITAL COSTS: $ 0 COSTS ARE IN
O & M COSTS: $ 0 COSTS ARE NOT
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

BOILER, MULTI-FUEL, NO. 1 0.0000 COMPLIANCE WAS NOT VERIFIED
<table>
<thead>
<tr>
<th>Source Type</th>
<th>Method</th>
<th>Compliance</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furnace, Recovery, No. 4</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0000</td>
</tr>
<tr>
<td>Boiler, Aux. Power, No. 1</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0000</td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SIMCALA INC
OHIO FERRO ALLOYS ROAD
MT. MEIGS, AL 36057-

PERMIT/FILE NO. 209-0026

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
DOUG CARR (AGENCY CONTACT PERSON)
(334) 271-7861 (PHONE)

AIRS ID NO. 01-101-00026

EMISSION LIMITS (P: (STANDARDIZED)
PROCESS CODE 11.002
SCC CODE 30300604

FURNACE, ELECTRIC ARC SILICON
20.00 MW

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>POLLUTION PREVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0032 Gr/D.</td>
</tr>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>POSITIVE PRESSURE BAGHOUSE AND MULTICLONES</td>
<td></td>
</tr>
<tr>
<td>NO2</td>
<td>5.9600 LB/MW</td>
</tr>
<tr>
<td>CAS NO. 10102-44-0</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td></td>
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<tr>
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NOTES:
REPORT DATE: 06/24/1999  

COMPANY NAME/SITE LOCATION: SIMCALA INC
OHIO FERRO ALLOYS ROAD
MT. MEIGS, AL 36057-
MONTGOMERY COUNTY

PERMIT/FILE NO. 209-0026  

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT  
AGENCY CONTACT PERSON: DOUG CARR  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 01/16/1998 ACT  
PERMIT ISSUED 08/18/1998 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /

PROCESS NAME | POLLUTANT NAME | THROUGHPUT | COMPLIANCE WAS NOT VERIFIED.
---|---|---|---
FURNACE, ELECTRIC ARC SILICON | 20.0000 MW |

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COMPANY NAME/SITE LOCATION: ALABAMA POWER PLANT BARRY
HWY 43
BUCKS, AL 36512-0007

PERMIT/FILE NO. 503-1001

Determination Made by: ALABAMA DEPT OF ENVIRONMENTAL MGMT
DAVID OUSLEY
(334) 271-7861

AIRS ID NO. 01-097-01001

EMISSION LIMITS (P: STANDARDIZED)

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BOILERS, NATURAL GAS COMBUSTION 510.00 MW(TOTAL)

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**CAS NO. VOC**

**CONTROL METHOD:** POLLUTION PREVENTION

**EFFICIENT COMBUSTION**

2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**NOTES:**
REPORT DATE: 06/24/1999 DETAILED SOURCE LISTING (Part B)
RBLC ID No. AL-0125

COMPANY NAME/SITE LOCATION: ALABAMA POWER PLANT BARRY
HWY 43
BUCKS, AL 36512-0007

PERMIT/FILE NO. 503-1001 DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT

AGENCY CONTACT PERSON: DAVID OUSLEY
PHONE # (334) 271-7861

SCHEDULING INFORMATION:

RECEIVED APPLICATION 04/02/1998 ACT
PERMIT ISSUED 08/07/1998 ACT
START UP 03/01/1999 EST
COMPLIANCE VERIFICATION 08/01/1999 EST

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COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0
PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  

REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  RBLC ID No. AL-0126

COMPANY NAME/SITE LOCATION: MOBILE ENERGY LLC
PAPER MILL ROAD
MOBILE, AL 36610-  MOBILE COUNTY

PERMIT/FILE NO. 503-8066  DATE OF PE
DATE ENTERED/UPDATED: 04/09/1999

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
DAVID OUSLEY
(AGENCY)                      (AGENCY CONTACT PERSON)
(334) 271-7861

AIRS ID NO. 01-097-08066

EMISSION LIMITS (P:\S):
THROUGHPUT                CAPACITY             POLLUTANT NAME             RANKING INFORMATION             EST % EFF

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, GAS, COMBINED CYCLE 168.00 MW

PROCESS CODE 15.006
SCC CODE 2-01-001-01

PM
0.0090 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION OF CLEAN FUELS
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOX
0.0190 LB/MMBTU
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
SCR & DLN COMBUSTORS
STEAM/WATER INJECTION
5/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
0.0400 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICES
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
VOC                              0.0060 LB/MMBTU                  BACT-PSD
CAS NO. VOC                      0.0000                             0.000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICE
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES:
REPORT DATE: 06/24/1999                          DETAILED SOURCE LISTING (Part B)                         PAGE H-   54

COMPANY NAME/SITE LOCATION: MOBILE ENERGY LLC
PAPER MILL ROAD
MOBILE, AL 36610-1036

PERMIT/FILE NO. 503-8066

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON: DAVID OUSLEY

SCHEDULING INFORMATION:

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COMPLIANCE WAS NOT VERIFIED

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REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-   55

RBLC ID No. AL-0126                                        DATE ENTERED/UPDATED:  04/09/1999

CO
CAPITAL COSTS:  $            0
O & M COSTS:  $            0
ANNUALIZED COSTS:  $            0
COST EFFECTIVENESS ($/TON):               0

VOC
CAPITAL COSTS:  $            0
O & M COSTS:  $            0
ANNUALIZED COSTS:  $            0
COST EFFECTIVENESS ($/TON):               0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: LOUISIANA-PACIFIC CORP  
140 LOUISIANA-PACIFIC ROAD  
CLAYTON, AL 36016-  
BARBOUR COUNTY

PERMIT/FILE NO. 601-0014

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT  
GLEN GOLSON  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

AIRS ID NO. 01-005-00014

EMISSION LIMITS (P: STANDARDED)

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<td>BACT-PSD</td>
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<td>CAS NO. 10102-44-0</td>
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<td>CONTROL METHOD: ADD LOW NOX BURNERS</td>
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<td>30700701</td>
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<td>PM</td>
<td>20.5700 LB/H</td>
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REPORT DATE: 06/24/1999

VOC
CAS NO. VOC 8.9800 LB/H FROM ANY RTO  BACT-PSD
CONTROL METHOD:  ADD RTO

FORMALDEHYDE
CAS NO. 50-00-0 2.2400 LB/H
0.0000
0.0000
CONTROL METHOD:  NO

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: LOUISIANA-PACIFIC CORP
140 LOUISIANA-PACIFIC ROAD
CLAYTON, AL 36016- BOURBON COUNTY

PERMIT/FILE NO. 601-0014

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON: GLEN GOLSON

SCHEDULING INFORMATION:

RECEIVED APPLICATION 01/30/1998 ACT
PERMIT ISSUED / /
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

MILL, FIBERBOARD, MEDIUM DENSITY 0.0000

COMPLIANCE WAS NOT VERIFIED

METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATED: N OTHER METHOD:

NO2

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
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COMPANY NAME/SITE LOCATION: ALABAMA POWER COMPANY - THEODORE COGENERATION
RANGE LINE ROAD, HWY 193
THEODORE, AL 36582 - MOBILE COUNTY

PERMIT/FILE NO. 503-8073

DETERMINATION MADE BY: ALABAMA DEPT OF ENVIRONMENTAL MGMT
(AGENCY) DAVID OUSLEY (AGENCY CONTACT PERSON)

AIRS ID NO. 01-097-08073

PROCESS CODE 15.004
SCC CODE 20100201

TURBINE, WITH DUCT BURNER

EMISSION LIMITS (P:
STANDARDIZED)
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, WITH DUCT BURNER 170.00 MW

VOC 0.0160 LB/MMBTU 0.0000 BACT-PSD
CAS NO. VOC
CONTROL METHOD: POLLUTION PREVENTION
EFFICIENT COMBUSTION
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PM 0.0120 LB/MMBTU 0.0000 BACT-PSD
CAS NO. PM
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION OF NATURAL GAS ONLY
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NO2 0.0130 LB/MMBTU 0.0000 BACT-PSD
CAS NO. 10102-44-0
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DLN COMBUSTOR IN CT, LNB IN DUCT BURNER, SCR
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-   61

RBLC ID No. AL-0128                                        DATE ENTERED/UPDATED:  06/23/1999

CO                               0.0860 LB/MMBTU                  BACT-PSD
CAS NO. 630-08-0                 0.0000                             0.000
CONTROL METHOD:  POLLUTION PREVENTION
EFFICIENT COMBUSTION
2/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

BOILER                                                 220.00 MMBTU/H

PROCESS CODE 11.005                                                  NO2                              0.0530 LB/MMBTU                  BACT-PSD
SCC CODE 10100601                                                    CAS NO. 10102-44-0               0.0530 LB/MMBTU                    0.000
CONTROL METHOD:  POLLUTION PREVENTION
LNB AND FLUE GAS REC
5/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO                               0.1650 LB/MMBTU                  BACT-PSD
CAS NO. 630-08-0                 0.1650 LB/MMBTU                    0.000
CONTROL METHOD:  POLLUTION PREVENTION
EFFICIENT COMBUSTION
2/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC                              0.0050 LB/MMBTU                  BACT-PSD
CAS NO. VOC                      0.0050 LB/MMBTU                    0.000
CONTROL METHOD:  POLLUTION PREVENTION
EFFICIENT COMBUSTION
2/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PM                               0.0080 LB/MMBTU                  BACT-PSD
CAS NO. PM                       0.0080 LB/MMBTU                    0.000
CONTROL METHOD:  POLLUTION PREVENTION
COMBUSTION OF NATURAL
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part B)                                      PAGE H-   62

COMPANY NAME/SITE LOCATION:  ALABAMA POWER COMPANY - THEODORE COGENERATION
RANGE LINE ROAD, HWY 193
THEODORE, AL 36582-5335 MOBILE COUNTY

PERMIT/FILE NO. 503-8073                                      DETERMINATION MADE BY:  ALABAMA DEPT OF ENVIRONMENTAL MGMT
AGENCY CONTACT PERSON:  DAVID OUSLEY                       PHONE # (334) 271-7867

SCHEDULING INFORMATION:                                      ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION     10/05/1998  ACT
PERMIT ISSUED            03/16/1999  ACT
START UP                 09/01/2000  EST
COMPLIANCE VERIFICATION  01/01/2001  EST

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COMPLIANCE WAS NOT VERIFIED.

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**BOILER**

220,000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED:

COMPLIANCE METHOD (Y/N): N
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD: N
COMPANY NAME/SITE LOCATION:  IPSCO STEEL INC
US HWY 43 N
AXIS, AL

PERMIT/FILE NO. 503-8065
AIRS ID NO. 01-097-08065

EMISSION LIMITS (P:
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

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<td>SO2</td>
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<td>0.0000</td>
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<td></td>
</tr>
<tr>
<td>CAS NO. 7446-09-5</td>
<td></td>
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</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>NO</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3/3 CONTROL OPTI</td>
<td></td>
<td></td>
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</tbody>
</table>

DETERMINATION MADE BY:  ALABAMA DEPT OF ENVIRONMENTAL MGMT
(AGENCY)
GEORGE COX
(AGENCY CONTACT PERSON)
(334) 270-5677

DATE OF PERMIT ISSUANCE-- 10/16/1998 ACT
START-UP DATE-- 04/07/2001 EST

START-UP D.

DATE OF PERMIT

REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part A)
RBLC ID No. AL-0129

PAGE H-64
VOC
CAS NO. VOC
CONTROL METHOD: ADD
DEC WITH POST COMBUSTION CHAMBER
6/6 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NO2
CAS NO. 10102-44-0
CONTROL METHOD: NO CONTROLS FEASIBLE
5/5 CONTROL OPTIONS EXAMINED/OPTION SELECTED

FURNACE, REHEAT
200.00 T/H

PROCESS CODE 81.007
SCC CODE 303-009-33

PM
CAS NO. PM
CONTROL METHOD: NO CONTROLS FEASIBLE
5/5 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NO2
CAS NO. 10102-44-0
CONTROL METHOD: ADD
LOW NOX BURNER
4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630-08-0
CONTROL METHOD: ADD
LOW CO BURNERS
4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
COMPANY NAME/SITE LOCATION: IPSCO STEEL INC  
US HWY 43 N  
AXIS, AL  

PERMIT/FILE NO. 503-8065  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 09/03/1998 ACT  
PERMIT ISSUED 10/16/1998 ACT  
START UP 04/07/2001 EST  
COMPLIANCE VERIFICATION 04/07/2002 EST  

THROUGHPUT  
PROCESS NAME  
POLLUTANT NAME  
CAPACITY  

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<th>CAPACITY</th>
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<td>FURNACE, ELECTRIC ARC</td>
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<td>200.0000 T/H</td>
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COMPLIANCE WAS NOT VERIFIED.  
COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER TEST: N  
OTHER METHOD:  

PM  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

CO  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

FURNACE, REHEAT
200.0000 T/H
COMPLIANCE WAS NOT VERIFIED
COMPLIANCE METHOD (Y/N): N
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
### Processes Subject to This Permit

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<th>Processes</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Emission Limits</th>
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<tr>
<td>DRYERS/BOILERS, UNIT A, 3</td>
<td>548352.00 LB/D, CARBON BLACK</td>
<td>SO2</td>
<td>CAS NO. 7446-09-5</td>
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<tr>
<td></td>
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<td></td>
<td>9.9300 LB/T</td>
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<td>CONTROL METHOD: POL</td>
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<td>3% BY WEIGHT SULFUR</td>
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<tr>
<td>DRYERS, UNIT B, 3</td>
<td>548352.00 LB/D, CARBON BLACK</td>
<td>SO2</td>
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<td>8.2500 LB/T</td>
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<td></td>
<td>GOOD COMBUSTION PRACTICE</td>
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</tbody>
</table>
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

THERMAL OXIDIZER, TAIL GAS

PROCESS CODE 11.999
SCC CODE 30100502

2.58 MMSCF/H, TAIL GAS

SO2
CAS NO. 7446-09-5
0.0000
0.0000
CONTROL METHOD: POLLUTION PREVENTION
3% BY WEIGHT SULFUR

NO2
CAS NO. 10102-44-0
300.0000 PPmv
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICE

NOTES: THE FACILITY IS INSTALLING A THERMAL OXIDIZER TO OXIDIZE THE UNUSED TAIL GAS. AN ADDITIONAL STACK IS ALSO BEING INSTALLED FOR THE UNIT B DRYERS TO ALLOW FOR AN INCREASE IN PRODUCTION. PERMIT PROVISIONS HAVE BEEN MADE IF PRODUCTION INCREASE DOES NOT OCCUR.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-   70

COMPANY NAME/SITE LOCATION: COLUMBIAN CHEMICALS COMPANY
713 INDUSTRIAL ROAD
EL DORADO, AR 71730-6623                        UNION COUNTY

PERMIT/FILE NO. 906-AOP-RO

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY
AGENCY CONTACT PERSON: GLENN PROFIT

SCHEDULING INFORMATION:

RECEIVED APPLICATION     01/15/1997  EST
PERMIT ISSUED            02/18/1998  ACT
START UP                 11/18/2000  EST
COMPLIANCE VERIFICATION  05/18/2001  EST

THROUGHPUT

PROCESS NAME                  POLLUTANT NAME             CAPACITY

DRYERS/BOILERS, UNIT A, 3      548352.0000 LB/D, CARBON BLACK     COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:

INITIAL COMPLIANCE TEST, DAILY TESTING OF SULFUR CONTENT OF FE
AND DAILY MASS BALANCE OF SULFUR EMISSIONS.

SO2  

CAPITAL COSTS: $                      0
O & M COSTS: $                      0  COSTS ARE IN
ANNUALIZED COSTS: $                  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):            0
DRYERS, UNIT B, 3

PROCESS/COMPLIANCE NOTES:

548352.0000 LB/D, CARBON BLACK COMPLIANCE WAS VERIFIED.
INITIAL COMPLIANCE TESTING REQUIRED, DAILY TESTING OF SULFUR CONTENT OF FEEDSTOCK OIL, AND DAILY MASS BALANCE OF SULFUR EMISSIONS.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: Y
OTHER TEST: Y
OTHER METHOD: SEE NOTES

SO2
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

NO2
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

THERMAL OXIDIZER, TAIL GAS

PROCESS/COMPLIANCE NOTES:

2.5800 MMSCF/H, TAIL GAS COMPLIANCE WAS VERIFIED.
INITIAL COMPLIANCE TEST, DAILY TESTING OF SULFUR CONTENT OF FEEDSTOCK OIL, AND DAILY MASS BALANCE OF SULFUR EMISSIONS

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: Y
OTHER TEST: Y
OTHER METHOD: SEE NOTES

SO2
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
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<td>COST EFFECTIVENESS ($/TON):</td>
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COMPANY NAME/SITE LOCATION: QUINCY SOYBEAN COMPANY OF ARKANSAS
HIGHWAY 20 SOUTH
HELENA, AR 72342- PILLIPS COUNTY

PERMIT/FILE NO. 800-AOP-RO

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY
(AGENCY) GLENN PROFIT
(AGENCY CONTACT PERSON) (PHONE) (501) 682-0744

AIRS ID NO. 0510700013

EMISSION LIMITS (P:\S:\)

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<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>BOILER, #3</td>
<td>123.00 MMBTU/H</td>
<td>CO</td>
<td>24.6000 LB/H</td>
<td>0.0000 LB/MMBTU</td>
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<td>CAS NO. 630-08-0</td>
<td>GOOD COMBUSTION PRAC</td>
<td>1/1 CONTROL OPTI</td>
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<tr>
<td></td>
<td></td>
<td>NOX</td>
<td>0.0500 LB/MMBTU</td>
<td>0.0500 LB/MMBTU</td>
<td>0.000</td>
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<tr>
<td></td>
<td></td>
<td>CAS NO. 10102</td>
<td>LOW NOX COMBUSTORS</td>
<td>6/4 CONTROL OPTI</td>
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<tr>
<td>BOILER, COGENERATION/WASTE HEAT RECOVERY</td>
<td>68.00 MMBTU/H</td>
<td>CO</td>
<td>10.6000 LB/H</td>
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</table>
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-   74
RBLC ID No. AR-0019                                        DATE ENTERED/UPDATED:  03/10/1999

NOX                             25.0000 PPM @ 15% O2
CAS NO. 10102                    0.0000 LB/MMBTU                    0.000

CONTROL METHOD:  POLLUTION PREVENTION
LOW NOX COMBUSTORS
6/ 4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:  THE MODIFICATION TRIGGERED A PSD REVIEW AS A RESULT OF RELAXING A SPECIFIC
CONDITION ESTABLISHED TO RESTRICT BOILER #3’S CAPACITY.  THE PERMITTEE
STACK TESTED THE BOILER ON OCTOBER 20, 1997, BUT FAILED THE NOX LIMIT. SO
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: QUINCY SOYBEAN COMPANY OF ARKANSAS
HIGHWAY 20 SOUTH
HELENA, AR 72342-

PERMIT/FILE NO. 800-AOP-RO

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY
AGENCY CONTACT PERSON: GLENN PROFIT

SCHEDULING INFORMATION:

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<th>PROCESS NAME</th>
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<th>CAPACITY</th>
<th>COMPLIANCE WAS VERIFIED.</th>
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<td>BOILER, #3</td>
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<td>123.0000 MMBTU/H</td>
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THROUGHPUT

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<th>POLLUTANT NAME</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
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CO

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<tr>
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<td>$639,000</td>
<td>$0</td>
<td>$89,500</td>
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COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
BOILER, COGENERATION/WASTE HEAT RECOVERY

PROCESS/COMPLIANCE NOTES:

TURBINE AND WASTE HEAT RECOVERY BOILER BOTH EXHAUST THROUGH SN
THROUGHPUT: 68 MMBTU/H AND 79 MMBTU/H

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD: ANNUAL STACK TESTING

CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $639,000
O & M COSTS: $0
ANNUALIZED COSTS: $89,500
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: GEORGIA-PACIFIC CORPORATION  
100 PAPER MILL ROAD  
CROSSETT, AR 71635-  
ASHLEY COUNTY

PERMIT/FILE NO. 597-AOP-RO

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY  
(AGENCY)  
MELISSA BLUMENTHAL  
(AGENCY CONTACT PERSON)  
(501) 682-0744  
(PHONE)

AIRS ID NO. 0500300013

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EMISSION LIMITS (P: S)</th>
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<tbody>
<tr>
<td>TISSUE MACHINE, NUMBER 8</td>
<td>212.00 T/D, DRIED PAPER</td>
<td>VOC</td>
<td>0.0450 LB/H PER TON PAPER</td>
<td>BACT-PSD</td>
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<td>PROCESS CODE 30.004</td>
<td>SCC CODE 30700199</td>
<td>CAS NO. VOC</td>
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<td>BURNERS, NUMBER 8 PAPER MACHINE, GAS FIRED</td>
<td>50.00 MMBTU/H</td>
<td>PM</td>
<td>0.1640 LB/MMBTU</td>
<td>BACT-PSD</td>
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<td>CLEAN FUEL</td>
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<td>SO2</td>
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<td>CONTROL METHOD: POLLUTATION PREVENTION</td>
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VOC  0.0192 LB/MMBTU  
CAS NO. VOC  0.0192 LB/MMBTU  
CONTROL METHOD: NO CONTROLS FEASIBLE

CO  0.1139 LB/MMBTU  
CAS NO. 630-08-0  0.1139 LB/MMBTU  
CONTROL METHOD: POLLUTION PREVENTION  
GOOD COMBUSTION PRACTICE

NOX  0.0193 LB/MMBTU  
CAS NO. 10102  0.0193 LB/MMBTU  
CONTROL METHOD: POLLUTION PREVENTION  
LOW NOX BURNERS

PAPER MACHINE DUST SYSTEM, NUMBER 8  0.00
PROCESS CODE 30.004
SCC CODE 30700199
PM  0.0035 GR/D.
CAS NO. PM  0.0000  
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT  
WET SCRUBBER

BURNERS, NUMBER 5 PAPER MACHINE, GAS FIRED  21.00 MMBTU/H
PROCESS CODE 11.005
SCC CODE 30700199
PM  0.0164 LB/MMBTU  
CAS NO. PM  0.0164 LB/MMBTU  
CONTROL METHOD: POLLUTION PREVENTION  
CLEAN FUEL

SO2  0.0007 LB/MMBTU  
CAS NO. 7446-09-5  0.0007 LB/MMBTU  
CONTROL METHOD: POLLUTION PREVENTION  
CLEAN FUEL

VOC  0.0564 LB/MMBTU  
CAS NO. VOC  0.0564 LB/MMBTU  
CONTROL METHOD: NO CONTROLS FEASIBLE
REPORT DATE: 06/24/1999

RBLC ID No. AR-0020

CO
CAS NO. 630-08-0
0.2142 LB/MMBTU
CONTROL METHOD: POL
GOOD COMBUSTION PRACTICE

NOX
CAS NO. 10102
0.0193 LB/MMBTU
CONTROL METHOD: POL
LOW NOX BURNERS

BURNERS, NUMBER 6 PAPER MACHINE, GAS FIRED
PROCESS CODE 11.005
SCC CODE 30700199

58.40 MMBTU/H

CONTROL METHOD: POLLUTION PREVENTION

CO
CAS NO. 630-08-0
0.1139 LB/MMBTU
CONTROL METHOD: POL
GOOD COMBUSTION PRACTICE

NOX
CAS NO. 10102
0.0913 LB/MMBTU
CONTROL METHOD: POL
LOW NOX BURNERS

PM
CAS NO. PM
0.0164 LB/MMBTU
CONTROL METHOD: POL
CLEAN FUEL

SO2
CAS NO. 7446-09-5
0.0007 LB/MMBTU
CONTROL METHOD: POL
CLEAN FUEL
NOTES: GEORGIA PACIFIC PROPOSED TO INSTALL A NEW PAPER MACHINE AND TO UPGRADE THE BURNERS ON TWO OTHER PAPER MACHINES. THESE MODIFICATIONS REQUIRED AN INCREASED PRODUCTION LEVEL AT SEVERAL EMISSION SOURCES AT THE MILL.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GEORGIA-PACIFIC CORPORATION
100 PAPER MILL ROAD
CROSSETT, AR 71635- ASHLEY COUNTY

PERMIT/FILE NO. 597-AOP-RO

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY
AGENCY CONTACT PERSON: MELISSA BLUMENTHAL

COMPANY NAME/SITE LOCATION: GEORGIA-PACIFIC CORPORATION
100 PAPER MILL ROAD
CROSSETT, AR 71635- ASHLEY COUNTY

PERMIT/FILE NO. 597-AOP-RO

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY
AGENCY CONTACT PERSON: MELISSA BLUMENTHAL

SCHEDULING INFORMATION:

ESTIMATED/ACTUAL DATE

RECEIVED APPLICATION 09/26/1996 ACT
PERMIT ISSUED 02/28/1997 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

TISSUE MACHINE, NUMBER 8 212.0000 T/D, DRIED PAPER COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: RECORDKEEPING

VOC CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
**PROCESS/COMPLIANCE NOTES:**

50.0000 MMBTU/H  
COMPLIANCE WAS VERIFIED.


**COMPLIANCE METHOD (Y/N):**

STACK TEST:  Y  
INSPECTION:  N  
CALCULATION:  N

**OTHER METHOD:**

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<tr>
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<tr>
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<td></td>
</tr>
<tr>
<td>NOX</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
PAPER MACHINE DUST SYSTEM, NUMBER 8

PROCESS/COMPLIANCE NOTES:


COMPLIANCE METHOD (Y/N): STACK TEST: Y, INSPECTION: N, CALCULATION: N

PM

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

SO2

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

BURNERS, NUMBER 5 PAPER MACHINE, GAS FIRED

PROCESS/COMPLIANCE NOTES:

THE BURNERS FOR THE NUMBER 5 PAPER MACHINE HAVE BEEN UPGRADED.

COMPLIANCE METHOD (Y/N): STACK TEST: Y, INSPECTION: N, CALCULATION: N

PM

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

SO2

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

BURNERS, NUMBER 6 PAPER MACHINE, GAS FIRED

58.4000 MMBTU/H
COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
The burners for the number 6 paper machine have been upgraded.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>PM</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>SO2</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>
COMPANY NAME/SITE LOCATION: QUANEX CORPORATION - MACSTEEL DIVISION
P.O. BOX 1592
FT. SMITH, AR 72902-

PERMIT/FILE NO. 693-AOP-R0

DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY
(AGENCY)

AIRS ID NO. 0513100274

ELECTRIC ARC FURNACES, 2

PROCESS CODE 81.007
SCC CODE 30300907

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION
86.00 T/H

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

ELECTRIC ARC FURNACES, 2

86.00 T/H

PM 0.0018 GR/D.

CAS NO. PM 0.0000

CONTROL METHOD: ADD
POSITIVE PRESSURE MULTICOMPARTMENT BAGHOUSE
4/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SO2 90.3000 LB/H

CAS NO. 7446-09-5 0.0000

CONTROL METHOD: POLLUTION PREVENTION
USE OF HIGH QUALITY SCRAP
4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO 421.4000 LB/H

CAS NO. 630-08-0 0.0000

CONTROL METHOD: POLLUTION PREVENTION
EXISTING SIDE DRAFT CONTROL SYSTEM.
8/8 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999

RBLC ID No. AR-0021

NO2
CAS NO. 10102-44-0
43.9000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
EXISTING NATURAL GAS BURNERS
11/11 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PB
CAS NO. 7439-92-1
0.3000 LB/H
0.0000
CONTROL METHOD: ADDITIONAL CONTROL EQUIPMENT
POSITIVE PRESSURE, MULTICOMPARTMENT FABRIC FILTER BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

FURNACE, LADLE METALLURGY

PROCESS CODE 81.007
SCC CODE 30400799

PM
CAS NO. PM
0.0018 GR/D.
0.0000
CONTROL METHOD: ADDITIONAL CONTROL EQUIPMENT
ROUTED TO EAF BAGHOUSES, MULTICOMPARTMENT POSITIVE PRESSURE BAGHOUSES
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

FURNACE, HEAT TREAT

PROCESS CODE 81.007
SCC CODE 30300934

PM
CAS NO. PM
0.7000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
BURNING OF PIPELINE QUALITY NATURAL GAS
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SO2
CAS NO. 7446-09-5
0.1000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION
BURNING OF PIPELINE QUALITY NATURAL GAS
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999

CO
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
1/1 CONTROL OPTION SELECTED

NO2
CAS NO. 10102-44-0
CONTROL METHOD: POLLUTION PREVENTION
ULTRA-LOW NOx BURNER, FIRED WITH PIPELINE QUALITY NATURAL GAS ONLY.
1/1 CONTROL OPTION SELECTED

CASTER
86.00 T/H
PROCESS CODE 81.007
SCC CODE 30300922
PM
CAS NO. PM
0.0018 GR/D.
0.0000
CONTROL METHOD: ADD FABRIC FILTER, MULTICOMPARTMENT BAGHOUSE
1/1 CONTROL OPTION SELECTED

SLAG PROCESSING
68350.00 T/YR, SLAG
PROCESS CODE 81.007
SCC CODE 30300809
PM
CAS NO. PM
3.8000 T/YR
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
THROUGHPUT LIMIT ON SLAG, WATER SPRAYS ON TRANSFER POINTS
1/1 CONTROL OPTION SELECTED

NOTES: BOTH EAF BAGHOUSES HAVE CEMS FOR CO, NOX, SO2.
COMPANY NAME/SITE LOCATION: QUANEX CORPORATION - MACSTEEL DIVISION  
P.O. BOX 1592  
FT. SMITH, AR 72902-  
SEBASTIAN COUNTY

PERMIT/FILE NO. 693-AOP-R0  
DETERMINATION MADE BY: ARKANSAS DEPT OF POLL CTRL & ECOLOGY  
AGENCY CONTACT PERSON: SHANE BYRUM

SCHEDULING INFORMATION:

<table>
<thead>
<tr>
<th>EVENT</th>
<th>DATE</th>
<th>TYPE</th>
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<tr>
<td>RECEIVED APPLICATION</td>
<td>05/10/1996</td>
<td>ACT</td>
</tr>
<tr>
<td>PERMIT ISSUED</td>
<td>02/18/1998</td>
<td>ACT</td>
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<tr>
<td>START UP</td>
<td>08/01/1997</td>
<td>EST</td>
</tr>
<tr>
<td>COMPLIANCE VERIFICATION</td>
<td>01/01/1999</td>
<td>EST</td>
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THROUGHPUT

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRIC ARC FURNACES, 2</td>
<td></td>
<td>86.0000 T/H</td>
</tr>
</tbody>
</table>

PROCESS/COMPLIANCE NOTES:  

COMPLIANCE WAS VERIFIED.  
OPACITY CEMS ALSO

COMPLIANCE METHOD (Y/N):  
STACK TEST: Y  
INSPECTION: Y  
CALCULATION: N  
OTHER METHOD: CEMS, NOX, CO

PM

<table>
<thead>
<tr>
<th>CAPITAL COSTS:</th>
<th>O &amp; M COSTS:</th>
<th>ANNUALIZED COSTS:</th>
<th>COST EFFECTIVENESS ($/TON):</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0.
REPORT DATE: 06/24/1999

**SO2**

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

**CO**

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

**NO2**

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

**PB**

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

**FURNACE, LADLE METALLURGY**

- PROCESS/COMPLIANCE NOTES:

  EMISSIONS FROM LMF FURNACE ARE ROUTED THROUGH EAF BAGHOUSE

- COMPLIANCE METHOD (Y/N):
  - STACK TEST: Y
  - INSPECTION: N
  - CALCULATION: N
  - OTHER TEST: Y
  - OTHER METHOD: CEMS

**PM**

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0
FURNACE, HEAT TREAT  

65.0000 MMBTU/H  

COMPLIANCE WAS VERIFIED.

STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER TEST: Y  
OTHER METHOD: NAT GAS COMB.

PM  

CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

SO2  

CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

CO  

CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

NO2  

CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

CASTER  

86.0000 T/H  

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:  
EMISSIONS FROM CASTER ARE CAPTURED BY CANOPY HOOD AND SENT TO EAF BAGHOUSES WHICH HAVE CEMS FOR SO2, NOX, CO, PM.  
STACK TESTED TWICE A YEAR.
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. AR-0021

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N   CALCULATION: N
OTHER METHOD: CEMS - EAF BA

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0   COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0   COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

SLAG PROCESSING
68350.0000 T/YR, SLAG
COMPLIANCE WAS VERIFIED.
OTHER METHODS: WATER SPRAYS, SLAG THROUGHPUT LIMIT.

PROCESS/COMPLIANCE NOTES:

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y   CALCULATION: N
OTHER METHOD: SEE NOTES

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0   COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0   COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: LOUISIANA-PACIFIC CORPORATION
P.O. BOX 1879
OROVILLE, CA 95965-

PERMIT/FILE NO. NSR 4-4-4 SAC 94-1

DATE ENTERED/UPDATED: 04/01/1999

DETERMINATION MADE BY: EPA REGION IX
(AGENCY)
DAVID WAMPLER
(AGENCY CONTACT PERSON)

AIRS ID NO. 06-007-

COMPANY NAME/SITE LOCATION: LOUISIANA-PACIFIC CORPORATION
P.O. BOX 1879
OROVILLE, CA 95965-

PERMIT/FILE NO. NSR 4-4-4 SAC 94-1

DATE ENTERED/UPDATED: 04/01/1999

DETERMINATION MADE BY: EPA REGION IX
(AGENCY)
DAVID WAMPLER
(AGENCY CONTACT PERSON)

AIRS ID NO. 06-007-

EMISSION LIMITS (P:

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>RAW MATERIAL HANDLING OPERATIONS</td>
<td>0.00</td>
<td>PM10</td>
<td>0.1900 LB/H</td>
<td></td>
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<tr>
<td>PROCESS CODE 30.005</td>
<td></td>
<td>SCC CODE 2-01-002-01</td>
<td>CAS NO. PM</td>
<td>0.0000</td>
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<tr>
<td>MATERIAL HANDLING SANDING DUST</td>
<td>0.00</td>
<td>PM10</td>
<td>0.0050 GR/DSCF</td>
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<tr>
<td>PROCESS CODE 30.005</td>
<td></td>
<td>SCC CODE 30700802</td>
<td>CAS NO. PM</td>
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<tr>
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<td></td>
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</tbody>
</table>
REGENERATIVE THERMAL OXIDIZER

PROCESS CODE 30.005
SCC CODE 20200201

24.00 MMBTU/H

PM10
CAS NO. PM

0.0015 GR/D.
0.0000

CONTROL METHOD: ADD-ON CONTROL
7 CANISTER RTO. INT.
IN TURN USES EMISSIONS FROM PRESS AND BOARD COOLER

6/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: PERMIT FOR "CONSTRUCTION" OF MEDIUM DENSITY FIBERBOARD LINE (#2).
CONSTRUCTION OCCURRED IN 1985 WITHOUT PSD PERMIT. PSD PERMIT WAS REQUIRED
AS PART OF NATIONAL (EPA) CONSENT DEED AGAINST LOUISIANA-PACIFIC
(SEE CV93-0869).
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: LOUISIANA-PACIFIC CORPORATION
P.O. BOX 1879
OROVILLE, CA 95965-
BUTTE COUNTY

PERMIT/FILE NO. NSR 4-4-4 SAC 94-1

DETERMINATION MADE BY: EPA REGION IX
AGENCY CONTACT PERSON: DAVID WAMPLER

SCHEDULING INFORMATION:
RECEIVED APPLICATION 11/20/1995 ACT
PERMIT ISSUED 04/01/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME Pollutant Name Capacity

RAW MATERIAL HANDLING OPERATIONS
0.0000

PROCESS/COMPLIANCE NOTES:
STORAGE AND MIXING OF RAW FIBER MATERIAL IS REQUIRED TO BE CONDUCTED INSIDE
RAW MATERIAL STORAGE BUILDINGS. TRUCK DUMPS ARE REQUIRED TO BE PERFORMED
AT DUMP THAT HAS NEGATIVE PRESSURE CONNECTION TO INDOOR STORAGE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

PM10
CAPITAL COSTS: $3,091,000
O & M COSTS: $0
ANNUALIZED COSTS: $616,321
COST EFFECTIVENESS ($/TON): 42,500
MATERIAL HANDLING SANDERDUST

PROCESS/COMPLIANCE NOTES:

0.0000

COMPLIANCE WAS NOT VERIFIED.

BAGHOUSES CONTROLLING THE SANDERDUST AND BOARD FORMING AND SAWING OPERATIONS. COMPLIANCE HAS NOT BEEN DETERMINED AT THIS DATE.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

REGENERATIVE THERMAL OXIDIZER

PROCESS/COMPLIANCE NOTES:

24.0000 MMBTU/H

COMPLIANCE WAS VERIFIED.

RTO CONSTRUCTED PRIOR TO PERMIT ISSUANCE. TESTS PERFORMED TO ASSURE COMPLIANCE. RTO UTILIZES AIR FROM PRESS AND BOARD COOLING OPERATIONS WITH SUPPLEMENTAL NATURAL GAS.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER METHOD: SOURCE TEST 1.

PM10

CAPITAL COSTS: $ 4,068,500
O & M COSTS: $ 714,300
ANNUALIZED COSTS: $ 579,300
COST EFFECTIVENESS ($/TON): 13,100
<table>
<thead>
<tr>
<th>Processes Subject to This Permit</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Emission Limits</th>
<th>Pollution Prevention</th>
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</thead>
<tbody>
<tr>
<td>TURBINE, SIMPLE CYCLE LM6000 GAS</td>
<td>421.40 MMBTU/H</td>
<td>VOC</td>
<td>1.1000 LB/H</td>
<td>BACT</td>
</tr>
<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 2-01-002-01</td>
<td>CAS NO. VOC</td>
<td>CONTROL METHOD: OXIDATION CATALYST</td>
<td></td>
</tr>
<tr>
<td>TURBINE, GAS, COMBINED CYCLE LM6000</td>
<td>421.40 MMBTU/H</td>
<td>VOC</td>
<td>1.1000 LB/H</td>
<td>OXIDATION CATALYST</td>
</tr>
<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 2-01-002-01</td>
<td>CAS NO. VOC</td>
<td>CONTROL METHOD: ADD</td>
<td></td>
</tr>
<tr>
<td>TURBINE, GAS, COMBINED CYCLE LM6000</td>
<td>421.40 MMBTU/H</td>
<td>VOC</td>
<td>1.1000 LB/H</td>
<td>OXIDATION CATALYST</td>
</tr>
<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 2-01-002-01</td>
<td>CAS NO. VOC</td>
<td>CONTROL METHOD: ADD</td>
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</tr>
</tbody>
</table>
NOTES: NOT BUILT YET

ASSUMED DESTRUCTION EFFICIENCY OF 10% FOR ROC AND 90% FOR CO. EMISSION RATES REFLECT TURBINE FIRING WITH NO DUST BURNER
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SACRAMENTO COGENERATION AUTHORITY P&G
5000 83RD STREET
SACRAMENTO, CA

PERMIT/FILE NO. 11436

SCHEDULING INFORMATION:

RECEIVED APPLICATION / /
PERMIT ISSUED 08/19/1994 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME          POLLUTANT NAME   CAPACITY  COMPLIANCE WAS NOT VERIFIED.
TURBINE, SIMPLE CYCLE LM6000 GAS          421.4000 MM BTU/H

PROCESS/COMPLIANCE NOTES:
ARB RECORD #A330-849-98

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. CA-0810

TURBINE, GAS, COMBINED CYCLE LM6000

PROCESS/COMPLIANCE NOTES:

ARB RECORD # A330-850-98; A/C # 11434

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

TURBINE, GAS, COMBINED CYCLE LM6000

PROCESS/COMPLIANCE NOTES:

ARB RECORD # A330-851-98; A/C # 11435

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: SACRAMENTO POWER AUTHORITY CAMPBELL SOUP
3215 47TH AVE
SACRAMENTO, CA
SACRAMENTO COUNTY

PERMIT/FILE NO. 13629

DETERMINATION MADE BY: SACRAMENTO METROPOLITAN AQMD, CA
(AGENCY)

BRIAN KERBS
(AGENCY CONTACT PERSON)

(916) 386-6628
(PHONE)

AIRS ID NO.

EMISSION LIMITS (P:

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT NAME

RANKING INFORMATION

TURBINE GAS, COMBINE CYCLE SIEMENS V84.2 1257.00 MMBTU/H

PROCESS CODE 15.004

SCC CODE 2-01-002-01

ROC 3.2100 LB/H

CAS NO. VOC 0.0000

CONTROL METHOD: ADD OXIDATION CATAYLST

NOTES: ASSUMED DESTRUCTION EFFICIENCY OF 5% FOR ROC. EMISSION RATES REFLECT TURBINE FIRING WITH NO DUST BURNER
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part B)
RBLC ID No. CA-0811  DAT.

COMPANY NAME/SITE LOCATION:  SACRAMENTO POWER AUTHORITY CAMPBELL SOUP
SACRAMENTO, CA  SACRAMENTO COUNTY

PERMIT/FILE NO. 13629  DETERMINATION MADE BY:  SACRAMENTO METROPOLITAN AQMD, CA
AGENCY CONTACT PERSON:  BRIAN KERBS  P:

SCHEDULING INFORMATION:  ESTIMATED/ACTUAL DATE

RECEIVED APPLICATION / /  PERMIT ISSUED 08/19/1994 ACT
START UP / /  COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME  POLLUTANT NAME  CAPACITY

TURBINE GAS, COMBINE CYCLE SIEMENS V84.2  1257.0000 MMBTU/H  COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:  ARB RECORD #: A330-852-98

COMPLIANCE METHOD (Y/N):
STACK TEST:  N  INSPECTION:  N  CALC:

OTHER METHOD:

ROC
CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
COMPANY NAME/SITE LOCATION: CARSON ENERGY GROUP & CENTERAL VALLEY FINANCING AU
8580 LAGUNA STATION RD
ELK GROVE, CA 95758-
SACRAMENTO COUNTY

PERMIT/FILE NO. 11013

DETERMINATION MADE BY: SACRAMENTO METROPOLITAN AQMD, CA
(AGENCY)
BRIAN KERBS
(AGENCY CONTACT PERSON)
(916) 386-6628

AIRS ID NO.

PROCESS CODE 15.004
SCC CODE 2-01-002-01

PROCESSES SUBJECT TO THIS PERMIT

EMISSION LIMITS (P:

THROUGHPUT

CAPACITY

POLLUTANT NAME

RANKING INFORMATION

TURBINE, GAS SIMPLE CYCLE LM6000
450.00 MMBTU/H

ROC
2.4600 LB/H

CAS NO. VOC
0.0000

CONTROL METHOD: ADD
OXIDATION CATALYST

NOTES: ASSUMED DESTRUCTION EFFICIENCY OF 10% FOR ROC AND 91% FOR CO
<table>
<thead>
<tr>
<th>PROCESS/COMPLIANCE NOTES:</th>
<th>ARB RECORD # A330-854-98</th>
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<tbody>
<tr>
<td>PROCESS NAME</td>
<td>POLLUTANT NAME</td>
</tr>
<tr>
<td>TURBINE, GAS SIMPLE CYCLE LM6000</td>
<td>450.0000 MMBTU/H</td>
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</tbody>
</table>

COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATION: N

ROC

CAPITAL COSTS: $ 0 O & M COSTS: $ 0 ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: SEPCO
U STREET/ 6TH STREET
RIO LINDA, CA

PERMIT/FILE NO. 10883

DETERMINATION MADE BY: SACRAMENTO METROPOLITAN AQMD, CA
BRIAN KERBS
(AGENCY) (AGENCY CONTACT PERSON)
(916) 386-6628

TURBINE, GAS COMBINED CYCLE GE MODEL 7
PROCESS CODE 15.004
SCC CODE 2-01-002-01
920.00 MMBTU/H

NOTES: ASSUMED DESTRUCTION EFFICIENCY OF 5% FOR ROC. EMISSION RATES REFLECT TURBINE FIRING WITH NO DUST BURNER
COMPANY NAME/SITE LOCATION: SEPCO
U STREET/ 6TH STREET
RIO LINDA, CA

PERMIT/FILE NO. 10883

SCHEDULED INFORMATION:

PROCESS NAME                  POLLUTANT NAME             CAPACITY
TURBINE, GAS COMBINED CYCLE GE MODEL 7       920.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:

ARBO RECORD #: A330-855-98

COMPLIANCE WAS NOT VERIFIED

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
COMPANY NAME/SITE LOCATION: SHELL MARTINEZ REFINING COMPANY  
3485 PACHECO BLVD  
MARTINEZ, CA 94553-  
CONTRA COSTA COUNTY

PERMIT/FILE NO. 18185  
DATE OF PERMIT ISSUANCE-- 07/28/1998 ACT

DETERMINATION MADE BY: BAY AREA AQMD, CA  
GREG STONE  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  
(415) 749-4745

AIRS ID NO.

EMISSION LIMITS (P:\STANDARDIZED)

<table>
<thead>
<tr>
<th>PROCESS CODE 50.999</th>
<th>REFINERY FUEL GAS SYSTEM</th>
<th>0.00</th>
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</thead>
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<tr>
<th>POLLUTION PREVENTION EQUIPMENT</th>
<th>込んで了</th>
<th>CLASSIFICATION</th>
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<tbody>
<tr>
<td>H2S AND TOTAL REDUCED SULFUR (TRS) IN REFINERY FUEL GAS SYSTEM</td>
<td>reduced by DIAETHANOLAMINE (DEA) ABSORBER, CLAUS SULFUR PLANT AND SCOT UNIT</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SHELL MARTINEZ REFINING COMPANY
3485 PACHECP BLVD
MARTINEZ, CA 94553-
CONTRA COSTA COUNTY

PERMIT/FILE NO. 18185
DETERMINATION MADE BY: BAY AREA AQMD, CA
AGENCY CONTACT PERSON: GREG STONE

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / 
PERMIT ISSUED 07/28/1998 ACT 
START UP 05/14/1998 EST 

PROCESS/COMPLIANCE NOTES: 
ARB RECORD # A350-856-98

PROCESS NAME 
POLLUTANT NAME 
COST EFFECTIVENESS ($/TON): 

REFINERY FUEL GAS SYSTEM 
0.0000 
COMPLIANCE WAS NOT VERIFIED

CAPITAL COSTS: $ 
O & M COSTS: $ 
ANNUALIZED COSTS: $ 
COSTS ARE IN 
COSTS ARE NOT 

SO2 
COMPLIANCE METHOD (Y/N): 
STACK TEST: N 
INSPECTION: N 
CALCULATED COSTS: 

OTHER METHOD:
COMPANY NAME/SITE LOCATION: UP-RIGHT, INC.
1775 PARK ST.
SELMA, CA
FRESNO COUNTY

PERMIT/FILE NO. C-1305-11-0
DATE OF PERMIT ISSUANCE-- 12/09/1997
START-UP DATE-- 12/01/1997 EST

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)
(209) 497-1000

<table>
<thead>
<tr>
<th>AIRS ID NO.</th>
<th>EMISSION LIMITS (P: STAND.)</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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</thead>
<tbody>
<tr>
<td>PROCESS CODE 41.013</td>
<td>PM10 4.0000 LB/D 0.0000</td>
<td>0.00</td>
<td>0.00</td>
<td>PM</td>
<td>CONTROL METHOD: POL: HVLP GUN APPLICATOR, EXHAUST FAN</td>
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<tr>
<td>SCC CODE 4-02-001-10</td>
<td>CAS NO. PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>VOC 20.0000 LB/D 0.0000</td>
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<td></td>
<td>VOC</td>
<td>CONTROL METHOD: POL: COATINGS WITH VOC CONTENT AS APPLIED LESS THAN 2.3 LB/GAL</td>
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<tr>
<td></td>
<td>CAS NO. VOC</td>
<td></td>
<td></td>
<td></td>
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NOTES:
COMPANY NAME/SITE LOCATION:  UP-RIGHT, INC.
1775 PARK ST.
SELMA, CA
FRESNO COUNTY

PERMIT/FILE NO. C-1305-11-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
AGENCY CONTACT PERSON: SEYED SADREDIN

SCHEDULING INFORMATION:

RECEIVED APPLICATION / /
PERMIT ISSUED 12/09/1997 ACT
START UP 12/01/1997 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME                  POLLUTANT NAME             CAPACITY
COMPRESSOR, ELECTRIC FOR HVLP APPLICATOR                     0.0000

THROUGHPUT

COMPLIANCE WAS NOT VERIFIED.

ARB RECORD # A340-815-98
PROCESS: USED TO COAT METAL PARTS IN AN AIR FILTRATION MODEL T.
SPRAY BOOTH WITH DRY FILTERS AND 7.5 HP EXHAUST FAN

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N    CALCULATION: N
OTHER METHOD:

PM10
CAPITAL COSTS: $    0
O & M COSTS: $     0   COSTS ARE IN
ANNUALIZED COSTS: $ 0   COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
| VOC | CAPITAL COSTS: $    | 0                       |
|     | O & M COSTS: $      | 0                       |
|     | ANNUALIZED COSTS: $ | 0                       |
|     | COST EFFECTIVENESS ($/TON): | 0                      |
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: TRI-TECH GRAPHICS INC.
1379 N. RABE AVENUE
FRESNO, CA 93727- FRESNO COUNTY

PERMIT/FILE NO. C-1251-2-1

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO.

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tbody>
<tr>
<td>SCREEN PRINT LINE #1</td>
<td>0.50 MMBTU/H</td>
<td></td>
<td>VOC</td>
<td>80.4000 LB/D</td>
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<td>CAS NO. VOC</td>
<td>0.0000</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>CONTROL METHOD: NO</td>
<td>NO CONTROL</td>
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<tr>
<td>SCREEN PRINT LINE #2</td>
<td>1.25 MMBTU/H</td>
<td></td>
<td>VOC</td>
<td>80.4000 LB/D</td>
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<td>CAS NO. VOC</td>
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<td>CONTROL METHOD: NO</td>
<td>NO CONTROL</td>
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<tr>
<td>SCREEN PRINT LINE #3</td>
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<td>VOC</td>
<td>5.0000 LB/D</td>
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<td>CAS NO. VOC</td>
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<td>CONTROL METHOD: NO</td>
<td>NO CONTROL</td>
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</table>
SCREEN PRINT LINE #4

PROCESS CODE 41.999
SCC CODE 4-02-001-10

VOC 5.0000 LB/D LINES 3-7
CAS NO. VOC 0.0000
CONTROL METHOD: NO CONTROL

SCREEN PRINT LINE #5

PROCESS CODE 41.999
SCC CODE 4-02-001-10

VOC 5.0000 LB/D LINES 3-7
CAS NO. VOC 0.0000
CONTROL METHOD: NO CONTROL

SCREEN PRINT LINE #6

PROCESS CODE 41.999
SCC CODE 4-02-001-10

VOC 5.0000 LB/D LINES 3-7
CAS NO. VOC 0.0000
CONTROL METHOD: NO CONTROL

SCREEN PRINT LINE #7

PROCESS CODE 41.999
SCC CODE 4-02-001-10

VOC 5.0000 LB/D LINES 3-7
CAS NO. VOC 0.0000
CONTROL METHOD: NO CONTROL

NOTES:
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  114

COMPANY NAME/SITE LOCATION:  TRI-TECH GRAPHICS INC. 
1379 N. RABE AVENUE 
FRESNO, CA 93727-
FRESNO COUNTY

PERMIT/FILE NO. C-1251-2-1 

DETERMINATION MADE BY:  SJVUAPCD - CENTRAL REGIONAL OFFICE, C. 
AGENCY CONTACT PERSON:  SEYED SADREDIN

SCHEDULING INFORMATION:

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<td>PERMIT ISSUED          01/21/1998  ACT</td>
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<td>START UP               /  /</td>
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<td>COMPLIANCE VERIFICATION /  /</td>
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THROUGHPUT

<table>
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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>0.5000 MMBTU/H</td>
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</table>

COMPLIANCE WAS NOT VERIFIE:

SCREEN PRINT LINE #1

PROCESS/COMPLIANCE NOTES:

ARBITRARY RECORD #: A340-816-98
PROCESS: WITH ADVANCE VIKING RP SEMI-AUTOMATIC PRESS, ONE P4PW
ONE ARM MAUNAL PRESS, A CINCINNATI CONVEYORIZED NATURAL GAS DRYER

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N
OTHER METHOD:

VOC

| CAPITAL COSTS:   | $ | 0 |
| O & M COSTS:     | $ | 0 | COSTS ARE IN |
| ANNUALIZED COSTS: | $ | 0 | COSTS ARE NOT |
| COST EFFECTIVENESS ($/T ) | 0 | 0 |
SCREEN PRINT LINE #2

PROCESS/COMPLIANCE NOTES:
ARB RECORD # A340-817-98; A/C # C-1251-3-1
PROCESS: ADVANCE VIKING RP SEMI-AUTOMATIC PRESS, TWO P&PW ONE ARM PRESS AND 1.25 MMBTU/H CINCINNATI CONVEYORIZED NATURAL GAS-FIRED DRYER

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

SCREEN PRINT LINE #3

PROCESS/COMPLIANCE NOTES:
ARB RECORD A340-818-98; A/C # C-1251-4-2
PROCESS: ADVANCE VIKING RP PRESS, AMCO-PROCURE MODEL 91-0009-0 UNIT WITH LAMP

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
SCREEN PRINT LINE #4

PROCESS/COMPLIANCE NOTES:

ARB RECORD #: A340-819-98; A/C #: C-1251-5-2
PROCESS: HARTFELDT MODEL HSB PRESS, ADVANCE EGAELE PRESS AND AMCO-PROCURE
MODEL 91-00012-01 UV CURING UNIT WITH LAMP

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

SCREEN PRINT LINE #5

PROCESS/COMPLIANCE NOTES:

ARB RECORD #: A340-820-98; A/C #: C-1251-6-2
PROCESS: ADVANCE VIKING LS PRESS AND ADVANCE QUARTUM WITH UV D:

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
SCREEN PRINT LINE #6

PROCESS/COMPLIANCE NOTES:
ARB RECORD # A340-821-98; A/C # C-1251-7-2
PROCESS: ADVANCE VIKING LS PRESS AND AMCO-PROCURE MODEL 91-000
CURING UNIT WITH LAMP

COMPLIANCE METHOD (Y/N): STACK TEST: N
INSTRUCTION: N
OTHER METHOD:
VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

SCREEN PRINT LINE #7

PROCESS/COMPLIANCE NOTES:
ARB RECORD # A340-822-98; A/C # C-1251-8-1
PROCESS: SCREEN PRINTING ENTERPRISE INC. MODEL 3PI-482AE UV CURING UNIT
REACTOR WITH TWO LAMPS

COMPLIANCE METHOD (Y/N): STACK TEST: N
INSTRUCTION: N
OTHER METHOD:
VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
### Emission Limits

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<th>Pollutant Name</th>
<th>Emission Limit (LB/MMBTU)</th>
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<th>BACT 0.0000</th>
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<tr>
<td>Voc</td>
<td>0.0300</td>
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**Control Method:** Pollution Prevention

**Basis:** Bio-Gas Fuel
COMPANY NAME/SITE LOCATION: BIORECYCLING TECHNOLOGIES, INC
18559 W. LINCOLN AVENUE
KERMAN, CA
FRESNO COUNTY
PERMIT/FILE NO. C-3100-3-0
DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
AGENCY CONTACT PERSON: SEYED SADREDIN
PHONE # (209) 497-1000

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / PERMIT ISSUED 01/20/1998 ACT
START UP 12/01/1997 EST COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY
FLARE ASSEMBLY, FIRED /W BIOGAS, NAT GAS POLL LT 10.9000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
COMPLIANCE WAS NOT VERIFIED.
ARB RECORD # A310-823-98

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATED:
OTHER METHOD:

NOX CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
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<th></th>
<th>CAPITAL COSTS: $</th>
<th>O &amp; M COSTS: $</th>
<th>ANNUALIZED COSTS: $</th>
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<tr>
<td>PM10</td>
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<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>VOC</td>
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<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>PROCESS CODE</td>
<td>THROUGHPUT</td>
<td>POLLUTANT NAME</td>
<td>RANKING INFORMATION</td>
<td>EST % EFF</td>
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<td>11.005</td>
<td>3.78 MMBTU/H</td>
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<td></td>
<td>SOX</td>
<td>INDUSTRIAL COMBUSTION</td>
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NOTES:

BOILER, NAT GAS FIRED, WITH LOW SULFUR #2 OIL BACK

- PROCESS CODE 11.005
- SCC CODE 1-03-006-03
- NOX 30.0000 PPMV
- CAS NO. 10102
- CONTROL METHOD: POL
- INDUSTRIAL COMBUSTION
- SOX 0.0500 % <
- CAS NO. SOX 0.0000
- CONTROL METHOD: POL
- NATURAL GAS AS PRIMARY FUEL
- OIL AS BACKUP
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: DOCTORS MEDICAL CENTER
1441 FLORIDA AVENUE
MODESTO, CA
STANISLAUS COUNTY

PERMIT/FILE NO. N-2333-10-0
DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, C.
AGENCY CONTACT PERSON: SEYED SADREDIN

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / 
PERMIT ISSUED 01/05/1998 ACT
START UP / / 
COMPLIANCE VERIFICATION / / 

PROCESS NAME POLLUTANT NAME CAPACITY

BOILER, NAT GAS FIRED, WITH LOW SULFUR #2 OIL BACK 3.7800 MMBTU/H COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES: ARB RECORD #: A310-824-98

THROUGHPUT

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

SOX

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: AUTOMATION USA
BOEING WAY
STOCKTON, CA
SAN JOAQUIN COUNTY

PERMIT/FILE NO. N-3911-9-0
DATE OF PERMIT ISSUANCE-- 12/03/1997

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)
THROUGHPUT POLLUTION PREVENTION
PROCESS CODE 49.008 VOC
SCC CODE 4-01-003-98 CAS NO. VOC

NOTE:
USING LOW VOLATILITY SOLVENTS, RESERVOIR DRAIN
COVER, AND A FREEBOARD HEIGHT AT LEAST 6"
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: AUTOMATION USA
BOEING WAY
STOCKTON, CA
SAN JOAQUIN COUNTY

PERMIT/FILE NO. N-3911-9-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
AGENCY CONTACT PERSON: SEYED SADREDIN

SCHEDULING INFORMATION:

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<td>COMPLIANCE VERIFICATION</td>
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THROUGHPUT

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<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>DEGREASER, PORTABLE REMOTE RESERVOIR</td>
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PROCESS/COMPLIANCE NOTES:

ARB RECORD #: A340-825-98

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<td>ANNUALIZED COSTS:</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H- 126

RBLG ID No. CA-0827

COMPANY NAME/SITE LOCATION: DARLING & DURST
2819 S MAPLE
FRESNO, CA
PERMIT/FILE NO. C-403-6-0
FRESNO COUNTY

PERMIT/FILE NO. C-403-6-0
DATE ENTERED/UPDATED: 04/13/1999

COMPANY NAME/SITE LOCATION: DARLING & DURST
2819 S MAPLE
FRESNO, CA
PERMIT/FILE NO. C-403-6-0
FRESNO COUNTY

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE) (209) 497-1000

AIRS ID NO.

EMISSION LIMITS (P:\S:\)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

PROCESSES SUBJECT TO THIS PERMIT

DIESEL SWITCHLOADING OPERATION 0.00

PROCESS CODE 42.010
SCC CODE 4-04-001-53

VOC 17.8000 LB/D
CAS NO. VOC 0.0000

CONTROL METHOD: POLLUTION PREVENTION USING CARB TESTED AND CERTIFIED 95% EFFECTIVE VAPOR RECOVERY SYSTEM

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: DARLING & DURST
2819 S MAPLE
FRESNO, CA

PERMIT/FILE NO. C-403-6-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
AGENCY CONTACT PERSON: SEYED SADREDIN

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 10/30/1997 ACT
START UP / / COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME PROCESS/COMPLIANCE NOTES:

DIESEL SWITCHLOADING OPERATION

THROUGHPUT

DIESEL SWITCHLOADING OPERATION

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part A)                                           PAGE H-  128

COMPANY NAME/SITE LOCATION:  DELTA PLASTICS
1152 SCHOOL AVENUE
STOCKTON, CA

PERMIT/FILE NO.  N-2393-1-2

DETERMINATION MADE BY:  SJVUAPCD - CENTRAL REGIONAL OFFICE, CA  SEYED SADREDIN
(AGENCY)  (AGENCY CONTACT PERSON)  (PHONE)

AIRS ID NO.

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>SPRAYER,  APPLICATION OF CONTACT ADHESIVES</td>
<td>0.00</td>
<td>VOC</td>
<td>15.0000 LB/D</td>
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<td>PROCESS CODE 41.016</td>
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<td></td>
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NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: DELTA PLASTICS
1152 SCHOOL AVENUE
STOCKTON, CA

PERMIT/FILE NO. N-2393-1-2

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, C.
AGENCY CONTACT PERSON: SEYED SADRUDIN

SCHEDULING INFORMATION:

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<td>START UP</td>
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PROCESS NAME        POLLUTANT NAME              CAPACITY

| SPRAYER, APPLICATION OF CONTACT ADHESIVES | 0.0000 |

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

ARB RECORD #: A340-827-98

PROCESS: FOR COUNTERTOP MANUFACTURING

<table>
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<th>COMPLIANCE METHOD (Y/N):</th>
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<tbody>
<tr>
<td>STACK TEST: N</td>
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<tr>
<td>INSPECTION: N</td>
</tr>
<tr>
<td>CALCULATION: N</td>
</tr>
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</table>

| OTHER METHOD: |
| VOC |
| CAPITAL COSTS: $ | 0 |
| O & M COSTS: $ | 0 |
| ANNUALIZED COSTS: $ | 0 |
| COST EFFECTIVENESS ($/TON): | 0 |
COMPANY NAME/SITE LOCATION: G.E.N.Y. OPERATIONS COMPANY  
2507 BLACKSTONE CT  
BAKERSFIELD, CA  
KERN COUNTY

PERMIT/FILE NO. C-1685-29-0  
DATE OF PERMIT ISSUANCE-- 11/03/1997 ACT

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA  
SEYED SADREDIN  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

IC ENGINE, NAT GAS FIRED, CATERPILLAR MODEL 333 145.00 BHP

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>POLLUTION PREVENTION</th>
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<tbody>
<tr>
<td>15.004</td>
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<td>145.00</td>
<td>NOX</td>
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<td>2-01-007-02</td>
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<td>CAS NO. 10102</td>
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<tr>
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<td></td>
<td></td>
<td>NO CONTROLS FEASIBLE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NO CONTROL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td>VOC</td>
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<td>0.0000</td>
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<td></td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>POSITIVE CRANKCASE V.</td>
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NOTES:
REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part B)
RBLID No. CA-0829

COMPANY NAME/SITE LOCATION: G.E.N.Y. OPERATIONS COMPANY
2507 BLACKSTONE CT
BAKERSFIELD, CA
KERN COUNTY

PERMIT/FILE NO. C-1685-29-0
DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, C.
AGENCY CONTACT PERSON: SEYED SADREDIN

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / PERMIT ISSUED 11/03/1997 ACT
START UP 09/01/1995 EST COMPLIANCE VERIFICATION / /

PROCESS NAME Pollutant Name Capacity
IC ENGINE, NAT GAS FIRED, CATERPILLAR MODEL 333 145.0000 BHP

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
ARB RECORD # A330-828-98

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATED DATA:

OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)
RBLC ID No. CA-0829

VOC

  CAPITAL COSTS:  $  0
  O & M COSTS:    $  0
  ANNUALIZED COSTS:  $  0
  COST EFFECTIVENESS ($/TON):  0

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: ARCHIE CRIPPEN
495 N. MARKS
FRESNO, CA 93706-

PERMIT/FILE NO. C-53-4-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT

<table>
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<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EMisson LIMITS (P:</th>
<th>(S)</th>
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<tr>
<td>15.002</td>
<td>500.00 BHP</td>
<td>NOX</td>
<td>6.2000 G/B-HP-H</td>
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<td>10102</td>
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<td>PM10</td>
<td>0.4100 G/B-HP-H</td>
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<td>VOC</td>
<td>0.3000 G/B-HP-H</td>
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REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. CA-0830

CO                               0.5100 G/B-
CAS NO. 630-08-0                 0.0000                             0.000
CONTROL METHOD: NO CONTROLS FEASIBLE
                NO CONTROL

NOTES:
**COMPANY NAME/SITE LOCATION:**  ARCHIE CRIPPEN  
495 N. MARKS  
FRESNO, CA 93706-  
FRESNO COUNTY

**PERMIT/FILE NO.** C-53-4-0  
DETERMINATION MADE BY:  SJUAPCD - CENTRAL REGIONAL OFFICE, CA  
AGENCY CONTACT PERSON:  SEYED SADREDDIN

**SCHEDULING INFORMATION:**

- **RECEIVED APPLICATION** / /  
- **PERMIT ISSUED** 12/09/1997 ACT  
- **START UP** 10/01/1997 EST  
- **COMPLIANCE VERIFICATION** / /  

**PROCESS NAME**  
IC ENGINE, DETROIT DIESEL MODEL 8V-92TA

**POLLUTANT NAME**  
NOX

**CAPACITY**  
500.0000 BHP

**THROUGHPUT**

- **COMPLIANCE WAS NOT VERIFIED**

**PROCESS/COMPLIANCE NOTES:**

- **ARB RECORD #** A330-829-98

**COMPLIANCE METHOD (Y/N):**
- **STACK TEST:**  N  
- **INSPECTION:**  N  
- **CALCULATION:**  N  
- **OTHER METHOD:**

**CAPITAL COSTS:**  $ 0  
**O & M COSTS:**  $ 0  
**ANNUALIZED COSTS:**  $ 0  
**COST EFFECTIVENESS ($/TON):**  0
PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                              PAGE H- 137

COMPANY NAME/SITE LOCATION:  SIMON NEWMAN, INC.  
407 S. TEGNER ROAD  
TURLOCK, CA  
STANISLAUS COUNTY

PERMIT/FILE NO. N-2332-29-0  
DATE ENTERED/UPDATED: 04/20/1999  
DATE OF PERMIT ISSUANCE: 03/12/1998  
START-UP DATE:  
DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA  
SEYED SADREDIN  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

PROCESS CODE 70.007  
SCC CODE 3-02-008-06  
GRAIN COOLER FOR STEAM SOFTENED GRAIN ROLLING  
240.00 T/D  
PROCESS CODE 70.007  
SCC CODE 3-02-005-05  
PITS, RECEIVING (DRY PROCESS)  
1800.00 T/D

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<td>240.00 T/D</td>
<td>PM10</td>
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<td>1800.00 T/D</td>
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CONTROL METHOD: POLLUTION PREVENTION
ENCLOSED CONVEYORS, GRAIN COOLER VENTED TO A 1D-3D OR EQUIVALENT CYCLONES

CONTROL METHOD: ADDITIONAL CONTROL EQUIPMENT
RECEIVING PIT VENTED TO A BAGHOUSE
REPORT DATE: 06/24/1999

LOADOUT, TRUCK

PROCESS CODE 70.007
SCC CODE 3-02-005-05

3000.00 T/D

PM10
CAS NO. PM

0.0016 LB/T
0.0000

CONTROL METHOD: POLLUTION PREVENTION
ENCLOSED LOADOUT AREA VENTED TO A BAGHOUSE

NOTES:
COMPANY NAME/SITE LOCATION: SIMON NEWMAN, INC.
407 S. TEGNER ROAD
TURLOCK, CA

PERMIT/FILE NO. N-2332-29-0

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 03/12/1998 ACT
START UP / / COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

GRAIN COOLER FOR STEAM SOFTENED GRAIN ROLLING 240.0000 T/D COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:

ARB RECORD # A350-830-98

PM10

CAPITAL COSTS: $ 0 O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
PITS, RECEIVING (DRY PROCESS) 1800.0000 T/D

PROCESS/COMPLIANCE NOTES:
ARB RECORD #: A370-831-98; A/C #: N-2332-21-0
COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

LOADOUT, TRUCK 3000.0000 T/D

PROCESS/COMPLIANCE NOTES:
ARB RECORD #: A370-832-98; N-2332-33-0
COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: MODESTO STEAM LAUNDRY & CLEANERS
1201 8TH STREET
MODESTO, CA
STANISLAUS COUNTY

PERMIT/FILE NO. N-2032-3-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON)

AIRS ID NO.

EMISSION LIMITS (P: THROUGHPUT POLLUTION PREVENTION)

PROCESSES SUBJECT TO THIS PERMIT

DRY CLEANING - PETROLEUM SOLVENTS

THROUGHPUT

CAPACITY

POLLUTANT NAME

RANKING INFORMATION

EST % EFF

CONTROL METHOD: POLLUTION PREVENTION

TRANSFER EQUIPMENT WITH A SOLVENT RECOVERY DRYER

NOTES:
**COMPANY NAME/SITE LOCATION:** MODESTO STEAM LAUNDRY & CLEANERS  
1201 8TH STREET  
MODESTO, CA  
STANISLAUS COUNTY

**PERMIT/FILE NO.** N-2032-3-0  
**DETERMINATION MADE BY:** SJVUAPCD - CENTRAL REGIONAL OFFICE, CA  
**AGENCY CONTACT PERSON:** SEYED SADREDIN  
**PHONE #** (209) 497-1000

**SCHEDULING INFORMATION:**  
**ESTIMATED/ACTUAL DATE**

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<tbody>
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<td>DRY CLEANING - PETROLEUM SOLVENTS</td>
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**PROCESS/COMPLIANCE NOTES:**  
ARB RECORD #: A340-833-98  
COMPLIANCE WAS NOT VERIFIED

**COMPLIANCE METHOD (Y/N):**  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:

**VOC**  
**CAPITAL COSTS:** $ 0  
**O & M COSTS:** $ 0  
**ANNUALIZED COSTS:** $ 0  
**COST EFFECTIVENESS ($/TON):** 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CONCRETE PRODUCTS, INC.
26901 HANSEN ROAD
TRACY, CA

PERMIT/FILE NO. N-3448-1-1

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN

(AGENCY)

(AGENCY CONTACT PERSON)

(PHONE)

AIRS ID NO.

EMISSION LIMITS (P):

PROCESSES SUBJECT TO THIS PERMIT

COATING OPERATION, CONCRETE PRODUCTS

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<td>4-02-999-99</td>
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NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CONCRETE PRODUCTS, INC.
26901 HANSEN ROAD
TRACY, CA

PERMIT/FILE NO. N-3448-1-1

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA

AGENCY CONTACT PERSON: SEYED SADREDIN

PHONE #: (209) 497-1000

SCHEDULING INFORMATION:

RECEIVED APPLICATION / /
PERMIT ISSUED 03/12/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME

POLLUTANT NAME

CAPACITY

COATING OPERATION, CONCRETE PRODUCTS

0.0000

COMPLIANCE WAS NOT VERIFIED

ARB RECORD #: A340-834-98

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION:
OTHER METHOD:

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: LABEL TECHNOLOGY INC.
2050 WARDROBE AVENUE
MERCED, CA
MERCED COUNTY

PERMIT/FILE NO. N-3852-8-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

<table>
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<td>PRINTER, FLEXOGRAPHIC PRESS, NILPETER, ROTOLABEL F</td>
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CONTROL METHOD: POLLUTION PREVENTION
LOW VOC INK

NOTES:
COMPANY NAME/SITE LOCATION: LABEL TECHNOLOGY INC.  
2050 WARDROBE AVENUE 
MERCED, CA 

PERMIT/FILE NO. N-3852-8-0 

SCHEDULING INFORMATION: 
RECEIVED APPLICATION / / PERMIT ISSUED 02/25/1998 ACT 
START UP 06/01/1997 EST 
COMPLIANCE VERIFICATION / / 

PROCESS NAME POLLUTANT NAME CAPACITY 
PRINTER, FLEXOGRAPHIC PRESS, NILPETER, ROTOLABEL F 0.0000 

PROCESS/COMPLIANCE NOTES: 

THROUGHPUT 

COMPLIANCE WAS NOT VERIFIED. 
ARB RECORD # A340-835-98 

VOC 
CAPITAL COSTS: $ 0 
O & M COSTS: $ 0 
ANNUALIZED COSTS: $ 0 
COST EFFECTIVENESS ($/TON):  0 

COMPLIANCE METHOD (Y/N): 
STACK TEST: N 
INSPECTION: N 
CALCULATED 

OTHER METHOD: 

COSTS ARE IN DOLLARS. 
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: PELCO
300 W. PONTIAC WAY
CLOVIS, CA 93612-5699
FRESNO COUNTY

PERMIT/FILE NO. C-922-6-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO.

EMISSION LIMITS (P: S:)

THROUGHPUT POLLUTION PREVENTION RANKING INFORMATION
CAPACITY POLLUTANT NAME

WASHER, CONVEYORIZED, FIVE STAGE 6.30 MMBTU/H

PROCESS CODE 41.013 NOX 15.4000 LB/D
SCC CODE 4-01-003-98 CAS NO. 10102 0.0000

CONTROL METHOD: NO
NOTES: BURNERS TOO SMALL FOR JUSTIFYING A CONTROL PREWASH FOR COATING LINE
COMPANY NAME/SITE LOCATION: PELCO
300 W. PONTIAC WAY
CLOVIS, CA 93612-5699

PERMIT/FILE NO. C-922-6-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
AGENCY CONTACT PERSON: SEYED SADREDIN

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / 
PERMIT ISSUED 01/27/1998 ACT
START UP / / 
COMPLIANCE VERIFICATION / / 

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY
WASHER, CONVEYORIZED, FIVE STAGE 6.3000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
COMPLIANCE WAS NOT VERIFIED.
ARB RECORD #: A310-836-98

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER METHOD:

NOX CAPITAL COSTS: $ 0 O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0 COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: STERLING WEST, INC.
3630 E. WAWONA AVENUE
FRESNO, CA 93725-
FRESNO COUNTY

PERMIT/FILE NO. C-3168-1-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
(AGENCY)
SEYED SADREDIN
(AGENCY CONTACT PERSON)
(209) 497-1000

EMISSION LIMITS (P:
STANDARDIZED)
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION
EST % EFF

COATING LINES #1, PAPER
15.00 MMBTU/H

PROCESS CODE 41.014
SCC CODE 4-02-013-01
VOC
CAS NO. VOC
98.0000 LB/D
0.0000
CONTROL METHOD: POLLUTION PREVENTION
LOW-VOC WATER-BASED COATINGS, WITH A MAXIMUM VOC CONTENT OF 0.3 LB/GAL FOR COLORED AND FUNCTIONAL COATINGS

NOTES:
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H- 151

COMPANY NAME/SITE LOCATION: STERLING WEST, INC.  3630 E. WAKONA AVENUE FRESNO, CA 93725-
FRESNO COUNTY

PERMIT/FILE NO. C-3168-1-0

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / Permit issued 01/20/1998 ACT
START UP / / COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME COATING LINES #1, PAPER
POLLUTANT NAME CAPACITY 15.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:

COATING LINES #1, PAPER

ARBO RECORD # A340-837-98

PROCESS: (2) 3 HP MICHELMAN MRC-1000 IN-LINE ROD COATERS AND (2)
NATURAL GAS DRYERS, EQUIPPED WITH (2) 5 MMBTU/H MAXON CYCLOMAX

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999 DETAILED SOURCE LISTING (Part A) RBLC ID No. CA-0837

COMPANY NAME/SITE LOCATION: CITY OF MODESTO, COMPOST FACILITY VARIOUS LOCATIONS MODESTO, CA STANISLAUS COUNTY

PERMIT/FILE NO. N-3993-2-0

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA SEYED SADREDIN
(AGENCY) (AGENCY CONTACT PERSON) (PHONE) (209) 497-1000

AIRS ID NO.

EMISSION LIMITS (P: (S:

PROCESSES SUBJECT TO THIS PERMIT

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
</table>

SCREENING OPERATION, COMPOSTED MATERIAL 97.00 BHP

<table>
<thead>
<tr>
<th>PROCESS CODE 61.012</th>
<th>PM10</th>
<th>0.0500 LB/T</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC CODE 2-02-001-02</td>
<td>CAS NO. PM</td>
<td>0.0000</td>
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</tbody>
</table>

CONTROL METHOD: POLLUTION PREVENTION
USE OF A WATER SPRINKLER SYSTEM OR MAINTAINING ADEQUATE MOISTURE CONTENT OF THE PROCESS MATERIAL TO PREVENT VISIBLE EMISSIONS IN EXCESS OF 5% OPAQUE

GRINDING OPERATION, WOODWASTE, TRANSPORTABLE 750.00 BHP

<table>
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<tr>
<th>PROCESS CODE 99.999</th>
<th>PM10</th>
<th>0.0500 LB/T</th>
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</thead>
<tbody>
<tr>
<td>SCC CODE 2-02-001-02</td>
<td>CAS NO. PM</td>
<td>0.0000</td>
</tr>
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</table>

CONTROL METHOD: POLLUTION PREVENTION
USE OF A WATER SPRINKLER SYSTEM OR MAINTAINING ADEQUATE MOISTURE CONTENT OF THE PROCESS MATERIAL TO PREVENT VISIBLE EMISSIONS IN EXCESS OF 5% OPAQUE

NOTES:
COMPANY NAME/SITE LOCATION: CITY OF MODESTO, COMPOST FACILITY
VARIOUS LOCATIONS
MODESTO, CA

PERMIT/FILE NO. N-3993-2-0

SCHEDULING INFORMATION:

PROCESS NAME          POLLUTANT NAME  CAPACITY

SCREENING OPERATION, COMPOSTED MATERIAL

PROCESS/COMPLIANCE NOTES:

PM10
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0
GRINDING OPERATION, WOODWASTE, TRANSPORTABLE

PROCESS/COMPLIANCE NOTES:

750.0000 BHP

COMPLIANCE WAS NOT VERIFIED

ARB RECORD # A430-839-98; A/C # N-3993-1-0
PROCESS: CONSISTING OF A DIAMOND Z MODEL 1260 PWG TUB GRINDER With A 750 BHP DIESEL FIRED IC ENGINE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: AUTO VENTURES, INC., ACME AUTOWORKS  
120 E. VERDUGO AVE  
BURBANK, CA 91502- 

PERMIT/FILE NO. F12707  

DETERMINATION MADE BY: SOUTH COAST AQMD, CA  
JEANNE PANDES VILLACORTE  
(AGENCY)  
(AGENCY CONTACT PERSON)  

AIRS ID NO.  

PROCESSES SUBJECT TO THIS PERMIT  

SPRAY BOOTH, PAINT  

PROCESS CODE 41.002  
SCC CODE 4-02-016-06  

Emission Limits (primary)  

THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION  

970000.00 BTU/H  

VOC  
667.0000 < LB/MO  
0.0000  
CONTROL METHOD: POLLUTION PREVENTION  

NOTES: NO PERMIT TO CONSTRUCT WAS ISSUED
COMPANY NAME/SITE LOCATION: AUTO VENTURES, INC., ACME AUTOWORKS
120 E. VERDUGO AVE
Burbank, CA 91502-
Los Angeles County

PERMIT/FILE NO. F12707

DETERMINATION MADE BY: SOUTH COAST AQMD, CA
AGENCY CONTACT PERSON: JEANNE PANDES VILLACORTE

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 03/19/1998 ACT
START UP 06/01/1997 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME                     POLLUTANT NAME    CAPACITY

SPRAY BOOTH, PAINT               VOC                              970000.0000 BTU/H

COMPLIANCE VERIFICATION / /

THROUGHPUT

970000.0000 BTU/H

COMPLIANCE WAS NOT VERIFIED!

PROCESS/COMPLIANCE NOTES:

ARB RECORD # A340-840-98

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATED
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION:  BOB WONDRIES FORD
1301 W. VALLEY BLVD
ALHAMBRA, CA 91801-1600

PERMIT/FILE NO. F11713

DETERMINATION MADE BY:  SOUTH COAST AQMD, CA
JEANNE PANDES VILLACORTE
(AGENCY)  
(AGENCY CONTACT PERSON)

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT

SPRAY BOOTH, PAINT

PROCESS CODE 41.002
SCC CODE 4-02-016-99

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT
CAPACITY
970000.00 BTU/H

POLLUTANT NAME
VOC

RANKING INFORMATION
900.0000 < LB
0.0000

CONTROL METHOD: POLLUTION PREVENTION
ITW/DEVILBISS, ENVIRECO

NOTES:  NO PERMIT TO CONSTRUCT WAS ISSUED
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** BOB WONDRIES FORD  
**PERMIT/FILE NO:** F11713

**SCHEDULING INFORMATION:**

- **RECEIVED APPLICATION:** / /  
- **PERMIT ISSUED:** 02/04/1998 ACT  
- **START UP:** 12/17/1997 EST  
- **COMPLIANCE VERIFICATION:** / /  

**PROCESS NAME** | **POLLUTANT NAME** | **CAPACITY** | **COMPLIANCE NOTES**  
--- | --- | --- | ---  
SPRAY BOOTH, PAINT | VOC | 970000.0000 BTU/H | COMPLIANCE WAS NOT VERIFIED  

**PROCESS/COMPLIANCE NOTES:**  
ARB RECORD #: A340-841-98  
COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALC:  
OTHER METHOD:  

| VOC | CAPITAL COSTS: | 0 | O & M COSTS: | 0 | ANNUALIZED COSTS: | 0 | COST EFFECTIVENESS ($/TON): | 0 | COSTS ARE IN | COSTS ARE NOT |
COMPANY NAME/SITE LOCATION: THE ROD MCLELLAN COMPANY  
15700 MCKINLEY AVENUE  
LATHROP, CA  
SAN JOAQUIN COUNTY

PERMIT/FILE NO. N-3927-2-0  
DATE OF PERMIT ISSUANCE: 02/02/1998

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA  
SEYED SADREDIN  
(AGENCY)  
(209) 497-1000  
(AGENCY CONTACT PERSON)  
(PHONE)

AIRS ID NO.

EMISSION LIMITS (P: STAND:)

PROCESSES SUBJECT TO THIS PERMIT  
THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION

MIXING AND BAGGING OPERATION, POTTING SOIL  
0.00

PROCESS CODE 61.999  
SCC CODE 3-01-045-01  
PM10  
CAS NO. PM  
0.1500 LB/T  
0.0000

CONTROL METHOD: POLLUTION PREVENTION  
WATER SPRINKLER SYSTEM

NOTES: RAW MATERIAL STOCKS PILES KEPT AT A MINIMUM MOISTURE CONTENT OF 5% AND 20%  
DURING MIXING, TRANSFER, AND BAGGING
**Report Date:** 06/24/1999  
**Company Name/Site Location:** THE ROD MCLELLAN COMPANY  
15700 MCKINLEY AVENUE  
LATHROP, CA  
**Permit/File No.:** N-3927-2-0  
**Determination Made By:** SJVUAPCD - CENTRAL REGIONAL OFFICE, CA  
**Agency Contact Person:** SEYED SADREDIN  
**Phone #:** (209) 497-1000  
**Scheduling Information:**  
- Estimated/Actual Date  
  - Received Application: / /  
  - Permit Issued: 02/02/1998 ACT  
  - Start Up: / /  
  - Compliance Verification: / /  

**Process Name** | **Pollutant Name** | **Capacity** | **Compliance Was Not Verified**  
--- | --- | --- | ---  
MIXING AND BAGGING OPERATION, POTTING SOIL | PM10 | 0.0000 |  
**Process/Compliance Notes:**  
- ARB Record #: A370-843-98  
- Compliance Method (Y/N): N  
- Stack Test: N  
- Inspection: N  
- Calculation:  
- Other Method:  
- Capital Costs: $ 0  
- O & M Costs: $ 0  
- Annualized Costs: $ 0  
- Cost Effectiveness ($/Ton): 0  
- Costs are in Dollars.  
- Costs are not verified by agency.
COMPANY NAME/SITE LOCATION: TORCH OPERATING COMPANY, NUEVO - PLATFORM B
SANTA BARBARA CHANNEL
SANTA BARBARA, CA

SANTA BARBARA COUNTY

PERMIT/FILE NO. 9111

DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA
(AGENCY)

STEVE STERNER
(AGENCY CONTACT PERSON)

AIRST ID NO.

Emission Limits (Primary)

<table>
<thead>
<tr>
<th>Process Code</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
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<tbody>
<tr>
<td>50.001</td>
<td>1740.00 SCFM</td>
<td>ROC 100.0000 &lt; PPMV THC</td>
<td>BACT</td>
</tr>
<tr>
<td>3-10-002-03</td>
<td></td>
<td>CAS NO. VOC 0.0000</td>
<td>0.000</td>
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<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: POLL: A-C COMPRESSOR COMPA: MECHANICAL SEALING S PRESSURIZED TO 10 PS</td>
<td></td>
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</table>

NOTES:
<table>
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<tr>
<th>PROCESS NAME, POLLUTANT NAME</th>
<th>CAPACITY</th>
<th>COMPLIANCE WAS NOT VERIFIED</th>
<th>COMPLIANCE METHOD (Y/N):</th>
<th>OTHER METHOD:</th>
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<tbody>
<tr>
<td>SEAL, COMPRESSOR, GAS</td>
<td>1740.0000 SCFM</td>
<td></td>
<td>STACK TEST: N</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>INSPECTION: N</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CALCULATION: N</td>
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</table>

**PROCESS/COMPLIANCE NOTES:**
ARB RECORD #: A350-844-98

**CAPITAL COSTS:** $0

**O & M COSTS:** $0

**ANNUALIZED COSTS:** $0

**COST EFFECTIVENESS ($/TON):** 0
COMPANY NAME/SITE LOCATION: MINNESOTA METHANE TAJIUS CORPORATION
14470 CALLE REAL
SANTA BARBARA, CA

PERMIT/FILE NO. 9788

DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA

(AGENCY)

STEWART STERNER
(AGENCY CONTACT PERSON)

(805) 961-8886

AIRS ID NO.

EMISSION LIMITS (P:
STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT POLLUTANT NAME RANKING INFORMATION

Emission limits and processes:

<table>
<thead>
<tr>
<th>Process Code</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLARE, STANDBY FOR A LANDFILL GAS TO ENERGY PROJECT</td>
<td>2000.00 SCFM</td>
<td>NOX</td>
<td>0.0600 LB/MMBTU</td>
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<tr>
<td>PROCESS CODE 21.002</td>
<td></td>
<td>CAS NO. 10102</td>
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<tr>
<td>SCC CODE 5-02-006-01</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ROG</td>
<td>0.0000</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>CAS NO. VOC</td>
<td></td>
<td>INTRINSIC FLARE BURNER</td>
<td></td>
</tr>
<tr>
<td>PM10</td>
<td>8.4000 LB/D</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
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<tr>
<td>CAS NO. PM</td>
<td></td>
<td>GASES CONDENSATE AND PARTICULATE MATTER</td>
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</tbody>
</table>

SANTA BARBARA COUNTY

REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part A)
RBLC ID No. CA-0843

REPORT DATE: 06/24/1999

EQUIPMENT, LANDFILL GAS TO ENERGY PRODUCTION

PROCESS CODE 15.999
SCC CODE 2-01-008-02

43.68 MM BTU/H

NOX
CAS NO. 10102
0.5900 G/B-
0.0000
CONTROL METHOD: POLLUTION PREVENTION
LEAN BURN, EXHAUST Routed TO FURTHER COMBUST ENGINE CO AND UNBURNED HYDROCARBONS

ROC
CAS NO. VOC
20.0000 PPMV
0.0000
CONTROL METHOD: POLLUTION PREVENTION
LEAN BURN, AFTERBURNER Is EQUIPPED To REGULATE AIR FLOW With TEMPERATURE CONTROL

PM10
CAS NO. PM
76.5000 LB/D
0.0000
CONTROL METHOD: POLLUTION PREVENTION
LANDFILL GAS FUEL PRETREATMENT SYSTEM To REMOVE GAS CONDENSATE And FILTER GAS From PARTICULATES

NOTES:
COMPANY NAME/SITE LOCATION:  MINNESOTA METHANE TAJIUAS CORPORATION
14470 CALLE REAL
SANTA BARBARA, CA
SANTA BARBARA COUNTY

PERMIT/FILE NO. 9788
DETERMINATION MADE BY:  SANTA BARBARA COUNTY APCD, CA
AGENCY CONTACT PERSON:  STEVE STERNER

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / PERMIT ISSUED 01/09/1998 ACT
START UP 06/01/1998 EST

PROCESS NAME
FLARE, STANDBY FOR A LANDFILL GAS TO ENERGY PROJEC

POLLUTANT NAME
2000.0000 SCFM

CAPACITY
COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
ARB RECORD # A340-845-98

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATED:

OTHER METHOD:

NOX

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
<table>
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<tr>
<th>Equipment, Landfill Gas to Energy Production</th>
<th>43.6800 MMBTU/H</th>
<th>Compliance was not verified.</th>
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**Process/Compliance Notes:**

ARB RECORD # A330-846-98; A/C # 9788

<table>
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<tr>
<th>Equipment</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
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</thead>
<tbody>
<tr>
<td>ROC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM10</td>
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<td>0</td>
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<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>ROC</td>
<td>0</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>
COMPANY NAME/SITE LOCATION: FOSTER FOOD PRODUCTS
PO BOX 457
LIVINGSTON, CA 95334-0457

PERMIT/FILE NO. N-1252-1-2

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN

DATE OF PERMIT ISSUANCE-- 02/19/1998
DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, CA
SEYED SADREDIN

EMISSION LIMITS (PRIMARY)
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

PERK PANS, ANCO & EXPELLER, DUPPS 696.00 T/D
PROCESS CODE 70.999
SCC CODE 3-02-888-01
PM10 57.1000 LB/D 0.0000
CONTROL METHOD: POLLUTION PREVENTION
ODOR SCRUBBER WITH A PERTICULATE REMOVAL SYSTEM
THAT CONSIST OF A PARTICULATE SCRUBBER WITH AN
OVERALL CONTROL OF 95% OR BETTER FOR PM10 CONTROL

HYDROLYZER, FEATHER, ANCO-EAGLIN 240.00 T/D
PROCESS CODE 70.999
SCC CODE 3-02-888-01
PM10 5.7000 LB/D 0.0000
CONTROL METHOD: POLLUTION PREVENTION
THERMAL OXIDIZER
VOC 2.4000 LB/D 0.0000
CONTROL METHOD: POLLUTION PREVENTION
THERMAL OXIDIZER
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: FOSTER FOOD PRODUCTS
PO BOX 457
LIVINGSTON, CA 95334-0457

PERMIT/FILE NO. N-1252-1-2

PERMIT/FIELD NO. N-1252-1-2

DETERMINATION MADE BY: SJVUAPCD - CENTRAL REGIONAL OFFICE, C.
AGENCY CONTACT PERSON: SEYED SADREDIN P.

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 02/19/1998 ACT
START UP / / COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

PERK PANS, ANCO & EXPELLER, DUPPS 696.0000 T/D

PROCESS/COMPLIANCE NOTES:

ARB RECORD # A370-847-98
PROCESS: TO AN ODOR SCRUBBER SYSTEM

THROUGHPUT

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
HYDROLYZER, FEATHER, ANCO-EAGLIN

PROCESS/COMPLIANCE NOTES:

240.0000 T/D

COMPLIANCE WAS NOT VERIFIED.

ARB RECORD #: A370-848-98

PROCESS: TO A 3.2 MMBTU/H NATURAL GAS FIRED THERMAL OXIDIZER

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: SACRAMENTO POWER AUTHORITY CAMPBELL SOUP
3215 47TH AVE.
SACRAMENTO, CA

PERMIT/FILE NO. 11456

PROCESS CODE 15.004
SCC CODE 2-01-002-01

EMISSION LIMITS (PRIMARY)
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION
EST % EFF

TURBINE, GAS, COMBINED CYCLE, SIEMENS V84.2
1257.00 MMBTU/H

NOX
3.0000 PPMVD @ 15% O2
BACT
SCC CODE 2-01-002-01
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
SELECTIVE CATALYTIC REDUCTION AND DRY LOW NOx COMBUSTION

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SACRAMENTO POWER AUTHORITY CAMPBELL SOUP
3215 47TH AVE.
SACRAMENTO, CA

PERMIT/FILE NO. 11456

SCHEDULING INFORMATION:
RECEIVED APPLICATION / / PERMIT ISSUED 08/19/1994
START UP / / COMPLIANCE VERIFICATION

PROCESS/COMPLIANCE NOTES:
ARB RECORD # A330-852-98
PROCESS: NATURAL GAS WITH DRY LOW NOX BURNER, HAS WATER INJECTION AUGMENTATION AND 200 MMBTU OF SUPPLEMENTARY FIRING CAPACITY

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
<th>COMPLIANCE WAS NOT VERIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINE, GAS, COMBINED CYCLE, SIEMENS V84.2</td>
<td>NOX</td>
<td>1257.0000 MMBTU/H</td>
<td></td>
</tr>
</tbody>
</table>

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: CARSON ENERGY GROUP & CENTRAL VALLEY FINANCING AUT
8580 LAGUNA STATION RD
ELK GROVE, CA 95758- SACRAMENTO COUNTY

PERMIT/FILE NO. 11012

DETERMINATION MADE BY: SACRAMENTO METROPOLITAN AQMD, CA  BRIAN KREBS
(AGENCY)                      (AGENCY CONTACT PERSON)                      (PHONE)  

AIRS ID NO.

PROCESS CODE 15.004  NOX  5.0000 PPMV/  0.0000
SCC CODE 2-01-002-01  CAS NO. 10102

CONTROL METHOD: POLLUTION PREVENTION
SELECTIVE CATALYTIC REDUCTION AND WATER INJECTION
ALSO HAS CARBON ABSORPTION SYSTEM IN DIGESTER TO REMOVE ORGANSILOXANE

NOTES: HAD BEEN POISONED FROM SILICA IN ORGANSILOXANE AND WAS REPLACED;
CATALYST WAS INITIALLY REPLACED
**COMPANY NAME/SITE LOCATION:** CARSON ENERGY GROUP & CENTRAL VALLEY FINANCING AUT  
8580 LAGUNA STATION RD  
ELK GROVE, CA 95758-  
SACRAMENTO COUNTY

**PERMIT/FILE NO.** 11012  
**DETERMINATION MADE BY:** SACRAMENTO METROPOLITAN AQMD, CA  
**AGENCY CONTACT PERSON:** BRIAN KREBS  
**PHONE #** (916) 386-6628

**SCHEDULING INFORMATION:**  
**RECEIVED APPLICATION** / /  
**PERMIT ISSUED** 07/23/1993 ACT  
**START UP** / /  
**COMPLIANCE VERIFICATION** / /

**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINE, GAS, COMBINED CYCLE, GE LM6000</td>
<td>NOX</td>
<td>450.0000 MMBTU/H</td>
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**PROCESS/COMPLIANCE NOTES:**  
ARB RECORD # A330-853-98  
NATURAL GAS AND DIGESTER GAS FIRED WITH DUCT BURNERS HAVING A CAPACITY OF 99.8 MMBTU/H

**THROUGHPUT**

**COMPLIANCE WAS NOT VERIFIED.**

**COMPLIANCE METHOD (Y/N):**
- STACK TEST: N  
- INSPECTION: N  
- CALCULATION: N  
- OTHER TEST: N

**NOX**

| CAPITAL COSTS: | $ | 0 |
| O & M COSTS:   | $ | 0 |
| ANNUALIZED COSTS: | $ | 0 |
| COST EFFECTIVENESS ($/TON): | $ | 0 |
TURBINE, GAS, SIMPLE CYCLE, GE LM6000

PROCESS/COMPLIANCE NOTES:

450.0000 MMBTU/H

ARB RECORD #: A330-854-98; A/C #: 11013

PROCESS: NATURAL GAS AND DIGESTER

COMPLIANCE WAS NOT VERIFIED.

PROCESS: NATURAL GAS AND DIGESTER

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: APPLIED MAGNETICS CORP. (ROBIN HILL RD. FACILITY)  75 ROBIN HILL ROAD  GOLETA, CA  SANTA BARBARA COUNTY  

PERMIT/FILE NO. 9890  

DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA  MICHAEL GOLDMAN  

(AGENCY)  (AGENCY CONTACT PERSON)  (PHONE)  

AIRS ID NO.  

EMISSION LIMITS (P: ST)(S: C)  

PROCESS CODE 99.006  

SCC CODE 4-01-003-98  

ELECTROMAGNETIC DEVICE MANUFACTURER  15000.00 SCFM  

PROCESS CODE 99.006  

SCC CODE 4-01-003-98  

NOTES:
**COMPANY NAME/SITE LOCATION:** APPLIED MAGNETICS CORP. (ROBIN HILL RD. FACILITY)  
75 ROBIN HILL ROAD  
GOLETA, CA  
SANTA BARBARA COUNTY

**PERMIT/FILE NO.** 9890  
Determination made by: SANTA BARBARA COUNTY APCD, CA  
Agency contact person: MICHAEL GOLDMAN  
Phone #: (805) 961-8821

**SCHEDULING INFORMATION:**

<table>
<thead>
<tr>
<th>Received Application</th>
<th>/ /</th>
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<tbody>
<tr>
<td>Permit issued</td>
<td>11/13/1998 ACT</td>
</tr>
<tr>
<td>Start Up</td>
<td>02/01/1999 EST</td>
</tr>
<tr>
<td>Compliance Verification</td>
<td>/ /</td>
</tr>
</tbody>
</table>

**PROCESS/COMPLIANCE NOTES:**

- Continue process: using photo-resist resin developers and applicators, solvent work stations.

**COMPLIANCE METHOD (Y/N):**

- Stack Test: N  
- Inspection: N  
- Calculation: N  
- Other Test: N

**ROC**

- Capital Costs: $1,000,000  
- O & M Costs: $0  
- Annualized Costs: $0  
- Cost Effectiveness ($/ton): 1,700

**THROUGHPUT**

<table>
<thead>
<tr>
<th>Process Name</th>
<th>Pollutant Name</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electromagnetic Device Manufacturer</td>
<td>15000.0000 SCFM</td>
<td>Compliance was not verified.</td>
</tr>
</tbody>
</table>
COMPANY NAME/SITE LOCATION: CITY OF LOMPOC (PORTABLE TUBGRINDER IC ENGINE)
LOMPOC, CA
SANTA BARBARA COUNTY

PERMIT/FILE NO. 9678

Determination Made By: SANTA BARBARA COUNTY APCD, CA
(AGENCY) STEVE STERNER (AGENCY CONTACT PERSON) (805) 961-8886

AIRS ID NO.

EMISSION LIMITS (P: STAND. THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

IC ENGINE, DIESEL-FIRED, PORTABLE 460 BHP, CATERPI 460.00 BHP

PROCESS CODE 15.002
SCC CODE 2-02-001-02

NOX 580.0000 PPMVD @ 15% O2  BACT-OTHER
CAS NO. 10102 0.0000 0.0000

CONTROL METHOD: POLLUTION PREVENTION
DIRECT INJECTION, TURBOCHARGED, INTAKE INTERCOOLER

NOTES: UNIT NOT ELIGIBLE FOR CARB PERP AS IT OPERATES MORE THAN 90 DAYS AT THE LANDFILL. UNIT HAS ALREADY BEEN SOURCE TESTED AND PASSED THE REQUIRED BACT REQUIREMENT.
COMPANY NAME/SITE LOCATION: CITY OF LOMPOC (PORTABLE TUBGRINDER IC ENGINE)
LOMPOC
LOMPOC, CA
SANTA BARBARA COUNTY

PERMIT/FILE NO. 9678

DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA
AGENCY CONTACT PERSON: STEVE STERNER

SCHEDULING INFORMATION:

RECEIVED APPLICATION / /
PERMIT ISSUED 12/01/1998 ACT
START UP 12/01/1998 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME Pollutant Name Capacity

IC ENGINE, DIESEL-FIRED, PORTABLE 460 BHP, CATERPILLAR

PROCESS/COMPLIANCE NOTES:

ARB RECORD #: A330-865-98
CONTINUE PROCESS: GREENWASTE TUBGRINDER AT THE LOMPOC LANDFILL ELSEWHERE IN SANTA BARBARA COUNTY.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N OTHER TEST: N

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 CONFORMS TO NET COSTS ARE IN
ANNUALIZED COSTS: $ 0 CONFORMS TO NET COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
**COMPANY NAME/SITE LOCATION:** GRANITE CONSTRUCTION (GARDNER RANCH)  
HWY 101 & SANTA YNEZ RIVER, CA  
SANTA BARBARA COUNTY

**PERMIT/FILE NO.:** 9886  
**DATE OF PERMIT ISSUANCE:** 02/05/1999  
**START-UP DATE:** 02/25/1999 EST

**DETERMINATION MADE BY:** SANTA BARBARA COUNTY APCD, CA  
**MICHAEL GOLDMAN**  
**(AGENCY) (AGENCY CONTACT PERSON) (PHONE):**  
(805) 961-8821

**EMISSION LIMITS (P: STANDARDIZED) THROUGHPUT POLLUTION PREVENTION RANKING INFORMATION \(\text{EST} \% \text{EFF} \)**

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOT MIX ASPHALT CONCREATE PLANT</td>
<td>450.00 T/H</td>
<td>NOX</td>
<td>36.0000 PPMV/</td>
</tr>
<tr>
<td>PROCESS CODE 90.003</td>
<td>SCC CODE 3-05-002-01</td>
<td>CAS NO. 10102</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
</tr>
<tr>
<td>SOX</td>
<td>80.0000 PPMV/</td>
<td>CAS NO. SOX</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
</tr>
<tr>
<td>PM10</td>
<td>0.0100 GR/D.</td>
<td>CAS NO. PM</td>
<td>CONTROL METHOD: ADD A) CYCLONE/BAGHOUSE (\text{F: REVERSE AIR CLEANING SYSTEM. (SEE FACILITY NOTES)}})</td>
</tr>
</tbody>
</table>
NOTES: ONE NEW 450 T/H PLANT REPLACES AN OLDER 225 T/H PLANT.
PM10: 1216 FABRIC FILTERS, TOTAL CLOTH AREA OF 21013 SQ FT., EXHAUST BLOWER
69,581 DSCFM. B)SCAVENGER DUST SYSTEM FOR PROCESS FUGITIVES FROM THE HMA
BATCHING TOWER. C)ENCLOSED DRAG SLAT CONVEYORS. D)BIN VENT ON FINES SILO
E)HOT MIX STORAGE SILO AND DRAG SLAT CONVEYOR EXHAUST TO A BLUE SMOKE
2-STAGE MEDIA FILTER PACK. F)BLUE SMOKE 2-STAGE MEDIA FILTER PACK FOR TRUCK
LOAD FOR TRUCK LOAD OUT POINTS IF BLUE SMOKE EMISSIONS ARE OBSERVED.
G)COLD FEED SYSTEM: WATER SPRAY WITH CHEMICAL SUPPRESSANTS. IF WATER
SUPPRESSION IS DEEMED ADEQUATE, CHEMICAL SUPPRESSANTS NEED NOT BE USED.
H)ROAD SURFACES: WATER SPRAY WITH CHEMICAL SUPPRESSANTS.
**COMPANY NAME/SITE LOCATION:** GRANITE CONSTRUCTION (GARNER RANCH)  
HWY 101 & SANTA YNEZ RIVER  
, CA  
SANTA BARBARA COUNTY

**PERMIT/FILE NO.** 9886  
**DETERMINATION MADE BY:** SANTA BARBARA COUNTY APCD, CA  
**AGENCY CONTACT PERSON:** MICHAEL GOLDMAN  
**PHONE #:** (805) 961-8821

**SCHEDULING INFORMATION:**

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<td>02/05/1999 ACT</td>
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<td>02/25/1999 EST</td>
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<td>COMPLIANCE VERIFICATION</td>
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**THROUGHPUT**

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
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<tbody>
<tr>
<td>HOT MIX ASPHALT CONCREATE PLANT</td>
<td></td>
<td>450.0000 T/H</td>
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</tbody>
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**PROCESS/COMPLIANCE NOTES:**  
CONTINUE PROCESS: WITH DRYER, BAGHOUSE AND ASSOCIATED EQUIPMENT

**COMPLIANCE METHOD (Y/N):**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Y/N</th>
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<tbody>
<tr>
<td>STACK TEST</td>
<td>N</td>
</tr>
<tr>
<td>INSPECTION</td>
<td>N</td>
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<tr>
<td>CALCULATION</td>
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**OTHER METHOD:**

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<tr>
<th>Pollutant</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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<tr>
<td></td>
<td>CAPITAL COSTS: $</td>
<td>O &amp; M COSTS: $</td>
<td>ANNUALIZED COSTS: $</td>
<td>COST EFFECTIVENESS ($/TON):</td>
</tr>
<tr>
<td>---</td>
<td>-----------------</td>
<td>----------------</td>
<td>---------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>SOX</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<tr>
<td>PM10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ROC</td>
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</tr>
<tr>
<td>CO</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>
COMPANY NAME/SITE LOCATION: EXXON CO. USA - LAS FLORES CANYO (SANTA YNEZ UNIT)
12000 CALLE REAL
GOLETA, CA

SANTA BARBARA COUNTY

PERMIT/FILE NO. 5651-17

DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA

MICHAEL GOLDMAN
(AGENCY CONTACT PERSON)

(805) 961-8821

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

TANK, FIXED CONE ROOF, WASTEWATER EQUALIZATION 30900.00 BBL

PROCESS CODE 50.0009
SCC CODE 3-06-999-99

H2S
CAS NO. 7783-06-4

13.0000 PPMV
0.0000

CONTROL METHOD: POLLUTION PREVENTION VENTURI SCRUBBER; PACKED-BED DESIGN; 4% CAUSTIC SOLUTION. HAS 2 CO CANISTER POLISHING UNITS AT THE OUTLET OF THE SCRUBBER.

NOTES: PROCESS EQUALIZATION TANK AT WATER TREATMENT PLANT OF AN OIL AND GAS PLANT. EXTREMELY HIGH LEVELS OF HYDROGEN SULFIDE OFFGASING OCCURS (APPROX. 15,000 PPM AND 100 LB/H). ALSO EMITS SMALL AMOUNTS OF REACTIVE ORGANIC COMPOUNDS.
**COMPANY NAME/SITE LOCATION:** EXXON CO. USA - LAS FLORES CANYO (SANTA YNEZ UNIT)  
12000 CALLE REAL  
GOLETA, CA  
SANTA BARBARA COUNTY  

**PERMIT/FILE NO.** 5651-17  
DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA  
AGENCY CONTACT PERSON: MICHAEL GOLDMAN  

**SCHEDULING INFORMATION:**  
RECEIVED APPLICATION / /  
PERMIT ISSUED 01/27/1999 ACT  
START UP 01/27/1999 EST  
COMPLIANCE VERIFICATION / /  

**PROCESS NAME**  
TANK, FIXED CONE ROOF, WASTEWATER EQUALIZATION  

**POLLUTANT NAME**  
H2S  

**CAPACITY**  
30900.0000 BBL  

**THROUGHPUT**  
COMPLIANCE WAS NOT VERIFIED.  

**PROCESS/COMPLIANCE NOTES:**  
ARB RECORD #: A350-875-99  
OTHER METHOD:  
COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
COSTS ARE IN DOLLARS.  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: SABA PETROLEUM, INC. (BELL COMPRESSOR PLANT)  
BELL LEASE CAT CANYON OIL FIELD  
SANTA MARIA, CA  
SANTA BARBARA COUNTY

PERMIT/FILE NO. 9975  
DATE OF PERMIT ISSUANCE-- 10/12/1998  
START-UP DATE-- 10/14/1998  
DETERMINATION MADE BY: SANTA BARBARA COUNTY APCD, CA  
MICHAEL GOLDMAN  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
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<tbody>
<tr>
<td>IC ENGINE, COMPRESSOR, NATURAL GAS-FIRED</td>
<td>747.00 BHP</td>
<td>747.00 BHP</td>
<td>NOX</td>
<td>0.1500 G/B-HP-H</td>
<td>BACT-OTHER</td>
</tr>
<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 2-02-002-04</td>
<td>CAS NO. 10102</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>3-WAY CATALYTIC CONVERTER. MFGR: DCLI, INC; MODEL: DC67/77-10 WITH ELECTRONIC AIR/FUEL RATIO CONTROLLER</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES: APPLICANT APPLIED FOR ROC AND CO EMISSIONS LIMITS OF 0.30 G/BHP-H (0.0766 LB/MMBTU) AND 0.75 G/BHP-H (83 PPMVD @ 15%) RESPECTIVELY SUCH THAT BACT REQUIREMENTS ARE AVOIDED.
**COMPANY NAME/SITE LOCATION:** SABA PETROLEUM, INC. (BELL COMPRESSOR PLANT)  
SANTA MARIA, CA  
SANTA BARBARA COUNTY

**PERMIT/FILE NO.** 9975  
**DETERMINATION MADE BY:** SANTA BARBARA COUNTY APCD, CA  
**AGENCY CONTACT PERSON:** MICHAEL GOLDMAN  
**PHONE #** (805) 961-8821

**SCHEDULING INFORMATION:**

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<td>10/14/1998 EST</td>
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<tr>
<td>COMPLIANCE VERIFICATION</td>
<td>/ /</td>
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</tbody>
</table>

**PROCESS NAME**  
IC ENGINE, COMPRESSOR, NATURAL GAS-FIRED  
**POLLUTANT NAME**  
CAPACITY  
747.0000 BHP  
**THROUGHPUT**

**PROCESS/COMPLIANCE NOTES:**

ARB RECORD #: A330-857-98  
CONTINUE PROCESS: WAUKSHA MODEL ENGINE IS TURBO-CHARGED AND INTER-COOLED  
AND IS CONFIGURED IN A RICH BURN MODE, AT 3.073 MMSCFD  
COMPLIANCE WAS NOT VERIFIED.

**COMPLIANCE METHOD (Y/N):**

<table>
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<tr>
<th>STACK TEST</th>
<th>INSPECTION</th>
<th>CALCULATION</th>
<th>OTHER TEST</th>
<th>OTHER METHOD</th>
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<tbody>
<tr>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

**NOX**  
**CAPITAL COSTS:** $0  
**O & M COSTS:** $0  
**ANNUALIZED COSTS:** $0  
**COST EFFECTIVENESS ($/TON):** 0

**COSTS ARE IN DOLLARS.**
REPORT DATE: 06/24/1999  
COMPANY NAME/SITE LOCATION: MAPLE LEAF BAKERY  
2701 STATHUM BOULEVARD  
OXNARD, CA 93033-  
VENTURA COUNTY  
PERMIT/FILE NO. 0473-170  
Determination Made by: VENTURA COUNTY APCD, CA  
Kerby Zoziula  
(AGENCY CONTACT PERSON)  
(805) 645-1421  
(AGENCY)

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovens, Bakery, Four with 9 Process Stacks Total</td>
<td>0.00</td>
<td>ROC</td>
<td>92.0000 % DE.</td>
<td>0.0000</td>
</tr>
<tr>
<td>Process Code 70.003</td>
<td>Regina</td>
<td>SCC Code 3-02-032-99</td>
<td>CAS No. VOC</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
</tr>
</tbody>
</table>

NOTES: THIS BAKERY PRODUCES SOURDOUGH, FRENCH, AND HEARTH BREADS AND BUNS TOTAL ROC LIMIT AFTER CONTROL IS 4.99 TPY ROC
COMPANY NAME/SITE LOCATION: MAPLE LEAF BAKERY
2701 STATHUM BOULEVARD
OXNARD, CA 93033-

PERMIT/FILE NO. 0473-170

SCHEDULING INFORMATION:

PROCESS NAME

POLLUTANT NAME

CAPACITY

OVENS, BAKERY, FOUR WITH 9 PROCESS STACKS TOTAL

0.0000

COMPLIANCE WAS NOT VERIFIED.

PROCCESS/COMPLIANCE NOTES:

ARB RECORD #: A370-858-98
CONTINUE PROCESS: 3.07 MMBTU/H BAKER PERKINS, 5.1 MMBTU/H UNIV.
TWO 1.8 AND 2.5 MMBTU/H MEKATHERM OVENS.

STACK TEST: N
INSPECTION: N
CALC: CALC

ROC
COST EFFECTIVENESS ($/TON):

0
COMPANY NAME/SITE LOCATION: CROCKETT COGENERATION - C&H SUGAR  
550 LORING AVE.  
CROCKETT, CA 94525-  
CONTRA COSTA COUNTY

PERMIT/FILE NO. S-201

DETERMINATION MADE BY: BAY AREA AQMD, CA  
CAROL ALLEN  
(AGENCY CONTACT PERSON)  
(415) 749-4702  
(Agency)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

<table>
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<th>PROCESS CODE 15.004</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tbody>
<tr>
<td>TRUBINE, GAS, GENERAL ELECTRIC MODEL PG7221(FA) 240.00 MW</td>
<td>NOX</td>
<td>5.0000 PPMVD @ 15% O2</td>
<td>BACT-OTHER</td>
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<tr>
<td>SCC CODE 2-01-002-01</td>
<td>CAS NO. 10102</td>
<td>0.0000</td>
<td>CONTROL METHOD: BOTH DRY LOW-NOX COMBUSTION CATALYST, MITSUBISHI HEAVY INDUSTRIES AMERICAN SELECTIVE CATALYTIC REDUCTION CATALYST.</td>
</tr>
<tr>
<td></td>
<td>VOC</td>
<td>352.6000 LB/D</td>
<td>BACT-OTHER</td>
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<tr>
<td></td>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td>CONTROL METHOD: ADD ENGELHARD OXIDATION CATALYST.</td>
</tr>
<tr>
<td></td>
<td>CO</td>
<td>5.9000 PPMVD</td>
<td>BACT-OTHER</td>
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<tr>
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<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
<td>CONTROL METHOD: ADD ENGELHARD OXIDATION CATALYST.</td>
</tr>
</tbody>
</table>
NOTES: 159 MW NOMINAL OUTPUT FOR GENERATOR ON GAS TURBINE AND UP TO 240 MW DURING
POWER AUGMENTATION WITH STEAM INJECTION.
NOX: HEAT RECOVERY STEAM GENERATOR DISTRICT ID# S-202
SCR DISTRICT ID# A-202
POC: OXIDATION CATALYST DISTRICT ID# A-201; 352.6 LB/D LIMIT IS A COMBINE
LIMIT WITH AUXILIARY BOILER
CO: OXIDATION CATALYST DISTRICT ID# A-201; INFREQUENT SHORT-TERM SPIKES IN
EXCESS OF 5.9 PPMvd LIMIT HAVE OCCURRED. DISTRICT CONSIDERING
RELAXATION OF LIMIT TO 10 PPMvd @ 15% O2.
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part B)  
RBLG ID No. CA-0855  

COMPANY NAME/SITE LOCATION:  CROCKETT COGENERATION - C&H SUGAR  
550 LORING AVE.  
CROCKETT, CA 94525-  
CONTRA COSTA COUNTY  

PERMIT/FILE NO. S-201  

DETERMINATION MADE BY:  BAY AREA AQMD, CA  
AGENCY CONTACT PERSON:  CAROL ALLEN  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION / /  
PERMIT ISSUED 10/05/1993 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /  

PROCESS NAME  
POLLUTANT NAME  
CAPACITY  

TRUBINE, GAS, GENERAL ELECTRIC MODEL PG7221(FA)  
240.0000 MW  

PROCESS/COMPLIANCE NOTES:  
ARB RECORD #: A330-859-98  
CONTINUE PROCESS: WITH HEAT RECOVERY STEAM GENERATOR HAVING LOW NOX BURNERS WITH A CAPACITY OF 349 MMBTU/H (COMBINED CYCLE AND COGENERATION)  
COMPLIANCE WAS NOT VERIFIED.  

NOX  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

COSTS ARE IN DOLLARS.  
COSTS ARE NOT VERIFIED BY AGENCY.
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<tr>
<th>Compound</th>
<th>Capital Costs:</th>
<th>O &amp; M Costs:</th>
<th>Annualized Costs:</th>
<th>Cost Effectiveness ($/Ton):</th>
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<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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**COMPANY NAME/SITE LOCATION:** Bassi Distribution Company  
836 Walker Street  
Watsonville, CA 95076-  
Santa Cruz County

**PERMIT/FILE NO.** 9617  
**DATE OF PERMIT ISSUANCE:** 11/19/1998

**DETERMINATION MADE BY:** Monterey Bay Unified APCD, CA  
**MARY GIRAUDO**  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE) (831) 647-9411

**AIRS ID NO.**

**EMISSION LIMITS (P: STAND)**

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FINISHING SYSTEM, AUTOMATED (SEE FACILITY NOTES)</strong></td>
<td>4000.00 PALLET/D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROCESS CODE 41.006</td>
<td></td>
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<tr>
<td>SCC CODE 4-02-021-31</td>
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<tr>
<td>VOC</td>
<td>137.0000 LB/D</td>
<td></td>
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<tr>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOW VOC COATING USAGE: SHERWOOD 2400 MARKING PAINT, 1.78 LB VOC/GAL, HVLP SPRAY GUNS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1) Liberty Paint Spray Booth, Model L-10-15-8
2) Conveyor Transferring pallets to drying oven
3) Infrared drying oven (Electric 200F Max)
4) Devilbiss HVLP Spray Guns
REPORT DATE: 06/24/1999  
DETAILS SOURCE LISTING (Part B)  
RBLC ID No. CA-0856  

COMPANY NAME/SITE LOCATION: BASSI DISTRIBUTION COMPANY  
836 WALKER STREET  
WATSONVILLE, CA 95076-  
SANTA CRUZ COUNTY

PERMIT/FILE NO. 9617  
DETERMINATION MADE BY: MONTEREY BAY UNIFIED APCD, CA  
AGENCY CONTACT PERSON: MARY GIRAUDO

SCHEDULING INFORMATION:  
RECEIVED APPLICATION / /  
PERMIT ISSUED 11/19/1998 ACT  
START UP 12/15/1998 EST  
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY  
FINISHING SYSTEM, AUTOMATED (SEE FACILITY NOTES) 4000.0000 PALLETS/D

COMPLIANCE WAS NOT VERIFIED  
ARB RECORD #: A340-860-98

VOC  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** FLOWMATRIX CORPORATION - CARPINTERIA
1160 MARK AVE
CARPINTERIA, CA

**PERMIT/FILE NO.:** 9985

**DETERMINATION MADE BY:** SANTA BARBARA COUNTY APCD, CA
MICHAEL GOLDMAN
(AGENCY) (AGENCY CONTACT PERSON) (PHONE) (805) 961-8821

**AIRS ID NO.**

**EMISSION LIMITS (PRIMARY) THROUGHPUT**

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOODS, SOLVENT DEVOLATILIZATION AND OVEN, CURING</td>
<td>1800.00 SCFM</td>
<td>ROC</td>
<td>0.4500 LB/H RO</td>
<td>BACT-OTHER</td>
</tr>
</tbody>
</table>

**NOTES:**

**GEOENERGY INTERNATIONAL MODEL GEOTHERM 1600**

**RECUPERATIVE THERMAL OXIDIZER**
COMPANY NAME/SITE LOCATION: FLOWMATRIX CORPORATION - CARPINTERIA
1160 MARK AVE
CARPINTERIA, CA

PERMIT/FILE NO. 9985

PERMIT/FILE NO. 9985

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 11/10/1998 ACT
START UP 12/30/1998 EST
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME
HOODS, SOLVENT DEVOLATILIZATION AND OVEN, CURING

POLLUTANT NAME
1800.0000 SCFM

CAPACITY

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

ARB RECORD #: A340-861-98

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCU
OTHER METHOD:

ROC

CAPITAL COSTS: $ 169,450
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 657

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: FREUND BAKING COMPANY
2050 TUBEWAY
COMMERCE, CA 90040-

PERMIT/FILE NO. 328570

DETERMINATION MADE BY: SOUTH COAST AQMD, CA
HEMANG DESAI
(AGENCY) (AGENCY CONTACT PERSON)

PROCESS CODE 70.003
SCC CODE 3-02-032-01

NOTES: POTENTIAL THROUGHPUT = 96 T/D = 8,000 LB/H, EXPECTED TO PERFORM SAME
AT HIGHER THROUGHPUT RATES.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: FREUND BAKING COMPANY
2050 TUBEWAY
COMMERCE, CA 90040-

PERMIT/FILE NO. 328570

Determination Made By: SOUTH COAST AQMD, CA
Agency Contact Person: HEMANG DESAI

Scheduling Information:

<table>
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<tr>
<th>Received Application</th>
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<tr>
<td>/ /</td>
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<td>09/30/1997 EST</td>
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Compliance Verification

<table>
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<tr>
<th>Throughput</th>
<th>Capacity</th>
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<tbody>
<tr>
<td>7.0000 MMBTU/H</td>
<td>COMPLIANCE WAS NOT VERIFIED</td>
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</table>

Process/Compliance Notes:

ARB Record #: A370-864-98
Continue Process: WITH FIVE NATURAL GAS BURNERS

Compliance Method (Y/N): 
- Stack Test: N
- Inspection: N
- Calculation: N

Other Method:

<table>
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<tr>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Costs: $0</td>
</tr>
<tr>
<td>O &amp; M Costs: $0</td>
</tr>
<tr>
<td>Annualized Costs: $0</td>
</tr>
<tr>
<td>Cost Effectiveness ($/Ton): 0</td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: NIKLOR CHEMICAL COMPANY, INC
PURDY AVE
MOJAVE, CA

PERMIT/FILE NO. SEE PROCESS NOTES

DETERMINATION MADE BY: KERN COUNTY APCD (DESERT PORTION), CA
(AGENCY)
DOUG RAY
(AGENCY CONTACT PERSON)

AIRS ID NO.

EMISSION LIMITS (P:)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

CHLOROPICRIN MANUFACTURING EQUIPMENT 0.00

PROCESS CODE 69.999 VOL 50.0000 PPMV
SCC CODE 3-01-033-99 CAS NO. VOC 0.0000

CONTROL METHOD: ADD DUAL BED CARBON ADSORBER W/STEAM REGENERATION CYCLE

RAILCAR UNLOADING, LIQUID CHLORINE 0.00

PROCESS CODE 69.999 VOL 0.0000
SCC CODE 3-01-033-99 CAS NO. VOC 0.0000

CONTROL METHOD: POL NITROGEN PURGE SYSTEM WILL BE PURGED FOR 10 MIN. TO THE END OF EACH WORK DAY AND PRIOR TO DISCONNECTING THE RAILCAR
RECEIVING AND STORAGE FOR METHYL BROMIDE AND PROCESS CODE 69.999
SCC CODE 3-01-033-99

VOC 80.0000 %
CAS NO. VOL 0.0000
CONTROL METHOD: ADD
VAPOR COLLECTION SYSTEM VENTED TO A COMPRESSOR/CHILLER

VENT STATION, GAS CYLINDER FILLING PROCESS CODE 69.999
SCC CODE 3-01-033-99

VOC 80.0000 %
CAS NO. VOL 0.0000
CONTROL METHOD: ADD
COMPRESSOR/CHILLER

CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE PROCESS CODE 69.999
SCC CODE 3-01-033-99

VOC 80.0000 %
CAS NO. VOL 0.0000
CONTROL METHOD: ADD
CARBON ADSORBER OR COMPRESSOR/CHILLER

CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE PROCESS CODE 69.999
SCC CODE 3-01-033-99

VOC 99.0000 %
CAS NO. VOL 0.0000
CONTROL METHOD: ADD
CARBON ADSORBER

NOTES: THE PACKAGING PORTION OF THE FACILITY RECEIVES METHYL BROMIDE BY RAIL AND BOTTLES THE METHYL BROMIDE IN CYLINDERS. SINCE METHYL BROMIDE IS BEING REGULATORY PHASED OUT, THE PERMIT ALLOWS FOR REPLACEMENT OF THE METHYL BROMIDE WITH 1,3-DICHLOROPROPANE. PREVIOUSLY FILLED CYLINDERS ARE RETURNED TO THE FACILITY FOR REUSE. RESIDUAL MATERIAL MUST BE VENTED FROM CYLINDERS PRIOR TO REFILLING. DEPENDING ON CUSTOMER NEEDS CHLOROPICRIN MIGHT VARY IN AMOUNT TO METHYL BROMIDE. CHLOROPICRIN IS MANUFACTURED AT THE FACILITY, BUT IS NOT PART OF THIS PERMIT ACTION.
REPORT DATE: 06/24/1999  DETAIL SOURCE LISTING (Part B)  RBLC ID No. CA-0860  

COMPANY NAME/SITE LOCATION:  NIKLOR CHEMICAL COMPANY, INC  
PURDY AVE  
MOJAVE, CA  
KERN COUNTY  

PERMIT/FILE NO. SEE PROCESS NOTES  
Determination Made By:  KERN COUNTY APCD (DESERT PORTION), CA  
Agency Contact Person:  DOUG RAY  
P:  

SCHEDULING INFORMATION:  

<table>
<thead>
<tr>
<th>Received Application</th>
<th>/ /</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permit Issued</td>
<td>12/14/1998 ACT</td>
</tr>
<tr>
<td>Start Up</td>
<td>04/15/2000 EST</td>
</tr>
<tr>
<td>Compliance Verification</td>
<td>/ /</td>
</tr>
</tbody>
</table>

PROCESS NAME  POLLUTANT NAME  CAPACITY  

| CHLOROPICRIN MANUFACTURING EQUIPMENT | 0.0000 | COMPLIANCE WAS NOT VERIFIED |

PROCESS/COMPLIANCE NOTES:  

| ARB RECORD #: A360-866-98; AUTHORITY TO CONSTRUCT #: 6001003 |

| COMPLIANCE METHOD (Y/N):  |
| STACK TEST:  N |
| INSPECTION:  N |
| CALCULATION:  |

CAPITOL COSTS:  $ 0  
O & M COSTS:  $ 0  
ANNUALIZED COSTS:  $ 0  
COST EFFECTIVENESS ($/TON):  0
RAILCAR UNLOADING, LIQUID CHLORINE
PROCESS/COMPLIANCE NOTES:

COMPILATION WAS NOT VERIFIED.

CONTINUE PROCESS: 1,3 - DICHLOROPROPENE
PROCESS/COMPLIANCE NOTES:

COMPILATION WAS NOT VERIFIED.

CONTINUE PROCESS: OPERATION FOR CHLORPRICIN, METHYL BROMIDE AND 1,3 - DICHLOROPROPENE
PROCESS/COMPLIANCE NOTES:
CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE

PROCESS/COMPLIANCE NOTES:

CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE

PROCESS/COMPLIANCE NOTES:

CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE

PROCESS/COMPLIANCE NOTES:

CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE

PROCESS/COMPLIANCE NOTES:

CHLOROPICRIN, METHYL BROMIDE & 1,3-DICHLOROPROPENE

PROCESS/COMPLIANCE NOTES:
<table>
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<tr>
<th>VOC</th>
<th>CAPITAL COSTS: $</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O &amp; M COSTS: $</td>
<td>0</td>
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<tr>
<td></td>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
</tr>
<tr>
<td>PROCESSES SUBJECT TO THIS PERMIT</td>
<td>THROUGHPUT</td>
<td>CAPACITY</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------</td>
<td>---------</td>
</tr>
<tr>
<td>BOILER, CLEAVER BROOKS W/ TODD COMBUSTION VARIFLAM</td>
<td>210.00 MMBTU/H</td>
<td>210.00 MMBTU/H</td>
</tr>
</tbody>
</table>

CONTROL METHOD: POLLUTION PREVENTION
- LOW NOX BURNER ADN F

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SAN BENITO FOODS TOMATO PROCESSING
HOLLISTER, CA
SAN BENITO COUNTY

PERMIT/FILE NO. 9610

DETERMINATION MADE BY: MONTEREY BAY UNIFIED APCD, CA
AGENCY CONTACT PERSON: EVA GOODMAN

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 12/14/1998 ACT
START UP / / COMPLIANCE VERIFICATION / /

PROCESS NAME: BOILER, CLEAVER BROOKS W/ TODD COMBUSTION VARIFLAM
CAPACITY: 210.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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</thead>
<tbody>
<tr>
<td>FURNACE, HEAT TREATING, ABAR ISPEN</td>
<td>7.00 MMBTU/H</td>
<td>7.00 MMBTU/H</td>
<td>NOX</td>
<td>0.0000</td>
<td>BACT-OTHER</td>
</tr>
<tr>
<td>PROCESS CODE 11.005</td>
<td>SCC CODE 3-09-900-13</td>
<td>CAS NO. 10102</td>
<td>ELEVEN LOW NOX BURNERS, NORTH AMERICAN MODELS (FIVE) 4442-3 AND (S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** The furnace is used to heat treat titanium & steel alloys. No coatings are used. Capacity input was 6.3 MMBTU/H at the time the authority to construct issued, but changed to 7 MMBTU/H at the time the permit to operate was issued.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  208

COMPANY NAME/SITE LOCATION:  H&H HEAT TREATING
9921 ROMANDEL AVE
SANTA FE SPRINGS, CA 90670-

PERMIT/FILE NO. 344733

SCHEDULING INFORMATION:

PROCESS NAME                POLLUTANT NAME
FURNACE, HEAT TREATING, ABAR ISPEN

CAPACITY
7.0000 MMBTU/H

THROUGHPUT

COMPLIANCE NOTES:
ARB RECORD #: A310-873-99

POLLUTANT NAME
NOX

CAPITAL COSTS: $        0
O & M COSTS: $          0
ANNUALIZED COSTS: $     0
COST EFFECTIVENESS ($/TON): 0

DETERMINATION MADE BY: SOUTH COAST AQMD, CA
AGENCY CONTACT PERSON: HEMANG DESAI

SCHEDULED ACTIVITY:
RECEIVED APPLICATION     / /
PERMIT ISSUED            09/29/1998  ACT
START UP                 / /
COMPLIANCE VERIFICATION  / /

OTHER METHOD:
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)

COMPANY NAME/SITE LOCATION:  SUNLAW COGEN. (FEDERAL COLD STORAGE COGENERATION)
4151 FRUITLAN AVENUE
VERNON, CA 90058-                                           LOS ANGELES COUNTY

PERMIT/FILE NO. RECLAIM 55711

DETERMINATION MADE BY:  SOUTH COAST AQMD, CA
ANTHONY OSHINUGA

(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO.

EMISSION LIMITS (P:)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

TURBINE, NATURAL GAS FIRED, COMBINED CYCLE AND COG 28.00 MW

PROCESS CODE 15.004
SCC CODE 2-02-002-03

NOX                       186817.0000 LB/Y.  0.0000
CAS NO. 10102

CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
WATER INJECTION AND SCONOX (MOD 2) CATALYST
SYSTEM IS INSTALLED AFTER THE HRSG.

NOTES:  A PORTION OF THE STEAM IS USED TO DRIVE A STEAM TURBINE GENERATOR, WITH THE
REMAINDER OF THE STEAM PROVIDED TO A REFRIGERATION SYSTEM USED TO SUPPORT
THE ADJACENT FEDERAL COLD STORAGE FACILITY; EPA INDICATED 2.0 PPMvd WAS
DEMONSTRATED IN PRACTICE BASED ON CEM DATA FROM THIS SYSTEM.
COGENERATION SYSTEM: A SINGLE GE LM2500-M-2, STEAM GENERATOR AND ELECTRIC
GENERATOR WITH A VOGT HEAT RECOVER STEAM GENERATOR CAPABLE OF PRODUCING
72,500 LB/H OF STEAM AT 600 PSI. THE GAS TURBINE AND THE STEAM GENERATORS
HAVE A COMBINED CAPACITY OF APPROXIMATELY 28 MW.
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part B)  
RBLG ID No. CA-0863  

COMPANY NAME/SITE LOCATION:  SUNLAW COGEN. (FEDERAL COLD STORAGE COGENERATION)  
4151 FRUITLAN AVENUE  
VERNON, CA 90058-  

PERMIT/FILE NO. RECLAIM 55711  
Determination Made By:  SOUTH COAST AQMD, CA  
Agency Contact Person:  ANTHONY OSHINUGA  

Scheduling Information:  
Estimated/Actual Date  
Received Application / /  
Permit Issued 01/15/1994 EST  
Start Up / /  
Compliance Verification / /  

Process/Compliance Notes:  
ARB Record #: A330-877-99  
Combined Cycle and Cogeneration System  

Process Name  
Pollutant Name  
Capacity  

TURBINE, NATURAL GAS FIRED, COMBINED CYCLE AND COG  
28.0000 MW  
Compliance was not verified  

Throughput  

Capital Costs: $ 0  
O & M Costs: $ 0  
Annualized Costs: $ 0  
Cost Effectiveness ($/Ton): 0  

Compliance Method (Y/N):  
Stack Test: N  
Inspection: N  
Calculation: N  
Other Method: Source Test:  

NOX  

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<th>THROUGHPUT</th>
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<td>30.005</td>
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<td>PM10</td>
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<td>30700702</td>
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<td>0.0050 GR/DSCF</td>
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<td>CONTROL METHOD: ADD</td>
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<td></td>
<td>INDOOR STORAGE OF RAW MATERIAL</td>
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<td></td>
<td>CARTER-DAY BAGHOUSES</td>
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<td></td>
<td>CONTROL EMISSIONS FROM BOARD FORMING, SAWING AND SANDING OPERATIONS.</td>
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</table>
REPORT DATE: 06/24/1999

OXIDIZER, THERMAL, REGENERATIVE

PROCESS CODE 30.005
SCC CODE 30790013

PM10
CAS NO. PM

BACT

NOTES: PERMIT FOR "CONSTRUCTION" OF MEDIUM DENSITY FIBERBOARD LINE (#2). CONSTRUCTION OCCURRED IN 1985 WITHOUT PSD PERMIT. PSD PERMIT WAS REQUIRED AS PART OF NATIONAL (EPA) CONSENT DECREE AGAINST LOUISIANA-PACIFIC (SEE CV93-0869).
REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part B)  
RBLC ID No. CA-0865  

COMPANY NAME/SITE LOCATION: LOUISIANA-PACIFIC CORPORATION  
P.O. BOX 1879  
OROVILLE, CA 95965-  
BUTTE COUNTY  

PERMIT/FILE NO. NSR 444 SAC 941  
DETERMINATION MADE BY: EPA REGION IX  
AGENCY CONTACT PERSON: DAVID WAMPLER  

PERMIT/FILE NO. NSR 444 SAC 941  
DETERMINATION MADE BY: EPA REGION IX  
AGENCY CONTACT PERSON: DAVID WAMPLER  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 11/20/1995 ACT  
PERMIT ISSUED 04/01/1998 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /  

THROUGHPUT  
PROCESS NAME POLLUTANT NAME CAPACITY  

HANDLING, RAW MATERIAL  
0.0000  
COMPLIANCE WAS NOT VERIFIED.  

PROCESS/COMPLIANCE NOTES:  
STORAGE AND MIXING OF RAW FIBER MATERIAL IS REQUIRED TO BE CONDUCTED INSIDE RAW MATERIAL STORAGE BUILDINGS. TRUCK DUMPS ARE REQUIRED TO BE PERFORMED AT DUMP THAT HAS NEGATIVE PRESSURE CONNECTION TO INDOOR STORAGE CONVEYOR.  

COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:  

PM10  
CAPITAL COSTS: $ 3,091,000  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 616,321  
COST EFFECTIVENESS ($/TON): 42,500
REPORT DATE: 06/24/1999

DETAINED SOURCE LISTING (Part B)

RBLC ID No. CA-0865

HANDLING, SANDERDUST

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS NOT VERIFIED.

0.0000

PROCESS/COMPLIANCE NOTES:

BAGHOUSE CONTROLLING THE SanderDUST AND BOARD FORMING AND SAWING OPERATIONS. COMPLIANCE HAS NOT BEEN DETERMINED AT THIS DATE.

OTHER SCC CODE IS 30700803.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

OXIDIZER, THERMAL, REGENERATIVE

PROCESS/COMPLIANCE NOTES:

RTO CONSTRUCTED PRIOR TO PERMIT ISSUANCE. TESTS PERFORMED TO ATTAIN COMPLIANCE. RTO UTILIZES AIR FROM PRESS AND BOARD COOLING OPERATIONS WITH SUPPLEMENTAL NATURAL GAS.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER METHOD: SOURCE TEST 1.

PM10

CAPITAL COSTS: $ 4,068,500
O & M COSTS: $ 714,300
ANNUALIZED COSTS: $ 579,300
COST EFFECTIVENESS ($/TON): 13,100
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  RBLC ID No. CA-0866

COMPANY NAME/SITE LOCATION:  LOUISIANA-PACIFIC SAMOA, INC.
1 L-P DRIVE P.O. BOX 158  SAMOA, CA 95564-

PERMIT/FILE NO. NC 961  DATE OF PERMIT ISSUANCE-- 04/12/1999

DETERMINATION MADE BY:  EPA REGION IX
AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO.

EMISSION LIMITS (P: STAND)  THROUGHPUT  CAPACITY  POLLUTANT NAME  RANKING INFORMATION

BOILER-RECOVERY CHEMICAL  3.00 MMLB/D

<table>
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<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tr>
<td>30.005</td>
<td>3.00 MMLB/D</td>
<td>0.0000</td>
<td>NOX</td>
<td>78.0000 PPM @8% O2</td>
</tr>
<tr>
<td>30790000</td>
<td>0.0000</td>
<td>CAS NO. 10102</td>
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</table>

NOTES: PERMIT ISSUED PURSUANT TO ENFORCEMENT ACTION. PERMIT REGULATES NOX EMISSION FROM CHEMICAL RECOVERY BOILER.
**COMPANY NAME/SITE LOCATION:** LOUISIANA-PACIFIC SAMOA, INC.
1 L-P DRIVE P.O. BOX 158
SAMOA, CA 95564-
HUMBOLDT COUNTY

**PERMIT/FILE NO.** NC 961

**DETERMINATION MADE BY:** EPA REGION IX
**AGENCY CONTACT PERSON:** ROGER KOHEN

**SCHEDULING INFORMATION:**

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<th>START UP</th>
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<table>
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<tr>
<th>COMPLIANCE VERIFICATION</th>
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**PROCESS NAME**

<table>
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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>BOILER-RECOVERY CHEMICAL</td>
<td>NOX</td>
<td>3.000 MMLB/D</td>
</tr>
</tbody>
</table>

**PROCESS/COMPLIANCE NOTES:**

OTHER SCC CODE IS 30790003. CO-FIRING BOILER ON NATURAL GAS. ANNUAL SUBMISSION OF CEMS DATA TO VERIFY COMPLIANCE WITH EMISSION LIMIT FOR NATURAL GAS FIRING ONLY.

**COMPLIANCE METHOD (Y/N):**

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
CEMS WILL BE USED

**NOX**

<table>
<thead>
<tr>
<th>CAPITAL COSTS:</th>
<th>$ 547,500</th>
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<tr>
<td>O &amp; M COSTS:</td>
<td>$ 23,200</td>
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<td>ANNUALIZED COSTS:</td>
<td>$ 202,300</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
<td>4,200</td>
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**ESTIMATED/ACTUAL DATE**
COMPANY NAME/SITE LOCATION: WESTPLAINS ENERGY
CANAL STREET & ABRIENDO AVE
PUEBLO, CO
PUEBLO COUNTY

PERMIT/FILE NO. 95PB013

DETERMINATION MADE BY: COLORADO DEPT OF HEALTH - AIR POLL CTRL
(AGENCY)
DENNIS M. MYERS
(AGENCY CONTACT PERSON)

AIRS ID NO. CO/101/0203/001

EMISSION LIMITS (P-STANDARD)
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

SIMPLE CYCLE TURBINE, NATURAL GAS 218.50 MW

PROCESS CODE 15.004
SCC CODE 2-01-002-01

NOX 15,000 PPM
CAS NO. 10102

CONTROL METHOD: POLLUTION PREVENTION
DRY LOW NOX COMBUSTION SYSTEM (DLN). COMMITMENT TO UPGRADE THE DLN TO NEW VERSIONS EMITTING LOWER NOX AS THEY BECOME AVAILABLE.

PM 0.0000 SEE:
CAS NO. PM

CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION CONTROLS TO MINIMIZE PM EMISSIONS.
NOTES: FACILITY WAS ORIGINALLY GRANTED AN INITIAL PERMIT (08/16/95) FOR A COMBINED CYCLE COMBUSTION TURBINE WITH A NET GENERATING CAPACITY OF 141 MW. THE APPLICATION FOR MODIFICATION FOR THE PERMIT REQUESTS THAT A SIMPLE CYCLE (NO DUCT BURNER) COMBUSTION TURBINE WITH A NET GENERATING CAPACITY OF 218.5 MW BE PERMITTED.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WESTPLAINS ENERGY
CANAL STREET & ABRIENDO AVE
PUEBLO, CO

PERMIT/FILE NO. 95PB013

DETERMINATION MADE BY: COLORADO DEPT OF HEALTH - AIR POLL CT.
AGENCY CONTACT PERSON: DENNIS M. MYERS

SCHEDULING INFORMATION:

RECEIVED APPLICATION 01/05/1996 ACT
PERMIT ISSUED 06/14/1996 ACT
START UP 08/14/1997 ACT

PROCESS NAME
SIMPLE CYCLE TURBINE, NATURAL GAS

POLLUTANT NAME
NOX

CAPACITY
218.5000 MW

THROUGHPUT

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
OPERATION AT LOW LOADS (LESS THAN 75% OF FULL LOAD) WILL BE LIMITED TO 324 HRS/yr. THIS INCLUDES STARTUP AND SHUTDOWN. INITIAL APPROVAL OF THE PERMIT WITH REQUESTED MODIFICATION WAS ISSUED 06/14/96.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

NOX:
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 398
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H -  220

RBLC ID No. CO-0026                                        DATE ENTERED/UPDATED:  02/11/1999

PM

CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0
COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #1
SO. UTE INDIAN TRIBE RESV., CO -

PERMIT/FILE NO. SITE 1

DETERMINATION MADE BY: EPA REGION VIII
(AGENCY)

AIRS ID NO. 08-067-00260

EMISSION LIMITS (P:
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

COMPRESSOR ENGINE, GAS-FIRED, 2 0.00

| PROCESS CODE | 15.004 |
| SCC CODE     | 201002 |
| CAS NO.      | 10102  |
| NOX          | 2.7000 LB/H |
| CAS NO.      | 630-08-0 |
| CO           | 5.4000 LB/H |

CONTROL METHOD: ADD RETROFIT EACH ENGINE RATIO CONTROL SYSTEM CATALYTIC REDUCTION 3/2 CONTROL OPTION

CONTROL METHOD: ADD RETROFIT EACH ENGINE RATIO CONTROL SYSTEM REDUCTION (NSCR) CON 3/2 CONTROL OPTION
IC ENGINE, WAUKESHA L5790-GSI, 2

PROCESS CODE 15.004
SCC CODE 201002

1215.00 HP

VOC
CAS NO. VOC
CONTROL METHOD: POL
GOOD COMBUSTION TECHNIQUES

PM10
CAS NO. PM

NOX
CAS NO. 10102
CONTROL METHOD: ADD RETROFIT EACH ENGINE RATIO CONTROL SYSTEM CATALYTIC REDUCTION 3/2 CONTROL OPG

CO
CAS NO. 630-08-0
CONTROL METHOD: ADD RETROFIT EACH ENGINE RATIO CONTROL SYSTEM CATALYTIC REDUCTION 3/2 CONTROL OPG

VOC
CAS NO. VOC
CONTROL METHOD: POL
GOOD COMBUSTION TECHNIQUES

PM10
CAS NO. PM
CONTROL METHOD: POL
USE OF NATURAL GAS
NOTES: SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE COMPLIANCE. FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PERIODICALLY MONITORED USING A PORTABLE ANALYZER.
COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #1
S. UTE INDIAN TRIBE RESV., CO - LA PLATA COUNTY

PERMIT/FILE NO. SITE 1
DETERMINATION MADE BY: EPA REGION VIII
AGENCY CONTACT PERSON: MONICA MORALES

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/13/1995 ACT
PERMIT ISSUED 04/01/1997 ACT
START UP / / COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

COMPRESSOR ENGINE, GAS-FIRED, 2
0.0000

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N
OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

IC ENGINE, WAUKESHA L5790-GSI, 2
1215.0000 HP
COMPLIANCE WAS NOT VERIFIED

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.  
TREATING SITE #2  
SO. UTE INDIAN TRIBE RESERV., CO  

PERMIT/FILE NO.  

DETERMINATION MADE BY: EPA REGION VIII  
AGENCY)                                      (AGENCY CONTACT PERSON)                      (PHONE)  

AIRS ID NO. 08-067-00258  

EMISSION LIMITS (P):  

PRODUCTS SUBJECT TO THIS PERMIT  

PROCESS CODE 15.004  
SCC CODE 201002  

COMPRESSOR ENGINE, GAS-FIRED, 2  
0.00  

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>NOX</td>
<td>2.7000 LB/H</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS NO. 10102</td>
<td>1.0000 G/B-HP-H</td>
<td>0.000</td>
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<tr>
<td></td>
<td></td>
<td>CO</td>
<td>5.4000 LB/H</td>
<td>2.0000 G/B-HP-H</td>
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<tr>
<td></td>
<td></td>
<td>CAS NO. 630-08-0</td>
<td>3/2 CONTROL OPTION</td>
<td>3/2 CONTROL OPTION</td>
</tr>
</tbody>
</table>

CONTROL METHOD: ADD RETROFIT EACH ENGINE RATIO CONTROL SYSTEM CATALYTIC REDUCTION 3/2 CONTROL OPTION
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  227

RBLG ID No. CO-0029                                        DATE ENTERED/UPDATED:  05/03/1999

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VOC                              0.0300 LB/H                      BACT-PSD
CAS NO. VOC                      0.0130 G/B-HP-H                    0.000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION TECH

PM10                             0.0300 LB/H                      BACT-PSD
CAS NO. PM                       0.0100 G/B-HP-H                    0.000
CONTROL METHOD: POLLUTION PREVENTION
USE OF NATURAL GAS

NOTES:  SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE COMPLIANCE.
        FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PERIODICALLY
        MONITORED USING A PORTABLE ANALYZER.
COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #2
SO. UTE INDIAN TRIBE RESERV., CO
LA PLATA COUNTY

PERMIT/FILE NO.

DETERMINATION MADE BY: EPA REGION VIII
AGENCY CONTACT PERSON: MONICA MORALES

SCHEDULING INFORMATION:

RECEIVED APPLICATION 12/13/1995 ACT
PERMIT ISSUED 07/31/1997 ACT
START UP
COMPLIANCE VERIFICATION

PROCESS NAME
COMPRESSION ENGINE, GAS-FIRED, 2

POLLUTANT NAME
NOX
CO

CAPACITY
0.0000

STANDARD METHODS (Y/N):
STACK TEST: N
INSPECTION: N
CALCU
OTHER METHOD:

COSTS (Y/N):
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
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<th>Source</th>
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<td>$0</td>
<td>$0</td>
<td>0</td>
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<td>PM10</td>
<td>$0</td>
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COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #4
SO. UTE INDIAN TRIBE RESERV., CO

PERMIT/FILE NO. SITE 4

DETERMINATION MADE BY: EPA REGION VIII
(AGENCY) MONICA MORALES (AGENCY CONTACT PERSON)

AIRS ID NO. 08-067-00259

<table>
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<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EMISSION LIMITS (P: STANDARDIZED)</th>
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<tr>
<td>COMPRESSOR ENGINE, GAS-FIRED, TS4-1</td>
<td>738.00 HP</td>
<td>738.00 HP</td>
<td>NOX</td>
<td>1.6000 LB/H</td>
<td>1.0000 G/B-HP-H</td>
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<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 201002</td>
<td>CAS NO. 10102</td>
<td>1.0000 G/B-HP-H</td>
<td>50.000</td>
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</tr>
<tr>
<td>CO</td>
<td>3.3000 LB/H</td>
<td>2.0000 G/B-HP-H</td>
<td>RETROFIT EACH ENGINE</td>
<td>3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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</table>
VOC  
CAS NO. VOC  
CONTROL METHOD: POL 
GOOD COMBUSTION TECHNIQUES

PM10  
CAS NO. PM  
CONTROL METHOD: POL 
USE OF NATURAL GAS

COMPRESSOR ENGINE, GAS-FIRED, TS4-2
PROCESS CODE 15.004  
SCC CODE 201002  
738.00 HP

CO  
CAS NO. 630-08-0  
CONTROL METHOD: BOT 
RETROFIT EACH ENGINE 
RATIO CONTROL SYSTEM 
catalytic reduction  
3/2 CONTROL OPTION

VOC  
CAS NO. VOC  
CONTROL METHOD: POL 
GOOD COMBUSTION TECHNIQUES

PM10  
CAS NO. PM  
CONTROL METHOD: POL 
USE OF NATURAL GAS
COMPRESSOR ENGINE, GAS-FIRED, TS4-3

PROCESS CODE 15.004
SCC CODE 201002

1215.00 HP

NOX
CAS NO. 10102
2.7000 LB/H
1.0000 G/B-HP-H
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT EACH ENGINE
RATIO CONTROL SYSTEM
CATALYTIC REDUCTION
3/2 CONTROL OPTM:

CO
CAS NO. 630-08-0
5.4000 LB/H
2.0000 G/B-HP-H
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT EACH ENGINE
RATIO CONTROL SYSTEM
CATALYTIC REDUCTION
3/2 CONTROL OPTM:

VOC
CAS NO. VOC
0.0100 LB/H
0.0100 G/B-HP-H
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION

PM10
CAS NO. PM
0.0300 LB/H
0.0100 G/B-HP-H
CONTROL METHOD: POLLUTION PREVENTION
USE OF NATURAL GAS

NOTES: SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE COMPLIANCE.
FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PERIODICALLY MONITORED USING A PORTABLE ANALYZER.
COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #4
SO. UTE INDIAN TRIBE RESERV., CO
LA PLATA COUNTY

PERMIT/FILE NO. SITE 4

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/13/1995 ACT
PERMIT ISSUED 07/31/1997 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

COMPRESSOR ENGINE, GAS-FIRED, TS4-1 738.0000 HP COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PER MONITORED USING A PORTABLE ANALYZER.

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N

NOX CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
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<th>Pollutant</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
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<td>0</td>
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<tr>
<td>PM10</td>
<td>0</td>
<td>0</td>
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**Compressor Engine, Gas-Fired, TS4-2**

738.0000 HP

**Process/Compliance Notes:**
Source is in process of setting up engine testing to determine following initial compliance verification, engines will be periodically monitored using a portable analyzer.

**Compliance Method (Y/N):**
- Stack Test: N
- Inspection: N
- Calculation: N
- Other Method: N

**Other Pollutants:**

<table>
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<tr>
<th>Pollutant</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
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<td>NOX</td>
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<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>CO</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</table>
VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

COMPRSSOR ENGINE, GAS-FIRED, TS4-3
PROCESS/COMPLIANCE NOTES:
1215.0000 HP

NOX
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. CO-0032

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #5
SO. UTE INDIAN TRIBE RESERV., CO

PERMIT/FILE NO. SITE 5

EMISSION LIMITS (P:\(STANDARDIZED\)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

COMPRESSOR ENGINE, GAS-FIRED, TS5-4 738.00 HP

PROCESS CODE 15.004
SCC CODE 201002

NOX 1.6000 LB/H
CAS NO. 10102

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT EACH ENGINE
RATION CONTROL SYSTEM
CATALYTIC REDUCTION
3/2 CONTROL OPTION

CO 3.3000 LB/H
CAS NO. 630-08-0

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT EACH ENGINE
RATION CONTROL SYSTEM
CATALYTIC REDUCTION
3/2 CONTROL OPTION
<table>
<thead>
<tr>
<th>Substance</th>
<th>Emission Rate</th>
<th>Source</th>
<th>Control Method</th>
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<tr>
<td>PM10</td>
<td>0.0300 LB/H</td>
<td>BACT-PSD</td>
<td>GOOD COMBUSTION TECHNIQUES</td>
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<tr>
<td>VOC</td>
<td>0.0030 G/B-HP-HP</td>
<td>BACT-PSD</td>
<td>POLLUTION PREVENTION</td>
</tr>
<tr>
<td>PM10</td>
<td>0.0100 G/B-HP-HP</td>
<td>BACT-PSD</td>
<td>POLLUTION PREVENTION</td>
</tr>
<tr>
<td>CO</td>
<td>5.4000 LB/H</td>
<td>BACT-PSD</td>
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<tr>
<td>VOC</td>
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<tr>
<td>PM10</td>
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<td>BACT-PSD</td>
<td>POLLUTION PREVENTION USE OF NATURAL GAS</td>
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COMPRESSOR ENGINE, GAS-FIRED, TS5-1  421.00 HP

PROCESS CODE 15.004
SCC CODE 201002

NOX 0.9000 LB/H
CAS NO. 10102
1.0000 G/B-HP-H
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT EACH ENGINE ARTIO CONTROL SYSTEM AND A 3-WAY NON-SELECTIVE CATALYTIC REDUCTION
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO 1.9000 LB/H
CAS NO. 630-08-0
2.0000 G/B-HP-H
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT EACH ENGINE RATIO CONTROL SYSTEM CATALYTIC REDUCTION
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC 0.0100 LB/H
CAS NO. VOC
0.0030 G/B-HP-H
CONTROL METHOD: POLLUTION PREVENTION GOOD COMBUSTION TECHNIQUES

PM10 0.0100 LB/H
CAS NO. PM
0.0100 G/B-HP-H
CONTROL METHOD: POLLUTION PREVENTION USE OF NATURAL GAS

NOTES: SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE COMPLIANCE. FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PERIODICALLY MONITORED USING A PORTABLE ANALYZER.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #5
SO. UTE INDIAN TRIBE RESERV., CO
LA PLATA COUNTY

PERMIT/FILE NO. SITE 5
Determination made by: EPA REGION VIII
Agency contact person: MONICA MORALES

SCHEDULING INFORMATION:

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**REPORT DATE:** 06/24/1999  
**RBLC ID No. CO-0033**

**COMPRESSOR ENGINE, GAS-FIRED, TS5-3**

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**PROCESS/COMPLIANCE NOTES:**

Source is in process of setting up engine testing to determine following initial compliance verification, engines will be periodically monitored using a portable analyzer.

**COMPLIANCE METHOD (Y/N):**
- Stack Test: N
- Inspection: N
- Calculation: N
- Other Test: N
- Other Method: None

Compliance was not verified.
**PM10**

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**COMPRESSOR ENGINE, GAS-FIRED, TS5-1**

421.0000 HP  

Compliance was not verified.

Process/Compliance Notes:

Source is in process of setting up engine testing to determine following initial compliance verification, engines will be periodically monitored using a portable analyzer.

Compliance Method (Y/N):
- Stack Test: N
- Inspection: N
- Calculation: N
- Other Test: N

Other Method:

**NOX**

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**CO**

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**VOC**

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**PM10**

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COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #6
SO. UTE INDIAN TRIBE RESERV., CO

PERMIT/FILE NO. SITE 6

COMPRESSOR ENGINE, GAS-FIRED, 2

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CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT THE 1215 HORSEPOWER ENGINES WITH AN ACCUNOX AIR TO FUEL RATIO CONTROL SYSTEM AND A 3-WAY NON-SELECTIVE CATALYTIC REDUCTION CONVERTER.
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

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<td>CAS NO. 630-08-0</td>
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CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT THE 1215 HORSEPOWER ENGINES WITH AN ACCUNOX AIR TO FUEL RATIO CONTROL SYSTEM AND A 3-WAY NON-SELECTIVE CATALYTIC REDUCTION CONVERTER.
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
COMRESSOR ENGINE, GAS-FIRED, 1  
PROCESS CODE 15.004  
SCC CODE 201002  
1478.00 HP

| VOC     | 0.0100 LB/H | 0.0010 G/B-HP-H | CONTROL METHOD: POL  
| CAS NO. VOC | 0.00010 G/B-HP-H | GOOD COMBUSTION TECHNIQUE |
| PM10    | 0.0100 LB/H | 0.000 G/B-HP-H | CONTROL METHOD: POL  
| CAS NO. PM | 0.000 G/B-HP-H | USE OF NATURAL GAS |

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #6
SO. UTE INDIAN TRIBE RESERV., CO
LA PLATA COUNTY

PERMIT/FILE NO. SITE 6

COMPRESSOR ENGINE, GAS-FIRED, 2

PROCESS/COMPLIANCE NOTES:
SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PER MONITORED USING A PORTABLE ANALYZER.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
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**Compressor Engine, Gas-Fired, 1**

1478.0000 HP  
Compliance was not verified.

**Process/Compliance Notes:**
Source is in process of setting up engine testing to determine following initial compliance verification, engines will be periodically monitored using a portable analyzer.

**Compliance Method (Y/N):**
Stack Test: N  
Inspection: N  
Calculation: N  
Other Method:  

**NOX**

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COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #7
SO. UTE INDIAN TRIBE RESERV., CO
LA PLATA COUNTY

PERMIT/FILE NO. SITE 7

DETERMINATION MADE BY: EPA REGION VIII
(AGENCY)
MONICA MORALES
(AGENCY CONTACT PERSON)
(303) 312-6936

AIRS ID NO. 08-067-00261

EMISSION LIMITS (P: STAND.

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

PROCESSES SUBJECT TO THIS PERMIT

COMPRESSOR ENGINE, GAS-FIRED, TS7-6, 1
1215.00 HP

PROCESS CODE 15.004
SCC CODE 201002

NOX
2.7000 LB/H
1.0000 G/B-HP-H
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT THE 1215 HP COMPR. ENGINE WITH AN ACCUNOX AIR TO FUEL RATIO CONTROL SYSTEM AND A 3-WAY NON-SELECTIVE CATALYTIC REDUCTION CONVERTER.
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
5.4000 LB/H
2.0000 G/B-HP-H
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT THE 1215 HP COMPR. ENGINE WITH AN ACCUNOX AIR TO FUEL RATIO CONTROL SYSTEM AND A 3-WAY NON-SELECTIVE CATALYTIC REDUCTION CONVERTER.
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. CO-0035

VOC 0.0100 LB/H
CAS NO. VOC 0.0030 G/B-
CONTROL METHOD: POL
GOOD COMBUSTION TECH

PM10 0.0300 LB/H
CAS NO. 0.0100 G/B-
CONTROL METHOD: POL
USE OF NATURAL GAS

COMPRSSOR ENGINE, GAS-FIRED, TS7-5, 1

421.00 HP

PROCESS CODE 15.004
SCC CODE 201002

NOX 0.9000 LB/H
CAS NO. 10102 1.0000 G/B-
CONTROL METHOD: BOT
RETROFIT THE 1215 HP
ACCUNOX AIR TO FUEL :
WAY NON-SELECTIVE CA
3/2 CONTROL OPTD

CO 1.9000 LB/H
CAS NO. 630-08-0 2.0000 G/B-
CONTROL METHOD: BOT
RETROFIT THE 1215 HP
ACCUNOX AIR TO FUEL :
WAY NON-SELECTIVE CA
3/2 CONTROL OPTD

VOC 0.0100 LB/H
CAS NO. VOC 0.0030 G/B-
CONTROL METHOD: POL
GOOD COMBUSTION TECH

PM10 0.0100 LB/H
CAS NO. PM 0.0100 G/B-
CONTROL METHOD: POL
USE OF NATURAL GAS

NOTES:
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. CO-0035

COMPANY NAME/SITE LOCATION: VASTAR RESOURCES, INC.
TREATING SITE #7
SO. UTE INDIAN TRIBE RESERV., CO

LA PLATA COUNTY

PERMIT/FILE NO. SITE 7
Determination Made By: EPA REGION VIII
Agency Contact Person: MONICA MORALES

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PROCESS NAME: COMPRESSOR ENGINE, GAS-FIRED, TS7-6, 1
CAPACITY: 1215.0000 HP

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PERIODICALLY MONITORED USING A PORTABLE ANALYZER.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPRESSOR ENGINE, GAS-FIRED, TS7-5, 1

PROCESS/COMPLIANCE NOTES:
SOURCE IS IN PROCESS OF SETTING UP ENGINE TESTING TO DETERMINE FOLLOWING INITIAL COMPLIANCE VERIFICATION, ENGINES WILL BE PERIODICALLY MONITORED USING A PORTABLE ANALYZER.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
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COST EFFECTIVENESS ($/TON): 0

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CAPITAL COSTS: $ 0
O & M COSTS: $ 0
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COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
VOC

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

PM10

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  253

COMPANY NAME/SITE LOCATION:  VASTAR RESOURCES, INC.
TREATING SITE #9
SO. UTE INDIAN TRIBE RESERV., CO

PERMIT/FILE NO. SITE 9

DETERMINATION MADE BY:  EPA REGION VIII
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 09-067-00262

COMPRESSOR ENGINES, GAS-FIRED, 3

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CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
RETROFIT THE 1215 HORSEPOWER ENGINES WITH AN ACCUNOX AIR TO FUEL RATIO CONTROL SYSTEM AND A 3-WAY NON-SELECTIVE CATALYTIC REDUCTION CONVERTER.
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES:

VOC
CAS NO. VOC
0.0200 LB/H
0.0120 G/B-
CONTROL METHOD: POL
GOOD COMBUSTION TECHNIQUES

PM10
CAS NO. PM
0.0200 LB/H
0.0100 G/B-
CONTROL METHOD: POL
USE OF NATURAL GAS
REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part B)                                      PAGE H-  255

COMPANY NAME/SITE LOCATION:  VASTAR RESOURCES, INC.
TREATING SITE #9
SO. UTE INDIAN TRIVE RESERV., CO
LA PLATA COUNTY

PERMIT/FILE NO. SITE 9

COMPRESSOR ENGINES, GAS-FIRED, 3

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PROCESS/COMPLIANCE NOTES:
Sorce is in process of setting up engine testing to determine compliance. Following initial compliance verification, engines will be periodically monitored using a portable analyzer.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

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<tr>
<td>START UP</td>
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<tr>
<td>COMPLIANCE VERIFICATION</td>
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</table>

COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

RBLC ID No. CO-0036

CO
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

VOC
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

PM10
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: COLORADO SPRINGS UTILITIES
NIXON POWER PLANT
FOUNTAIN, CO 80817-

PERMIT/FILE NO. 0410030
DATE OF PERMIT ISSUANCE-- 01/04/1999
START-UP DATE-- 01/07/1999

DETERMINATION MADE BY: COLORADO DEPT OF HEALTH - AIR POLL CTRL
DENNIS M. MYERS
(AGENCY)
(AGENCY CONTACT PERSON)
(PHONE)

AIRS ID NO.

EMISSION LIMITS (P: ST.
PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

TURBINE, COMBINE, NATURAL GAS FIRED
30.00 MW EACH

PROCESS CODE 15.004
SCC CODE 20100201
NOX
CAS NO. 10102
15.0000 PPMVD ABOVE 70% LOAD
0.0000
BACT-PSD
2/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES: ORIGINALLY, ONE 110 MW COMBUS. TURBINE/GENER WAS PERMITTED. AN APPLIC WAS
MADE FOR MODIF OF THE PERMIT TO ALLOW TWO TURBINES, 33MW EA. BACT WAS RE-
EVALUATED. BACT FOR NOX WAS DETERM AT 15 PPMVD AT 15% O AT OPERATING LOADS
ABOVE 70%, ELSE 65 PPMVD. TEST WILL BE CONDUCTED WITHIN 60 D OF COMMERCIAL STARTUP.
IF 15PPMVD IS NOT ACHIEVED, IT WILL BE REVISED. EFFECTS OF ALTITUDE HAS BEEN THE MAIN
CONSIDERATION FOR SUCH CONDITIONAL BACT DETERMINATION.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: COLORADO SPRINGS UTILITIES
NIXON POWER PLANT
FOUNTAIN, CO 80817-

PERMIT/FILE NO. 0410030

DETERMINATION MADE BY: COLORADO DEPT OF HEALTH - AIR POLL CT.
AGENCY CONTACT PERSON: DENNIS M. MYERS
PHONE #: (303) 692-3176

SCHEDULING INFORMATION:

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINE, COMBINE, NATURAL GAS FIRED</td>
<td></td>
<td>30.0000 MW EACH</td>
</tr>
</tbody>
</table>

COMPLIANCE NOTES:

THROUGHPUT

COMPLIANCE WAS NOT VERIFIED.

THese units are intended for peeking duty during high electrical periods.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

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<tr>
<th>Pollutant</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
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<tbody>
<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</table>
COMPANY NAME/SITE LOCATION: BRIDGEPORT ENERGY, LLC  
10 ATLANTIC STREET  
BRIDGEPORT, CT 06604-  
FAIRFIELD COUNTY

PERMIT/FILE NO. 0150190 & 0150191  
DATE OF PERMIT ISSUANCE-- 06/29/1998 ACT  
START-UP DATE-- 08/01/1998 ACT

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT  
RICHARD RODRIGUE  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

AIRS ID NO. 001-09065

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>CONTROL METHOD</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINES, COMBUSTION MODEL V84.3A, 2 SIEMES</td>
<td>260.00 MW/HRSG PER TURBINE</td>
<td>260.00 MW/HRSG PER TURBINE</td>
<td>NOX</td>
<td>6.0000 PPM</td>
<td>CAS NO. 101012</td>
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<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 2-01-002-01</td>
<td>0.0000 PPM</td>
<td>CONTROL METHOD: BOT</td>
<td>DRY LOW NOX BURNER</td>
<td>0/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td>CO</td>
<td>10.0000 PPM</td>
<td>0.0000 PPM</td>
<td>CONTROL METHOD: POL</td>
<td>PRE-MIX FUEL FAIR TO</td>
<td>2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
<td></td>
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</table>

REPORT DATE: 06/24/1999

DETAILS SOURCE LISTING (Part B)

RBLC ID No. CT-0130

COMPANY NAME/SITE LOCATION: BRIDGEPORT ENERGY, LLC
10 ATLANTIC STREET
BRIDGEPORT, CT 06604-

FAIRFIELD COUNTY

PERMIT/FILE NO. 0150190 & 0150191

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
AGENCY CONTACT PERSON: RICHARD RODRIGUE

SCHEDULING INFORMATION:

RECEIVED APPLICATION 07/01/1997 ACT
PERMIT ISSUED 06/29/1998 ACT
START UP 08/01/1998 ACT
COMPLIANCE VERIFICATION 05/29/1999 EST

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

TURBINES, COMBUSTION MODEL V84.3A, 2 SIEMES 260.0000 MW/HRSG PER TURBINE

COMPLIANCE WAS NOT VERIFIED.

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
**COMPANY NAME/SITE LOCATION:** CITY OF WATERBURY  
199 MUNICIPAL ROAD  
WATERBURY, CT 06708-  
NEW HAVEN COUNTY  

**PERMIT/FILE NO.** 192-0149  
**DATE OF PERMIT ISSUANCE**-- 06/15/1995  
**START-UP DATE**-- 11/20/1996  
**DETERMINATION MADE BY:** CONNECTICUT BUREAU OF AIR MANAGEMENT  
(DAVID LA RIVIERE)  
(860) 424-3028  
**AIRS ID NO.** 09-009-7065  

**EMISSION LIMITS (P: STANDARDIZED)**  
**THROUGHPUT**  
**CAPACITY**  
**POLLUTANT NAME**  
**RANKING INFORMATION**  
**EST % EFF**

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td><strong>INCINERATOR</strong></td>
<td>2.08 T/H DRY</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>PROCESS CODE 21.004</td>
<td></td>
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<td>SCC CODE 5-01-005-16</td>
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<td></td>
<td></td>
<td></td>
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</tbody>
</table>

| PM                              | 0.0150 GR/D. |          |                |                     |          |
| CAS NO. PM                      | 0.0000       |          |                |                     |          |
| CONTROL METHOD: ADD VENTURI TRAY TOWER & PRECIPITATOR | 2/1 CONTROL OPTI | |

| SOX                             | 0.2900 LB/MMBTU |          |                |                     |          |
| CAS NO. 7446                    | 0.0000         |          |                |                     |          |
| CONTROL METHOD: ADD VENTURI TRAY TOWER & PRECIPITATOR | 2/1 CONTROL OPTI | |

| NOX                             | 0.1600 LB/MMBTU |          |                |                     |          |
| CAS NO. 10102                   | 0.0000         |          |                |                     |          |
| CONTROL METHOD: POL COMBUSTION CONTROL | 3/2 CONTROL OPTI | |


REPORT DATE: 06/24/1999                                    DETAILED SOURCE LISTING (Part A)                                    RBLC ID No. CT-0132

VOC                              0.0400 LB/MMBTU                  BACT
CAS NO. VOC                      0.0000                             0.000
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION CONTROL
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO                               0.0700 LB/MMBTU                  BACT
CAS NO. 630-08-0                 0.0000                             0.000
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION CONTROL
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: MUNICIPAL SEWAGE TREATMENT PLANT
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  263
}

COMPANY NAME/SITE LOCATION:  CITY OF WATERBURY
199 MUNICIPAL ROAD
WATERBURY, CT 06708-                NEW HAVEN COUNTY

PERMIT/FILE NO. 192-0149

DETERMINATION MADE BY:  CONNECTICUT BUREAU OF AIR MANAGEMENT
AGENCY CONTACT PERSON:  DAVID LA RIVIERE

SCHEDULING INFORMATION:

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<td>START UP                   11/20/1996 ACT</td>
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<tr>
<td>COMPLIANCE VERIFICATION     05/28/1997 ACT</td>
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</table>

PROCESS NAME                                    POLLUTANT NAME                  CAPACITY

INCINERATOR                          2.0800 T/H DRY                COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:
DORR-OLIVER N-4003-F01 FLUIDIZED BED SEWAGE SLUDGE INCINERATOR

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N
OTHER METHOD:

PM
CAPITAL COSTS:  $ 1,115,167
O & M COSTS:  $ 163,366  COSTS ARE IN
ANNUALIZED COSTS:  $ 380,825  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  66
SOX

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

NOX

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

VOC

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

CO

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PFIZER INC.
EASTERN POINT ROAD
GROTON, CT 06340-

PERMIT/FILE NO. 070-0107

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
(AGENCY)
DAVID LA RIVIERE
(AGENCY CONTACT PERSON)

AIRS ID NO. 09-011-0604

EMISSION LIMITS (P:

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

COATER
365.00 BATCHES/yr

PROCESS CODE 69.011
SCC CODE 3-01-060-11

VOC
CAS NO. VOC
0.4300 T/yr
0.0000

CONTROL METHOD: ADD
AIREX C.2500 CATALYT
9/1 CONTROL OPTI:

NOTES: PHARMACEUTICAL RESEARCH DIVISION
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PFIZER INC.
EASTERN POINT ROAD
GROTON, CT 06340-

PERMIT/FILE NO. 070-0107

SCHEDULING INFORMATION:

PROCESS NAME: COATER
POLLUTANT NAME: 
CAPACITY: 365.0000 BATCHES/YR

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS NOT VERIFIED.

VOC
CAPITAL COSTS: $120,000
O & M COSTS: $14,053
ANNUALIZED COSTS: $18,000
COST EFFECTIVENESS ($/TON): 4,315
**COMPANY NAME/SITE LOCATION:** PFIZER INC.
EASTERN POINT ROAD
GROTON, CT 06340-
NEW LONDON COUNTY

**PERMIT/FILE NO.** 070-0108
**DATE OF PERMIT ISSUANCE--** 04/16/1996
**START-UP DATE--** 04/16/1996 EST

**DETERMINATION MADE BY:** CONNECTICUT BUREAU OF AIR MANAGEMENT
**AGENCY CONTACT PERSON**
**PHONE**

**AIRS ID NO.** 09-011-0604

**PROCESSES SUBJECT TO THIS PERMIT**

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<td>SCC CODE 3-01-060-11</td>
<td>365.00 BATCHES/YR</td>
<td>VOC</td>
<td>0.4300 T/YR</td>
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<td>CAS NO. VOC</td>
<td>0.0000</td>
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**CONTROL METHOD:** ADD AIREX C.2500 CATALYT 9/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**NOTES:** PHARMACEUTICAL RESEARCH DIVISION
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PFIZER INC.
EASTERN POINT ROAD
GROTON, CT 06340–

PERMIT/FILE NO. 070-0108

SCHEDULING INFORMATION:

RECEIVED APPLICATION 08/17/1995 ACT
PERMIT ISSUED 04/16/1996 ACT
START UP 04/16/1996 EST

PROCESS NAME                  POLLUTANT NAME             CAPACITY

DRYER                                                       365.0000 BATCHES/YR

PROCESS/COMPLIANCE NOTES:  GRUENBERG TRAY DRYER. THIS UNIT IS DUCTED TO THE SAME AIREX C
AS PERMIT # 070-0107. VOC EMISSIONS ARE THE TOTAL FOR PERMITS
0108, 0109.

COMPLIANCE WAS NOT VERIFIED:

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC

CAPITAL COSTS: $ 120,000
O & M COSTS: $ 14,053
ANNUALIZED COSTS: $ 18,000
COST EFFECTIVENESS ($/TON): 4,315
COMPANY NAME/SITE LOCATION: PFIZER INC.
EASTERN POINT ROAD
GROTON, CT 06340-
NEW LONDON COUNTY

PERMIT/FILE NO. 070-0109

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
(AGENCY)

AIRS ID NO. 09-011-0604

EMISSION LIMITS (P: (STANDARDIZED)

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<tr>
<td>DRYER</td>
<td>365.00</td>
<td>365.00</td>
<td>VOC</td>
<td>0.4300 T/YR</td>
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<td>PROCESS CODE 69.011</td>
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<td>CAS NO. VOC</td>
<td>0.0000</td>
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<tr>
<td>SCC CODE 3-01-060-11</td>
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<td>CONTROL METHOD: ADD</td>
<td>AIREX C.2500 CATALYT</td>
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<td>NOTES: PHARMACEUTICAL RESEARCH DIVISION</td>
<td></td>
<td></td>
<td>9/ 1 CONTROL OPTI</td>
<td></td>
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</table>
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PFIZER INC.
EASTERN POINT ROAD
GROTON, CT 06340-
NEW LONDON COUNTY

PERMIT/FILE NO. 070-0109

SCHEDULING INFORMATION:

RECEIVED APPLICATION 08/17/1995 ACT
PERMIT ISSUED 04/16/1996 ACT
START UP 04/16/1996 EST

THROUGHPUT

PROCESS NAME | POLLUTANT NAME | CAPACITY
--- | --- | ---
DRYER | VOC | 365.0000 BATCHES/yr

PROCESS/COMPLIANCE NOTES:
GLATT GPCG-5 FLUID BED PROCESSOR. DUCTED TO THE SAME AIREX C. DESCRIBED IN PERMIT # 070-0107. VOC EMISSIONS ARE THE TOTAL FOR PERMITS 070-0107, 0108, 0109.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: UNITED STATES SURGICAL CORPORATION
195 MCDERMOTT ROAD
NORTH HAVEN, CT 06473-

PERMIT/FILE NO. 135-0046

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
RIC PIROLLI
(860) 424-3028

AIRS ID NO. 09-009-5468

<table>
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<th>PROCESSES SUBJECT TO THIS PERMIT</th>
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<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>VENT, STERILIZATION CHAMBER</td>
<td>204.00 T/YR</td>
<td>ETO</td>
<td>248.1400 PPM</td>
<td>99.900</td>
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<td>SCC CODE A2850000010</td>
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<td>CONTROL METHOD:</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>ADD acid-water scrubber</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HCFC-124</td>
<td>0.0000</td>
<td></td>
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<tr>
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<td></td>
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<td>CONTROL METHOD:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ADD condenser</td>
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| VENT, EXHAUST CHAMBER            | 0.00       | ETO            | 3.0000 PPM           | 99.900   |
| PROCESS CODE 99.004              |            |                | CONTROL METHOD:     |          |
| SCC CODE A2850000010             |            |                | ADD catalytic oxidizer|          |
|                                  |            |                | 3/1 CONTROL OPTI.    |          |
REPORT DATE: 06/24/1999

RBLC ID No. CT-0136

HCFC-124 0.0000
CAS NO. VOC 0.0000
CONTROL METHOD: ADD
CONDENSER

VENT, AERATION ROOM, PRIMARY 0.00

PROCESS CODE 99.004
SCC CODE A2850000010

ETO 1.0000 PPM
CAS NO. 75-21-8 0.0000
CONTROL METHOD: ADD
CATALYTIC OXIDIZER

VENTS, AERATION ROOM, SECONDARY 0.00

PROCESS CODE 99.004
SCC CODE A2850000010

ETO 1.0000 PPM
CAS NO. 75-21-8 0.0000
CONTROL METHOD: ADD
CATALYTIC OXIDIZER

NOTES: CONTROL EQUIPMENT IS SHARED FOR PERMITS 135-0046, 135-47, 135-57
AERATION ROOM VENTS ARE DIVIDED INTO PRIMARY AND SECONDARY
THERE ARE 3 STERILIZERS AT THIS FACILITY
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: UNITED STATES SURGICAL CORPORATION
195 MCDERMOTT ROAD
NORTH HAVEN, CT 06473-
NEW HAVEN COUNTY

PERMIT/FILE NO. 135-0046

SCHEDULING INFORMATION:
- RECEIVED APPLICATION: 03/02/1995
- PERMIT ISSUED: 09/11/1996
- START UP: 09/11/1996
- COMPLIANCE VERIFICATION: 04/30/1998

THROUGHPUT
- PROCESS NAME: VENT, STERILIZATION CHAMBER
- CAPACITY: 204.0000 T/YR

COMPLIANCE WAS NOT VERIFIED.

<table>
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<tr>
<th>POLLUTANT NAME</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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<tr>
<td>HCFC-124</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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</tbody>
</table>
VENT, EXHAUST CHAMBER

0.0000

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION: N  OTHER TEST: N
OTHER METHOD:

ETO

CAPITAL COSTS: $ 776,000
O & M COSTS: $ 170,872  COSTS ARE IN
ANNUALIZED COSTS: $ 288,707  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 240,600

HCFC-124

CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VENT, AERATION ROOM, PRIMARY

0.0000

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION: N  OTHER TEST: N
OTHER METHOD:

ETO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VENTS, AERATION ROOM, SECONDARY

0.0000

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES: SECONDARY ROOM VENTS ARE COMMON FOR PERMITS 135-0046, 135-0047
COMPANY NAME/SITE LOCATION: UNITED STATES SURGICAL CORPORATION
195 MCDERMOTT ROAD
NORTH HAVEN, CT 06473-
NEW HAVEN COUNTY

PERMIT/FILE NO. 135-0047

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
RIC PIROLLI
(AGENCY CONTACT PERSON)

AIRS ID NO. 09-009-5468

PROCESS CODE 99.004
SCC CODE A2850000010

VENT, STERILIZATION CHAMBER
204.00 T/YR

PROCESS CODE 99.004
SCC CODE A2850000010

VENT, EXHAUST CHAMBER
0.00

EMISSION LIMITS (P:)
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

ETO
248.1400 PPM
0.0000
CONTROL METHOD: ADD
ACID-WATER SCRUBBER

HCFC-124
0.0000
CAS NO. VOC
0.0000
CONTROL METHOD: ADD
CONDENSER

ETO
3.0000 PPM
0.0000
CONTROL METHOD: ADD
CATALYTIC OXIDIZER
REPORT DATE: 06/24/1999  

DETAILLED SOURCE LISTING (Part A)  
RBLC ID No. CT-0137  

HCFC-124  
CAS NO. VOC  
0.0000  
0.0000  
CONTROL METHOD: ADD  
CONDENSER  

VENT, AERATION ROOM, PRIMARY  
0.00  

PROCESS CODE 99.004  
SCC CODE A2850000010  
ETO  
CAS NO. 75-21-8  
1.0000 PPM  
MACT  

VENT, AERATION ROOM, SECONDARY  
0.00  

PROCESS CODE 99.004  
SCC CODE A2850000010  
ETO  
CAS NO. 75-21-8  
1.0000 PPM  
MACT  

NOTES: THERE ARE 3 STERILIZERS AT THIS LOCATION  
CONTROL EQUIPMENT SHARED FOR PERMITS 135-0046, 135-0047, 135-00557  
AERATION ROOM DIVIDED INTO PRIMARY AND SECONDARY
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: UNITED STATES SURGICAL CORPORATION
195 MCDERMOTT ROAD
NORTH HAVEN, CT 06473-

PERMIT/FILE NO. 135-0047

SCHEDULING INFORMATION:

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>VENT, STERILIZATION CHAMBER</td>
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<td>204.000 T/YR</td>
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VENT, STERILIZATION CHAMBER: 204.000 T/YR

COST EFFECTIVENESS ($/TON): 0

ETO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

HCFC-124

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
VENT, EXHAUST CHAMBER

0.0000

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

ETO
CAPITAL COSTS: $ 776,000
O & M COSTS: $ 170,872
ANNUALIZED COSTS: $ 288,707
COST EFFECTIVENESS ($/TON): 240,600

HCFC-124
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VENT, AERATION ROOM, PRIMARY

0.0000

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

ETO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VENT, AERATION ROOM, SECONDARY

0.0000

COMPLIANCE WAS NOT VERIFIED.
REPORT DATE: 06/24/1999

RBLC ID No. CT-0137

DETAIL SOURCE LISTING (Part B)

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCU
OTHER METHOD:

ETO
CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
COMPANY NAME/SITE LOCATION: UNITED STATES SURGICAL CORPORATION
195 McDermott Road
NORTH HAVEN, CT 06473-
NEW HAVEN COUNTY

PERMIT/FILE NO. 135-0057

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
RIC PIROLLI
(AGENCY) (AGENCY CONTACT PERSON)
(PHONE) (860) 424-3028

AIRS ID NO. 09-009-5468

EMISSION LIMITS (P:\S:\R:\E:\M:\T:\E:\S:\\)

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<tr>
<th>THROUGHPUT</th>
<th>POLLUTION PREVENTION/RANKING INFORMATION</th>
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VENT, STERILIZATION CHAMBER 16.00 T/YR

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CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
ACID-WATER SCRUBBER

VENT, EXHAUST CHAMBER 0.00

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CONTROL METHOD: ADD
CATALYTIC OXIDIZER

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CONTROL METHOD: ADD
CONDENSER
VENT, AERATION, PRIMARY

PROCESS CODE 99.004
SCC CODE A2850000010
ETO 1.0000 PPM
CAS NO. 75-21-8
0.0000
CONTROL METHOD: ADD CATALYTIC OXIDIZER

VENT, AERATION ROOM, SECONDARY

PROCESS CODE 99.004
SCC CODE A2850000010
ETO 1.0000 PPM
CAS NO. 75-21-8
0.0000
CONTROL METHOD: ADD CATALYTIC OXIDIZER

NOTES: THERE ARE 3 STERILIZERS AT THIS FACILITY
CONTROL EQUIPMENT IS SHARED BY ALL 3 STERILIZER PERMITS 135-0046, 135-0047
AND 135-0057
AERATION ROOM DIVIDED INTO PRIMARY AND SECONDARY
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)
RBLC ID No. CT-0138

COMPANY NAME/SITE LOCATION: UNITED STATES SURGICAL CORPORATION
195 MCDERMOTT ROAD
NORTH HAVEN, CT 06473-
NEW HAVEN COUNTY

PERMIT/FILE NO. 135-0057

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
AGENCY CONTACT PERSON: RIC PIROLLI

SCHEDULING INFORMATION:

RECEIVED APPLICATION  03/02/1995  ACT
PERMIT ISSUED            09/11/1996  ACT
START UP                 09/11/1996  ACT
COMPLIANCE VERIFICATION 04/30/1998  ACT

THROUGHPUT

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**REPORT DATE:** 06/24/1999

**RBLC ID No. CT-0138**

**DATE ENTERED/UPDATED:** 06/17/1999

**COMPLIANCE METHOD (Y/N):**
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- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N
- OTHER METHOD:

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**VENT, AERATION, PRIMARY**

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<td>COST EFFECTIVENESS ($/TON):</td>
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**VENT, AERATION ROOM, SECONDARY**

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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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**PROCESS/COMPLIANCE NOTES:**
- THERE ARE 4 VENTS ASSOCIATED WITH THIS ROOM AND ARE SHARED BY 2 OTHER STERILIZERS
- COMPLIANCE WAS NOT VERIFIED

**COST EFFECTIVENESS ($/TON):**
- ETO: 0.0000
- HCFC-124: 0.0000

**COSTS ARE IN DOLLARS.**

**COSTS ARE NOT VERIFIED BY AGENCY.**
### ETO

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<td>Cost Effectiveness ($/ton)</td>
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**COMPANY NAME/SITE LOCATION:** PDC EL PASO MILFORD LLC  
1 SHELLAND STREET  
MILFORD, CT 06460-  
NEW HAVEN COUNTY

**PERMIT/FILE NO.** 105-0068  
**DATE ENTERED/UPDATED:** 06/17/1999  
**PERMIT/FILE NO.** 105-0068  
**DATE OF PERMIT ISSUANCE:** 04/16/1999  
**START-UP DATE:** 01/01/2001 EST  
**DETERMINATION MADE BY:** CONNECTICUT BUREAU OF AIR MANAGEMENT  
**DAVID LA RIVIERE**  
(AGENCY)  
**PHONE:** (860) 424-3549  
**AGENCY CONTACT PERSON**

**TURBINE, COMBUSTION, ABB GT-24, #1 WITH 2 CHILLERS**  
**PROCESS CODE: 15.004**  
**SCC CODE: 2-01-002-01**  
**THROUGHPUT:** 1.97 MMCF/H

<table>
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<tr>
<th>POLLUTANT NAME</th>
<th>EMISSION LIMITS (LB/MMBTU)</th>
<th>RANKING INFORMATION</th>
<th>CONTROL METHOD</th>
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<td>PM10</td>
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<td>BACT-PSD</td>
<td>POLLUTION PREVENTION</td>
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<td>NOX</td>
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<td>LAER</td>
<td>SCR WITH AMMONIA INJECTION</td>
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**AIRS ID NO.**
VOC
CAS NO. VOC

CO
CAS NO. 630-08-0

NH3
CAS NO. 7664-41-7

CO
CAS NO. 630-08-0

NH3
CAS NO. 7664-41-7

VOC
CONTROL METHOD: POLLUTION PREVENTION

CO
CONTROL METHOD: ADDITION CATALYST

NH3
CONTROL METHOD: POLLUTION PREVENTION

NOTES: THIS IS ONE OF TWO TURBINES ON THE PREMISES. THEY ARE BOTH ABB GT-24 TURBINES WITH HRSG UNITS. TOTAL OF 544 MW.
USES NATURAL GAS AS A PRIMARY FUEL AND FUEL OIL AS A SECONDARY FUEL.
PRIMARY EMISSION LIMITS BASED ON NATURAL GAS.
SECONDARY LIMITS BASED ON FUEL OIL.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PDC EL PASO MILFORD LLC
1 SHELLAND STREET
MILFORD, CT 06460-

PERMIT/FILE NO. 105-0068

SCHEDULING INFORMATION:

RECEIVED APPLICATION 02/17/1998 ACT
PERMIT ISSUED 04/16/1999 ACT
START UP 01/01/2001 EST

PROCESS NAME                      POLLUTANT NAME       CAPACITY
TURBINE, COMBUSTION, ABB GT-24, #1 WITH 2 CHILLERS 1.9700 MMCF/H

PROCESS/COMPLIANCE NOTES:
ONE OF 2 TURBINE TRAINS AT THE FACILITY. CONSISTS OF A COMBUSTION TURBINE, HRSG, STEAM TURBINE AND NAT GAS FIRED CHILLERS. FUEL USED AS SEC. FUEL. PRIMARY EMISSION LIMIT BASED ON NAT GAS, ALT. ON OIL

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

DETERMINATION MADE BY: CONNECTICUT BUREAU OF AIR MANAGEMENT
AGENCY CONTACT PERSON: DAVID LA RIVIERE

ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION 02/17/1998 ACT
PERMIT ISSUED 04/16/1999 ACT
START UP 01/01/2001 EST

NEW HAVEN COUNTY
CAROLINA BUREAU OF AIR MANAGEMENT
AGENCY CONTACT PERSON: DAVID LA RIVIERE

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
### REPORT DATE: 06/24/1999
### DETAILED SOURCE LISTING (Part B)
### RBLC ID No. CT-0139

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COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: PDC EL PASO MILFORD LLC
1 SHELLAND STREET
MILFORD, CT 06460-
NEW HAVEN COUNTY

PERMIT/FILE NO. 105-0069

DATE OF PERMIT ISSUANCE-- 04/16/1999
START-UP DATE-- 01/01/2001 EST

PROCESS CODE 15.004
SCC CODE 2-01-002-01

TURBINE, COMBUSTION, ABB GT-24E, #2 WITH 2 CHILLERS
1.97 MMCF/H

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

PM10 0.0110 LB/MMBTU NAT GAS 0.0000
CAS NO. PM

SOX 0.0022 LB/MMBTU NAT GAS 0.0000
CAS NO. 7446

NOX 2.0000 PPMV 0.0000
CAS NO. 10102

CONTROL METHOD: POLLUTION PREVENTION
NAT GAS AS PRIMARY FUEL, LOW SULFUR (0.05% W) OIL
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
SCR WITH AMMONIA INJECTION
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES: THIS IS ONE OF TWO TURBINES ON THE PREMISES. THEY ARE BOTH ABB GT-24 TURBINES WITH HRSG UNITS. TOTAL OF 544 MW. USES NATURAL GAS AS A PRIMARY FUEL AND FUEL OIL AS A SECONDARY FUEL. PRIMARY EMISSION LIMITS BASED ON NATURAL GAS. SECONDARY LIMITS BASED ON FUEL OIL.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PDC EL PASO MILFORD LLC
1 SHELLAND STREET
MILFORD, CT 06460-

PERMIT/FILE NO. 105-0069

SCHEDULING INFORMATION:
RECEIVED APPLICATION 02/17/1998 ACT
PERMIT ISSUED 04/16/1999 ACT
START UP 01/01/2001 EST

PROCESS NAME                  POLLUTANT NAME             CAPACITY
TURBINE, COMBUSTION, ABB GT-24E,#2 WITH 2 CHILLERS               1.9700 MMCF/H

PROCESS/COMPLIANCE NOTES:
ONE OF 2 TURBINE TRAINS AT THE FACILITY. CONSISTS OF A COMBUSTION TURBINE, HRSG, STEAM TURBINE AND NAT GAS FIRED CHILLERS. FUEL USED AS SEC. FUEL. PRIMARY EMISSION LIMIT BASED ON NAT GAS, ALT. ON OIL

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
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COMPANY NAME/SITE LOCATION:  STAR ENTERPRISE  
2000 WRANGLE HILL RD  
DELAWARE CITY, DE 19720-  
NEW CASTLE COUNTY

PERMIT/FILE NO. APC-97/0503-CONST.(LAER)(NSPS)  
DATE OF PERMIT ISSUANCE-- 03/30/1998 ACT  
START-UP DATE-- 09/30/1999 EST

DETERMINATION MADE BY:  DELAWARE DEPT OF NATURAL RES & ENV CTRL  
RAVI RANGAN  
(AGENCY CONTACT PERSON)

AIRS ID NO. 10-003-00016

EMISSION LIMITS (P: STANDARD)  
THROUGHPUT POLLUTION PREVENTION
CAPACITY RANKING INFORMATION

TURBINES, COMBINED CYCLE, 2  826.60 MMBTU/H

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CONTROL METHOD:  POLLUTION PREVENTION  
NITROGEN INJECTION WHILE FIRING SYNGAS AND STEAM  
INJECTION WHILE FIRING LSDF

3/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

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CONTROL METHOD:  POLLUTION PREVENTION  
NITROGEN INJECTION WHILE FIRING SYNGAS AND STEAM  
INJECTION WHILE FIRING LSDF

NOTES:  2 GE COMBUSTION TURBINES, EACH RATED AT 90 MW, FIRING SYNGAS AND LOW SULFUR DIESEL FUEL (LSDF) AND NAT. GAS IN THE DUCT BURNER FOR EACH HRSG. SYNGAS WILL BE PRODUCED BY GASIFICATION OF COKE IN 2 NEW TEXACO GASIFIERS.
COMPANY NAME/SITE LOCATION: STAR ENTERPRISE  
2000 WRANGLE HILL RD  
DELAWARE CITY, DE 19720-  
NEW CASTLE COUNTY

PERMIT/FILE NO. APC-97/0503-CONST.(LAER)(NSPS)  
DETERMINATION MADE BY: DELAWARE DEPT OF NATURAL RES & ENV CT.  
AGENCY CONTACT PERSON: RAVI RANGAN  

SCHEDULING INFORMATION:

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<tr>
<td>START UP</td>
<td>09/30/1999 EST</td>
</tr>
<tr>
<td>COMPLIANCE VERIFICATION</td>
<td>09/30/1999 EST</td>
</tr>
</tbody>
</table>

THROUGHPUT

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINES, COMBINED CYCLE, 2</td>
<td></td>
<td>826.6000 MMBTU/H</td>
</tr>
</tbody>
</table>

PROCESS/COMPLIANCE NOTES:  
The turbines/duct burners will fire desulfurized syngas (S < 0.076%) or desulfurized diesel fuel. Each unit will produce 90 MWe & each HRSG will generate 255K LB/HR steam at 1250 PSI and 950 degrees F.

COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
**REPORT DATE: 06/24/1999**

DETAILED SOURCE LISTING (Part B)

RBL C ID No. DE-0014

<table>
<thead>
<tr>
<th>NOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPITAL COSTS:  $ 0</td>
</tr>
<tr>
<td>O &amp; M COSTS:  $ 0</td>
</tr>
<tr>
<td>ANNUALIZED COSTS:  $ 0</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):  0</td>
</tr>
</tbody>
</table>
COMPANY NAME/SITE LOCATION: STAR ENTERPRISE  
2000 WRANGLE HILL ROAD  
DELaware CITY, DE 19706-  
NEW CASTLE COUNTY

PERMIT/FILE NO. APC-95/0570 TEMP. OPER (LAER)  
DATE ENTERED/UPDATED: 01/12/1999

DETERMINATION MADE BY: DELAWARE DEPT OF NATURAL RES & ENV CTRL  
RAVI RANGAN  
(AGENCY CONTACT PERSON)  
(302) 323-4542  
(AGENCY)

BOILER, REFINERY FUEL GAS  
PROCESS CODE 11.004  
Scc CODE 1-02-007-01  
THROUGHPUT  
349.00 MMBTU/H

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>0.0660 LB/MMBTU</td>
<td>0.0660 LB/MMBTU</td>
<td>LAER</td>
<td>0.000</td>
</tr>
<tr>
<td>CAS NO. 10102</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0.0350 LB/MMBTU</td>
<td>0.0350 LB/MMBTU</td>
<td>NSPS</td>
<td>0.000</td>
</tr>
<tr>
<td>CAS NO. 630-08-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM10</td>
<td>0.0200 LB/MMBTU</td>
<td>0.0200 LB/MMBTU</td>
<td>BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
<td>0.000</td>
</tr>
<tr>
<td>CAS NO. PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT  
PRE-COMBUSTOR FOLLOWED BY SELECTIVE NON-CATALYTIC REDUCTION SYSTEM (SNCR) & ULTRA-LOW NOX BURNERS  
LOCATED IN PROCESS HEATER.

CONTROL METHOD: POLLUTION PREVENTION  
COMBUSTION MUST BE MAINTAINED FOR 0.3 SECONDS AT A MINIMUM TEMP. OF 1300 DEG. F.

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT  
MAINTAIN SOUR WATER STRIPPER OVERHEAD ACCUMULATOR TEMP. < 107 DEG. F.
<table>
<thead>
<tr>
<th>Substance</th>
<th>Emission Rate</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>0.0030 lb/MMBTU</td>
<td>Poll</td>
</tr>
<tr>
<td></td>
<td>0.0030 lb/MMBTU</td>
<td>Prevention</td>
</tr>
<tr>
<td></td>
<td>0.0000 lb/MMBTU</td>
<td></td>
</tr>
<tr>
<td>SO2</td>
<td>40.4000 T/Y</td>
<td>Poll</td>
</tr>
<tr>
<td></td>
<td>0.0000 T/Y</td>
<td>Prevention</td>
</tr>
</tbody>
</table>

NOTES: COMPLIANCE VERIFICATION FOR PM10 WAS COMPLETED MARCH 4-6, 1998; AND FOR NOX, CO, AND VOC, IT WAS COMPLETED IN MARCH 1997. CURRENT AIR PERMIT FOR TEMPORARY OPERATIONS HAS BEEN ISSUED TO FACILITY. AN OPERATING PERMIT WILL BE ISSUED UPON COMPLETION OF DEPARTMENT’S REVIEW.
COMPANY NAME/SITE LOCATION: STAR ENTERPRISE
2000 WRANGLE HILL ROAD
DELAWARE CITY, DE 19706-
NEW CASTLE COUNTY

PERMIT/FILE NO. APC-95/0570 TEMP.OPER(LAER)
DETERMINATION MADE BY: DELAWARE DEPT OF NATURAL RES & ENV CT.
AGENCY CONTACT PERSON: RAVI RANGAN

SCHEDULING INFORMATION:
RECEIVED APPLICATION 05/24/1995 ACT
PERMIT ISSUED 04/07/1997 ACT
START UP 06/24/1996 ACT
COMPLIANCE VERIFICATION 03/04/1998 ACT

PROCESS NAME                  POLLUTANT NAME             CAPACITY
BOILER, REFINERY FUEL GAS     NOX                                   349.0000 MMBTU/H
COMPLIANCE WAS VERIFIED.
PROCESS/COMPLIANCE NOTES: 21-H-701, EQUIPPED WITH A PRE-COMBUSTOR AND SNCR, HEATS INCOMING CRUDE OIL TO 400 DEG C PRIOR TO FEEDING INTO DISTILLATION COLUMN.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
FUEL USE COMP

NOX CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SO2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
COMPANY NAME/SITE LOCATION: CITY OF LAKELAND ELECTRIC AND WATER UTILITIES
501 EAST LEMON STREET
LAKELAND, FL 33801-
POLK COUNTY

PERMIT/FILE NO. PSD-FL-245

DETERMINATION MADE BY: FLORIDA DEPT OF ENV REGULATION
AL LINERO (AGENCY CONTACT PERSON)
(850) 921-9523 (PHONE)

AIRS ID NO. 1050004

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION
EST % EFF

TURBINE, COMBUSTION, GAS FIRED W/ FUEL OIL ALSO
2174.00 MMBTU/H

PROCESS CODE 15.007
SCC CODE 20100201

NOX
25.0000 PPM
25.0000 PPM
CONTROL METHOD: POL:
DRY LOW NOX BURNERS:
SCR WHEN COMBINED CY:

CO
25.0000 PPM
25.0000 PPM
CONTROL METHOD: POL:
GOOD COMBUSTION WITH
OXIDATION CATALYST M.

NOTES: A NEW WESTINGHOUSE 501 G WITH UP TO 250 MW SIMPLE CYCLE WITH POWER AUGMENTATION. SCHEDULED TO GO COMBINED CYCLE BY 2003.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CITY OF LAKELAND ELECTRIC AND WATER UTILITIES
501 EAST LEMON STREET
LAKELAND, FL 33801-

PERMIT/FILE NO. PSD-FL-245

Determination Made by: FLORIDA DEPT OF ENV REGULATION
Agency Contact Person: AL LINERO

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / PERMIT ISSUED 07/10/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME: TURBINE, COMBUSTION, GAS FIRED W/ FUEL OIL ALSO

POLLUTANT NAME: NOX

CAPACITY: 2174.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

559 X 10 E9 BTU PER YEAR (LHV) LIMIT ON FUEL OIL

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATED
OTHER METHOD: FUEL OIL BACKUP

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: SANTA ROSA ENERGY LLC
650 DUNDEE ROAD
NORTHBROOK, FL 60062-
SANTA ROSA COUNTY

PERMIT/FILE NO. PSD-FL 253

DETERMINATION MADE BY: FLORIDA DEPT OF ENV REGULATION
TERESA HERON
(AGENCY)
(AGENCY CONTACT PERSON)

AIRS ID NO. 1130168

Emission Limits (Primary)

<table>
<thead>
<tr>
<th>Throughput</th>
<th>Capacity</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>EST % Eff</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINE, COMBUSTION, NATURAL GAS</td>
<td>241.00 MW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROCESS CODE 15.004</td>
<td>SCC CODE 20100201</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOX</td>
<td>9.8000 PPM@15% O2</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS NO. 10102</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL METHOD: POLLUTION PREVENTION DRY LOW NOX BURNER</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0.0000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS NO. 630-08-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL METHOD: POLLUTION PREVENTION DRY LOW NOX BURNER GOOD COMBUSTION PRACTICE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES: GENERAL ELECTRIC 7FA UP TO 241 MW COMBINED CYCLE WITH SUPPLEMENTAL FIRING
REPORT DATE: 06/24/1999 DETAILED SOURCE LISTING (Part B) RBLC ID No. FL-0116

COMPANY NAME/SITE LOCATION: SANTA ROSA ENERGY LLC 650 DUNDEE ROAD NORTHBROOK, FL 60062 SANTA ROSA COUNTY

PERMIT/FILE NO. PSD-FL 253

DETERMINATION MADE BY: FLORIDA DEPT OF ENV REGULATION AGENCY CONTACT PERSON: TERESA HERON

SCHEDULING INFORMATION:

PERMIT ISSUED 12/04/1998 ACT

PROCESS NAME: TURBINE, COMBUSTION, NATURAL GAS

POLLUTANT NAME NOX

CAPACITY 241.0000 MW

PROCESS/COMPLIANCE NOTES: 585 MMBTU/H HEAT INPUT FOR DUCTBURNER, EXPORT STEAM ALSO

COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATED

OTHER METHOD:

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part B)
RBLN ID No. FL-0116

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: TENUSKA GEORGIA PARTNERS, L.P.
GEORGE BROWN ROAD
FRANKLIN, GA 31634-

PERMIT/FILE NO. 4-11-149-0004-P-01-0

DETERMINATION MADE BY: GEORGIA DEPARTMENT OF NATURAL RESOURCES
SUSAN JENKINS

AIRS ID NO. 04-13-149-00004

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.004</td>
<td></td>
<td>160.00 MW EA</td>
<td>NOX</td>
<td>15.0000 PPMVD @ 15% O2</td>
</tr>
<tr>
<td>SCC CODE 20100201</td>
<td></td>
<td></td>
<td>CAS NO. 10102</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NOX</td>
<td>42.0000 PPMVD @ 15% O2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CAS NO. 10102</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CO</td>
<td>15.0000 PPMVD @ 15% O2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CAS NO. 630-08-0</td>
<td></td>
</tr>
</tbody>
</table>

CONTROL METHOD: POLLUTION PREVENTION USING 15% EXCESS AIR. NOX EMISSION IS BECAUSE OF NATURAL GAS.
CONTROL METHOD: POLLUTION PREVENTION USING 15% EXCESS AIR. NOX EMISSION IS BECAUSE OF FUEL OIL.
CONTROL METHOD: POLLUTION PREVENTION USING 15% EXCESS AIR. CO EMISSION IS BECAUSE OF NATURAL GAS.
<table>
<thead>
<tr>
<th>Chemical</th>
<th>Emission Rate</th>
<th>Control Method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>33.0000 PPMVD</td>
<td>Control Method: Pollution Prevention</td>
<td>CO emission is because of fuel oil. When output is below 123 MW limit, is 33 PPMVD and above 123 MW, limit is 20 PPMVD.</td>
</tr>
<tr>
<td>PM</td>
<td>0.0100 LB/MMBTU</td>
<td>Control Method: None</td>
<td>PM emission is because of natural gas.</td>
</tr>
<tr>
<td>PM</td>
<td>0.0170 LB/MMBTU</td>
<td>Control Method: None</td>
<td>PM emission is because of fuel oil. When gross output is below 123 MW, PM emission limit is 0.017 LB/MMBTU and above 123 MW is 0.013 LB/MMBTU.</td>
</tr>
<tr>
<td>VOC</td>
<td>0.0300 LB/MMBTU</td>
<td>Control Method: None</td>
<td>VOC emission is because of natural gas.</td>
</tr>
<tr>
<td>VOC</td>
<td>0.0055 LB/MMBTU</td>
<td>Control Method: None</td>
<td>VOC emission is because of No. 2 fuel oil.</td>
</tr>
<tr>
<td>SO2</td>
<td>0.0000 SEE</td>
<td>Control Method: Pollution Prevention</td>
<td>Low sulfur content fuel oil is used and cannot exceed 0.05 percent by weight.</td>
</tr>
</tbody>
</table>

NOTES: It is a new source and public hearing has been held for it.
COMPANY NAME/SITE LOCATION: TENUSKA GEORGIA PARTNERS, L.P.
GEORGE BROWN ROAD
FRANKLIN, GA 31634-
HEARD COUNTY

PERMIT/FILE NO. 4-11-149-0004-P-01-0

Determination Made By: GEORGIA DEPARTMENT OF NATURAL RESOURCES
Agency Contact Person: SUSAN JENKINS

SCHEDULING INFORMATION:

ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION 04/29/1998 ACT
PERMIT ISSUED 12/18/1998 ACT
START UP 05/01/2000 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME                  POLLUTANT NAME             CAPACITY

TURBINE, COMBUSTION, SIMPLE CYCLE, 6  160.0000 MW EA

PROCESS/COMPLIANCE NOTES:

6 TURBINES PERMITTED FOR NG AND NO. 2 FUEL OIL, NEITHER IS A PRIMARY FUEL.
SAME TURBINES, DIFFERENT FUEL, DIFFERENT EMISSION LIMITS FOR NG AND FUEL OIL.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
### Detailed Source Listing (Part B)

**RBLC ID No. GA-0069**

**REPORT DATE:** 06/24/1999  
**DATE ENTERED/UPDATED:** 06/23/1999

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
<th>COSTS ARE IN</th>
<th>COSTS ARE NOT VERIFIED BY AGENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>DOLLARS</td>
<td>AGENCY.</td>
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<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>DOLLARS</td>
<td>AGENCY.</td>
</tr>
<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<td>AGENCY.</td>
</tr>
<tr>
<td>PM</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>DOLLARS</td>
<td>AGENCY.</td>
</tr>
<tr>
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<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>DOLLARS</td>
<td>AGENCY.</td>
</tr>
<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>DOLLARS</td>
<td>AGENCY.</td>
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<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>DOLLARS</td>
<td>AGENCY.</td>
</tr>
<tr>
<td>SO2</td>
<td>CAPITAL COSTS: $0</td>
<td>O &amp; M COSTS: $0</td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): $0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------</td>
<td>----------------</td>
<td>----------------------</td>
<td>-------------------------------</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: ENCOGEN HAWAII, L.P.  
HAMAKUA SUGAR MILL  
HAINA, HI 96775-  

PERMIT/FILE NO. 0243-01-C  

EMISSION LIMITS (P: (STANDARDIZED)  
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF  

TURBINES, COMBUSTION, 2 EA  

PROCESS CODE 15.007  
SCC CODE 20100000  

PM  
CAS NO. PM  
0.0000  
CONTROL METHOD: POLLUTION PREVENTION  
LOW ASH AND LOW SULFUR FUELS, GOOD COMBUSTION DESIGN AND OPERATION  
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED  

CO  
CAS NO. 630080  
57.5000 PPMV  
CONTROL METHOD: POLLUTION PREVENTION  
GOOD COMBUSTION DESIGN  
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED  

VOC  
CAS NO. VOC  
6.5000 PPMV  
CONTROL METHOD: POLLUTION PREVENTION  
GOOD COMBUSTION DESIGN  
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED  

NOTES:
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H- 313

COMPANY NAME/SITE LOCATION: ENCOGEN HAWAII, L.P.
HAMAKUA SUGAR MILL
HAINA, HI 96775- COUNTY

PERMIT/FILE NO. 0243-01-C DETERMINATION MADE BY: HAWAII CLEAN AIR BRANCH
AGENCY CONTACT PERSON: STUART SHUJI P:

SCHEDULING INFORMATION: ESTIMATED/ACTUAL DATE

RECEIVED APPLICATION 12/09/1994 ACT
PERMIT ISSUED 06/08/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

TURBINES, COMBUSTION, 2 EA 23.0000 MW COMPLIANCE WAS NOT VERIFIED:

PROCESS/COMPLIANCE NOTES: NAPHTHA, LSFO, GASOLINE, SULFUR CONTENT NTE .05% BY WEIGHT.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCUL
OTHER METHOD:

PM CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: MAUI ELECTRIC COMPANY
MAALAEA GENERATION STATION
MAALAEA, HI 96753-

PERMIT/FILE NO. 0067-01-C
DATE OF PERMIT ISSUANCE-- 01/06/1998
START-UP DATE-- 12/31/1998

AIRS ID NO. 1500900500

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, COMBUSTION, 2 EA
PROCESS CODE 15.002
SCC CODE 20100101
THROUGHPUT 20.00 MW

BUSTION PM
0.0450 GR/DSCF @ 12% CO2
BACT-PSD

CAS NO. PM: 0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION DESIGN AND OPERATION

CO
44.0000 PPMVD@ 15% O2
CAS NO. 630080
44.0000 PPM @ 15% O2
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION DESIGN AND OPERATION

VOC
10.0000 PPMVD@ 15% O2
CAS NO. VOC
10.0000 PPM @ 15% O2
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION DESIGN
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
<th>COMPLIANCE VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINE, COMBUSTION, 2 EA</td>
<td></td>
<td>20.0000 MW</td>
<td>/ /</td>
</tr>
</tbody>
</table>

**COMPLIANCE WAS NOT VERIFIED**

**COMPLIANCE METHOD (Y/N):**
- STACK TEST: N
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N
- OTHER METHOD:

**PM**
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

**CO**
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0
VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: HAWAII ELECTRIC LIGHT CO. 
QUEEN KAABUMANU HIGHWAY 
KEAHOLE, HI 96740-
COUNTY 

PERMIT/FILE NO. 0007-01-C 

DETERMINATION MADE BY: HAWAII CLEAN AIR BRANCH 
(AGENCY) 
STUART SHUJI 
(AGENCY CONTACT PERSON) 

AIRS ID NO. 1500100013

Emission Limits (P: Standardized) 

<table>
<thead>
<tr>
<th>Throughput</th>
<th>Capacity</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBINE, COMBUSTION, GELM 2500, 2 EA</td>
<td>20.00 MW</td>
<td>SO2</td>
<td>79.0000 PPMVD @ 15% O2</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td>PROCESS CODE 15.002</td>
<td>SCC CODE 20100101</td>
<td>CAS NO. 7446095</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>COMBUSTION OF FUEL O OF 0.4% BY WEIGHT.</td>
</tr>
<tr>
<td>PM</td>
<td>0.0450 GR/DSCF @ 12% O2</td>
<td>BACT-PSD</td>
<td>CAS NO. PM</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
</tr>
<tr>
<td>VOC</td>
<td>2.5000 PPMVD @ 15% O2</td>
<td>BACT-PSD</td>
<td>CAS NO. VOC</td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
</tr>
</tbody>
</table>

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES: FINAL PERMIT HAS BEEN APPEALED. EAB REMANDED SOME AIR QUALITY DATA.
COMPANY NAME/SITE LOCATION: HAWAII ELECTRIC LIGHT CO.
QUEEN KA'AHUMANU HIGHWAY
KEAHOLE, HI 96740-

PERMIT/FILE NO. 0007-01-C

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/30/1992 ACT
PERMIT ISSUED 10/28/1997 ACT
START UP 06/01/2001 EST

PROCESS NAME                POLLUTANT NAME                CAPACITY

TURBINE, COMBUSTION, GELM 2500, 2 EA                           20.0000 MW

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COMPLIANCE WAS NOT VERIFIED.
<table>
<thead>
<tr>
<th>VOC</th>
<th>CAPITAL COSTS: $</th>
<th>0</th>
<th>COSTS ARE IN DOLLARS.</th>
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<tbody>
<tr>
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<td>O &amp; M COSTS: $</td>
<td>0</td>
<td>COSTS ARE NOT VERIFIED BY AGENCY.</td>
</tr>
<tr>
<td></td>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
<td>COSTS ARE NOT VERIFIED BY AGENCY.</td>
</tr>
<tr>
<td></td>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
COMPANY NAME/SITE LOCATION: CARGILL, INC.  
1 CARGILL DRIVE  
EDDYVILLE, IA 52553-5000  
MONROE COUNTY

PERMIT/FILE NO. SEE PROCESS NOTES

DETERMINATION MADE BY: IOWA DEPARTMENT OF NATURAL RESOURCES  
PETE HAMLIN  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

AIRS ID NO. 19-135-0005

EMISSION LIMITS (P:\S\)

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>CTRL METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBER DRYER SYSTEM 65.00 MMBTU/HR</td>
<td></td>
<td></td>
<td>PM</td>
<td>5.0000 LB/HR</td>
<td></td>
</tr>
<tr>
<td>process code 70.007</td>
<td></td>
<td></td>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>SCC code 3-02-007-54</td>
<td></td>
<td></td>
<td>CONTROL METHOD:</td>
<td>ADD WET SCRUBBER(S)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3/3 CONTROL OPTIONS EXAMINED/OPTI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOX 9.1000 LB/HR</td>
<td></td>
<td></td>
<td>CAS NO. 10102</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>CONTROL METHOD: BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
<td></td>
<td>3/3 CONTROL OPTIONS EXAMINED/OPTI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC 0.2000 LB/HR</td>
<td></td>
<td></td>
<td>CAS NO. VOC</td>
<td>0.0000</td>
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</tr>
<tr>
<td>CONTROL METHOD: NO CONTROLS FEASIBLE</td>
<td></td>
<td>3/3 CONTROL OPTIONS EXAMINED/OPTI</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
FRUCTOSE LIME ADDITION

PROCESS CODE 70.007
SCC CODE 3-02-999-99

3240.00 TON LIME/MONTH
PM 0.0050 GR/SCF
CAS NO. PM 99.000
CONTROL METHOD: ADD BAGFILTER
MODEL #: 72AV25 STYLE III MANUFACTURER: MAC

MATL HANDLING, FRUCTOSE PRECOAT UNLOADING

4530.00 TON PRECOAT/MONTH
PM 0.0050 GR/SCF
CAS NO. PM 99.000
CONTROL METHOD: ADD BAGFILTERS
MODEL #: 36BVBC-36 MANUFACTURER: FLEX KLEEN

MATL HANDLING, CORN RECEIVING I

14000.00 TON CORN/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-51
PM 0.0050 GR/SCF
CAS NO. PM 0.000
CONTROL METHOD: ADD BAGFILTERS
MODEL #: 376RF8 MANUFACTURER: CARTER DAY

MATL TRANSFER, STEEPHOUSE CONVEYING

10000.00 TON CORN/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-52
PM 0.0050 GR/SCF
CAS NO. PM 99.000
CONTROL METHOD: ADD BAGFILTERS
MODEL #: 48RF8 MANUFACTURER: CARTER DAY
MATL HANDLING, STEEPHOUSE ASPIRATION I

MATL HANDLING, CORN RECEIVING II

MATL HANDLING, STEEPHOUSE ASPIRATION II & III

MATL TRANSFER, GLUTEN CONVEYING I
MATL TRANSFER, GLUTEN CONVEYING II & III
10100.00 TONS/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-52
PM 0.0070 GR/S
CAS NO. PM 0.0070 GR/D.
CONTROL METHOD: ADD BAGFILTER
MODEL #: 96RT32-3
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL TRANSFER, GLUTEN SIZING
10100.00 TONS/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-52
PM 0.0050 GR/S
CAS NO. PM 0.0050 GR/D.
CONTROL METHOD: ADD BAGFILTER
MODEL #: 48RF10 MAN
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, FIBER HAMMERMILL ASPIRATION
10100.00 TONS/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-56
PM 0.0050 GR/S
CAS NO. PM 0.0050 GR/D.
CONTROL METHOD: ADD BAGFILTER
MODEL #: 124RF10
MODEL #: 48RF8 AND MAC 96MCF153
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, PELLET COOLING I
10100.00 TONS/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-56
PM 0.0200 GR/S
CAS NO. PM 0.0200 GR/D.
CONTROL METHOD: ADD BAGFILTER
MODEL #: CD 124 RF10
1/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999

MATL TRANSFER, GLUTEN HAMMERMILL RECYCLE

PROCESS CODE 70.007
SCC CODE 3-02-007-56

10100.00 TONS/DAY

PM
CAS NO. PM
0.0050 GR/SCF
0.0050 GR/D.

CONTROL METHOD: ADD
BAGFILTER
MODEL #: 12LRJ60
MANUFACTURER: CARTER DAY

MATL TRANSFER, FEEDHOUSE CONVEYOR ASPIRATION

PROCESS CODE 70.007
SCC CODE 3-02-007-52

10100.00 TONS/DAY

PM
CAS NO. PM
0.0050 GR/SCF
0.0050 GR/D.

CONTROL METHOD: ADD
BAGFILTER
MODEL #: 124RF8
MANUFACTURER: CARTER DAY
MODEL #: 96MCF22
MANUFACTURER: MAC

MATL HANDLING, TRUCK FEED LOADOUT

PROCESS CODE 70.007
SCC CODE 3-02-007-55

1500.00 TONS/DAY

PM
CAS NO. PM
0.0050 GR/SCF
0.0050 GR/D.

CONTROL METHOD: ADD
BAGFILTER
MODEL #: 144MCF255
MANUFACTURER: MAC

MATL HANDLING, PELLET COOLING (3)

PROCESS CODE 70.007
SCC CODE 3-02-007-52

10100.00 TONS/DAY

PM
CAS NO. PM
0.0200 GR/SCF
0.0200 GR/D.

CONTROL METHOD: ADD
BAGFILTER
MODEL #: 276 RFW-10
MANUFACTURER: TORIT DAY
\textbf{REPORT DATE: 06/24/1999}  \textbf{DETAILED SOURCE LISTING (Part A)}  \textbf{RBLC ID No. IA-0029}  \textbf{PAGE H-327}  \\

\textbf{MATL HANDLING, TRUCK/RAIL FEED LOADOUT II}  \hspace{2cm} 2100.00 TONS/DAY  \\

\begin{tabular}{llll}
PROCESS CODE & 70.007 \\
SCC CODE & 3-02-007-55 \\
PM & 0.0100 GR/SCF  \\
CAS NO. PM & 0.0100 GR/D.  \\
CONTROL METHOD: & ADD  \\
BAGFILTER &  \\
MODEL #: & 8-40-395 MO:  \\
1/1 CONTROL OPTION SELECTED &  \\
\end{tabular}  \

\textbf{MATL HANDLING, FEED LOADOUT III}  \hspace{2cm} 3600.00 TONS/DAY  \\

\begin{tabular}{llll}
PROCESS CODE & 70.007 \\
SCC CODE & 3-02-007-55 \\
PM & 0.0100 GR/SCF  \\
CAS NO. PM & 0.0100 GR/D.  \\
CONTROL METHOD: & ADD  \\
BAGFILTER &  \\
\end{tabular}  \

\textbf{MATL HANDLING, FEED LOADOUT IV}  \hspace{2cm} 3600.00 TONS/DAY  \\

\begin{tabular}{llll}
PROCESS CODE & 70.007 \\
SCC CODE & 3-02-007-55 \\
PM & 0.0100 GR/SCF  \\
CAS NO. PM & 0.0100 GR/D.  \\
CONTROL METHOD: & ADD  \\
BAGFILTER &  \\
MANUFACTURER: STEELCRAFT &  \\
1/1 CONTROL OPTION SELECTED &  \\
\end{tabular}  \\

\textbf{GLUTEN FLASH DRYERS (2)}  \hspace{2cm} 25.00 MM BTU/HR BURN. NAT.G  \\

\begin{tabular}{llll}
PROCESS CODE & 70.007 \\
SCC CODE & 3-02-007-54 \\
PM & 0.0250 GR/SCF  \\
CAS NO. PM & 0.0250 GR/D.  \\
CONTROL METHOD: & ADD  \\
WET SCRUBBER &  \\
MODEL #: & 34/96 MANU:  \\
3/3 CONTROL OPTION SELECTED &  \\
\end{tabular}  \\

\begin{tabular}{llll}
NOX & 3.5000 LB/H  \\
CAS NO. & 10102  \\
CONTROL METHOD: & POL  \\
LOW NOX BURNER &  \\
MANUFACTURER: BARR-M &  \\
3/3 CONTROL OPTION SELECTED &  \\
\end{tabular}
VOC                              0.0700 LB/HR                     BACT-PSD
CAS NO. VOC                      0.0000                             0.0000
CONTROL METHOD: NO CONTROLS FEASIBLE

SO2                              3.2500 LB/HR                     BACT-PSD
CAS NO.                          0.0000                             0.0000
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
WET SCRUBBER WITH CAUSTIC

CORN GERM DRYERS & COOLERS (2)  10100.00 TON CORN/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-54
PM                               0.0100 GR/SCF                    BACT-PSD
CAS NO. PM                       0.0050 GR/DSCF                    99.000
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
CYCLONE SCRUBBER
MODEL #: HV90; CUSTOM FABRICATED
MANUFACTURER: AIRCON; WINBCO
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SO2                              1.2500 LB/HR                     BACT-PSD
CAS NO.                          0.0000                             0.0000
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
WET SCRUBBER WITH CAUSTIC

MATL TRANSFER, STEEPHOUSE CONVEYING  10100.00 TON CORN/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-52
PM                               0.0050 GR/SCF                    BACT-PSD
CAS NO. PM                       0.0050 GR/D                       99.000
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
BAGFILTERS
MODEL #: 48RF8; MANUFACTURER: CARTER DAY
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
<table>
<thead>
<tr>
<th>Equipment</th>
<th>Rate (Ton GERM/DAY)</th>
<th>Process Code</th>
<th>SCC Code</th>
<th>CAS Number PM</th>
<th>CAS Number PM/D</th>
<th>Control Method</th>
<th>Manufacturer</th>
<th>Options Examined/Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEAL DRYER/COOLER</td>
<td>1500.00</td>
<td>70.007</td>
<td>3-02-007-54</td>
<td>PM</td>
<td>0.0100</td>
<td>ADD-ON CONTROL EQUIPMENT</td>
<td>STEELCRAFT - AMERICAN AIRFILTER</td>
<td>3/3</td>
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<td>CYCLONE SCRUBBER MODEL #: HE-1 MANUFACTURER: STEELC</td>
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<tr>
<td>MATL TRANSFER, GERM CAKE CONVEYOR</td>
<td>1500.00</td>
<td>70.007</td>
<td>3-02-007-52</td>
<td>PM</td>
<td>2.0000</td>
<td>ADD-ON CONTROL EQUIPMENT</td>
<td>STEELCRAFT</td>
<td>4/4</td>
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<td>CYCLONE MODEL #: HE-1 MANUFACTURER: STEELC</td>
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<tr>
<td>CORN OIL EXTRACTION</td>
<td>1500.00</td>
<td>70.007</td>
<td>3-02-019-06</td>
<td>VOC</td>
<td>0.0000</td>
<td>ADD MINERAL OIL SCRUBBER</td>
<td>CROWN</td>
<td>1/1</td>
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<tr>
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<td>MODEL #: 72AVR39 MANUFACTURER: CROWN</td>
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<tr>
<td>GERM STORAGE ASPIRATION</td>
<td>1500.00</td>
<td>70.007</td>
<td>3-02-007-51</td>
<td>PM</td>
<td>0.0050</td>
<td>ADD BAGFILTER</td>
<td>MAC</td>
<td>1/1</td>
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<td>MODEL #: 72AVR39 MANUFACTURER: CROWN</td>
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</tr>
</tbody>
</table>
MATL TRANSFER, MEAL CONVEYING

PROCESS CODE 70.007  
SCC CODE 3-02-007-52

1500.00 TON GERM PROCES./DAY

PM  
CAS NO. PM  
0.0050 GR/SCF  
0.0050 GR/D.

CONTROL METHOD: ADD BAGFILTERS
MODEL #: 120MCF88 M.
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CORN GERM MEAL STORAGE SILO

PROCESS CODE 70.007  
SCC CODE 3-02-007-52

1500.00 TON GERM PROCES./DAY

PM  
CAS NO. PM  
0.0050 GR/SCF  
0.0050 GR/D.

CONTROL METHOD: ADD BAGFILTERS
MODEL #: 72AVR14 MAC
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

FLAKER/CONDITIONER

PROCESS CODE 70.007  
SCC CODE 3-02-007-56

1500.00 TON GERM PROCES./DAY

PM  
CAS NO. PM  
2.0000 GR/SCF  
2.0000 GR/D.

CONTROL METHOD: ADD SCRAUBER CYCLONE
MODEL #: HE-1 CHEMIPRO HT
MANUFACTURER: STEELCRAFT
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, EXPPELLER ASPIRATION (3)

PROCESS CODE 70.007  
SCC CODE 3-02-019-06

1500.00 TON GERM PROCES./DAY

PM  
CAS NO. PM  
0.0100 GR/SCF  
0.0100 GR/D.

CONTROL METHOD: ADD SCRAUBER
MANUFACTURER: WINBCO CUSTOM FABRICATED
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED
MATL TRANSFER, CORN GERM RECEIVER

PROCESS CODE 70.007
SCC CODE 3-02-007-52

1500.00 TON GERM PROCES./DAY

PM
CAS NO. PM
0.0200 GR/S
0.0200 GR/D.
CONTROL METHOD: ADD BAGFILTERS
MODEL #: 72AVR99 MAKER
1/1 CONTROL OPTION

RECTIFYING COLUMN VENT

PROCESS CODE 64.003
SCC CODE 3-01-250-10

164000.00 GAL DEN. ETHAN./DAY

ETHANOL
CAS NO. 64-17-5
0.8500 LB/H
0.0000
CONTROL METHOD: ADD SCRUBBER
MANUFACTURER: HENDER
5/3 CONTROL OPTION

STILLAGE EVAPORATOR VENT

PROCESS CODE 64.003
SCC CODE 3-01-250-10

164000.00 GAL DEN. ETHAN./DAY

ETHANOL
CAS NO. 64-17-5
0.6700 LB/H
0.0000
CONTROL METHOD: ADD SCRUBBER
MANUFACTURER: HENDER
5/3 CONTROL OPTION

MATL HANDLING, ETHANOL LOADOUT

PROCESS CODE 64.005
SCC CODE 3-01-250-10

164000.00 GAL DEN. ETHAN./DAY

ETHANOL
CAS NO. 64-17-5
7.0700 LB/H
0.0000
CONTROL METHOD: ADD CONDENSER
MANUFACTURER: EDWARDS
5/2 CONTROL OPTION
REPORT DATE: 06/24/1999

MATL STORAGE, ETHANOL TANK FARM

PROCESS CODE 64.004
SCC CODE 4-07-008-10

1170000.00 GAL STORAGE CAPACITY

ETHANOL
CAS NO. 64-17-5

6.0000 TON/YR

CONTROL METHOD: POLLUTION PREVENTION
FLOATING ROOFS
MANUFACTURER: WINBCO

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL TRANSFER, LIME CONVEYOR

PROCESS CODE 70.007
SCC CODE 3-02-007-52

9000.00 TONS/MONTH

PM
CAS NO. PM

0.0050 GR/SCF
0.0050 GR/D.

CONTROL METHOD: ADD BAGFILTER
MODEL #: B4-BVBBS-25
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL TRANSFER, PRECOAT CONVEYOR

PROCESS CODE 70.007
SCC CODE 3-02-007-52

4320.00 TONS/MONTH

PM
CAS NO. PM

0.0050 GR/SCF
0.0050 GR/D.

CONTROL METHOD: ADD BAGFILTER
MODEL #: 36BVBC-36 II
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, MIXING TANK ASPIRATION

PROCESS CODE 70.007
SCC CODE 3-02-007-52

13320.00 TONS/MONTH

PM
CAS NO. PM

0.0050 GR/SCF
0.0050 GR/D.

CONTROL METHOD: ADD BAGFILTER
MODEL #: 72AVS16
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
CITRIC ACID SOLVENT EXTRACTION

PROCESS CODE 70.007
SCC CODE 3-02-007-52

114000.00 GAL
VOC 2.0000 LB/H
CAS NO. VOC 0.0000
CONTROL METHOD: ADD
CONDENSER
MANUFACTURER: X-CHANGER
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, DRY CRYSTAL ASPIRATION I

PROCESS CODE 70.007
SCC CODE 3-02-007-52

150.00 TONS/DAY
PM 1.0000 GR/SCF
CAS NO. PM 1.0000 GR/DSCF
CONTROL METHOD: ADD
SCRAUBBER
MANUFACTURER: SULZER
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, DRY CRYSTAL ASPIRATION II

PROCESS CODE 70.007
SCC CODE 3-02-007-52

72.00 TONS/DAY
PM 0.0150 GR/SCF
CAS NO. PM 0.0150 GR/DSCF
CONTROL METHOD: ADD
SCRUBBER
MANUFACTURER: SULZER
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

DRY CRYSTAL COOLER

PROCESS CODE 70.007
SCC CODE 3-02-007-52

176.00 TONS/DAY
PM 0.0200 GR/SCF
CAS NO. PM 0.0200 GR/DSCF
CONTROL METHOD: ADD
SCRUBBER
MANUFACTURER: SULZER
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED
CARBON REACTIVATION FURNACE

PROCESS CODE 70.007
SCC CODE 3-02-007-52

PM
CAS NO. PM
0.0100 GR/SCF
0.0100 GR/DSCF
CONTROL METHOD: ADD
SCRUBBER
MANUFACTURER: W.W. SLY MFY. CO
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOX
CAS NO. 10102
1.4000 LB/H
0.0000
CONTROL METHOD: POL
LOW NOX BURNERS
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC
CAS NO. VOC
0.0420 LB/H
0.0000
CONTROL METHOD: NO CONTROLS FEASIBLE
6/6 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL STORAGE, SHUTDOWN TANK

PROCESS CODE 70.007
SCC CODE 3-02-007-52

VOC
CAS NO. VOC
3.0000 LB/H
0.0000
CONTROL METHOD: POL
NITROGEN BLANKET
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SWEETENER DRYER/COOLER

PROCESS CODE 70.007
SCC CODE 3-02-007-52

PM
CAS NO. PM
3.3100 LB/HR
0.0000
CONTROL METHOD: ADD
SCRUBBER
MANUFACTURER: NIRO
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOX                              7.0000 LB/HR                     BACT-PSD
CAS NO. 10102                    0.0000                            85.000
CONTROL METHOD:  POLLUTION PREVENTION
LOW NOX BURNERS
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC                              0.0390 LB/HR                     BACT-PSD
CAS NO. VOC                      0.0000                             0.000
CONTROL METHOD:  NO CONTROLS FEASIBLE
6/6 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING & TRANSFER, SWEETENER SIFTER/CONVEYR 134000.00 LB/HR
PROCESS CODE 70.007
SCC CODE 3-02-007-52

PM                               0.0050 GR/SCF                    BACT-PSD
CAS NO. PM                       0.0050 GR/DSCF                    0.000
CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT
BAGFILTER
MODEL #: 96AVR21
MANUFACTURER: MAC
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SWEETENER HAMMERMILL 134400.00 LB/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-56

PM                               0.0050 GR/SCF                    BACT-PSD
CAS NO. PM                       0.0050 GR/DSCF                    99.000
CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT
BAGFILTER
MODEL #: CB-102-100-111G
MANUFACTURER: ULTRA INDUSTRIES
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING, SILO BIN ASPIRATION 134400.00 LB/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-52

PM                               0.0050 GR/SCF                    BACT-PSD
CAS NO. PM                       0.0050 GR/DSCF                    1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MODEL #: 96ST36
REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part A)
RBLC ID No. IA-0029

MATL HANDLING, SWEETENER BULK LOADING/BAGGING
134400.00 LB/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-55
PM
CAS NO. PM
0.0050 GR/SCF
0.0050 GR/DSCF
CONTROL METHOD: ADD BAGFILTER
MODEL #: 72ST49 MANUFACTURER: MAC
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

MATL HANDLING & TRANSFER, SWEETENER RECYCLE FILTER
134400.00 LB/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-52
PM
CAS NO. PM
0.0050 GR/SCF
0.0050 GR/DSCF
CONTROL METHOD: ADD BAGFILTER
MODEL #: 120BVA-36TA MANUFACTURER: NIRO
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CONDITIONING DRYER
134400.00 LB/DAY
PROCESS CODE 70.007
SCC CODE 3-02-007-54
PM
CAS NO. PM
0.0050 GR/SCF
0.0050 GR/DSCF
CONTROL METHOD: ADD BAGFILTER
MODEL #: 120MCF572 MANUFACTURER: MAC
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CARGILL, INC.
1 CARGILL DRIVE
EDDYVILLE, IA 52553-5000
MONROE COUNTY

PERMIT/FILE NO. SEE PROCESS NOTES
DETERMINATION MADE BY: IOWA DEPARTMENT OF NATURAL RESOURCES
AGENCY CONTACT PERSON: PETE HAMLIN

SCHEDULING INFORMATION:
RECEIVED APPLICATION 11/08/1994 ACT
PERMIT ISSUED 09/25/1995 ACT
START UP 09/01/1996 EST
COMPLIANCE VERIFICATION 04/01/1997 EST

THROUGHPUT

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBER DRYER SYSTEM</td>
<td></td>
<td>65.0000 MMBTU/HR</td>
</tr>
</tbody>
</table>

PROCESS/COMPLIANCE NOTES:
PERMIT #: 95-A-403 FIBER DRYING SYSTEM WITH THERMAL OXIDIZER CONTROL THROUGHPUT: 10,100 TONS CORN/DAY

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION: N
OTHER TEST: N

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
FRUCTOSE LIME ADDITION

PROCESS/COMPLIANCE NOTES:

3240.0000 TON LIME/MONTH

PERMIT #: 83-A-112-1S
SYSTEM ASPRITATES A PROCESS IN WHICH LIME IS ADDED TO A STARCH SLURRY TANK FOR THE CONVERSION OF STARCHES TO SUGARS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC

PROCESS/COMPLIANCE NOTES:

PM

PROCESS/COMPLIANCE NOTES:

MATL HANDLING, FRUCTOSE PRECOAT UNLOADING

4530.0000 TON PRECOAT/MONTH

PERMIT #: 83-A-113-1S
PRECOAT UNLOADED FROM RAILROAD CARS OR TRUCKS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
REPORT DATE: 06/24/1999

RBLC ID No. IA-0029

**MATL HANDLING, CORN RECEIVING I**

**PROCESS/COMPLIANCE NOTES:**

PERMIT #: 83-A-090-1S  TRUCK UNLOAD DUMP, CONVEYORS, AND CRACK FOR RECEIVING CORN  THE THROUGHPUT IS THE RECEIVING CAPACITY : 14000 TON CORN/DAY  
COMPLIANCE METHOD (Y/N): STACK TEST: N  INSPECTION: N  CALCULATED COSTS ARE NOT VERIFIED BY AGENCY.  
OTHER METHOD:

**CAPITAL COSTS:** $ 0  
**O & M COSTS:** $ 0  
**ANNUALIZED COSTS:** $ 0  
**COST EFFECTIVENESS ($/TON):** 0

**MATL TRANSFER, STEEPHOUSE CONVEYING**

**PROCESS/COMPLIANCE NOTES:**

PERMIT #: 83-A-092-1S  ASPIRATION SYSTEM FOR FEED DRAG, CRACK COLLECTING SCREW, AND DUST COLLECTION SCREW IN THE CORN CLEANING PROCESS 10000 TON CORN/DAY  
COMPLIANCE METHOD (Y/N): STACK TEST: N  INSPECTION: N  CALCULATED COSTS ARE NOT VERIFIED BY AGENCY.  
OTHER METHOD:

**CAPITAL COSTS:** $ 0  
**O & M COSTS:** $ 0  
**ANNUALIZED COSTS:** $ 0  
**COST EFFECTIVENESS ($/TON):** 0
MATL HANDLING, STEEPHOUSE ASPIRATION I

PROCESS/COMPLIANCE NOTES:

PERMIT #: 83-A-093-1S ASPIRATION FOR 14 STOPPING TANKS, MILL AND CORN HOPPER. THE THROUGHPUT IS THE STEEPING CAPACITY OF 10100 TONS CORN/DAY.

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

COST EFFECTIVENESS ($/T): 0

PM

MATL HANDLING, CORN RECEIVING II

PROCESS/COMPLIANCE NOTES:

PERMIT #: 90-A-352-1S ASPIRATION OF TRUCK AND RAILCAR UNLOAD CONVEYORS, GARNER SCALE AND UNLOAD HOPPER. THROUGHPUT IS RECEIVING CAPACITY.

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

COST EFFECTIVENESS ($/T): 0

PM
MATL HANDLING, STEEPHOUSE ASPIRATION II & III

PROCESS/COMPLIANCE NOTES: 10100.0000 TON CORN/DAY EA. COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 90-A-354-1S, 95-A-404 ASPIRATION FOR STEEPING TANK PROCESS LINES

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

PM
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

MATL TRANSFER, GLUTEN CONVEYING I

PROCESS/COMPLIANCE NOTES: 10100.0000 TONS/DAY COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 83-A-099-1S CONVEYING FROM COOLER TO STORAGE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

PM
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

MATL TRANSFER, GLUTEN CONVEYING II & III

PROCESS/COMPLIANCE NOTES: 10100.0000 TONS/DAY COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 95-A-406 + 407 PNEUMATICALLY CONVEYED GLUTEN
MATERIAL TRANSFER, GLUTEN SIZING

PROCESS/COMPLIANCE NOTES:

PERMIT #: 83-A-098-1S CONVEYING GLUTEN FROM COOLER TO FILTER

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

MATERIAL HANDLING, FIBER HAMMERMILL ASPIRATION

PROCESS/COMPLIANCE NOTES:

PERMIT #: 83-A-100-1S, 95-A-409,-410 SIFTER/HAMMERMILL WITH:

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
MATL HANDLING, PELLET COOLING I

PROCESS/COMPLIANCE NOTES:

PERMIT #: 83-A-102-1S PELLETS COOLED

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N

COMPLIANCE WAS NOT VERIFIED.

MATL TRANSFER, GLUTEN HAMMERMILL RECYCLE

PROCESS/COMPLIANCE NOTES:

PERMIT #: 83-A-120-1S CONVEY FROM HAMMERMILL TO HAMMERMILL R/ SIFTER

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N

COMPLIANCE WAS NOT VERIFIED.
MATL TRANSFER, FEEDHOUSE CONVEYOR ASPIRATION

PROCESS/COMPLIANCE NOTES:

PERMIT #: 83-A-121-1S, 95-A-411

COMPLIANCE WAS NOT VERIFIED.

MATL HANDLING, TRUCK FEED LOADOUT

PROCESS/COMPLIANCE NOTES:

PERMIT #: 88-A-061-1S

COMPLIANCE WAS NOT VERIFIED.

MATL HANDLING, PELLET COOLING (3)

PROCESS/COMPLIANCE NOTES:

PERMIT #: 93-A-082-1S, -083-1S, -084-1S
MATL HANDLING, TRUCK/RAIL FEED LOADOUT II

PROCESS/COMPLIANCE NOTES:

PERMIT #: 94-A-145-1S  FEED LOADOUT - TRUCKS AND RAIL ASPIRATION

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N  
INSPECTION:  N  
CALCULATION:  N
OTHER METHOD:

CAPITAL COSTS:  $  0
O & M COSTS:  $  0
ANNUALIZED COSTS:  $  0
COST EFFECTIVENESS ($/TON):  0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

MATL HANDLING, FEED LOADOUT III

2100.0000 TONS/DAY

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N  
INSPECTION:  N  
CALCULATION:  N
OTHER METHOD:

CAPITAL COSTS:  $  0
O & M COSTS:  $  0
ANNUALIZED COSTS:  $  0
COST EFFECTIVENESS ($/TON):  0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
MATL HANDLING, FEED LOADOUT IV

PROCESS/COMPLIANCE NOTES:

PERMIT #: 95-A-408  FEED LOADOUT

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N      CALCULATION: N        OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

GLUTEN FLASH DRYERS (2)

PROCESS/COMPLIANCE NOTES:

PERMIT #: 90-A-356-1S, 95-A-412  DRYING OF GLUTEN PRODUCT
THROUGHPUT CAPACITY/SIZE: STEEPING CAPACITY OF 10100 TON CORN /

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N      CALCULATION: N        OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
**REPORT DATE:** 06/24/1999

**RBLC ID No. IA-0029**

**NOX**
- **CAPITAL COSTS:** $0
- **O & M COSTS:** $0
- **ANNUALIZED COSTS:** $0
- **COST EFFECTIVENESS ($/TON):** 0

**VOC**
- **CAPITAL COSTS:** $0
- **O & M COSTS:** $0
- **ANNUALIZED COSTS:** $0
- **COST EFFECTIVENESS ($/TON):** 0

**SO2**
- **CAPITAL COSTS:** $0
- **O & M COSTS:** $0
- **ANNUALIZED COSTS:** $0
- **COST EFFECTIVENESS ($/TON):** 0

**CORN GERM DRYERS & COOLERS (2)**

- **PROCESS/COMPLIANCE NOTES:**

  **PERMIT #:** 90-A-355-1S  
  **CORN GERM IS DRIED AND COOLED**  
  **THROUPUT CAPACITY/SIZE:** STEEPING CAPACITY OF 10100 TON CORN/DAY

  **COMPLIANCE METHOD (Y/N):**
  - **STACK TEST:** N
  - **INSPECTION:** N
  - **CALCULATION:** N
  - **OTHER TEST:** N

**PM**
- **CAPITAL COSTS:** $0
- **O & M COSTS:** $0
- **ANNUALIZED COSTS:** $0
- **COST EFFECTIVENESS ($/TON):** 0

**SO2**
- **CAPITAL COSTS:** $0
- **O & M COSTS:** $0
- **ANNUALIZED COSTS:** $0
- **COST EFFECTIVENESS ($/TON):** 0
MATL TRANSFER, STEEPHOUSE CONVEYING

10100.0000 TON CORN/DAY

COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 95-A-414

TRANSPORT AND HANDLING OF PROCESSED GRAIN

THROUGHPUT CAPACITY/SIZE: STEEPING CAPACITY OF 10100 TON CORN/DAY

COMPLIANCE METHOD (Y/N):

STACK TEST: N

INSPECTION: N

CALCULATION: N

OTHER TEST: N

OTHER METHOD:

PM

CAPITAL COSTS: $ 0

O & M COSTS: $ 0

ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0

MEAL DRYER/COOLER

1500.0000 TON GERM/DAY

COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 91-A-112-1S

GERM CAKE IS DRIED AND COOLED

COMPLIANCE METHOD (Y/N):

STACK TEST: N

INSPECTION: N

CALCULATION: N

OTHER TEST: N

OTHER METHOD:

PM

CAPITAL COSTS: $ 0

O & M COSTS: $ 0

ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0

MATL TRANSFER, GERM CAKE CONVEYOR

1500.0000 TON GERM/DAY

COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 91-A-113-1S

GERM CAKE IS TRANSPORTED FROM THE COOK EXPPELLERS TO THE EXTRACTOR VIA A CONVEYOR
CORN OIL EXTRACTION

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-114-1S MINERAL OIL SCRUBBER SYSTEM AND FUGITIVE HEXANE EMISSIONS FROM THE EXTRACTION PROCESS THROUGHPUT CAPACITY/SIZE:

HEXANE/DAY

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

CORN OIL EXTRACTION

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-117-1S GERM RECEIVED FROM OUTSIDE SOURCES IS STORED IN A SILO

GERM STORAGE ASPIRATION

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-117-1S GERM RECEIVED FROM OUTSIDE SOURCES IS STORED IN A SILO
COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER METHOD:

PM
CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

MATL TRANSFER, MEAL CONVEYING
PERMIT #:  91-A-110-1S  MEAL IS PNEUMATICALLY CONVEYED TO A PEL
PROCESS
COMPLIANCE WAS NOT VERIFIED.

CORN GERM MEAL STORAGE SILO
PERMIT #:  93-A-063-1S  CORN GERM MEAL IS STORED IN A SILO BEFORE USE IN
FEED OR SOLD
COMPLIANCE WAS NOT VERIFIED.
FLAKER/CONDITIONER

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-108-1S  CONDITIONING OF CORN GERM PRIOR TO CORN EXPPELLING

COMPLIANCE METHOD (Y/N):  STACK TEST:  N  INSPECTION:  N  CALCULATION:  N  OTHER TEST:  N
OTHER METHOD:

MATL HANDLING, EXPPELLER ASPIRATION (3)

PROCESS/COMPLIANCE NOTES:


COMPLIANCE METHOD (Y/N):  STACK TEST:  N  INSPECTION:  N  CALCULATION:  N  OTHER TEST:  N
OTHER METHOD:
MATL TRANSFER, CORN GERM RECEIVER

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-111-1S  CORN GERM IS PNEUMATICALLY CONVEYED FROM STORAGE TO THE PREPARATION BUILDING

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N
OTHER METHOD:

PM
CAPITAL COSTS:  $0
O & M COSTS:  $0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS:  $0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0

RECTIFYING COLUMN VENT

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-234-1S  LOW CONCENTRATIONS OF ETHANOL VAPORS WHICH HAVE NOT CONDENSED OUT AFTER THE RECTIFYING COLUMN

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N
OTHER METHOD:

ETHANOL
CAPITAL COSTS:  $0
O & M COSTS:  $0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS:  $0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0

STILLAGE EVAPORATOR VENT

PROCESS/COMPLIANCE NOTES:

PERMIT #: 91-A-235-1S  EVAPORATOR USED TO VOLATIZE OFF ETHANOL FROM FERMENTOR BOTTOMS

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N
OTHER METHOD:
COMPLIANCE METHOD (Y/N): N
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

ETHANOL

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TQN): 0

MATL HANDLING, ETHANOL LOADOUT

PERMIT #: 91-A-236-1S
DENATURED ETHANOL LOADED INTO TRUCKS OR RAILCARS FOR SHIPMENT

COMPLIANCE METHOD (Y/N): N
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

ETHANOL

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TQN): 0

MATL STORAGE, ETHANOL TANK FARM

PERMIT #: 91-A-237-1S
ETHANOL MIXED WITH DENATURANT IS STORED IN TANKS

COMPLIANCE METHOD (Y/N): N
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
ETHANOL

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

MATL TRANSFER, LIME CONVEYOR

9000.0000 TONS/MONTH COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:

PERMIT #: 88-A-105-1S CONVEYING LIME PRECOAT TO HOPPER

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

MATL TRANSFER, PRECOAT CONVEYOR

4320.0000 TONS/MONTH COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:

PERMIT #: 88-A-108-1S CONVEYING PRECOAT

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
MATL HANDLING, MIXING TANK ASPIRATION

13320.0000 TONS/MONTH

PERMIT #: 88-A-109-1S ASPIRATES MIXING TANKS

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

PERMIT #: 88-A-109-1S ASPIRATES MIXING TANKS

COMPLIANCE METHOD (Y/N):  
STACK TEST:  N 
INSPECTION:  N 
CALCULATION:  N 
OTHER METHOD:

PM

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

CITRIC ACID SOLVENT EXTRACTION

114000.0000 GAL

PERMIT #: 93-A-005-1S CITRIC ACID SEPARATION

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

PERMIT #: 93-A-005-1S CITRIC ACID SEPARATION

COMPLIANCE METHOD (Y/N):  
STACK TEST:  N 
INSPECTION:  N 
CALCULATION:  N 
OTHER METHOD:

VOC

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

MATL HANDLING, DRY CRYSTAL ASPIRATION I

150.0000 TONS/DAY

PERMIT #: 88-A-111-1S CRYSTAL HANDLING

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
MATL HANDLING, DRY CRYSTAL ASPIRATION II

PROCESS/COMPLIANCE NOTES:

PM

COST EFFECTIVENESS ($/TON): 0

DRY CRYSTAL COOLER

PROCESS/COMPLIANCE NOTES:

PM

COST EFFECTIVENESS ($/TON): 0
CARBON REACTIVATION FURNACE

PROCESS/COMPLIANCE NOTES:

PERMIT #: 95-A-420 CARBON REACTIVATION

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

MATL STORAGE, SHUTDOWN TANK

PROCESS/COMPLIANCE NOTES:

PERMIT #: 95-A-069-1S SHUTDOWN STORAGE TANK
SWEETENER DRYER/COOLER

PROCESS/COMPLIANCE NOTES:

PERMIT #: 93-A-065-1S

COMPLIANCE WAS NOT VERIFIED.
MATL HANDLING & TRANSFER, SWEETENER SIFTER/CONVEYOR

PROCESS/COMPLIANCE NOTES:

PERMIT #: 93-A-066-1S SIFTING AND SWEETENER CONVEYING

COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 93-A-067-1S MILLING SWEETENERS

COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 93-A-068-1S STORAGE BIN ASPIRATION

COMPLIANCE WAS NOT VERIFIED.
RBLC ID No. IA-0029
REPORT DATE: 06/24/1999

DETAIL SOURCE LISTING (Part B)

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD: N

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

MATL HANDLING, SWEETENER BULK LOADING/BAGGING
MATL HANDLING & TRANSFER, SWEETENER RECYCLE FILTER
PROCESS/COMPLIANCE NOTES:
COMPLIANCE WAS NOT VERIFIED.

PERMIT #: 93-A-070-1S BULK LOADING/BAGGING
PERMIT #: 93-A-071-1S TRANSFERRING SWEETENER

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
CONDITIONING DRYER

PROCESS/COMPLIANCE NOTES:

PERMIT #: 95-A-427  STEAM TUBE DRYING

COST EFFECTIVENESS ($/TON): 0

COMPLIANCE WAS NOT VERIFIED.

COSTS ARE IN DOLLARS.

COSTS ARE NOT VERIFIED BY AGENCY.
<table>
<thead>
<tr>
<th>Processes Subject to This Permit</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>Spray Line Wood Furniture</td>
<td>0.00</td>
<td>VOC</td>
<td>215.0000 T/Y</td>
<td>BACT</td>
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</table>

Control Method: Pollution Prevention, High Transfer Efficiency

Notes: Facility is not in compliance for ozone monitoring.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: OMEGA CABINETS
1205 PETERS DRIVE
WATERLOO, IA 50703-

BLACK HAWK COUNTY


DETERMINATION MADE BY: IOWA DEPARTMENT OF NATURAL RESOURCES
AGENCY CONTACT PERSON: KAREN KUHN

SCHEDULING INFORMATION:
RECEIVED APPLICATION 11/20/1996 EST
PERMIT ISSUED 04/10/1998 ACT
START UP 10/15/1995 ACT
COMPLIANCE VERIFICATION / / EST

THROUGHPUT

<table>
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<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>SPRAY LINE WOOD FURNITURE</td>
<td>VOC</td>
<td>0.0000</td>
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</table>

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
LIMITED TO 215 TPY VOC, ENTIRE LINE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: Y
OTHER METHOD: RECORDKEEPING

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
Company Name/Site Location: Cargill - Eddyville
1 Cargill Drive
Eddyville, IA 52553 - Monroe County

Permit/File No. 68-09-001

Determination Made By: Iowa Department of Natural Resources
Pete Hamlin
(515) 281-8852

Airs ID No. 19-135-0000

Emission Limits (Primary)

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<tr>
<td></td>
<td></td>
<td>SO2</td>
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- Mill Aspiration II
  - Process Code 70.007
    - SCC Code 2046
    - Control Method: Add
    - Wet Scrubber with Ca /
FIBER FLASH DRYER

PROCESS CODE 70.007
SCC CODE 2046

80.00 MMBTU/H

SO2 10.0000 LB/H
CAS NO. 0.0000

CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
WET SCRUBBER WITH CAUSTIC
3/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:**  CARGILL - EDDYVILLE
1 CARGILL DRIVE
EDDYVILLE, IA 52553-
MONROE COUNTY

**PERMIT/FILE NO.** 68-09-001

**PERMIT/FILE NO.** 68-09-001

**DETERMINATION MADE BY:**  IOWA DEPARTMENT OF NATURAL RESOURCES

**AGENCY CONTACT PERSON:**  PETE HAMLIN

**PHONE # (515) 281-8852**

**SCHEDULING INFORMATION:**

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**THROUGHPUT**

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<tr>
<td>STEEPHOUS ASPIRATION III</td>
<td>10100.0000 T/D</td>
<td>COMPLIANCE WAS NOT VERIFIED</td>
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**COMPLIANCE METHOD (Y/N):**

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- **SO2**

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<td>O &amp; M COSTS:</td>
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<th>ANNUALIZED COSTS:</th>
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<td>COST EFFECTIVENESS ($/TON):</td>
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**MILL ASPIRATION II**

| 0.0000 | COMPLIANCE WAS NOT VERIFIED |
COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

FIBER FLASH DRYER
80,000 MMBTU/H
10,100 TPD CORN

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: ALLIANT ENERGY
3300 C ST. SW
CEDAR RAPIDS, IA 52404-
LINN COUNTY

PERMIT/FILE NO. 97-A-999
AIRS ID NO. 57-01-042

DETERMINATION MADE BY: IOWA DEPARTMENT OF NATURAL RESOURCES
(AGENCY)
GARY SMITH
(AGENCY CONTACT PERSON)

BOILER, NATURAL GAS
PROCESS CODE 11.005
SCC CODE 10100601

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

NOX 0.1000 LB/MMBTU
CAS NO. 10102
CONTROL METHOD: POL
LOW NOX BURNER WITH
4/4 CONTROL OPT

CO 0.0350 LB/MMBTU
CAS NO. 630-08-0
CONTROL METHOD: POL
LOW NOX BURNER

NOTES: BOILER #5 PERMITTED AS AN AS-BUILT SOURCE. BOILERS #1 AND 2 WERE NOT MODIFIED, ONLY DEBOTTLENECKED SO NO BACT.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  369

COMPANY NAME/SITE LOCATION:  ALLIANT ENERGY
3300 C ST. SW
CEDAR RAPIDS, IA 52404- Linne COUNTY

PERMIT/FILE NO. 97-A-999                                DETERMINATION MADE BY:   IOWA DEPARTMENT OF NATURAL RESOURCES
AGENCY CONTACT PERSON:   GARY SMITH                          PHONE # (515) 281-4635

SCHEDULING INFORMATION:                                                      ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION     02/12/1997  ACT
PERMIT ISSUED            05/29/1998  ACT
START UP                   /  /
COMPLIANCE VERIFICATION  /  /

PROCESS NAME                  POLLUTANT NAME             CAPACITY
BOILER, NATURAL GAS                  NOX             278.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:                          LIMIT ON NATURAL GAS IS 1000 MMCF/YR
COMPLIANCE METHOD (Y/N)::
STACK TEST:  Y
INSPECTION:  N       CALCUL
OTHER METHOD:

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
REPORT DATE: 06/24/1999

RBLC ID No. IA-0045

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
BOILER, COAL FIRED, CIRCUL. FLUIDIZED BED, #5  

<table>
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<tr>
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<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>11.002</td>
<td>1500.00 MMBTU/H</td>
<td>CO</td>
<td>0.1500 LB/MMBTU (3-HOUR)</td>
<td>BACT-PSD</td>
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<tr>
<td>10100217</td>
<td>0.0000</td>
<td>PM</td>
<td>0.0150 LB/MMBTU</td>
<td>99.000</td>
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<td></td>
<td>SO2</td>
<td>0.3600 LB/MMBTU</td>
<td>92.000</td>
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<tr>
<td>Substance</td>
<td>Concentration</td>
<td>Control Method</td>
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<tr>
<td>NOx</td>
<td>0.0700 lb/MMBTU</td>
<td>SNCR</td>
<td></td>
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<tr>
<td>PB</td>
<td>0.0002 lb/MMBTU</td>
<td>FABRIC BAGHOUSE</td>
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<tr>
<td>VOC</td>
<td>0.0072 lb/MMBTU</td>
<td>COMBUSTION CONTROL</td>
<td></td>
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<tr>
<td>PM10</td>
<td>0.0300 lb/MMBTU</td>
<td>FABRIC BAGHOUSE</td>
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<tr>
<td>FLUORIDES</td>
<td>0.0012 lb/MMBTU</td>
<td>FABRIC BAGHOUSE</td>
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<tr>
<td>VE</td>
<td>20.0000 % OP.</td>
<td>FABRIC BAGHOUSE</td>
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BOILER, COAL FIRED, CFB, ATMOSPHERIC, #6

PROCESS CODE 11.002
SCC CODE 10100217

REPORT DATE: 06/24/1999

BOILER, COAL FIRED, CFB, ATMOSPHERIC, #6

1500.00 MMBTU/H

PROCESS CODE 11.002
SCC CODE 10100217

SO2
CAS NO. 7446-09-5
0.3600 LB/MMBTU
0.0000
CONTROL METHOD: ADD LIMESTONE INJECTION (CFB).

NOX
CAS NO. 10102
0.0700 LB/MMBTU
0.0000
CONTROL METHOD: ADD SNCR

CO
CAS NO. 630-08-0
0.1500 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION COMBUSTION CONTROL

PM
CAS NO. PM
0.0150 LB/MMBTU
0.0150 LB/MMBTU
CONTROL METHOD: ADD FABRIC BAGHOUSE

PB
CAS NO. 7439-92-1
0.0002 LB/MMBTU
0.0002 LB/MMBTU
CONTROL METHOD: ADD FABRIC BAGHOUSE

VOC
CAS NO. VOC
0.0072 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION COMBUSTION CONTROL
REPORT DATE: 06/24/1999

RBLC ID No. IA-0046

DETAILED SOURCE LISTING (Part A)

NOTES: ADM IS A GRAIN PROCESSING PLANT.
**COMPANY NAME/SITE LOCATION:** ARCHER DANIELS MIDLAND COMPANY  
1350 WACONIA AVENUE S.W.  
CEDAR RAPIDS, IA 52406-  
Linn County

**PERMIT/FILE NO.** 98-A-507P  
**DETERMINATION MADE BY:** IOWA DEPARTMENT OF NATURAL RESOURCES  
**AGENCY CONTACT PERSON:** EMILY CHEN  
**PHONE #** (515) 281-7831

**SCHEDULING INFORMATION:**  
**RECEIVED APPLICATION** 07/10/1997 ACT  
**PERMIT ISSUED** 06/30/1998 ACT  
**START UP** 01/01/2002 EST  
**COMPLIANCE VERIFICATION** 01/01/2002 EST

**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**  
**THROUGHPUT**

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<th>CAPACITY</th>
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<tbody>
<tr>
<td>BOILER, COAL FIRED, CIRCUL. FLUIDIZED BED, #5</td>
<td>CO</td>
<td>1500.0000 MMBTU/H</td>
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</table>

**COMPLIANCE WAS NOT VERIFIED.**

**COMPLIANCE METHOD (Y/N):**  
STACK TEST: Y  
INSPECTION: N  
CALCULATION: N  
OTHER TEST: N  
OTHER METHOD:

**CO**  
**CAPITAL COSTS:** $ 0  
**O & M COSTS:** $ 0  
**ANNUALIZED COSTS:** $ 0  
**COST EFFECTIVENESS ($/TON):** 0

**PM**  
**CAPITAL COSTS:** $ 0  
**O & M COSTS:** $ 0  
**ANNUALIZED COSTS:** $ 0  
**COST EFFECTIVENESS ($/TON):** 0
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<th>Cost Effectiveness ($/Ton)</th>
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<td>PM10</td>
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<td>Fluorides</td>
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<td>VE</td>
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**COMPANY NAME/SITE LOCATION:** NICHOLS ALUMINUM CASTING COMPANY  
2120 J.M. MORRIS BLVD  
DAVENPORT, IA 52802-  
SCOTT COUNTY

**PERMIT/FILE NO.** 98-A-468P  
**DATE OF PERMIT ISSUANCE:** 06/24/1998

**DETERMINATION MADE BY:** IOWA DEPARTMENT OF NATURAL RESOURCES  
EMILY CHEN  
(AGENCY CONTACT PERSON)  
(515) 281-7831

**EMISSION LIMITS (PRIMARY)**

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<td>FURNACE, NATURAL GAS FIRED, ROTARY BARREL</td>
<td>10.00 MMBTU/H</td>
<td>PM10</td>
<td>0.0060 GR/D.</td>
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VE
CAS No. VE

0.0000 % OP.

0.0000

CONTROL METHOD: ADD LIME-COATED FABRIC B.

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: THE PLANT IS A SECONDARY PROCESSOR OF ALUMINUM. THE SCRAPS AND/OR DROSS ARE MELTED, REFINED AND ROLLED INTO THIN GAUGE ALUMINUM PRODUCTS. PUBLIC HEARING HAS BEEN DONE.
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** NICHOLS ALUMINUM CASTING COMPANY  
2120 J.M. MORRIS BLVD  
DAVENPORT, IA 52802-  
SCOTT COUNTY

**PERMIT/FILE NO.** 98-A-468P  
**DETERMINATION MADE BY:** IOWA DEPARTMENT OF NATURAL RESOURCES  
**AGENCY CONTACT PERSON:** EMILY CHEN  
**PHONE #** (515) 281-7831

**SCHEDULING INFORMATION:**

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<td>START UP / /</td>
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<td>COMPLIANCE VERIFICATION / /</td>
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**PROCESS NAME**  
FURNACE, NATURAL GAS FIRED, ROTARY BARREL  
**POLLUTANT NAME**  
PM10  
**CAPACITY**  
10.0000 MMBTU/H  
**THROUGHPUT**  
COMPLIANCE WAS NOT VERIFIED.

**PROCESS/COMPLIANCE NOTES:**  
THIS PERMIT IS FOR A COMMON STACK FOR TWO NEW NATURAL GAS FURNACE AND A DROSS HANDLING BUILDING.

**COMPLIANCE METHOD** (Y/N):
- **STACK TEST:** Y  
- **INSPECTION:** Y  
- **CALCULATION:** N  
- **OTHER TEST:** N

**PM10**

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<tr>
<td>ANNUALIZED COSTS: $</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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<tr>
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<td>CAPITAL COSTS: $</td>
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<tr>
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<tr>
<td>PM</td>
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<tr>
<td>VOC</td>
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<tr>
<td>VE</td>
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REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  
RBLC ID No. IA-0050  

COMPANY NAME/SITE LOCATION:  CARGILL-EDDYVILLE  
1 CARGILL DRIVE  
EDDYVILLE, IA 52553-  
MONROE COUNTY  

PERMIT/FILE NO. 99-A-159P  
DATE ENTERED/UPDATED:  06/23/1999  

DETERMINATION MADE BY:  IOWA DEPARTMENT OF NATURAL RESOURCES  
(AGENCY)  
DAVE PHELPS  
(AGENCY CONTACT PERSON)  
(515) 281-8189  

AIRS ID NO. 19-135-0005  

EMISSION LIMITS (P: STANDARDIZED)  
THROUGHPUT PROCESS CODE 11.005  
CAPACITY SCC CODE 10100601  
POLLUTANT NAME NOX CAS NO. 10102  
RANKING INFORMATION  

BOILER 7  
182.10 MMBTU/H  

NOTES:  ADDING ANOTHER BOILER (7) TO WET CORN MILLING FACILITY
COMPANY NAME/SITE LOCATION: CARGILL-EDDYVILLE
1 CARGILL DRIVE
EDDYVILLE, IA 52553-
MONROE COUNTY

PERMIT/FILE NO. 99-A-159P

DETERMINATION MADE BY: IOWA DEPARTMENT OF NATURAL RESOURCES
AGENCY CONTACT PERSON: DAVE PHELPS

SCHEDULING INFORMATION:

RECEIVED APPLICATION 10/15/1997 EST
PERMIT ISSUED 04/22/1999 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME:
BOILER 7

POLLUTANT NAME:

CAPACITY:
THROUGHPUT
182.1000 MMBTU/H
COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
NATURAL GAS ONLY

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN ANNUALIZED COSTS: $ 0 COSTS ARE NOT COST EFFECTIVENESS ($/TON): 0

STACK TEST: Y
INSPECTION: N CALCUL
OTHER METHOD:
<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EMIS. LIMITS (P: STANDARDIZED)</th>
<th>POLLUTION PREVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILER, CIRCULATING FLUIDIZED BED, COAL FIRED</td>
<td>1500.00 MMBTU/H</td>
<td>SO2</td>
<td>0.3600 LB/MMBTU (30 D ROLL)</td>
<td>BACT-PSD</td>
<td>0.3600 LB/MMBTU</td>
</tr>
<tr>
<td>PROCESS CODE 11.002</td>
<td>SCC CODE 10100217</td>
<td>CAS NO. 7446095</td>
<td>CONTROL METHOD: ADD LIMESTONE INJECTION</td>
<td>92.000</td>
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<tr>
<td>NOX</td>
<td>0.0700 LB/MMBTU</td>
<td>BACT-PSD</td>
<td>0.0700 LB/MMBTU</td>
<td>0.000</td>
<td>CONTROL METHOD: ADD SNCR</td>
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<tr>
<td>CAS NO. 10102</td>
<td></td>
<td></td>
<td>5/1 CONTROL OPTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0.1500 LB/MMBTU</td>
<td>BACT-PSD</td>
<td>0.1500 LB/MMBTU</td>
<td>10.000</td>
<td>CONTROL METHOD: COMBUSTION CONTROL</td>
</tr>
<tr>
<td>CAS NO. 630080</td>
<td></td>
<td></td>
<td>1/1 CONTROL OPTION</td>
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</tbody>
</table>
REPORT DATE: 06/24/1999

RBLC ID No. IA-0051

PM
CAS NO. PM
CONTROL METHOD: ADD
FABRIC BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PB
CAS NO. 7439921
CONTROL METHOD: ADD
FABRIC BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC
CAS NO. VOC
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION CONTROL
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PM10
CAS NO. PM
CONTROL METHOD: ADD
FABRIC BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

FLOURIDES
CAS NO. 16984488
CONTROL METHOD: ADD
FABRIC BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VISIBLE EMISSIONS
CAS NO. VE
CONTROL METHOD: ADD
FABRIC BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: ADM IS A GRAIN PROCESSING PLANT.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION:  ARCHER DANIELS MIDLAND COMPANY
1350 WACONIA AVE SW
CEDAR RAPIDS, IA 52406-

PERMIT/FILE NO. 98-A-508P

SCHEDULING INFORMATION:

PROCESS NAME                   POLLUTANT NAME                     CAPACITY

BOILER, CIRCULATING FLUIDIZED BED, COAL FIRED  1500.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

SO2  CAPITAL COSTS:  $ 0
     ANNUALIZED COSTS:  $ 0
     COST EFFECTIVENESS ($/TON):  0

NOX  CAPITAL COSTS:  $ 0
     O & M COSTS:  $ 0
     ANNUALIZED COSTS:  $ 0
     COST EFFECTIVENESS ($/TON):  0
REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part B)  
RBLC ID No. IA-0051  

CO  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0  

PM  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0  

PB  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0  

VOC  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0  

PM10  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0  

FLOURIDES  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0  

VISIBLE EMISSIONS  
CAPITAL COSTS: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS ($/TON): 0
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<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EMISSION LIMITS (P: (S)</th>
<th>CONTROL METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCINERATORS (2 FLUIDIZED BED COMBUSTORS)</td>
<td>600.00 TON R.D. FUEL/DAY, @</td>
<td>600.00 TON R.D. FUEL/DAY</td>
<td>PM</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
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<tr>
<td>PROCESS CODE 21.001</td>
<td>SCC CODE 50100103</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>CONTROL METHOD: BOT SPAY DRYER/FABRIC FUEL</td>
<td>CO</td>
<td>100.0000 PPM</td>
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<tr>
<td>CAS NO. PM</td>
<td>CAS NO. 630-08-0</td>
<td>CO</td>
<td>100.0000 PPM</td>
<td>0.0000</td>
<td>CONTROL METHOD: POL GOOD COMBUSTION PRAC</td>
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<td>CAS NO. VOC</td>
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<td>VOC</td>
<td>10.0000 PPM</td>
<td>0.0000</td>
<td>CONTROL METHOD: POL GOOD COMBUSTION PRAC</td>
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<td>Concentration</td>
<td>Method</td>
<td>Control Method</td>
<td></td>
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<td>---------------------------------------------</td>
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<td></td>
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<tr>
<td>NOX</td>
<td>130.0000 PPM</td>
<td>0.0000</td>
<td>THERMAL DENOX, FLUID</td>
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<tr>
<td>CAS No.</td>
<td>10102</td>
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<tr>
<td>SO2</td>
<td>30.0000 PPM</td>
<td>0.0000</td>
<td>BOT SPRAY DRYER/FABRIC F</td>
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<tr>
<td>CAS No.</td>
<td>7446-09-5</td>
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<tr>
<td>HCL</td>
<td>25.0000 PPM</td>
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<td>ADD SPRAY DRYER/FABRIC F</td>
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<tr>
<td>CAS No.</td>
<td>7647-01-0</td>
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</table>
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: ROBBINS RESOURCE RECOVERY
SOUTH KEDZIE AVENUE
ROBBINS, IL 60472-

PERMIT/FILE NO. 88120055 / ID 031270AAA

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: CHRIS ROMAINE / JIM COBB

SCHEDULING INFORMATION:
RECEIVED APPLICATION / /
PERMIT ISSUED 06/11/1990 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

INCINERATORS (2 FLUIDIZED BED COMBUSTORS) 600.0000 TON R.D. FUEL/DAY, @

COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N): N
INSPECTION: N CALCULATED
OTHER METHOD:

PM
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT

CO
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
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<tr>
<th>Substance</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/TON)</th>
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<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>NOx</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>SO2</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>HCL</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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COMPANY NAME/SITE LOCATION: PPG INDUSTRIES
MT. ZION – ELWIN ROAD
MT. ZION, IL 62549-
MACON COUNTY

PERMIT/FILE NO. 94060097
DATE OF PERMIT ISSUANCE-- 11/01/1994 ACT
START-UP DATE--           01/01/1997 EST
DETERMINATION MADE BY:  ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY)                     SHASHI SHAH                                  (217) 782-2113
(AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 115810AAA

EMISSION LIMITS (P:)
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

PROCESSES SUBJECT TO THIS PERMIT
FURNACE, FLAT GLASS 750.00 T/D

PROCESS CODE 90.016  NOX 12.2500 LB/T
SCC CODE 30501403  CAS NO. 10102  0.0000
CONTROL METHOD:  POLLUTION PREVENTION
FURNACE DESIGN OPTIMIZATION
6/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SO2 0.8960 LB/T
CAS NO. 7446-09-5  0.0000
CONTROL METHOD:  ADD
DRY SCRUBBER (LIME) :  4/ 2 CONTROL OPTI:

NOTES: NEW FURNACE 2 REPLACES AN EXISTING FURNACE, NETTING OUT OF REVIEW FOR
PARTICULATE MATTER.  THIS REQUIRES A PARTICULATE MATTER EMISSION RATE
OF 7.2 LB/HOUR (APPROXIMATELY 0.23 LBS PM/TON) ACHIEVED WITH AN
ELECTROSTATIC PRECIPITATOR.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PPG INDUSTRIES
MT. ZION - ELWIN ROAD
MT. ZION, IL 62549-
MACON COUNTY

PERMIT/FILE NO. 94060097

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: SHASHI SHAH

SCHEDULING INFORMATION:

<table>
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<th>RECEIVED APPLICATION</th>
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<td>PERMIT ISSUED</td>
<td>ACT</td>
<td>11/01/1994</td>
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<td>START UP</td>
<td>EST</td>
<td>01/01/1997</td>
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<td>EST</td>
<td>01/01/1997</td>
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<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>FURNACE, FLAT GLASS</td>
<td></td>
<td>750.0000 T/D</td>
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COMPLIANCE WAS VERIFIED.

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<thead>
<tr>
<th>POLLUTANT</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
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<tbody>
<tr>
<td>NOX</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>SO2</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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</tbody>
</table>

COSTS ARE IN DOLLARS.
COMPANY NAME/SITE LOCATION: BIRMINGHAM STEEL
ROUTE 1
BOURBONNAIS, IL 60194-

PERMIT/FILE NO. 93010095

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY) SHASHI SHAH (AGENCY CONTACT PERSON)

AIRS ID NO. 091801AAA

EMISSION LIMITS
PROCESS CODE 81.007
SCC CODE 30300999

POLLUTION PREVENTION/CONTROL EQUIPMENT

BASIS

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION
EST % EFF

FURNACE, ELECTRIC ARC, STEEL PRODUCTION
100.00 T/H

CO
2.0100 LB/T
0.0000
CONTROL METHOD: POLLUTION PREVENTION
DIRECT COMBUSTION IN DUCTWORK
5/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOX
0.2600 LB/T
0.0000
CONTROL METHOD: POLLUTION PREVENTION
LOW-NOX SUPPLEMENTAL BURNERS, 0.14 LB/MMBTU
5/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: PERMIT ALLOWS INCREASED PRODUCTION BY AN ELECTRIC ARC FURNACE AS A RESULT OF VARIOUS "DEBOTTLENECKING" IMPROVEMENTS.
COMPANY NAME/SITE LOCATION: BIRMINGHAM STEEL
ROUTE 1
BOURBONNAIS, IL 60194-
KANKAKEE

PERMIT/FILE NO. 93010095

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: SHASHI SHAH

SCHEDULING INFORMATION:

RECEIVED APPLICATION 07/12/1993 ACT
PERMIT ISSUED 03/17/1994 ACT
START UP 04/01/1994 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

FURNACE, ELECTRIC ARC, STEEL PRODUCTION 100.0000 T/H

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N OTHER METHOD:

CO CAPITAL COSTS: $ 0 O & M COSTS: $ 0 ANNUALIZED COSTS: $ 0 COST EFFECTIVENESS ($/TON): 0

NOX CAPITAL COSTS: $ 0 O & M COSTS: $ 0 ANNUALIZED COSTS: $ 0 COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: MISSISSIPPI LIME COMPANY
2 MILES NW OF PRAIRE DU ROCHER
PRAIRE DU ROCHER, IL 62277-

PERMIT/FILE NO. 92060070

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY)
MANGU PATEL
(AGENCY CONTACT PERSON)

AIRS ID NO. 157863AAC

EMISSION LIMITS (PRIMARY)

THROUGHPUT
CAPACITY

KILN, ROTARY, LIME
2600.00 T/D

PROCESSES SUBJECT TO THIS PERMIT

KILN, ROTARY, LIME
2600.00 T/D

PROCESS CODE 90.019
SCC CODE 30501604

PM
0.0200 GR/D.
0.0000
CONTROL METHOD: ADD FABRIC FILTER
6/ 1 CONTROL OPTI:

SO2
1.5700 LB/T
0.0000
CONTROL METHOD: BOT FABRIC FILTER, LIME CALCINATION WITH DRY SCRUB-
ING
5/ 4 CONTROL OPTI:

NOX
0.5600 LB/T
0.0000
CONTROL METHOD: POL LIME CALCINATION PRO-
4/ 3 CONTROL OPTI:
REPORT DATE: 06/24/1999

KILN, PREHEATER, LIME

800.00 T/D EACH

PROCESS CODE 90.019

SCC CODE 30501699

NOTES: PERMIT ADDRESSES INSTALLATION OF EITHER ROTARY KILNS OR PREHEATER KILNS BY APPLICANT.
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part B)  RBLC ID No. IL-0052

COMPANY NAME/SITE LOCATION: MISSISSIPPI LIME COMPANY
2 MILES NW OF PRAIRE DU ROCHER
PRAIRE DU ROCHER, IL 62277-  RANDOLPH COUNTY

PERMIT/FILE NO. 92060070  DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: MANGU PATEL  PHONE # (217) 782-2113

SCHEDULING INFORMATION:
RECEIVED APPLICATION  06/22/1992  ACT
PERMIT ISSUED  04/30/1993  ACT
START UP  / /
COMPLIANCE VERIFICATION  / /

THROUGHPUT

PROCESS NAME  POLLUTANT NAME  CAPACITY
KILN, ROTARY, LIME  2600.0000 T/D  COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:  650 TON/DAY EACH AND OR PREHEATER KILNS 800 TONS/DAY EACH

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
SO2
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

NOX
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

VE
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

KILN, PREHEATER, LIME
- 800.0000 T/D EACH
- COMPLIANCE WAS NOT VERIFIED
- COMPLIANCE METHOD (Y/N): N
- STACK TEST: N
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N
- OTHER METHOD:

PM
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

SO2
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

VE
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: NASCOTE INDUSTRIES
ROUTE 127 NORTH
NASHVILLE, IL 62263-
WASHINGTON COUNTY

PERMIT/FILE NO. 89070026

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY)
CHRIS ROMAINE
(AGENCY CONTACT PERSON)
(217) 782-2113

AIRS ID NO. 189801AAA

EMISSION LIMITS (P: STANDARDIZED)

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<td>54.00 T/yr VOC</td>
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<td>4020201</td>
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CONTROL METHOD: POLLUTION PREVENTION
COLLECTION AND RECOVERY OF PURGE SOLVENT

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: NASCOTE INDUSTRIES
ROUTE 127 NORTH
NASHVILLE, IL 62263-

PERMIT/FILE NO. 89070026

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: CHRIS ROMAINE

SCHEDULING INFORMATION:

RECEIVED APPLICATION 11/09/1990 ACT
PERMIT ISSUED 10/30/1991 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / / ACT

THROUGHPUT

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<th>PROCESS NAME</th>
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<tbody>
<tr>
<td>SPRAY BOOTH, PREPARATION, COLOR LINE</td>
<td>VOC</td>
<td>54.0000 T/YR VOC</td>
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</tbody>
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COMPLIANCE WAS VERIFIED.

PROCESS AUTOMOBILE PARTS FABRICATION AND PAINTING FACILITY

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N CALCU

VOC

| CAPITAL COSTS: $ | 0 |
| O & M COSTS: $   | 0 |
| ANNUALIZED COSTS: $ | 0 |
| COST EFFECTIVENESS ($/TON): | 0 |
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: BROWN PRINTING COMPANY
11595 MCCONNELL ROAD
WOODSTOCK, IL 60098-

PERMIT/FILE NO. 97080012

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
J. MAJUMDER
(AGENCY)                      (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 111095ABU

EMISSION LIMITS (P: STANDARDIZED)

<table>
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<th>PROCESSES SUBJECT TO THIS PERMIT</th>
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<td>PRESSES, OFFSET PRINTING, WEB, HEATSET, EIGHT</td>
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<td>PROCESS CODE 41.022</td>
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<td>CHILLED RESERVOIR</td>
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<tr>
<td>SCC CODE 40588801</td>
<td></td>
<td>LOW VAPOR PRESSURE CLEANING</td>
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<tr>
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<td></td>
<td>SOLVENT NO MORE THAN 1.37 PSIA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
</tr>
<tr>
<td>PRINTING, BINDERY, INKJET UNITS</td>
<td>0.00</td>
<td>VOC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS NO. VOC</td>
</tr>
<tr>
<td>PROCESS CODE 41.022</td>
<td></td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
</tr>
<tr>
<td>SCC CODE 40500401</td>
<td></td>
<td>RESTRICTED TO BINDERY</td>
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<tr>
<td>SCC CODE 40588801</td>
<td></td>
<td>VOC SOLVENT NO MORE THAN 1.37 PSIA</td>
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<tr>
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<td>4/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
</tr>
</tbody>
</table>

NOTES:
REPORT DATE: 06/24/1999                                  DETAILED SOURCE LISTING (Part B)                                           PAGE H-  404

COMPANY NAME/SITE LOCATION:  BROWN PRINTING COMPANY
11595 MCCONNELL ROAD
WOODSTOCK, IL 60098-5025

PERMIT/FILE NO.  97080012

DETERMINATION MADE BY:  ILLINOIS EPA, DIV OF AIR POLLUTION CONTROL
AGENCY CONTACT PERSON:  J. MAJUMDER

SCHEDULING INFORMATION:

RECEIVED APPLICATION 08/01/1997 EST
PERMIT ISSUED 03/01/1998 EST

SCHEDULING INFORMATION:

PROCESS NAME                  POLLUTANT NAME             CAPACITY

PRESSES, OFFSET PRINTING, WEB, HEATSET, EIGHT                0.0000

COMPLIANCE VERIFICATION

THROUGHPUT

VOC

CAPITAL COSTS:  $  0
O & M COSTS:  $  0

ANNUALIZED COSTS:  $  0

COST EFFECTIVENESS ($/TON):  0

PRINTING, BINDERY, INKJET UNITS

0.0000

COMPLIANCE WAS NOT VERIFIED.
REPORT DATE: 06/24/1999

RBLC ID No. IL-0055

DETAILED SOURCE LISTING (Part B)

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCU
OTHER METHOD:

VOC
CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: QUEBECOR  
404 NORTH WESLEY AVENUE  
MT. MORRIS, IL 61054-  
OGLE COUNTY

PERMIT/FILE NO. 95080142  
DATE OF PERMIT ISSUANCE-- 08/15/1996 ACT

PRESS, PRINTING, ROTOGRAVURE  
PROCESS CODE 41.022  
SCC CODE 40500311

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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</thead>
<tbody>
<tr>
<td>41.022</td>
<td>0.00</td>
<td>VOC</td>
<td>97.0000 % REMOVAL BY CONTOL</td>
<td>BACT-PSD</td>
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<tr>
<td>40500311</td>
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<td>CAS NO. VOC</td>
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</table>

CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
CARBON ADSORPTION SYSTEM WITH PERMANENT TOTAL ENCLOSURE
2/5 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES: ADDITION OF NEW PRESS, GOING TO EXISTING CARBON ADSORPTION SYSTEM
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: QUEBECOR
404 NORTH WESLEY AVENUE
MT. MORRIS, IL 61054

PERMIT/FILE NO. 95080142

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: JOHN BLAZIS

SCHEDULING INFORMATION:

<table>
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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>PRESS, PRINTING, ROTOGRAVURE</td>
<td>VOC</td>
<td>0.0000</td>
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</table>

COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N

VOC

<table>
<thead>
<tr>
<th>CAPITAL COSTS: $</th>
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<tbody>
<tr>
<td>O &amp; M COSTS: $</td>
<td>0</td>
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<tr>
<td>ANNUALIZED COSTS: $</td>
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</tbody>
</table>

COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                          DETAILED SOURCE LISTING (Part A)
RBLC ID No. IL-0057                              PAGE H-  408

COMPANY NAME/SITE LOCATION:  ILLINOIS CEMENT COMPANY
1601 ROCKWELL ROAD
LASALLE, IL 61301-0442
LASALLE COUNTY

PERMIT/FILE NO. 97030016

DETERMINATION MADE BY:  ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY)
SHASHI SHAH  
(AGENCY CONTACT PERSON)  
(217) 782-2113  
(PHONE)

AIRS ID NO. 0013

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT             CAPACITY           POLLUTANT NAME          RANKING INFORMATION                     EST % EFF

KILN, CEMENT, PREHEATER-PRECALCINER  0.00
PROCESS CODE 90.028
SCC CODE 30500617

NOX          4.5000 LB/T
CAS NO. 10102
CONTROL METHOD:  POLLUTION PREVENTION
CONVERSION TO PRECALCINER KILN

PM          0.2080 LB/T
CAS NO. PM
CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT
FABRIC FILTER

SO2          0.8000 LB/T
CAS NO. 7446-09-5
CONTROL METHOD:  POLLUTION PREVENTION
INHERENT ABSORPTION

NOTES:
REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part B)  
RBLC ID No. IL-0057

COMPANY NAME/SITE LOCATION: ILLINOIS CEMENT COMPANY
1601 ROCKWELL ROAD
LASALLE, IL 61301-0442

PERMIT/FILE NO. 97030016
LASALLE COUNTY

PERMIT/FILE NO. 97030016
LASALLE COUNTY

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: SHASHI SHAH

SCHEDULING INFORMATION:

RECEIVED APPLICATION 03/03/1997 ACT
PERMIT ISSUED 06/12/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

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<tr>
<th>PROCESS NAME</th>
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<th>CAPACITY</th>
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<tbody>
<tr>
<td>KILN, CEMENT, PREHEATER-PREC</td>
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<td>0.0000</td>
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COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

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<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
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</tr>
<tr>
<td>PM</td>
<td>$0</td>
<td>$0</td>
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</table>
SO2

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: ARCHER DANIELS MIDLAND COMPANY  
4666 FARIES PARKWAY  
DECATUR, IL 62526-  
MACON COUNTY

PERMIT/FILE NO. 94020006

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL  
SHASHI SHAH  
(AGENCY) (AGENCY CONTACT PERSON) 
(217) 782-2113 

AIRS ID NO. 0005

EMISSION LIMITS (P:)

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILER, FLUIDIZED BED, COAL FIRED, MODIFIED, #6</td>
<td>700.00 MMBTU/H</td>
<td>700.00 MMBTU/H</td>
<td>PM</td>
<td>0.0250 LB/MMBTU</td>
<td>BACT-PSD</td>
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<tr>
<td>PROCESS CODE 11.002</td>
<td>SCC CODE 10200222</td>
<td>CAS NO. PM</td>
<td>0.0050 LB/MMBTU</td>
<td>99.000</td>
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<tr>
<td>CONTROL METHOD: ADDITION CONTINUOUSLY</td>
<td>FABRIC FILTER</td>
<td>3/1 CONTROL OPTION</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SO2</td>
<td>0.7000 LB/MMBTU</td>
<td>CAS NO. 7446-09-5</td>
<td>CONTROL METHOD: BOTH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIMESTONE INJECTION BY FABRIC FILTER FOR PM CONTROL</td>
<td>3/1 CONTROL OPTION</td>
<td></td>
<td></td>
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</table>
BOILER, GAS FIRED, 2  

PROCESS CODE 11.005  
SCC CODE 10200601

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<tbody>
<tr>
<td>VOC</td>
<td>0.0320 LB/MMBU</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td>CAS NO. VOC</td>
<td>0.0320 LB/MMBU</td>
<td>BACT-PSD</td>
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</tbody>
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CONTROL METHOD: POLLUTION PREVENTION  
GOOD COMBUSTION PRACTICES  
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

BOILER (7&8), FLUIDIZED BED  

PROCESS CODE 11.002  
SCC CODE 10200222

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>VOC</td>
<td>0.0140 LB/MMBU</td>
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<td>CAS NO. VOC</td>
<td>0.0140 LB/MMBU</td>
<td>BACT-PSD</td>
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CONTROL METHOD: POLLUTION PREVENTION  
GOOD COMBUSTION PRACTICES  
2/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SNCR APPLIED TO CIRCULATING FLUIDIZED BED BOILER  

PROCESS CODE 11.002  
SCC CODE 10200222

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<tbody>
<tr>
<td>NOX</td>
<td>0.0500 LB/MMBU</td>
<td>BACT-PSD</td>
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<tr>
<td>CAS NO. 10102</td>
<td>0.0500 LB/MMBU</td>
<td>BACT-PSD</td>
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CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT  
SNCR APPLIED TO CIRCULATING FLUIDIZED BED BOILER  
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SNCR APPLIED TO CIRCULATING FLUIDIZED BED BOILER  

PROCESS CODE 11.002  
SCC CODE 10200222

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<tbody>
<tr>
<td>NOX</td>
<td>0.1200 LB/MMBU</td>
<td>BACT-PSD</td>
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<tr>
<td>CAS NO. 10102</td>
<td>0.1200 LB/MMBU</td>
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CONTROL METHOD: BOT  
SNCR APPLIED TO CIRCULATING FLUIDIZED BED BOILER  
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
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<tr>
<th>Substance</th>
<th>Emissions (LB/MMBTU)</th>
<th>Control Method</th>
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<tr>
<td>SO2</td>
<td>0.7000</td>
<td>BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
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<td>7446-09-5</td>
<td>LIMESTONE INJECTION BY FABRIC FILTER FOR PM CONTROL</td>
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<tr>
<td>CO</td>
<td>0.1000</td>
<td>POLLUTION PREVENTION GOOD COMBUSTION PRACTICES</td>
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<td></td>
<td>630-08-0</td>
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<td>VOC</td>
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<td>POLLUTION PREVENTION GOOD COMBUSTION PRACTICES</td>
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<td>VOC</td>
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<tr>
<td>PM</td>
<td>0.0250</td>
<td>ADD-ON CONTROL EQUIPMENT FABRIC FILTER</td>
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<td>PM</td>
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## NOTES:

- 3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part B)  RBLG ID No. IL-0058

COMPANY NAME/SITE LOCATION:  ARCHER DANIELS MIDLAND COMPANY
4666 FARIES PARKWAY  MACON COUNTY
DECATUR, IL 62526-

PERMIT/FILE NO. 94020006  DETERMINATION MADE BY:  ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON:  SHASHI SHAH

SCHEDULING INFORMATION:

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<td>08/11/1994 ACT</td>
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<td>START UP</td>
<td>07/01/1996 EST</td>
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<td>COMPLIANCE VERIFICATION</td>
<td>01/01/1997 EST</td>
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PROCESS NAME             POLLUTANT NAME        THROUGHPUT     COMPLIANCE WAS VERIFIED.
BOILER, FLUIDIZED BED, COAL FIRED, MODIFIED, #6 700.0000 MMBTU/H

<table>
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<tr>
<th>POLLUTANT</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
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</thead>
<tbody>
<tr>
<td>PM</td>
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<td>$0</td>
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<tr>
<td>SO2</td>
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<td>$0</td>
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COMPLIANCE METHOD (Y/N):
STACK TEST:  Y  INSPECTION:  N  CALCULATION:  N  OTHER TEST:  Y  OTHER METHOD:  MONITORING

COSTS ARE IN DOLLARS.  COSTS ARE NOT VERIFIED BY AGENCY.
BOILER, GAS FIRED, 2

350.0000 MMBTU/H

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

BOILER (7&8), FLUIDIZED BED

1500.0000 MMBTU/H

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
#7 - 750 MMBTU/H THROUGHPUT
#8 - 1500 MMBTU/H THROUGHPUT
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/TON)</th>
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<tr>
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<td>VOC</td>
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<tr>
<td>PM</td>
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</table>
COMPANY NAME/SITE LOCATION: ARCHER DANIELS MIDLAND COMPANY
4666 FARIES PARKWAY
DECATUR, IL 62526-
MACON COUNTY

PERMIT/FILE NO. 93120004

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY) CHRISTOPHER ROMAINE
(AGENCY CONTACT PERSON) (217) 782-2113

AIRS ID NO. 0005

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT POLLUTION PREVENTION RANKING INFORMATION
CAPACITY POLLUTANT NAME

VENT, PROCESS, VITAMIN E PLANT 710.00 T/YR

PROCESS CODE 70.999
SCC CODE 30199999
VOC 0.0000 SEE P2 DESCRIP.
CAS NO. VOC 0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
ENCLOSURE; MINIMUM EXHAUST FLOW; ADD-ON CONTROL
BY SCRUBBER; SOLVENT RECOVERY. ONLY 98% CONTROL
REQUIRED.

3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

EQUIPMENT LEAK, VITAMIN E PLANT 710.00 T/YR

PROCESS CODE 70.999
SCC CODE 30199999
VOC 0.0000 SEE P2 DESCRIP.
CAS NO. VOC 0.0000
CONTROL METHOD: POLLUTION PREVENTION
COMPONENT DESIGN & LEAK DETECTION AND REPAIR.

4/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES: PSD PERMIT PROCESSED AFTER VITAMIN E PLANT VOM EMISSIONS EXCEED SIGNIFICANT EMISSION THRESHOLDS.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  419

COMPANY NAME/SITE LOCATION:  ARCHER DANIELS MIDLAND COMPANY
4666 FARIES PARKWAY
DECATUR, IL 62526- MACON COUNTY

PERMIT/FILE NO. 93120004                                DETERMINATION MADE BY:   ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON:   CHRISTOPHER ROMAINE                 PHONE # (217) 782-2113

SCHEDULING INFORMATION:                                                      ESTIMATED/ACTUAL DATE

RECEIVED APPLICATION     06/24/1997  ACT
PERMIT ISSUED            10/22/1998  ACT
START UP                 07/01/1996  EST
COMPLIANCE VERIFICATION  07/01/1999  EST

THROUGHPUT

VENT, PROCESS, VITAMIN E PLANT

PROCESS/COMPLIANCE NOTES:
VOM CONSUMPTION DETERMINED BY MATERIAL BALANCE (DISAPPEARANCE)
EMISSIONS FROM PROCESS VENTS LIMITED TO 50 TONS PER YEAR.

COMPLIANCE WAS NOT VERIFIED.

CAPITAL COSTS:  $   0
O & M COSTS:  $   0
ANNUALIZED COSTS:  $   0
COST EFFECTIVENESS ($/TON):  0
**REPORT DATE:** 06/24/1999  
**RBLC ID No. IL-0059**  

**EQUIPMENT LEAK, VITAMIN E PLANT**  

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<th>VOC</th>
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<tr>
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<tr>
<td></td>
<td>ANNUALIZED COSTS: $</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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**COMPLIANCE WAS NOT VERIFIED.**

**COMPLIANCE METHOD (Y/N): STACK TEST:** N

**INSPECTION:** N

**CALCULATION:** N

**OTHER METHOD:**
COMPANY NAME/SITE LOCATION: ARCHER DANIELS MIDLAND COMPANY
4666 FARIES PARKWAY
DECATUR, IL 62526-
MACON COUNTY

PERMIT/FILE NO. 97070097

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
(AGENCY)

CHRISTOPHER ROMAINE
(AGENCY CONTACT PERSON)

(217) 782-2113
(PHONE)

BOILER (9&10), FLUIDIZED BED

PROCESS CODE 11.002
SCC CODE 10200222

THROUGHPUT
CAPACITY 1500.00 MMBTU/H

POLLUTANT NAME NOX
RANKING INFORMATION
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
SNCR APPLIED TO CIRCULATING FLUIDIZED BED BOILER
4/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

POLLUTANT NAME SO2
RANKING INFORMATION
CONTROL METHOD: ADD
LIMESTONE INJECTION
BY FABRIC FILTER 
3/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999  
RBLC ID No. IL-0060  

CO  
CAS NO. 630-08-0  
0.1000 LB/MMBTU  
CONTROL METHOD: POL  
GOOD COMBUSTION PRACTICE  
2/1 CONTROL OPTION SELECTED

VOC  
CAS NO. VOC  
0.0320 LB/MMBTU  
CONTROL METHOD: POL  
GOOD COMBUSTION PRACTICE  
1/1 CONTROL OPTION SELECTED

PM  
CAS NO. PM  
0.0250 LB/MMBTU  
99.000  
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT  
FABRIC FILTER. IF UNIT DEMONSTRATES 0.015 LB/MMBTU OR LESS, TESTING INTERVAL IS DOUBLED.  
4/2 CONTROL OPTION SELECTED

BOILER (11), GAS FIRED  
PROCESS CODE 11.005  
SCC CODE 10200601  
350.00 MMBTU/H

NOX  
CAS NO. 10102  
0.0500 LB/MMBTU  
CONTROL METHOD: POL  
LOW-NOX BURNERS; FUEL SELECTION  
3/2 CONTROL OPTION SELECTED

CO  
CAS NO. 630-08-0  
0.0400 LB/MMBTU  
CONTROL METHOD: POL  
GOOD COMBUSTION PRACTICE  
2/1 CONTROL OPTION SELECTED
VOC                              0.0140 LB/MMBTU                  BACT-PSD
CAS NO. VOC                      0.0140 LB/MMBTU                    0.000

CONTROL METHOD:  POLLUTION PREVENTION
GOOD COMBUSTION PRACTICE
2/1 CONTROL OPTIONS EXAMINED/SELECTED

STORAGE & HANDLING SYSTEM, LIMESTONE                      0.00

PROCESS CODE 90.019
SCC CODE 30199999

PM                              0.0100 GR/DSCF                   BACT-PSD
CAS NO. PM                       0.0100                            99.000

CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
ENCLOSURE & FABRIC FILTERS
1/1 CONTROL OPTIONS EXAMINED/SELECTED

NOTES: NOX LIMIT MAY BE LOWERED TO 0.1 OR 0.07 LB/MMBTU BASED ON TESTING AND EVALUATION OF THE BOILER. NO PUBLIC HEARING WILL BE HELD. THIS EMISSION UNIT IS MODIFIED.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: ARCHER DANIELS MIDLAND COMPANY
4666 FARIES PARKWAY
DECATUR, IL 62526- MACON COUNTY

PERMIT/FILE NO. 97070097

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: CHRISTOPHER ROMAINE

SCHEDULING INFORMATION:
RECEIVED APPLICATION 05/15/1997 ACT
PERMIT ISSUED 12/24/1998 ACT
START UP 10/01/2000 EST
COMPLIANCE VERIFICATION 01/01/2001 EST

PROCESS NAME
BOILER (9&10), FLUIDIZED BED

POLLUTANT NAME COMPANIES WAS NOT VERIFIED.

CAPACITY
1500.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
COAL FIRED BOILER ALSO ALLOWED TO SUPPLEMENT COAL WITH OTHER FUELS, SUCH AS AUTOMOBILE TIRES. THROUGHPUT IS 1500 MMBTU/H.

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0
<table>
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<tr>
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<tr>
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</table>

**BOILER (11), GAS FIRED**

350,000 MMBTU/H  

**COMPLIANCE WAS NOT VERIFIED**

COMPLIANCE METHOD (Y/N): N  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:
VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

STORAGE & HANDLING SYSTEM, LIMESTONE
PROCESS/COMPLIANCE NOTES:

LIMESTONE STORAGE & HANDLING SYSTEM ASSOCIATED W/FLUIDIZED BED

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: MOBIL OIL CORPORATION  
I-55 AND ARSENAL ROAD  
JOLIET, IL 60434-  
WILL COUNTY

PERMIT/FILE NO. 97030078

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL  
(AGENCY)  
CHRISTOPHER ROMAINE  
(AGENCY CONTACT PERSON)  
(217) 782-2113  
(PHONE)

AIRS ID NO. 0089

EMISSION LIMITS (P: (STANDARDIZED)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

PREHEATER, FEED, CRUDE UNIT 240.00 MMBTU/H

PROCESS CODE 50.003  
SCC CODE 30600106  
NOX 0.0330 LB/MMBTU  
CAS NO. 10102  
0.0000  
CONTROL METHOD: POLLUTION PREVENTION  
ULTRA LOW-NOX BURNERS.

5/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: NO PUBLIC HEARING WILL BE HELD. THE SOURCE IS MODIFIED. IEPA ID NUMBER IS 197800AAA.
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** MOBIL OIL CORPORATION  
I-55 AND ARSENAL ROAD  
JOLIET, IL 60434-  
WILL COUNTY

**PERMIT/FILE NO.** 97030078  
**DETERMINATION MADE BY:** ILLINOIS EPA, DIV OF AIR POLL CONTROL  
**AGENCY CONTACT PERSON:** CHRISTOPHER ROMAINE  
**PHONE # (217) 782-2113**

**SCHEDULING INFORMATION:**  
**RECEIVED APPLICATION** 03/12/1997  
**PERMIT ISSUED** 11/10/1997  
**START UP** 11/01/1998  
**COMPLIANCE VERIFICATION** 04/01/1999  
**ESTIMATED/ACTUAL DATE**

| THROUGHPUT          | PROCESS/COMPLIANCE NOTES:  
|---------------------|-----------------------------
| **PROCESS NAME**    | CRUDE UNIT FEED PREHEATER RELOCATED FROM ANOTHER PROCESSING UNIT AT THE REFINERY. LIMITED SUPPLEMENTAL USE OF OIL ALLOWED WHEN THERE IS INSUFFICIENT SUPPLY OF GASEOUS FUEL.  
| **POLLUTANT NAME**  | **CAPACITY**  
| PREHEATER, FEED, CRUDE UNIT | 240.0000 MMBTU/H  

**COMPLIANCE WAS NOT VERIFIED.**

**COMPLIANCE METHOD (Y/N):**

- **STACK TEST:** N  
- **INSPECTION:** N  
- **CALCULATION:** N  
- **OTHER METHOD:**

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<tr>
<th>POLLUTANT</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
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<tr>
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COMPANY NAME/SITE LOCATION: PQ CORPORATION  
1945 DELANY ROAD  
GURNEE, IL 60031-  
LAKE COUNTY

PERMIT/FILE NO. 96010005

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL  
(AGENCY)  
CHRISTOPHER ROMAINE  
(AGENCY CONTACT PERSON)  
(217) 782-2113

AIRS ID NO. 0283

EMISSION LIMITS (P): PROCESS CODE THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

FURNACE, SODIUM SILICATE, TWO 0.00

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<td>SCC CODE 30107099</td>
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POLLUTION PREVENTION/CONTROL EQUIPMENT: LOW-NOX COMBUSTION TECHNOLOGIES.  
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: CONVERSION OF CONTAINER GLASS PLANT TO SODIUM SILICATE PRODUCTION.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: PQ CORPORATION
1945 DELANY ROAD
GURNEE, IL 60031

PERMIT/FILE NO. 96010005

PERMIT/FILE NO. 96010005

COMPANY NAME/SITE LOCATION: PQ CORPORATION
1945 DELANY ROAD
GURNEE, IL 60031

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: CHRISTOPHER ROMAINE

SCHEDULING INFORMATION:

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<td>START UP 07/01/1998 EST</td>
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<td>COMPLIANCE VERIFICATION 10/01/1998 EST</td>
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PROCESS NAME                    POLLUTANT NAME       CAPACITY
---------------------------------------------------------------
FURNACE, SODIUM SILICATE, TWO    NOX             0.0000

PROCESS/COMPLIANCE NOTES:

PRODUCTION OF SODIUM SILICATE FROM SAND AND SODA ASH.

COMPLIANCE METHOD (Y/N): STACK TEST: Y INSPECTION: N CALCULATION: N OTHER TEST: N

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: CHEWTON GLEN ENERGY
COTTAGE GROVE & 17TH STREET
FORD HEIGHTS, IL 60411-

PERMIT/FILE NO. 92090009

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL

JAMES COBB

AGENCY CONTACT PERSON

PHONE (217) 782-2113

BOILER, WASTE TIRE FIRED
PROCESS CODE 11.999
SCC CODE 10101201
THROUGHPUT 240.00 MMBTU/H

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<tr>
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<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>PM</td>
<td>0.0275 LB/MMBTU</td>
<td>0.0818 LB/MMBTU</td>
<td>FABRIC FILTER.</td>
<td>additive control</td>
<td>null</td>
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<tr>
<td>SO2</td>
<td>0.0818 LB/MMBTU</td>
<td>0.0818 LB/MMBTU</td>
<td>LIME SCRUBBER.</td>
<td>additive control</td>
<td>null</td>
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<td>NOX</td>
<td>0.0779 LB/MMBTU</td>
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<td>NONCATALYTIC REDUCTION</td>
<td>additive control</td>
<td>null</td>
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HCL 0.0055 LB/MMBTU
CAS NO. 7647-01-0
CONTROL METHOD: ADD LIME SCRUBBER.
ALTERNATIVE EMISSION

CO 0.0917 LB/MMBTU
CAS NO. 630-08-0
CONTROL METHOD: NO

VOC 0.0183 LB/MMBTU
CAS NO. VOC
CONTROL METHOD: NO

NOTES: INDEPENDENT ELECTRIC POWER PLANT DEVELOPED TO USE WASTE TIRES AS FUEL. A PUBLIC HEARING WAS HELD. THE SOURCE IS NEW.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CHEWTON GLEN ENERGY
COTTAGE GROVE & 17TH STREET
FORD HEIGHTS, IL 60411-

PERMIT/FILE NO. 92090009

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
AGENCY CONTACT PERSON: JAMES COBB

SCHEDULING INFORMATION:

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<td>START UP</td>
<td>01/01/1996 EST</td>
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<td>COMPLIANCE VERIFICATION</td>
<td>04/01/2000 EST</td>
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PROCESS NAME                  POLLUTANT NAME      CAPACITY
BOILER, WASTE TIRE FIRED       240.0000 MMBTU/H  COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:

THIS BOILER IS HAS SUPPLEMENTAL NATURAL GAS FIRED BURNERS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATIONS:
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

RBLC ID No. IL-0064

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

HCL
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: GENERAL MOTORS - ELECTROMOTIVE DIVISION
9301 WEST 55TH STREET
MCCKO, IL 60525-

PERMIT/FILE NO. 96080040

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL
RAY PILAPIL
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO. 0598

EMISSION LIMITS (P:\S) POLLUTION PREVENTION

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

TEST CELLS, DURABILITY, LOCOMOTIVE ENGINE,(MU1,2,5) 1556.00 T/YR

PROCESS CODE 99.999 SCC CODE 204000402

NOX CAS NO. 10102
0.0000 SEE:
0.0000

CONTROL METHOD: POLLUTION PREVENTION

NOTES: PSD PERMIT PROCESSED FOR TWO EXISTING TEST CELLS AFTER IT WAS DETERMINED
THAT CELLS WERE STATIONARY SOURCES, RATHER THAN MOBILE SOURCES. A
PUBLIC HEARING WAS HELD. THIS SOURCE WAS MODIFIED. IEPA ID NUMBER IS
031174AAA.
COMPANY NAME/SITE LOCATION: GENERAL MOTORS - ELECTROMOTIVE DIVISION
9301 WEST 55TH STREET
MCCKO, IL 60525-

PERMIT/FILE NO. 96080040

SCHEDULING INFORMATION:

RECEIVED APPLICATION  08/12/1996  ACT
PERMIT ISSUED        03/24/1997  ACT
START UP             09/01/1997  EST

COMPLIANCE NOTES:

TEST CELLS, DURABILITY, LOCOMOTIVE ENGINE, (MU1,2,5

CAPACITY

1556.0000 T/YR COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:

LOCOMOTIVE ENGINE TEST CELLS USED FOR EXTENDED OPERATION RELIABILITY AND DURABILITY TESTING. THE ENGINE DURABILITY TEST CELLS WILL BE IN DEVELOPING NEW ENGINES DESIGNED TO MEET THE FEDERAL STANDARDS.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  Y
CALCULATION:  N
OTHER METHOD:

NOX

CAPITAL COSTS:  $  0
O & M COSTS:  $  0
ANNUALIZED COSTS:  $  0
COST EFFECTIVENESS ($/TON):  0

COSTS ARE IN DOLLARS.
COMPANY NAME/SITE LOCATION: DEVRO-TEEPAK  
915 NORTH MICHIGAN AVENUE  
DANVILLE, IL 61832-  
VERMILION COUNTY

PERMIT/FILE NO. 97090100  
DATE OF PERMIT ISSUANCE-- 08/18/1998 ACT

DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL  
MINESH PATEL  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

PROCESS CODE 63.999  
SCC CODE 39990099  
CAS NO. VOC

MACHINES, THREE PROCESS, #8-#10

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<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tr>
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<td>CAS NO. VOC</td>
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CONTROL METHOD: POLLUTION PREVENTION

NOTES: NO PUBLIC HEARING WAS HELD. THE SOURCE IS MODIFIED. IEPA ID NUMBER IS 183804AAL.
COMPANY NAME/SITE LOCATION: DEVRO-TEEPACK  
915 NORTH MICHIGAN AVENUE  
DANVILLE, IL 61832-  
VERMILION COUNTY

PERMIT/FILE NO. 97090100 
DETERMINATION MADE BY: ILLINOIS EPA, DIV OF AIR POLL CONTROL  
AGENCY CONTACT PERSON: MINESH PATEL

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 08/25/1997 ACT  
PERMIT ISSUED 08/18/1998 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /

PROCESS NAME                  POLLUTANT NAME  
MACHINES, THREE PROCESS, #8-#10  
THROUGHPUT  
2200.0000 T/YR  
COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:  
THREE LINES (8-10) ARE BEING MODIFIED TO INCREASE PRODUCTION. EMISSIONS ARE LIMITED TO 2200 TONS/YEAR.

VOC  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: OWENS-BROCKWAY GLASS CONTAINER INC.
2481 BROOKSIDE
LAPEL, IN 46051-

PERMIT/FILE NO. CP 095-8204-00012

DETERMINATION MADE BY: INDIANA DEPT OF ENV MGMT, OFC OF AIR
MACK E SIMS

(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO. 095-00012

EMISSION LIMITS (P: (S:

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

FURNACE, MELT GLASS 22.20 T/H

PROCESS CODE 90.016
SCC CODE 3-05-014-02

SO2 193.4000 T/Y
CAS NO. 7446-09-5

0.0000

CONTROL METHOD: POLLUTION PREVENTION
SO2 INPUT PER AMBER GLASS BATCH LIMITED TO NO MORE THAN 0.3% BY WEIGHT.
5/5 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
REPORT DATE: 06/24/1999
COMPANY NAME/SITE LOCATION: OWENS-BROCKWAY GLASS CONTAINER INC.
2481 BROOKSIDE
LAPEL, IN 46051-
MADISON COUNTY
PERMIT/FILE NO. CP 095-8204-00012
DETERMINATION MADE BY: INDIANA DEPT OF ENV MGMT, OFC OF AIR
AGENCY CONTACT PERSON: MACK E SIMS
PHONE # (317) 233-0867
SCHEDULING INFORMATION:
RECEIVED APPLICATION 02/14/1997 ACT
PERMIT ISSUED 03/10/1998 ACT
START UP 04/02/1998 ACT
COMPLIANCE VERIFICATION 09/15/1998 ACT
THROUGHPUT
PROCESS NAME
FURNACE, MELT GLASS
POLLUTANT NAME
SO2
CAPACITY
22.2000 T/H
COMPLIANCE WAS NOT VERIFIED.
COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: STEEL DYNAMICS, INC.
4500 COUNTY RD 59
BUTLER, IN 46721-
DEKALB COUNTY

PERMIT/FILE NO. CP-003-9187-00043

DETERMINATION MADE BY: INDIANA DEPT OF ENV MGMT, OFC OF AIR
(AGENCY)
BRYAN SHEETS
(AGENCY CONTACT PERSON)

AIRS ID NO. 033-00043

EMISSION LIMITS (P:

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

FURNACE, SUBMERGED ARC 106.00 T/H

PROCESS CODE 81.006
SCC CODE 3-03-009-04

PM
0.0032 GR/D.
0.0032 GR/D.
CONTROL METHOD: ADD PARTICULATE SCRUBBER
2/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

SO2
CAS NO. 7446-09-5
0.0840 LB/T
0.0000
CONTROL METHOD: NO

NOX
CAS NO. 10102
0.1170 LB/T
0.0000
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
1.2600 LB/T
0.0000
CONTROL METHOD: ADD THERMAL OXIDIZER
5/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
VOC  0.0350 LB/T
CAS NO. VOC  0.0000
CONTROL METHOD:  NO

VE  3.0000 % OP.
CAS NO. VE  3.0000 % OP.
CONTROL METHOD:  ADD
PARTICULATE SCRUBBER

NOTES:
REPORT DATE: 06/24/1999  

COMPANY NAME/SITE LOCATION: STEEL DYNAMICS, INC.  
4500 COUNTY RD 59  
BUTLER, IN 46721-  

PERMIT/FILE NO. CP-003-9187-00043  

DETERMINATION MADE BY: INDIANA DEPT OF ENV MGMT, OFC OF AIR  
AGENCY CONTACT PERSON: BRYAN SHEETS  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 11/04/1997 ACT  
PERMIT ISSUED 03/24/1998 ACT  
START UP 11/15/1998 ACT  
COMPLIANCE VERIFICATION 01/21/1999 EST  

THROUGHPUT  

PROCESS NAME  
POLLUTANT NAME  
CAPACITY  

FURNACE, SUBMERGED ARC  
106.0000 T/H  

PROCESS/COMPLIANCE NOTES:  
SAF IS USED TO SMELT DIRECT REDUCED IRON (DRI) PELLETS.  

COMPLIANCE WAS VERIFIED.  

COMPLIANCE METHOD (Y/N):  
STACK TEST: Y  
INSPECTION: N  
CALCULATED:  
OTHER METHOD:  

PM  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  
COSTS ARE IN DOLLARS.  
COSTS ARE NOT VERIFIED BY AGENCY.
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<td>SCC CODE 3-04-003-50</td>
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<td>CAS NO. PM</td>
<td>0.0000</td>
<td>CONTROL METHOD: ADD</td>
<td>1/1 CONTROL OPTI</td>
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<tr>
<th>MATERIAL HANDLING SYSTEM, SAND, PHASE 2</th>
<th>600.00 T/H SAND</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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</table>
REPORT DATE: 06/24/1999

RBLC ID No. IN-0078

MATERIAL HANDLING SYSTEM, CORE SAND, PHENOLIC-URET

PROCESS CODE 81.004
SCC CODE 3-04-003-50

BE
CAS NO. 7440-41-7
0.0001 LB/H
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

PHENOLIC-URETHANE CORE MAKING PROCESS

PROCESS CODE 81.004
SCC CODE 3-04-003-71

VOC
CAS NO. VOC
0.6300 LB/T
CONTROL METHOD: ADD PACKED BED SCRUBBER
1/1 CONTROL OPTION

TEA
CAS NO. 121-44-8
0.1800 LB/T
CONTROL METHOD: ADD PACKED BED SCRUBBER
1/1 CONTROL OPTION

RAW MATL/METAL RETURNS HANDLING SYSTEM

PROCESS CODE 81.004
SCC CODE 3-04-003

PM
CAS NO. PM
0.0050 GR/D.
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION
CUPOLA, EXISTING

PROCESS CODE 81.004
SCC CODE 3-04-003-01

80.00 T/H IRON

CUPOLA, EXISTING

80.00 T/H IRON

REPORT DATE: 06/24/1999

RBLC ID No. IN-0078

DETAILS SOURCE LISTING (Part A)

PB
CAS NO. 7439-92-1
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

SO2
CAS NO. 7446-09-5
CONTROL METHOD: ADD LIME INJECTION SYSTEM
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<th>Substance</th>
<th>lb/T Iron</th>
<th>BACT-PSD</th>
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<td>PM</td>
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<td>0.0000</td>
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<tr>
<td>SO2</td>
<td>0.0000</td>
<td>0.0000</td>
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<tr>
<td>VOC</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CO</td>
<td>0.0000</td>
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Pouring/Cooling Process, Existing  25.00 T/H Iron

- Process Code: 81.004
- SCC Code: 3-04-003-18

- PM: 0.0050 GR/D.
- SO2: 0.0400 LB/T
CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

80.00 T/H IRON

REPORT DATE: 06/24/1999

RBLC ID No. IN-0078

NOX                              0.0100 LB/T IRON                 BACT-PSD
CAS NO. 10102                    0.0000                             0.000
CONTROL METHOD: NO CONTROLS FEASIBLE

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

NOX                              0.0100 LB/T IRON                 BACT-PSD
CAS NO. 10102                    0.0000                             0.000
CONTROL METHOD: NO CONTROLS FEASIBLE

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

SO2                              0.2200 LB/T IRON                 BACT-PSD
CAS NO. 7446-09-5                0.0000                            69.400
CONTROL METHOD: ADD-LIME INJECTION SYSTEM
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

VOC                              0.0200 LB/T IRON                 BACT-PSD
CAS NO. VOC                      0.0000                            88.900
CONTROL METHOD: ADD-RECUPERATIVE INCINER.
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PB                               0.2700 LB/H                      BACT-PSD
CAS NO. 7439-92-1                0.0000                            99.400
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

BE                               0.0008 LB/H                      BACT-PSD
CAS NO. 7440-41-7                0.0000                            99.400
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:

CUPOLA, PHASE 2

PROCESS CODE 81.004
SCC CODE 3-04-003-01

PM                              0.0780 GR/D.
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD: ADD-BAGHOUSE
1/1 CONTROL OPTI:
REPORT DATE: 06/24/1999

CO
CAS NO. 630-08-0
CONTROL METHOD: ADD RECUPERATIVE INCINER.
1/1 CONTROL OPTION

NOX
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
LOW NOX BURNERS OR INCINERATOR
1/1 CONTROL OPTION

TREATMENT STATION, DUCTILE IRON
80.00 T/H IRON

PROCESS CODE 81.004
SCC CODE 3-04-003

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

POURING/COOLING PROCESS, LINE 5, PHASE 2
25.00 T/H IRON

PROCESS CODE 81.004
SCC CODE 3-04-003-18

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION
SO2
CAS NO. 7446-09-5
1.0000 LB/H
0.0000
CONTROL METHOD: NO

VOC
CAS NO. VOC
12.5000 LB/H
0.0000
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
5.0000 LB/T
0.0000
CONTROL METHOD: NO

NOX
CAS NO. 10102
0.0100 LB/T
0.0000
CONTROL METHOD: NO

POURING/COOLING PROCESS, LINE 6&8, PHASE II
18.00 T/H IRON

PM
CAS NO. PM
0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1
0.0005 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
2.2000 E-5
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. IN-0078

SO2
CAS NO. 7446-09-5
0.7200 LB/H
0.0000
CONTROL METHOD: NO

VOC
CAS NO. VOC
9.0000 LB/T
0.0000
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
5.0000 LB/T
0.0000
CONTROL METHOD: NO

NOX
CAS NO. 10102
0.0100 LB/T
0.0000
CONTROL METHOD: NO

POURING/COOLING PROCESS, LINE 7, PHASE II
30.00 T/H IRON

PROCESS CODE 81.004
SCC CODE 3-04-003-18

PM
CAS NO. PM
0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1
0.0014 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
1.2000 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION
Detailed Source Listing (Part A)

RBLID No. IN-0078

REPORT DATE: 06/24/1999

SO2
CAS NO. 7446-09-5
1.2000 LB/H
0.0000
CONTROL METHOD: NO

VOC
CAS NO. VOC
15.0000 LB/H
0.0000
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
5.0000 LB/T
0.0000
CONTROL METHOD: NO

NOX
CAS NO. 10102
0.0100 LB/T
0.0000
CONTROL METHOD: NO

SHAKEOUT, LINE 1, EXISTING
25.00 T/H IRON

PROCESS CODE 81.004
SCC CODE 3-04-003-31

PM
CAS NO. PM
0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

CO
CAS NO. 630-08-0
1.0000 LB/T
0.0000
CONTROL METHOD: NO

VOC
CAS NO. VOC
0.1000 LB/T
0.0000
CONTROL METHOD: NO

COOLING PROCESS, CAST, EXISTING, LINE 1
25.00 T/H IRON

PROCESS CODE 81.004
SCC CODE 3-04-003-25

PM
CAS NO. PM
0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION
PICK AND SORT PROCESS, LINE 1, EXISTING

PROCESS CODE 81.004
SCC CODE 3-04-003

CLEANING AND GRINDING PROCESS, LINE 1, EXISTING

PROCESS CODE 81.004
SCC CODE 3-04-003-40

SHAKEOUT, LINE 5, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003-31
### Cast Cooling Process, Line 5, Phase II

**25.00 T/H Iron**

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<th>Substance</th>
<th>Emission Rate</th>
<th>Control Method</th>
<th>Control Option</th>
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<td>BE</td>
<td>2.8000 LB/H</td>
<td>ADD BAGHOUSE</td>
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<td>CAS No. 7440-41-7</td>
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<td>VOC</td>
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<td>CO</td>
<td>1.0000 LB/T</td>
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<td>CAS No. 630-08-0</td>
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<td>PM</td>
<td>0.0050 GR/D</td>
<td>ADD BAGHOUSE</td>
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<td>CAS No. PM</td>
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<td>PB</td>
<td>0.0009 LB/H</td>
<td>ADD BAGHOUSE</td>
<td>1/1</td>
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<td>BE</td>
<td>3.0000 LB/H</td>
<td>ADD BAGHOUSE</td>
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<td>CAS No. 7440-41-7</td>
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PICK AND SORT PROCESS, LINE 5, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003

25.00 T/H IRON

PM
CAS NO. PM
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

CLEANING AND GRINDING PROCESS, PHASE II, LINE 5

PROCESS CODE 81.004
SCC CODE 3-04-003-40

25.00 T/H IRON

PM
CAS NO. PM
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION
REPORT DATE: 06/24/1999

STAKEOUT, LINE 6, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003-31

18.00 T/H IRON

PM
0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1
0.0005 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7
2.2000 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

VOC
CAS NO. VOC
1.8000 LB/H
0.0000
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
1.0000 LB/T
0.0000
CONTROL METHOD: NO

CAST COOLING PROCESS, LINE 6, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003-25

18.00 T/H IRON

PM
0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

CAS NO. PM
PICK AND SORT PROCESS, LINE 6, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003

18.00 T/H IRON

PM
CAS NO. PM

0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1

0.0001 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7

5.0000 LB/H
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

CLEANING AND GRINDING PROCESS, LINE 6, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003-40

18.00 T/H IRON

PM
CAS NO. PM

0.0050 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. IN-0078

SHAKEOUT, LINE 7, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003-31

30.00 T/H IRON

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<th>Substance</th>
<th>CAS No.</th>
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<th>Control Options</th>
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<tr>
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<td>7439-92-1</td>
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<td>BE</td>
<td>7440-41-7</td>
<td>ADD BAGHOUSE</td>
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<td>VOC</td>
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### Cast Cooling Process, Line 7, Phase II

**Process Code:** 81.004  
**SCC Code:** 3-04-003-25  
**Iron:** 30.00 T/H

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<th>Compound</th>
<th>CAS No.</th>
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<td>CO</td>
<td>630-08-0</td>
<td>1.0000 LB/T</td>
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### Pick and Sort Process, Line 7 Phase II

**Process Code:** 81.004  
**SCC Code:** 3-04-003  
**Iron:** 30.00 T/H

<table>
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<tr>
<th>Compound</th>
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<th>Baghouse Options</th>
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<td>7439-92-1</td>
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<td>1/1 Control Opti:</td>
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<thead>
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<th>Compound</th>
<th>CAS No.</th>
<th>PM Control Method</th>
<th>Baghouse Options</th>
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<tbody>
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<td>7439-92-1</td>
<td>0.0009 LB/H</td>
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</tr>
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<td></td>
<td></td>
<td>1/1 Control Opti:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS No.</th>
<th>PM Control Method</th>
<th>Baghouse Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE</td>
<td>7440-41-7</td>
<td>3.0000 LB/H</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Control Method:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Add BAGHOUSE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/1 Control Opti:</td>
<td></td>
</tr>
</tbody>
</table>
BE  5.0000 LB/H  0.0000  
CAS NO. 7440-41-7  
CONTROL METHOD: ADD  
BAGHOUSE  
1/1 CONTROL OPTI:

CLEANING AND GRINDING PROCESS, LINE 7, PHASE II  30.00 T/H IRON

PM  0.0050 GR/D.  0.0000  
CAS NO. PM  
CONTROL METHOD: ADD  
BAGHOUSE  
1/1 CONTROL OPTI:

PB  0.0002 LB/H  0.0000  
CAS NO. 7439-92-1  
CONTROL METHOD: ADD  
BAGHOUSE  
1/1 CONTROL OPTI:

BE  1.0000 LB/H  0.0000  
CAS NO. 7440-41-7  
CONTROL METHOD: ADD  
BAGHOUSE  
1/1 CONTROL OPTI:

SHAKEOUT, LINE 8, PHASE II  18.00 T/H IRON

PM  0.0050 GR/D.  0.0000  
CAS NO. PM  
CONTROL METHOD: ADD  
BAGHOUSE  
1/1 CONTROL OPTI:

PB  0.0005 LB/H  0.0000  
CAS NO. 7439-92-1  
CONTROL METHOD: ADD  
BAGHOUSE  
1/1 CONTROL OPTI:
CAST COOLING PROCESS, LINE 8, PHASE II
18.00 T/H IRON

PROCESS CODE 81.004
SCC CODE 3-04-003-25

BE
CAS NO. 7440-41-7
1.0000 LB/H
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION SELECTED

VOC
CAS NO. VOC
1.8000 LB/H
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
1.0000 LB/T
CONTROL METHOD: NO

PM
CAS NO. PM
0.0050 GR/DSCF
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION SELECTED

PB
CAS NO. 7439-92-1
0.0007 LB/H
0.0000
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION SELECTED

BE
CAS NO. 7440-41-7
2.2000 LB/H
0.0000
CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION SELECTED
REPORT DATE: 06/24/1999

PICK AND SORT PROCESS, LINE 8, PHASE II

PROCESS CODE 81.004
SCC CODE 3-04-003

18.00 T/H IRON

PM
CAS NO. PM 0.0050 GR/D.
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1 0.0003 LB/H
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7 3.0000 LB/H
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

CLEANING AND GRINDING PROCESS, PHASE II, LINE 8

PROCESS CODE 81.004
SCC CODE 3-04-003-40

18.00 T/H IRON

PM
CAS NO. PM 0.0050 GR/D.
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

PB
CAS NO. 7439-92-1 0.0004 LB/H
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

BE
CAS NO. 7440-41-7 2.0000 LB/H
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION
NOTES: THIS PROJECT INVOLVES 1- THE EXPANSION OF EXISTING CUPOLA OPERATIONS (CP-123-4593) REFERRED TO AS PHASE I; (SEE IN-0068); AND 2- CONSTRUCTION OF A 2ND CUPOLA SYSTEM REFERRED TO AS PHASE II INCLUDING A DUCTILE IRON CUPOLA CORE MAKING PROCESS, 4 PRODUCTION LINES, SAND HANDLING SYSTEM, AND ANCILLARY EQUIPMENT.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WAUPACA FOUNDRY, INC.
9856 STATE HWY 66
TELL CITY, IN 47586

PERMIT/FILE NO. 123-8451

SCHEDULING INFORMATION:

| RECEIVED APPLICATION | 06/10/1997  ACT |
| PERMIT ISSUED         | 02/04/1998  ACT |
| START UP              | 02/01/1999  EST |
| COMPLIANCE VERIFICATION | 02/01/1999  EST |

PROCESS/COMPLIANCE NOTES:
PREVIOUSLY PERMITTED IN CP-123-4593 AT 400 TPH SAND.

PROCESS NAME                  POLLUTANT NAME     CAPACITY
MATERIAL HANDLING SYSTEM, SAND, EXISTING                0.0000 T/H SAND

THROUGHPUT
PREVIOUSLY PERMITTED IN CP-123-4593 AT 400 TPH SAND.

COMPLIANCE METHOD (Y/N):
STACK TEST:  Y
INSPECTION:  Y   CALCULATION:  N
OTHER METHOD:  MONITORING

PM
CAPITAL COSTS:  $  0
O & M COSTS:  $  0   COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
MATERIAL HANDLING SYSTEM, SAND, PHASE 2

PROCESS/COMPLIANCE NOTES:
SAND HANDLING SYSTEM INCLUDES SAND HANDLING AND SCREENING, SAND HANDLING, SAND BLENDING AND COOLING, AND SPENT SAND AND DUST HANDLING.

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PB
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

BE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

MATERIAL HANDLING SYSTEM, CORE SAND, PHENOLIC-URET

20.0000 T/H CORES

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER METHOD: MONITORING
REPORT DATE: 06/24/1999

RBLC ID No. IN-0078

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PHENOLIC-URETHANE CORE MAKING PROCESS
20.0000 T/H CORES
COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

TEA
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

RAW MATL/METAL RETURNS HANDLING SYSTEM
171.0000 T/H RAW MATL
COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
**CUPOLA, EXISTING**

PROCESS/COMPLIANCE NOTES:

- Monitoring; Continuous Emission Monitors for SO2 and Opacity.
- Previously permitted in CP-123-4593 at 60 T/H.

### PB
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

### BE
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

### PM
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

### PB
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

### BE
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

Compliance was verified.
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>CO</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Pouring/Cooling Process, Existing**

- **25,000 T/H Iron**
- Compliance was verified.

**Process/Compliance Notes:**

- Previously permitted in CP-123-4593 at 18 TPH iron.

**Compliance Method (Y/N):**
- Stack Test: Y
- Inspection: Y
- Calculation: N
- Other Method: Monitoring
CUPOLA, PHASE 2

80,000 T/H IRON

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
MONITORING; CONTINUOUS OPACITY MONITORING; CONTINUOUS EMISSION FOR SO2.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
OTHER METHOD: SEE NOTES BELOW

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
TREATMENT STATION, DUCTILE IRON

80.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING
REPORT DATE: 06/24/1999

POURING/COOLING PROCESS, LINE 5, PHASE 2

25.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y  CALCULATION: N  OTHER TEST: Y
OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

PB
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

BE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

REPORT DATE: 06/24/1999

CO    CAPITAL COSTS: $ 0
      O & M COSTS: $ 0  COSTS ARE IN
      ANNUALIZED COSTS: $ 0  COSTS ARE NOT
      COST EFFECTIVENESS ($/TON): 0

NOX   CAPITAL COSTS: $ 0
      O & M COSTS: $ 0  COSTS ARE IN
      ANNUALIZED COSTS: $ 0  COSTS ARE NOT
      COST EFFECTIVENESS ($/TON): 0

POURING/COOLING PROCESS, LINE 6&8, PHASE II

18.0000 T/H IRON

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS VERIFIED.

LIMITS APPLY TO EACH PROCESS LINE.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y  CALCULATION: N
OTHER TEST: Y  OTHER METHOD: MONITORING

PM    CAPITAL COSTS: $ 0
      O & M COSTS: $ 0  COSTS ARE IN
      ANNUALIZED COSTS: $ 0  COSTS ARE NOT
      COST EFFECTIVENESS ($/TON): 0

PB    CAPITAL COSTS: $ 0
      O & M COSTS: $ 0  COSTS ARE IN
      ANNUALIZED COSTS: $ 0  COSTS ARE NOT
      COST EFFECTIVENESS ($/TON): 0

BE    CAPITAL COSTS: $ 0
      O & M COSTS: $ 0  COSTS ARE IN
      ANNUALIZED COSTS: $ 0  COSTS ARE NOT
      COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. IN-0078

DATE ENTERED/UPDATED: 04/16/1999

RBLC ID No. IN-0078

SO2
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

POURING/COOLING PROCESS, LINE 7, PHASE II
30.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

PB
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999  
RBLC ID No. IN-0078  

DANGEROUS SOURCE LISTING (Part B)  

BE  
COST EFFECTIVENESS ($/TON): 0  

O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COSTS ARE NOT VERIFIED BY AGENCY.

SO2  
COST EFFECTIVENESS ($/TON): 0  

O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COSTS ARE NOT VERIFIED BY AGENCY.

VOC  
COST EFFECTIVENESS ($/TON): 0  

O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COSTS ARE NOT VERIFIED BY AGENCY.

CO  
COST EFFECTIVENESS ($/TON): 0  

O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COSTS ARE NOT VERIFIED BY AGENCY.

NOX  
COST EFFECTIVENESS ($/TON): 0  

O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COSTS ARE NOT VERIFIED BY AGENCY.

SHAKEOUT, LINE 1, EXISTING  
25,000 T/H IRON  
COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:  
PREVIOUSLY PERMITTED IN CP 123-4593 AT 18 TPH IRON.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCU
OTHER METHOD: MONITORING
COOLING PROCESS, CAST, EXISTING, LINE 1

PROCESS/COMPLIANCE NOTES:

PREVIOUSLY PERMITTED IN CP-123-4593 AT 18 TPH IRON.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

PICK AND SORT PROCESS, LINE 1, EXISTING

PROCESS/COMPLIANCE NOTES:

PREVIOUSLY PERMITTED IN CP 123-4593 AT 18 TPH IRON.
CLEANING AND GRINDING PROCESS, LINE 1, EXISTING

PROCESS/COMPLIANCE NOTES:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PB

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

SHAKEOUT, LINE 5, PHASE II

25.0000 T/H IRON

COMPLIANCE WAS VERIFIED.
| PM | CAPITAL COSTS: $0 | COST EFFECTIVENESS ($/TON): 0 |
| PB | CAPITAL COSTS: $0 | COST EFFECTIVENESS ($/TON): 0 |
| BE | CAPITAL COSTS: $0 | COST EFFECTIVENESS ($/TON): 0 |
| VOC | CAPITAL COSTS: $0 | COST EFFECTIVENESS ($/TON): 0 |
| CO | CAPITAL COSTS: $0 | COST EFFECTIVENESS ($/TON): 0 |

CAST COOLING PROCESS, LINE 5, PHASE II

25,000 T/H IRON

COMPLIANCE WAS VERIFIED.
REPORT DATE: 06/24/1999

RBLC ID No. IN-0078

REPORT DATE: 06/24/1999

RBLC ID No. IN-0078

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PB
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

BE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COST EFFECTIVENESS ($/TON): 0

PICK AND SORT PROCESS, LINE 5, PHASE II
25,000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
PB
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

BE
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

CLEANING AND GRINDING PROCESS, PHASE II, LINE 5
25.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  Y
INSPECTION:  Y
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

PM
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

PB
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

BE
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0
STAKEOUT, LINE 6, PHASE II

REPORT DATE: 06/24/1999
RBLC ID No. IN-0078

DETAILED SOURCE LISTING (Part B)

STAKEOUT, LINE 6, PHASE II

18.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

PM
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

PB
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

BE
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

VOC
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

CO
COST EFFECTIVENESS ($/TON): 0
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
CAST COOLING PROCESS, LINE 6, PHASE II

18.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  Y
INSPECTION:  Y       CALCULATION:  N        OTHER TEST:  Y
OTHER METHOD:  MONITORING

PM

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

PB

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

BE

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

PICK AND SORT PROCESS, LINE 6, PHASE II

18.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  Y
INSPECTION:  Y       CALCULATION:  N        OTHER TEST:  Y
OTHER METHOD:  MONITORING

PM

CAPITAL COSTS:  $  0
O & M COSTS:  $  0  COSTS ARE IN
ANNUALIZED COSTS:  $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
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<thead>
<tr>
<th></th>
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<th></th>
</tr>
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<tbody>
<tr>
<td>PB</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>BE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cleaning and Grinding Process, Line 6, Phase II</td>
<td>18.0000 T/H Iron</td>
<td>Compliance was verified.</td>
<td></td>
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</tr>
<tr>
<td>PM</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>PB</td>
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</tr>
<tr>
<td>BE</td>
<td>0</td>
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</table>
**COMPLIANCE WAS VERIFIED.**

**SHAKEOUT, LINE 7, PHASE II**

<table>
<thead>
<tr>
<th>Pb Tab</th>
<th>30.0000 T/H IRON</th>
<th>Pb Tab</th>
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</thead>
<tbody>
<tr>
<td><strong>PM</strong></td>
<td>CAPITAL COSTS: $0</td>
<td>O &amp; M COSTS: $0</td>
</tr>
<tr>
<td></td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
</tr>
<tr>
<td><strong>PB</strong></td>
<td>CAPITAL COSTS: $0</td>
<td>O &amp; M COSTS: $0</td>
</tr>
<tr>
<td></td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
</tr>
<tr>
<td><strong>BE</strong></td>
<td>CAPITAL COSTS: $0</td>
<td>O &amp; M COSTS: $0</td>
</tr>
<tr>
<td></td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
</tr>
<tr>
<td><strong>VOC</strong></td>
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<td>O &amp; M COSTS: $0</td>
</tr>
<tr>
<td></td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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<td>O &amp; M COSTS: $0</td>
</tr>
<tr>
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<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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</table>
CAST COOLING PROCESS, LINE 7, PHASE II  

30.0000 T/H IRON  
COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):  
STACK TEST:  Y  
INSPECTION:  Y  
CALCULATION:  N  
OTHER TEST:  Y  
OTHER METHOD:  MONITORING

PM  
CAPITAL COSTS:  $  0  
O & M COSTS:  $  0  
ANNUALIZED COSTS:  $  0  
COST EFFECTIVENESS ($/TON):  0

PB  
CAPITAL COSTS:  $  0  
O & M COSTS:  $  0  
ANNUALIZED COSTS:  $  0  
COST EFFECTIVENESS ($/TON):  0

BE  
CAPITAL COSTS:  $  0  
O & M COSTS:  $  0  
ANNUALIZED COSTS:  $  0  
COST EFFECTIVENESS ($/TON):  0

PICK AND SORT PROCESS, LINE 7 PHASE II  

30.0000 T/H IRON  
COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):  
STACK TEST:  Y  
INSPECTION:  Y  
CALCULATION:  N  
OTHER TEST:  Y  
OTHER METHOD:  MONITORING

PM  
CAPITAL COSTS:  $  0  
O & M COSTS:  $  0  
ANNUALIZED COSTS:  $  0  
COST EFFECTIVENESS ($/TON):  0
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<tr>
<th>Process</th>
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<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/ton)</th>
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</thead>
<tbody>
<tr>
<td>PB</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<tr>
<td>PM</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PB</td>
<td>0</td>
<td>0</td>
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<tr>
<td>BE</td>
<td>0</td>
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**Cleaning and Grinding Process, Line 7, Phase II**

30,000 T/h Iron

Compliance was verified.

Compliance Method (Y/N): Y

Stack Test: Y

Inspection: Y

Calculation: N

Other Method: Monitoring
SHAKEOUT, LINE 8, PHASE II

18.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: MONITORING

<table>
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<tr>
<th>PM</th>
<th>CAPITAL COSTS: $0</th>
<th>O &amp; M COSTS: $0</th>
<th>ANNUALIZED COSTS: $0</th>
<th>COST EFFECTIVENESS ($/TON): 0</th>
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<tbody>
<tr>
<td>PB</td>
<td>CAPITAL COSTS: $0</td>
<td>O &amp; M COSTS: $0</td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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<tr>
<td>BE</td>
<td>CAPITAL COSTS: $0</td>
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<td>ANNUALIZED COSTS: $0</td>
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<td>VOC</td>
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<td>O &amp; M COSTS: $0</td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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<tr>
<td>CO</td>
<td>CAPITAL COSTS: $0</td>
<td>O &amp; M COSTS: $0</td>
<td>ANNUALIZED COSTS: $0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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CAST COOLING PROCESS, LINE 8, PHASE II

18.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y CALCULATION: N
OTHER TEST: Y OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PB
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

BE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PICK AND SORT PROCESS, LINE 8, PHASE II

18.0000 T/H IRON

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y OTHER METHOD: MONITORING

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  489

RBLC ID No. IN-0078                                        DATE ENTERED/UPDATED:  04/16/1999

PB  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

BE  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

CLEANING AND GRINDING PROCESS, PHASE II, LINE 8 18.0000 T/H IRON  COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):  
STACK TEST: Y  
INSPECTION: Y  
CALCULATION: N  
OTHER TEST: Y  
OTHER METHOD: MONITORING  

PM  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

PB  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

BE  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: AIR LIQUIDE AMERICA CORPORATION
HIGHWAY 75
GEISMAR, LA 70734-
ASCENSION PARISH PARISH

PERMIT/FILE NO. PSD-LA-622

DETERMINATION MADE BY: LOUISIANA DEPARTMENT OF ENV QUALITY
(AGENCY)
DAN C. NGUYEN
(AGENCY CONTACT PERSON)

AIRS ID NO.

Emission Limits (P: Standard)

<table>
<thead>
<tr>
<th>Process Code</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>Est % Eff</th>
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<tbody>
<tr>
<td>PROCESS CODE 15.004</td>
<td>966.00 MMBTU/H</td>
<td>PM10</td>
<td>18.7000 LB/H</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td>SCC CODE 2-02-002-03</td>
<td></td>
<td>CAS NO. PM</td>
<td>0.0000 PPMV @ 15% O2</td>
<td>0.000</td>
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<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>GOOD COMBUSTION PRACTICES AND USE CLEAN NATURAL GAS AS FUEL.</td>
<td>4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td>NOX</td>
<td>9.0000 PPMV</td>
<td>CAS NO. 10102</td>
<td>9.0000 PPM @ 15% O2</td>
<td>BACT-PSD</td>
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<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>DRY LOW NOX TO LIMIT NOX EMISSION TO 9PPMV</td>
<td>5/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td>CO</td>
<td>25.0000 PPMV</td>
<td>CAS NO. 630-08-0</td>
<td>25.0000 PPM @ 15% O2</td>
<td>BACT-PSD</td>
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<tr>
<td></td>
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<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>GOOD EQUIPMENT DESIGN, PROPER COMBUSTION TECHNIQUE AND MIN. 2% EXCESS O2</td>
<td>3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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</table>
DUCT BURNER

PROCESS CODE 11.005
SCC CODE 1-02-006-04

<table>
<thead>
<tr>
<th>Substance</th>
<th>Emission Rate</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>0.1000 LB/MMBTU</td>
<td>LOW NOX BURNERS</td>
</tr>
<tr>
<td>CO</td>
<td>25.0000 PPMV</td>
<td>POLLUTION PREVENTION</td>
</tr>
<tr>
<td>PM10</td>
<td>18.7000 LB/H</td>
<td>POLLUTION PREVENTION</td>
</tr>
</tbody>
</table>

BOILER NO. 1

PROCESS CODE 11.005
SCC CODE 1-02-006-04

<table>
<thead>
<tr>
<th>Substance</th>
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<th>Control Method</th>
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<tbody>
<tr>
<td>NOX</td>
<td>0.0500 LB/MMBTU</td>
<td>LOW NOX BURNERS</td>
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<tr>
<td>CO</td>
<td>0.0600 LB/MMBTU</td>
<td>POLLUTION PREVENTION</td>
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</tbody>
</table>

Note: All emissions are controlled through good design, proper operating practices, and 2% excess oxygen.
PM10 0.0100 LB/MMBTU
CAS NO. PM 0.0100 LB/MMBTU

CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN, PROPER OPERATING PRACTICES, AND USE CLEAN NATURAL GAS
4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: NEW COGEN UNIT, NATURAL GAS FIRED FRAME 7 GE TURBINE WITH DUCT BURNER
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: AIR LIQUIDE AMERICA CORPORATION
HIGHWAY 75
GEISMAR, LA 70734–

PERMIT/FILE NO. PSD-LA-622

SCHEDULING INFORMATION:
RECEIVED APPLICATION 10/13/1997 ACT
PERMIT ISSUED 02/13/1998 ACT
START UP / / COMPLIANCE VERIFICATION / /

PROCESS NAME TURBINE GAS, GE, 7ME 7
POLLUTANT NAME PM10 NOX
CAPACITY 966.0000 MMBTU/H

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATED:
OTHER METHOD:

COMPLIANCE WAS NOT VERIFIED.
<table>
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<tr>
<th>Source</th>
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<th>Stack Test</th>
<th>Inspection</th>
<th>Calculation</th>
<th>Other Test</th>
<th>Other Method</th>
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<tbody>
<tr>
<td>DUCT BURNER</td>
<td>426.0000 MMBTU/H</td>
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<tr>
<td>CO</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PM10</td>
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<tr>
<td>BOILER NO. 1</td>
<td>95.0000 MMBTU/H</td>
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<tr>
<td>Compound</td>
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<td>O &amp; M Costs:</td>
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<td>Cost Effectiveness ($/TON):</td>
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<tr>
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<tr>
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<td>PM10</td>
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<td>$0</td>
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</table>
**COMPANY NAME/SITE LOCATION:** BASF CORPORATION  
P.O. Box 457  
Geismar, LA 70734-0457  
**PERMIT/FILE NO.:** PSD-LA-613  
**ASCENSION PARISH**  
**PERMIT/FILE NO.:** PSD-LA-613  
**PERMIT/FILE NO.:** PSD-LA-613  
**DATE OF PERMIT ISSUANCE:** 12/30/1997  
**START-UP DATE:** / /  

**DETERMINATION MADE BY:** LOUISIANA DEPARTMENT OF ENV QUALITY  
**AGENCY:**  
**AGENCY CONTACT PERSON:** DAN C. NGUYEN  
**PHONE:** (504) 765-2546  

**AIRS ID NO.**  

**PROCESSES SUBJECT TO THIS PERMIT**  

<table>
<thead>
<tr>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
<th>EMISSION LIMITS (P, S)</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NOX</strong></td>
<td>8.0000 PPMV</td>
<td></td>
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<td>8.0000 PPM</td>
<td>8.0000 PPM</td>
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<tr>
<td><strong>CAS NO.</strong></td>
<td>10102</td>
<td></td>
<td>CONTROL METHOD: BOT. STEAM INJECTION AND NATURAL GAS AND 25%</td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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</tr>
<tr>
<td><strong>PM10</strong></td>
<td>5.4000 LB/H</td>
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<tr>
<td><strong>CAS NO.</strong></td>
<td>PM</td>
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<td>CONTROL METHOD: POL GOOD DESIGN, PROPER GASEOUS FUELS</td>
<td>4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td><strong>CO</strong></td>
<td>83.9300 LB/MMBTU</td>
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<td></td>
<td>0.0000 PPM</td>
<td>0.0000 PPM</td>
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</tbody>
</table>

**CONTROL METHOD:** BOTH P2 & ADD-ON CONTROL EQUIPMENT

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**CONTROL METHOD:** POLLUTION PREVENTION

GOOD DESIGN, PROPER OPERATING PRACTICES, USE GASEOUS FUELS

4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED
DUCT BURNER, COGEN UNIT NO. 2

PROCESS CODE 11.005
SCC CODE 1-02-006-04

0.40 MMLB/H STEAM

NOX
CAS NO. 10102

8.0000 PPMV
0.0000
CONTROL METHOD: BOTH
LOW NOX BURNERS AND SCR TO LIMIT NOX TO 8 PPM FOR NATURAL GAS AND 25 PPM FOR WASTE GAS (80% H2)
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PM10
CAS NO. PM

5.4000 LB/H
0.0000
CONTROL METHOD: POL
GOOD DESIGN, PROPER USE GASEOUS FUELS
4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630-08-0

83.9300 LB/HR
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN, PROPER 2% EXCESS O2
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: BASF CORPORATION
P.O. BOX 457
GEISMAR, LA 70734-0457

PERMIT/FILE NO. PSD-LA-613

SCHEDULING INFORMATION:
RECEIVED APPLICATION 04/30/1997 ACT
PERMIT ISSUED 12/30/1997 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / / ACT

PROCESS NAME POLLUTANT NAME CAPACITY
TURBINE, COGEN UNIT 2, GE FRAME 6 42.4000 MW

<table>
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<th>PM10</th>
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<tr>
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<td>COST EFFECTIVENESS ($/TON):</td>
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COMPLIANCE WAS NOT VERIFIED
COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATED OTHER METHOD:
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. LA-0113

DUCT BURNER, COGEN UNIT NO. 2

0.4000 MMLB/H STEAM

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)
RBLC ID No. LA-0114

COMPANY NAME/SITE LOCATION:  CHEVRON CHEMICAL COMPANY
9901 HWY 18
ST. JAMES, LA 70792--ST. JAMES PARISH

PERMIT/FILE NO. PSD-LA-551(M-3)

DETERMINATION MADE BY:  LOUISIANA DEPARTMENT OF ENV QUALITY
[AGENCY]
DAN C. NGUYEN
[AGENCY CONTACT PERSON]
(504) 765-2546

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tbody>
<tr>
<td>11.005</td>
<td>600.00 MMBTU/H</td>
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<td>CONTROL METHOD: POL</td>
<td>GOOD DESIGN AND OPER.</td>
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<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td></td>
<td></td>
<td>CAS NO. 630-08-0</td>
<td>0.1000 LB/MMBTU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: POL</td>
<td>PROPER OPERATING TEC. COMBUSTION CONTROLS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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</tr>
</tbody>
</table>
### SUPERHEATER

**Process Code:** 11.005  
**SCC Code:** 1-02-006-01  

**Superheater Output:** 165.00 MMBTU/H

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Quantity (LB/MMBTU)</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>0.0030</td>
<td>Pollution Prevention, proper operating techniques with automatic controls, 3% excess O2</td>
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<tr>
<td>PM10</td>
<td>0.0050</td>
<td>Pollution Prevention</td>
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<tr>
<td>NOX</td>
<td>0.0700</td>
<td>Ultra-low NOx burners</td>
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<tr>
<td>CO</td>
<td>0.0400</td>
<td>Pollution Prevention, proper operating techniques with automatic controls, 3% excess O2</td>
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<tr>
<td>VOC</td>
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<td>Pollution Prevention, proper operating techniques with automatic controls, 3% excess O2</td>
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</table>
REPORT DATE: 06/24/1999

ETHELBENZENE/BENZENE TANK 0.00

PROCESS CODE 42.009
SCC CODE 4-07-999-99

VOC 3.2600 LB/H
CAS NO. VOC 0.000

CONTROL METHOD: POLLUTION PREVENTION
EXTERNAL FLOATING ROOF
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: MODIFICATION TO THE EXISTING STYRENE PRODUCTION FACILITY
COMPANY NAME/SITE LOCATION: CHEVRON CHEMICAL COMPANY
9901 HWY 18
ST. JAMES, LA 70792-
ST. JAMES PARISH

PERMIT/FILE NO. PSD-LA-551(M-3) DETERMINATION MADE BY: LOUISIANA DEPARTMENT OF ENV QUALITY
AGENCY CONTACT PERSON: DAN C. NGUYEN

SCHEDULING INFORMATION:
RECEIVED APPLICATION 07/16/1996 ACT
PERMIT ISSUED 12/10/1997 ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME                  POLLUTANT NAME             CAPACITY
BOILER, F                                     600.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES: FUELED BY NATURAL GAS (55%) AND PROCESS RESIDUES (45%)

COMPLIANCE WAS NOT VERIFIED:
COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
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<tr>
<th>Substance</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
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<td>0</td>
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<tr>
<td>CO</td>
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<tr>
<td>VOC</td>
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<td>SUPERHEATER</td>
<td>165.0000 MMBTU/H</td>
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</tr>
<tr>
<td>CO</td>
<td>0</td>
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</tr>
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<td>VOC</td>
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<td>O &amp; M COSTS: $ 0</td>
<td>ANNUALIZED COSTS: $ 0</td>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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<tr>
<td>ETHYLBENZENE/BENZENE TANK</td>
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<td>STACK TEST: N</td>
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<td>INSPECTION: N</td>
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<td>CALCULATION: N</td>
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<td></td>
<td>OTHER METHOD:</td>
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</table>
COMPANY NAME/SITE LOCATION: SHELL CHEMICAL COMPANY
P. O. BOX 500
GEISMAR, LA 70734-

PERMIT/FILE NO. PSD-LA-611

DETERMINATION MADE BY: LOUISIANA DEPARTMENT OF ENV QUALITY
(AGENCY)
DAN C. NGUYEN
(AGENCY CONTACT PERSON)

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT POLLUTION PREVENTION/CONTROL EQUIPMENT BASIS

PROCESSES SUBJECT TO THIS PERMIT

HEATER, HOT OIL
PROCESS CODE 11.005
SCC CODE 1-02-006-02

54.90 MMBTU/H

NOX
0.0600 LB/MMBTU
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
LOW NOX BURNERS AND 5/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
2.0900 MMBTU/H
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
PROPER OPERATING TECHNIQUES WITH AUTOMATIC COMBUSTION CONTROL, 2% EXCESS O2
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
BOILER

PROCESS CODE 11.005
SCC CODE 1-02-006-01

300.00 MMBTU/H

NOX
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
LOW NOX BURNER AND INTERNAL FLUE GAS RECIRCULATION (FGR)
5/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
PROPER OPERATING TECHNIQUES WITH AUTOMATIC COMBUSTION CONTROLS, 2% EXCESS O2
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

PROCESS VENTS AND TANKS

PROCESS CODE 64.003
SCC CODE 4-07-999-99

38.00 MMBTU/H

NOX
CAS NO. 10102
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT USING CATALYST BED IN DESIGN TO LOWER OPERATING TEMPERATURE TO PREVENT NOX FORMATION FROM CATALYTIC THERMAL OXIDIZER.
5/5 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN AND PROPER OPERATING TECHNIQUES.
2% EXCESS O2
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
IC ENGINES, 5 UNITS

PROCESS CODE 15.002
SCC CODE 2-02-001-02

NOX 6.9000 G/B-
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN AND PROPER OPERATING PRACTICES
6/6 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO 8.5000 G/B-
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN AND PROPER OPERATING PRACTICES

FLARES, VENTED, PLANTWIDE EMISSIONS

PROCESS CODE 64.999
SCC CODE 4-07-999-99

NOX 5.5000 LB/H
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN AND PROPER OPERATING PRACTICES

COMPLY WITH 40 CFR 60.18
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO 29.2200 LB/H
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN AND PROPER OPERATING PRACTICES

COMPLY WITH 40 CFR 60.18
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. LA-0115

CO
CAS NO. 630-08-0

179.6400 LB/H
0.0000

CONTROL METHOD: POLLUTION PREVENTION
GOOD DESIGN AND PROPER OPERATING PRACTICES FOR FLARE TO COMPLY WITH 40 CFR 60.18

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: CONSTRUCT A NEW POLYMER PRODUCTION COMPLEX
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SHELL CHEMICAL COMPANY
P. O. BOX 500
GEISMAR, LA 70734-

PERMIT/FILE NO. PSD-LA-611

Determination Made By: LOUISIANA DEPARTMENT OF ENV QUALITY
Agency Contact Person: DAN C. NGUYEN

Scheduling Information:

Received Application 03/19/1997 ACT
Permit Issued 11/03/1997 ACT
Start Up / /
Compliance Verification / /

Throughput

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<tr>
<th>Process Name</th>
<th>Pollutant Name</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEATER, HOT OIL</td>
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<td>54.9000 MMBTU/H</td>
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Compliance was not verified.

Compliance Method (Y/N):
Stack Test: N
Inspection: N
Calculation: N
Other Method:

NOX
Capital Costs: $ 0
O & M Costs: $ 0
Annualized Costs: $ 0
Cost Effectiveness ($/Ton): 0

CO
Capital Costs: $ 0
O & M Costs: $ 0
Annualized Costs: $ 0
Cost Effectiveness ($/Ton): 0
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. LA-0115

BOILER

300.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PROCESS VENTS AND TANKS

38.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
THE THERMAL OXIDIZER IS USED TO CONTROL VOC VAPOR FROM PROCESS AND TANKS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
IC ENGINES, 5 UNITS

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS NOT VERIFIED.

S IC ENGINES RANGES FROM 50 TO 415 HP

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

CO

COST EFFECTIVENESS ($/TON):  0

FLARES, VENTED, PLANTWIDE EMISSIONS

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

NOX

COST EFFECTIVENESS ($/TON):  0
REPORT DATE: 06/24/1999

CO

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

FLARE, VENTED, PLANTWIDE EMISSIONS

0.0000  COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATION:  N  OTHER TEST:  N
OTHER METHOD:

NOX

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

CO

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
COMPANY NAME/SITE LOCATION: MILLENNIUM POWER PARTNER, LP
ROUTE 169
CHARLTON, MA 01507-

PERMIT/FILE NO. 130921

DETERMINATION MADE BY: MASSACHUSETTS DEP, CENTRAL REG AIR QUAL GARY ROFCOE
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO.

EMISSION LIMITS (STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, COMBUSTION, WESTINGHOUSE MODEL 501G 2534.00 MMBTU/H

PROCESS CODE 15.007
SCC CODE 20102001

NOX 0.0130 LB/MMBTU
CAS NO. 10102

CO 0.0700 LB/MMBTU
CAS NO. 630-08-0

VOC 0.0013 LB/MMBTU
CAS NO. VOC

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW-NOX COMBUSTION TECHNOLOGY IN CONJUNCTION WITH SCR ADD-ON NOX.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  515

RBLC ID No. MA-0021                                        DATE ENTERED/UPDATED:  04/19/1999

PM10                             0.0050 LB/MMBTU                  BACT-PSD
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY IN CONJUNCTION
WITH SCR ADD-ON NOX;

SO2                              0.0023 LB/MMBTU                  BACT-PSD
CAS NO. 7446-09-5                0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY IN CONJUNCTION
WITH SCR ADD-ON NOX;

NH3                              0.0136 LB/MMBTU                  BACT-PSD
CAS NO. 7664-41-7                0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY IN CONJUNCTION
WITH SCR ADD-ON NOX;

SULFURIC ACID MIST               0.0008 LB/MMBTU 1-HR AVG         BACT-PSD
CAS NO. 7664-93-9                0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY IN CONJUNCTION
WITH SCR ADD-ON NOX;

VE                               10.0000 % OPACITY                 BACT-PSD
CAS NO. VE                       0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY IN CONJUNCTION
WITH SCR ADD-ON NOX;

NOTES:  COMBINED CYCLE POWER GENERATING FACILITY OF 360 MW NOMINAL OUTPUT, WITH COM-
BUSTION TURBINE GENERATOR (230 MW). THE HOT EXHAUST GASES EXITING THE TUR-
BINE WILL PASS THROUGH A HEAT RECOVERY STEAM GENERATOR UN-FIRED (HRSG) WHICH
WILL USE THE HEAT FROM THESE GASES TO PRODUCE STEAM. THIS STEAM WILL BE FED
INTO A CONDENSING STEAM TURBINE TO GENERATE A NOMINAL OUTPUT OF 130 MW OF
ELECTRIC POWER. THIS FACILITY WILL OPERATE 24 HOURS/DAY AND 7 DAYS /WEEK.
COMPANY NAME/SITE LOCATION: MILLENNIUM POWER PARTNER, LP
ROUTE 169
CHARLTON, MA 01507- WORCESTOR COUNTY

PERMIT/FILE NO. 130921

DETERMINATION MADE BY: MASSACHUSETTS DEP, CENTRAL REG AIR QU.
AGENCY CONTACT PERSON: GARY ROFCOE
PHONE # (508) 792-7650

SCHEDULING INFORMATION:
RECEIVED APPLICATION 11/21/1997 ACT
PERMIT ISSUED 02/02/1998 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / /

PROCESS NAME                          POLLUTANT NAME     CAPACITY

TURBINE, COMBUSTION, WESTINGHOUSE MODEL 501G 2534.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
BACK UP FUEL WILL BE DISTILLATE OIL WITH 2842 MMBTU/HR HEAT INPUT. THIS FUEL WILL BE LIMITED TO 720 HOURS/12 MONTH ROLLING PERIOD WITH CONTENT NOT IN EXCESS OF .05 PERCENT BYY WEIGHT.

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COMPLIANCE WAS NOT VERIFIED.
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<th>Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
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<tr>
<td>CO</td>
<td>$0</td>
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<td>VOC</td>
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COMPANY NAME/SITE LOCATION: BERKSHIRE POWER DEVELOPMENT, INC.
MOYLAN LANE
AGAWAM, MA 01001-
COUNTY

PERMIT/FILE NO. 1-X-95-093

DETERMINATION MADE BY: MASSACHUSETTS, OTHER
(AGENCY)

CRAIG GOFF
(AGENCY CONTACT PERSON)

PHONE (413) 755-2277

AIRS ID NO.

EMISSION LIMITS (P:

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, COMBUSTION, ABB GT24 1792.00 MMBTU/H

PROCESS CODE 15.007
SCC CODE 20100201

NOX 20.3000 LB/H 0.0000 CASE NO. 10102
CONTROL METHOD: BOTH DRY LOW NOX COMBUSTION NOX CONTROL.

SO2 4.0000 LB/H 0.0000 CASE NO. 7446-09-5
CONTROL METHOD: BOTH DRY LOW NOX COMBUSTION NOX CONTROL.

VOC 6.3000 LB/H 0.0000 CASE NO. VOC
CONTROL METHOD: BOTH DRY LOW NOX COMBUSTION NOX CONTROL.
PM
CAS NO. PM
17.4000 LB/H
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.

CO
CAS NO. 630-08-0
14.3000 LB/H
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.

CO
CAS NO. 630-08-0
0.0000
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.

VOC
CAS NO. VOC
0.3000 LB/H
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.

ENGINE, CHILLER, NATURAL GAS-FIRED, TWO
PROCESS CODE 15.004
SCC CODE 10100702
23.40 MM BTU/H

NOX
CAS NO. 10102
0.7000 LB/H
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.

CO
CAS NO. 630-08-0
0.4000 LB/H
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.

VOC
CAS NO. VOC
0.3000 LB/H
0.0000
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON NOX CONTROL.
NOTES: IT IS A COMBINED CYCLE INDEPENDENT POWER FACILITY OF APPROX. 272 MW NET NO
MINAL OUTPUT. THE FACILITY CONSIST OF A COMBUSTION TURBINE OF APPROX. 178 M
W OUTPUT CAPACITY, A HEAT RECOVERY STEAM GENERATOR (HRSG) WITH NO SUPPLEMENTAL
GAS DUCT FIRING, A NOMINAL 100 MW CONDENSING STEAM TURBINE GENERATOR, A
WET MECHANICAL COOLING TOWER, AND ANCILLARY EQUIPMENT. ADDITIONALLY, THERE
WILL BE TWO NATURAL GAS-FIRED CHILLER ENGINES (MAXIMUM HEAT INPUT CAPACITY
OF 23.4 MMBTU/HR) AVAILABLE. THE PRIMARY FUEL FOR THE FACILITY WILL BE
NATURAL GAS WITH .05% SULFUR DISTILLATE OIL AS THE BACKUP, UP TO A MAXIMUM
USAGE OF 720 HOURS PER YEAR.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: BERKSHIRE POWER DEVELOPMENT, INC.
Moylan Lane
Agawam, MA 01001-

PERMIT/FILE NO. 1-X-95-093

RECEIVED APPLICATION 05/06/1997 ACT
PERMIT ISSUED 09/22/1997 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / /

PROCESS NAME: TURBINE, COMBUSTION, ABB GT24
CAPACITY 1792.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
THE HOT EXHAUST GASES EXITING THE TURBINE WILL PASS THROUGH A HEAT RECOVERY STEAM GENERATOR (HRSG) WHICH WILL USE THE HEAT FROM THESE GASES TO PRODUCE STEAM WHICH WILL FEED INTO A STEAM TURBINE TO GENERATE 100MW OF ELECTRIC POWER.

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N CALCULATION: N OTHER TEST: N OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. MA-0022

DETAILS:

SO2
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

VOC
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

PM
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

CO
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

ENGINES, CHILLER, NATURAL GAS-FIRED, TWO

23.4000 MM BTU/H

PROCESS/COMPLIANCE NOTES:

TO COOL THE INTAKE AIR FOR ADDITIONAL TURBINE EFFICIENCY AND CAPACITY WHEN AMBIENT TEMPERATURE IS GREATER THAN 55°F.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

NOX
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0
<table>
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<th></th>
<th>CAPITAL COSTS: $</th>
<th>O &amp; M COSTS: $</th>
<th>ANNUALIZED COSTS: $</th>
<th>COST EFFECTIVENESS ($/TON):</th>
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<tbody>
<tr>
<td>CO</td>
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<td>0</td>
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</tr>
<tr>
<td>VOC</td>
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</table>
COMPANY NAME/SITE LOCATION: Dighton Power Associate, LP

SOMERSET AVENUE
DIGHTON, MA 02715-

PERMIT/FILE NO. 4B96096

DETERMINATION MADE BY: MASSACHUSETTS DIV OF AIR QUAL CONTROL
(AGENCY)

MARK Poudrier
(AGENCY CONTACT PERSON)                      (PHONE) (508) 946-2700

AIRS ID NO.

EMISSION LIMITS (P:\(S:\)

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, COMBUSTION, ABB GT11N2

PROCESS CODE 15.004
SCC CODE 20100201

THROUGHPUT

CAPACITY

POLLUTANT NAME

RANKING INFORMATION

EST % EFF

TOB & ADD-ON CONTROL EQUIPMENT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.

SO2
CAS NO. 7446-09-5

3.0500 LB/H
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION
NOX CONTROL.

PM10
CAS NO. PM

12.5000 LB/H
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION
NOX CONTROL.

NOX
CAS NO. 10102

17.1200 LB/H
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION
NOX CONTROL.
CO
CAS NO. 630-08-0
5.9700 LB/H
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.

VOC
CAS NO. VOC
5.1000 LB/H
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.

NH3
CAS NO. 7664-41-7
18.0500 LB/H
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.

ENGINE, DIESEL, FIRE PUMP
1.50 MMBTU/H

SO2
CAS NO. 7446-09-5
0.0530 LB/MMBTU
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.

PM10
CAS NO. PM
0.3100 LB/MMBTU
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.

NOX
CAS NO. 10102
4.4100 LB/MMBTU
0.0000
CONTROL METHOD: BOT
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON
NOX CONTROL.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  526
}                                                        DAT. 
RBLC ID No. MA-0023                                        DATE ENTERED/UPDATED: 04/19/1999

CO                               0.9500 LB/MMBTU  
CAS NO. 630-08-0  
0.0000                             0.000 
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT  
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON  
NOX CONTROL.

VOC                              0.3600 LB/MMBTU  
CAS NO. VOC  
0.0000                             0.000 
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT  
DRY LOW NOX COMBUSTION TECHNOLOGY WITH SCR ADD-ON  
NOX CONTROL.

NOTES:  THE FACILITY WILL USE AN INDEPENDENT COMBINED CYCLE POWER FACILITY OF 170 
MW. IT IS BASED ON A COMBUSTION TURBINE WITH CAPACITY OF 110 MW AND A HEAT 
INPUT 1327 MMBTU/HR AT 50F AND 100% LOAD. THE HOT EXHAUST GASES EXITING THE 
TURBINE WILL PASS THROUGH A HEAT RECOVERY STEAM GENERATOR WHICH WILL USE 
HEAT FROM THESE GASES TO PRODUCE STEAM. THIS STEAM WILL FED TO THE CONDEN-
SING TURBINE TO GENERATE ANOMINAL OUTPUT OF 65 MW OF ELECTRIC POWER. THERE 
WILL BE NO SUPPLEMENTAL FIRING IN HRSG.
COMPANY NAME/SITE LOCATION: DIGHTON POWER ASSOCIATE, LP
SOMERSET AVENUE
DIGHTON, MA 02715-
COUNTY

PERMIT/FILE NO. 4B96096

SCHEDULING INFORMATION:

RECEIVED APPLICATION 09/29/1997 ACT
PERMIT ISSUED 10/06/1997 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / / ACT

PROCESS NAME                  POLLUTANT NAME             CAPACITY

TURBINE, COMBUSTION, ABB GT11N2 1327.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:

THE HOT EXHAUST GASES EXITING THE TURBINE WILL PASS THROUGH HRG WHICH WILL USE THE FROM THESE GASES TO PRODUCE STEAM WITH NO SUPPLEMENTAL FIRING. THIS STEAM WILL BE FED INTO A CONDENSING STEAM TURBINE TO GENERATE 65 MW EL

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

SO2

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

RBLC ID No. MA-0023

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

NH3
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

ENGINE, DIESEL, FIRE PUMP
1.5000 MM BTU/H
COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
PUMP IS OPERATING A MAXIMUM OF 300 HOURS PER YEAR FOR EMERGENCY ONLY.
<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
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<tr>
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<td>VOC</td>
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</table>
COMPANY NAME/SITE LOCATION: RUMFORD POWER ASSOCIATES
RUMFORD INDUSTRIAL PARK
RUMFORD, ME 04276-
OXFORD COUNTY

PERMIT/FILE NO. A-724-71-A-N

DETERMINATION MADE BY: MAINE DEPARTMENT OF ENV PROTECTION
ED COUSINS
(AGENCY CONTACT PERSON)

AIRS ID NO.

PROCESS CODE 15.004
SCC CODE 2-01-002-1

TURBINE GENERATOR, COMBUSTION, NATURAL GAS
1906.00 MMBTU/H

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION
EST % EFF

NOTES: N.G.-FIRED COMBINED CYCLE COMBUSTION TURBINE GENERATOR. FACILITY IS UNDER CONSTRUCTION.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: RUMFORD POWER ASSOCIATES
RUMFORD INDUSTRIAL PARK
RUMFORD, ME 04276- OXFOR D COUNTY

PERMIT/FILE NO. A-724-71-A-N
DETERMINATION MADE BY: MAINE DEPARTMENT OF ENV PROTECTION
AGENCY CONTACT PERSON: ED COUSINS

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/23/1997 ACT
PERMIT ISSUED 05/01/1998 EST
START UP 05/01/1998 EST
COMPLIANCE VERIFICATION / /

THROUGHPUT

<table>
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<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>TURBINE GENERATOR, COMBUSTION, NATURAL GAS</td>
<td>1906.0000 MMBTU/H</td>
<td>COMPLIANCE WAS NOT VERIFIED.</td>
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COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

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<th>POLLUTANT NAME</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS ($/TON)</th>
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<tbody>
<tr>
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<td>$ 0</td>
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<td>0</td>
</tr>
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<td>CO</td>
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<td>0</td>
<td>0</td>
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</table>

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
COST EFFECTIVENESS ($/TON): 0
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<thead>
<tr>
<th>Processes Subject to This Permit</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Emission Limits</th>
<th>Pollution Prevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAS TURBINES, COGEN, W/DUCT BURNERS</td>
<td>675.00 MMBTU/H TURBINE</td>
<td>NOX</td>
<td>6.0000 PPM @ 15% O2</td>
<td>BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS No. 10102</td>
<td>6.0000 PPM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOX</td>
<td>42.0000 PPM</td>
<td>BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
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<tr>
<td></td>
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<td>CAS No. 10102</td>
<td>42.0000 PPM</td>
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<td></td>
<td></td>
<td>CO</td>
<td>74.2100 LB/H</td>
<td>CATALYTIC OXIDATION,</td>
</tr>
<tr>
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<td></td>
<td>CAS No. 630-08-0</td>
<td>0.0000</td>
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</table>
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  533

DRAFT REVISION 10/11/1999

RBLID No. ME-0015                                        DATE ENTERED/UPDATED:  03/17/1999

CO                              43.7300 LB/H NG OIL               BACT-PSD
CAS NO. 630-08-0                 0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
CATALYTIC OXIDATION, GOOD COMBUSTION PRACTICES.

PM                              6.2700 LB/H NG                   BACT-OTHER
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD:  POLLUTION PREVENTION
GOOD COMBUSTION PRACTICES, COMBUSTION OF CLEAN
FUELS.

PM                              24.2100 LB/H NG OIL               BACT-OTHER
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD:  POLLUTION PREVENTION
GOOD COMBUSTION PRACTICES, COMBUSTION OF CLEAN
FUELS.

SO2                              1.3500 LB/H NG                   BACT-OTHER
CAS NO. 7446-09-5                0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
CATALYTIC OXIDATION, GOOD COMBUSTION PRACTICES

SO2                             32.3800 LB/H NG OIL               BACT-OTHER
CAS NO. 7446-09-5                0.0000                             0.000
CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
CATALYTIC OXIDATION,

NOTES:  COMBINED CYCLE COGENERATION FACILITY. THREE COMBUSTION TURBINE GENERATORS
AND THREE DUCT BURNER-FIRED HEAT RECOVERY STEAM GENERATORS (HRSG). EACH
SYSTEM (TURBINE AND HRSG) IS THE SAME SIZE. FACILITY IS STILL UNDER
CONSTRUCTION.
COMPANY NAME/SITE LOCATION: ANDROSCOGGIN ENERGY LIMITED
RILEY ROAD
JAY, ME 04239-

PERMIT/FILE NO. A-718-71-A-N

SCHEDULING INFORMATION:

RECEIVED APPLICATION  09/12/1997  ACT
PERMIT ISSUED  03/31/1998  ACT
START UP  / / COMPLIANCE VERIFICATION  / /

PROCESS NAME:
GAS TURBINES, COGEN, W/DUCT BURNERS

POLLUTANT NAME:

CAPACITY:
675.0000 MMBTU/H TURBINE

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N

NOX
CAPITAL COSTS:  $  0
O & M COSTS:  $  0
ANNUALIZED COSTS:  $  0

COST EFFECTIVENESS ($/TON):  0
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<tr>
<th>Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
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<td>NOX</td>
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<td>$0</td>
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<tr>
<td>CO</td>
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<tr>
<td>PM</td>
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<tr>
<td>SO2</td>
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<tr>
<td>Pollutant Name</td>
<td>Throughput</td>
<td>Control Method</td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td>PM</td>
<td>0.0600 lbs/MMBTU</td>
<td>POLLUTION PREVENTION</td>
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<tr>
<td>SO2</td>
<td>4.9000 lbs/MMBTU</td>
<td>POLLUTION PREVENTION</td>
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<tr>
<td>CO</td>
<td>5.0000 ppm</td>
<td>POLLUTION PREVENTION</td>
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<td></td>
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</table>

- 0.05% SULFUR DISTILLATE OIL #2 IS USED.
- EMISSION IS FROM EACH 300 MW SYSTEM.
NOX  2.5000 PPM @ 15% O2 (NAT G)  LAER
CAS NO. 10102  0.0000  0.000
CONTROL METHOD:  POLLUTION PREVENTION
SELECTIVE CATALYTIC REDUCTION.
EMISSION IS FROM EACH 300 MW SYSTEM.

VOC  0.0017 LB/MMBTU NAT GAS  BACT-PSD
CAS NO. VOC  0.0000  0.000
CONTROL METHOD:  POLLUTION PREVENTION

NH3  20.0000 PPM@15% O2  0.0000
CAS NO. 7664-41-7
CONTROL METHOD:  POLLUTION PREVENTION
0.5 % SULFUR DISTILLATE OIL #2 IS USED.
EMISSION IS FROM EACH 300 MW SYSTEM.

NOTES:  900 MW ELECTRIC GENERATION PLANT. THREE COMBUSTION TURBINES WITH HRSG PRIMARY FUEL IS NATURAL GAS WITH LOW SULFUR DISTILLATE OIL #2 AS BACKUP.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GORHAM ENERGY LIMITED PARTNERSHIP
P.O. BOX 494
GORHAM, ME 04038
CUMBERLAND COUNTY

PERMIT/FILE NO. A-735

DETERMINATION MADE BY: MAINE DEPARTMENT OF ENV PROTECTION
AGENCY CONTACT PERSON: KATHY NEIL

SCHEDULING INFORMATION:
RECEIVED APPLICATION 04/02/1998 ACT
PERMIT ISSUED 12/04/1998 ACT
START UP / / 
COMPLIANCE VERIFICATION / /

THROUGHPUT

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<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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</thead>
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<tr>
<td>TURBINE, COMBINED CYCLE</td>
<td></td>
<td>900.0000 MW TOTAL</td>
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COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:
OTHER SCC CODE IS 20100101. IT IS NEW SOURCE. THREE TURBINES (180-210 MW EACH) WITH HRSG (95 MW).

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
<table>
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<tr>
<th>Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
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<td>NH3</td>
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COMPANY NAME/SITE LOCATION: MCCAINE FOOD INC  
STATION ROAD  
EASTON, ME 04740-  
AROOSTOOK COUNTY

PERMIT/FILE NO. A-436-71-D-A  
DATE OF PERMIT ISSUANCE-- 03/12/1999 ACT
START-UP DATE--  
DETERMINATION MADE BY: MAINE DEPARTMENT OF ENV PROTECTION  
 STEPHANIE CARVER  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  

AIRS ID NO.

EMISSION LIMITS (P:  
(STANDARDIZED)
THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION  
EST % EFF

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
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</table>
| BOILER, STEAM  
PROCESS CODE 11.006  
SCC CODE 10200401 | 656.70 GAL/H |

| PM  
CAS NO. PM | 0.0800 LB/MMBTU |
|-----------|-----------------|
| CONTROL METHOD: POLLUTION PREVENTION  
0.5 % SULFUR FUEL OIL |

| SO2  
CAS NO. 7446-09-5 | 0.0000 |
|-------------------|-------|
| CONTROL METHOD: POLLUTION PREVENTION  
0.5 % SULFUR FUEL OIL |

| NOX  
CAS NO. 10102 | 0.0000 |
|---------------|-------|
| CONTROL METHOD: POLLUTION PREVENTION  
LOW NOX BURNERS, STATION. 3, 4 AND 5 RANK OPTIONS |
| 5/3 CONTROL OPTIONS |
NOTES: A POTATO PROCESSING FACILITY LOCATED IN NORTHERN MAINE, EXPANDING PROCESSING BY INCREASING PRODUCTION CAPACITY BY APPROXIMATELY 70.
**COMPANY NAME/SITE LOCATION:** MCCAINE FOOD INC  
**STATION ROAD**  
**EASTON, ME 04740-**  
**ARGOSTOOK COUNTY**

**PERMIT/FILE NO. A-436-71-D-A**

**DETERMINATION MADE BY:** MAINE DEPARTMENT OF ENV PROTECTION  
**AGENCY CONTACT PERSON:** STEPHANIE CARVER  
**PHONE # (207) 287-2437**

**SCHEDULING INFORMATION:**

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<th>REASON</th>
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<td>RECEIVED APPLICATION</td>
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<td>START UP</td>
<td>/ /</td>
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<td>COMPLIANCE VERIFICATION</td>
<td>/ /</td>
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**PROCESS NAME**  
**MCCAIN FOOD INC**

<table>
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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>BOILER, STEAM</td>
<td>656.7000 GAL/H</td>
<td>COMPLIANCE WAS NOT VERIFIED</td>
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**PROCESS/COMPLIANCE NOTES:** INSTALLATION OF A NEW STEAM BOILER AT 81000 LB/H. THROUGHPUT CAPACITY IS AT STANDARD OPERATING CONDITIONS.

**COMPLIANCE METHOD (Y/N):**

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<thead>
<tr>
<th>PM</th>
<th>CAPITAL COSTS: $</th>
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<th>O &amp; M COSTS: $</th>
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<tr>
<td></td>
<td>COSTS ARE IN DOLLARS.</td>
<td></td>
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<tr>
<td></td>
<td>COSTS ARE NOT VERIFIED BY AGENCY.</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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</table>

**OTHER METHOD:**
SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  544
)
COMPANY NAME/SITE LOCATION:  WESTBROOK POWER LLC
EISENHOWER DRIVE
WESTBROOK, ME 04092--
CUMBERLAND COUNTY

PERMIT/FILE NO. A-743-71-A-N

DETERMINATION MADE BY:  MAINE DEPARTMENT OF ENV PROTECTION
(AGENCY)
STEPHANIE CARVER
(AGENCY CONTACT PERSON)
(207) 287-2437

AIRS ID NO. 005-0093

EMISSION LIMITS (P:
(S"

PROCESSES SUBJECT TO THIS PERMIT

TURBINE, COMBINED CYCLE, TWO

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>Capacity</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>15.004</td>
<td>528.00 MW TOTAL</td>
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<td>0.0600 LB/MMBTU</td>
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<td>CAS NO. PM</td>
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<tr>
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<td></td>
<td>PM10</td>
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<td>BACT-PSD</td>
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<td></td>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td>NO CONTROLS FEASIBLE</td>
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<tr>
<td></td>
<td></td>
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<td>SO2</td>
<td>0.0060 LB/MMBTU</td>
<td>BACT-PSD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CAS NO. 7446-09-5</td>
<td>0.0000</td>
<td>NO CONTROLS FEASIBLE</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>CO</td>
<td>15.0000 PPM @15% O2</td>
<td>BACT-PSD</td>
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<tr>
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<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
<td>POLLUTION PREVENTION USING 15 % EXCESS AIR</td>
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REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  RBLC ID No. ME-0018

NOX  2.5000 PPM  0.0000
CAS NO. 10102
CONTROL METHOD: POL
SELECTIVE CATALYTIC REDUCTION AND DRY LOW NOX BURNERS.

VOC  0.4000 PPM  0.0000
CAS NO. VOC
CONTROL METHOD: NO

NOTES: IT IS A NEW ELECTRICAL GENERATING FACILITY WITH A NOMINAL RATE AT 528 MW WITH TWO GAS TURBINES.
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** WESTBROOK POWER LLC

EISENHOWER DRIVE

WESTBROOK, ME 04092-

CUMBERLAND COUNTY

**PERMIT/FILE NO.** A-743-71-A-N

**DETERMINATION MADE BY:** MAINE DEPARTMENT OF ENV PROTECTION

**AGENCY CONTACT PERSON:** STEPHANIE CARVER

**PHONE #:** (207) 287-2437

**SCHEDULING INFORMATION:**

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**START UP**

**COMPLIANCE VERIFICATION**

**THROUGHPUT**

**PROCESS NAME**

TURBINE, COMBINED CYCLE, TWO

**POLLUTANT NAME**

PM

**CAPACITY**

528.0000 MW TOTAL

**COMPLIANCE WAS NOT VERIFIED.**

**THROUGHPUT**

TWO GE COMBUSTION TURBINES HAS 528 MW CAPACITY TOGETHER.

**PROCESS/COMPLIANCE NOTES:**

**COMPLIANCE METHOD (Y/N):**

STACK TEST: N

INSPECTION: N

CALCULATION: N

**OTHER METHOD:**

**PM**

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<tr>
<td>Pollutant</td>
<td>Capital Costs</td>
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<td>PM10</td>
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<tr>
<td>VOC</td>
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</table>
COMPANY NAME/SITE LOCATION: CHAMPION INTERNATL CORP. & CHAMP. CLEAN ENERGY  
RIVER ROAD P.O. BOX 1200  
BUCKSPORT, ME 04416-1200  
HANCOCK COUNTY

PERMIT/FILE NO. A-22-71-N-A  
DATE OF PERMIT ISSUANCE-- 09/14/1998 ACT

STANDARDIZED

THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION  
EST % EFF

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<th>CAS NO. 630-08-0</th>
<th>VOC</th>
<th>CAS NO. VOC</th>
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<tr>
<td>15.004</td>
<td>TURBINE, COMBINED CYCLE, NATURAL GAS</td>
<td>0.0600 LB/MMBTU</td>
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<td>9.0000 LB/H</td>
<td>0.0000</td>
<td>9.0000 PPMMV</td>
<td>3.0000 LB/H</td>
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</table>
SO2
CAS No. 7446-09-5
12.0000 LB/H GAS
BACT-OTHER
CONTROL METHOD: NO CONTROLS FEASIBLE

NOX
CAS No. 10102
9.0000 PPMVD @15% O2 GAS
BACT-OTHER
CONTROL METHOD: POLLUTION PREVENTION
DRY LOW NOX BURNER
1 OPTION IS CONSIDERED FOR OIL AND IS SELECTED.
4/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: PUBLIC HEARING IS NOT HELD. IT IS A MODIFIED SOURCE.
COMPANY NAME/SITE LOCATION: CHAMPION INTERNATL CORP. & CHAMP. CLEAN ENERGY
RIVER ROAD P.O. BOX 1200
BUCKSPORT, ME 04416- HANCOCK COUNTY

PERMIT/FILE NO. A-22-71-N-A

DETERMINATION MADE BY: MAINE DEPARTMENT OF ENV PROTECTION
AGENCY CONTACT PERSON: SARAH ANDERSON

SCHEDULING INFORMATION:

RECEIVED APPLICATION 05/04/1998 ACT
PERMIT ISSUED 09/14/1998 ACT

PROCESS NAME                  POLLUTANT NAME             CAPACITY
TURBINE, COMBINED CYCLE, NATURAL GAS                        175.0000 MW                     COMPLIANCE WAS NOT VERIFIED.

IT IS A COMBINED CYCLE GAS TURBINE COGENERATION PLANT.
FACILITY MUST MEET 6 PPMV/D 24-H BLOCK AVERAGE FOR NOX WITHIN 2
AFTER START UP.

COMPLIANCE METHOD (Y/N):  
STACK TEST: N
INSPECTION: N       CALCULATION: N        OTHER TEST: N
OTHER METHOD:  

PM
CAPITAL COSTS: $            0
O & M COSTS: $            0   COSTS ARE IN
ANNUALIZED COSTS: $            0   COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
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<td>COST EFFECTIVENESS ($/TON): 0</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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<td>O &amp; M COSTS: $ 0</td>
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<td>ANNUALIZED COSTS: $ 0</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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</table>
COMPANY NAME/SITE LOCATION: CASCO RAY ENERGY CO
125 SHORE ROAD
VEAZIE, ME 04401-

PERMIT/FILE NO. A-728

DETERMINATION MADE BY: MAINE DEPARTMENT OF ENV PROTECTION
(AGENCY)

AIRS ID NO. 019.00115

EMISSION LIMITS (P):

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

TURBINE, COMBINED CYCLE, NATURAL GAS, TWO 170.00 MW EACH

PROCESS CODE 15.004
SCC CODE 20100201

PM 0.0600 LB/MMBTU
CAS NO. PM 0.0000
CONTROL METHOD: NO CONTROLS FEASIBLE

SO2 0.0060 LB/MMBTU
CAS NO. 7446-09-5 0.0000
CONTROL METHOD: NO CONTROLS FEASIBLE

CO 20.0000 PPM @ 15% O2
CAS NO. 630-08-0 0.0000
CONTROL METHOD: POLLUTION PREVENTION
15% EXCESS AIR

NOX 3.5000 PPM
CAS NO. 10102 0.0000
CONTROL METHOD: POLLUTION PREVENTION
SELECTIVE CATALYTIC REDUCTION
REPORT DATE: 06/24/1999

RBLC ID No. ME-0020

VOC 1.0000 PPM
CAS NO. VOC 0.0000
CONTROL METHOD: POLLUTION PREVENTION
LOW NOX BURNER

NOTES: PUBLIC HEARING IS NOT DONE. IT IS A NEW SOURCE.
TWO TURBINES WITH HRSG. NO DUCT FIRING. TURBINE CAPACITY IS 170 MW EACH @ 540 MW TOTAL.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CASCO RAY ENERGY CO
125 SHORE ROAD
VEAZIE, ME 04401-

PERMIT/FILE NO. A-728

SCHEDULING INFORMATION:

- RECEIVED APPLICATION: 02/17/1998
- PERMIT ISSUED: 07/13/1998
- START UP: / /
- COMPLIANCE VERIFICATION: / /

THROUGHPUT

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<td>TURBINE, COMBINED CYCLE, NATURAL GAS, TWO</td>
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<td>170.0000 MW EACH</td>
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PROCESS/COMPLIANCE NOTES:

- (2) 170 MW TURBINES WITH HRSG (90MW) @ 520 MW TOTAL CAPACITY.

COMPLIANCE WAS NOT VERIFIED:

COMPLIANCE METHOD (Y/N):
- STACK TEST: N
- INSPECTION: N
- CALC: N

OTHER METHOD:

- PM

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<tr>
<th>CAPITAL COSTS: $</th>
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<td>ANNUALIZED COSTS: $</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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<td>CAPITAL COSTS: $</td>
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<tr>
<td>---</td>
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</tr>
<tr>
<td>SO2</td>
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<tr>
<td>CO</td>
<td>0</td>
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<td>NOX</td>
<td>0</td>
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<tr>
<td>VOC</td>
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</table>
COMPANY NAME/SITE LOCATION: CABOT CORP.
3601 S. SAGINAW RD.
MIDLAND, MI MIDLAND COUNTY

PERMIT/FILE NO. 138-7

DETERMINATION MADE BY: MICHIGAN DEPARTMENT OF NATURAL RESOURCES NICK ZABRODSKY
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>FUMED SILICA MFG FACILITY</td>
<td>32.00 MM LB/YR</td>
<td>CO</td>
<td>198.0000 LB/H</td>
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<td>SCC CODE 3-01-999-99</td>
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<td>CAS NO. 630-08-0</td>
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</table>

CONTROL METHOD: NO CONTROLS FEASIBLE

NOTES: FACILITY WILL BE BUILT IN TWO PHASES, EACH AT 16 MM LBS/YR CAPACITY.
AQD CONTACTED SIX OTHER STATE AGENCIES AND US EPA AND DETERMINED HIGHEST
CO-BACT COST SO FAR IS $1,000/TON. CONTROL VIA CO AFTERBURNER AT THIS
FACILITY WOULD COST $2,900/TON. VENDOR QUOTES IN 1997 DOLLARS ARE:
CAPITAL COST - $5,000,000.
O&M COSTS - $1,550,000.
ANNUALIZED COST - $2,370,000. FACILITY IS STILL UNDER CONSTRUCTION.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CABOT CORP.
3601 S. SAGINAW RD.
MIDLAND, MI

PERMIT/FILE NO. 138-7

SCHEDULING INFORMATION:
RECEIVED APPLICATION 02/20/1997 ACT
PERMIT ISSUED 03/23/1998 ACT
START UP 09/01/1999 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME: FUMED SILICA MFG FACILITY

POLLUTANT NAME: CO
CAPACITY: 32.0000 MM LB/YR

COMPLIANCE NOTES: APPROACH TAKEN WAS TO ABATE POTENTIAL CHLORINE EMISSIONS, BUT SIGNIFICANT AMOUNT OF CO IS GENERATED IN THE PROCESS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
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<tr>
<th>Processes Subject to This Permit</th>
<th>Throughput</th>
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<th>Ranking Information</th>
<th>Emission Limits (Primary)</th>
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<tr>
<td>MANUFACTURING, PRECIPTT. CALCIUM CARBONATE (PCC)</td>
<td>90000.00 T/yr</td>
<td>NOX</td>
<td>51.2000 LB/H</td>
<td>LAER</td>
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</table>

**Notes:** This facility remove air contam. from currently permit. EMMIS. at an exis. paper mill. The exhaust stream from the new facil. will be slightly cleaner (15% redc. in each of the air contam. e.g. SO2, total reduced S, & PM. SNCR, SCR, and "SCONOX" are infeasible due to the near-ambient temperature of process stream. Another NOX control technology, known as "FLTOX", is being used at only one non-related source and it has not yet been proven to be transferable laer control technology.
COMPANY NAME/SITE LOCATION: FAXE PAPER PIGMENTS
2400 LAKESHORE DRIVE
MUSKEGON, MI 49443-0119

PERMIT/FILE NO. 180-98
MUSKEGON COUNTY

SCHEDULING INFORMATION:
RECEIVED APPLICATION 05/01/1998 ACT
PERMIT ISSUED 10/09/1998 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / / ACT

PROCESS NAME POLLUTANT NAME CAPACITY
MANUFACTURING, PRECIPIT. CALCIUM CARBONATE (PCC) 90000.0000 T/YR

PROCESS/COMPLIANCE NOTES: WILL DRAW A SLIP-STREAM OF BOILER FLUE GAS FROM AN EXISTING PAPER MILL; THE FLUE GAS ITSELF WILL BE THE BASIC RAW MATERIAL FOR THE PCC MANUFACTURING PROCESS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
**COMPANY NAME/SITE LOCATION:** WYANDOTTE ENERGY  
8TH AVENUE  
WYANDOTTE, MI 48192-  
**COUNTY**

**PERMIT/FILE NO.** 279-98  
**DATE OF PERMIT ISSUANCE--** 02/08/1999

**DETERMINATION MADE BY:** MICHIGAN DEPARTMENT OF NATURAL RESOURCES  
**DATE ENTERED/UPDATED:** 04/19/1999

**COMPANY NAME/SITE LOCATION:** WYANDOTTE ENERGY  
8TH AVENUE  
WYANDOTTE, MI 48192-  
**COUNTY**

**PERMIT/FILE NO.** 279-98  
**DATE OF PERMIT ISSUANCE--** 02/08/1999

**DETERMINATION MADE BY:** MICHIGAN DEPARTMENT OF NATURAL RESOURCES  
**DATE ENTERED/UPDATED:** 04/19/1999

**COMPANY NAME/SITE LOCATION:** WYANDOTTE ENERGY  
8TH AVENUE  
WYANDOTTE, MI 48192-  
**COUNTY**

**PERMIT/FILE NO.** 279-98  
**DATE OF PERMIT ISSUANCE--** 02/08/1999

**DETERMINATION MADE BY:** MICHIGAN DEPARTMENT OF NATURAL RESOURCES  
**DATE ENTERED/UPDATED:** 04/19/1999

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<th>EST % EFF</th>
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<tbody>
<tr>
<td>TURBINE, COMBINED CYCLE, POWER PLANT</td>
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<td>CO</td>
<td>3.0000 PPM</td>
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<td>CAS NO. 630-08-0</td>
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**CONTROL METHOD:** ADD-ON CONTROL EQUIPMENT

**NOTE:**
COMPANY NAME/SITE LOCATION: WYANDOTTE ENERGY
8TH AVENUE
WYANDOTTE, MI 48192-

PERMIT/FILE NO. 279-98

DETERMINATION MADE BY: MICHIGAN DEPARTMENT OF NATURAL RESOURCES

AGENCY CONTACT PERSON: DAVE FERRIER
PHONE # (517) 373-7023

SCHEDULING INFORMATION:

RECEIVED APPLICATION / / 
PERMIT ISSUED 02/08/1999 ACT
START UP 01/08/2001 EST

THROUGHPUT

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<td>TURBINE, COMBINED CYCLE, POWER PLANT</td>
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<td>500.0000 MW</td>
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COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N): 
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

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<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
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COMPANY NAME/SITE LOCATION: SILGAN CONTAINERS CORP - SAVAGE PLANT  
12130 LYNN AVE. S. 
SAVAGE, MN 55378- 
SCOTT COUNTY 

PERMIT/FILE NO. 13900001-007 

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DIV  
TRENT WICKMAN  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE) 

AIRS ID NO. 

EMISSION LIMITS (P: STANDARDED) 

PAECES SUBJECT TO THIS PERMIT 

COATING, FOOD CAN END PRESS-END SEAL  

PROCESS CODE 41.004  
SCC CODE 4-02-017-26  

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION 

86400.00 ENDS/H  

VOC 
3.7000 LB/GAL 
0.0000 
CONTROL METHOD: POLLUTION PREVENTION 
LOW SOLVENT COATING. MINUS WATER. 
3/ 3 CONTROL OPTIONS EXAMINED/OPTION SELECTED 

NOTES: NO INSPECTION OR TESTING HAVE BEEN PERFORMED.
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. MN-0028

COMPANY NAME/SITE LOCATION: SILGAN CONTAINERS CORP - SAVAGE PLANT
12130 LYNN AVE. S.
SAVAGE, MN 55378 - SCOTT COUNTY

PERMIT/FILE NO. 13900001-007

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DI'
AGENCY CONTACT PERSON: TRENT WICKMAN

SCHEDULING INFORMATION:

RECEIVED APPLICATION 06/09/1997 ACT
PERMIT ISSUED 10/20/1997 ACT
START UP 10/20/1997 ACT
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

COATING, FOOD CAN END PRESS-END SEAL 86400.0000 ENDS/H

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALC
OTHER METHOD: MSDS

VOC CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: 3M COMPANY
I-94 AND MCKNIGHT ROAD
MAPLEWOOD, MN 55144-1000
COMPANY NAME/SITE LOCATION: 3M COMPANY
I-94 AND MCKNIGHT ROAD
3M COMPANY
I-94 AND MCKNIGHT ROAD
MAPLEWOOD, MN 55144-1000

PERMIT/FILE NO. 12300015-002

DATE OF PERMIT ISSUANCE--05/14/1998 ACT
START-UP DATE--05/15/1998 ACT

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DIV
PEGGY BARTZ
AGENCY CONTACT PERSON
(612) 297-8113

AIRS ID NO.

EMISSION LIMITS (P: (S:

PROCESSES SUBJECT TO THIS PERMIT

RESEARCH AND DEVELOPMENT (SEE PROCESS NOTES)
0.00

PROCESS CODE 41.999
VOC
0.0000

SCC CODE A2425000000
CAS NO. VOC
0.0000

CONTROL METHOD: NO CONTROLS FEASIBLE

NOTES: THERE IS NO SIC CODE THAT ACCURATELY REFLECTS A CORPORATE RESEARCH AND DEVELOPMENT FACILITY, SO 8731 WAS CHOSEN. THE SITE DOES R&D IN THE FOLLOWING AREAS: 26XX, 28XX, 30XX, 32XX, 34XX, 36XX, 38XX, 73XX, AND SEVERAL OTHERS.
COMPANY NAME/SITE LOCATION: 3M COMPANY
I-94 AND MCKNIGHT ROAD
MAPLEWOOD, MN 55144-1000

PERMIT/FILE NO. 12300015-002

SCHEDULING INFORMATION:
RECEIVED APPLICATION 07/29/1997 EST
PERMIT ISSUED 05/14/1998 ACT
START UP 05/15/1998 ACT
COMPLIANCE VERIFICATION 05/15/1998 EST

THROUGHPUT
PROCESS NAME PROCESS COMPLIANCE NOTES:

RESEARCH AND DEVELOPMENT (SEE PROCESS NOTES)

PROCESS/COMPLIANCE NOTES:
THERE ARE 59 DIFFERENT R&D PROCESSES TAKING PLACE AT THIS FACILITY. THROUGHPUT AND FUELS VARY. ALL PROCESSES ARE VOC BACT PROCESSES.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: Y
OTHER METHOD: RECORDKEEPING

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: BADGER FOUNDRY
1058 EAST MARK STREET
WINONA, MN 55987-
WINONA COUNTY

PERMIT/FILE NO. 16900012-001

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DIV
DAREN K ZIGICH
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)
PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT POLLUTION PREVENTION RANKING INFORMATION

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TANKS, CORE DIP/CORE MAKING</td>
<td>1066.00 T/YR, CORE DIP MIX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROCESS CODE 81.004</td>
<td></td>
<td>5.0000 % VOC</td>
<td></td>
</tr>
<tr>
<td>SCC CODE 30400371</td>
<td></td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHANGE TO WATER BASED</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO MORE THAN 5% VOC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4/ 2 CONTROL OPTI</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
REPORT DATE: 06/24/1999  

COMPANY NAME/SITE LOCATION: BADGER FOUNDRY  
1058 EAST MARK STREET  
WINONA, MN 55987-  
WINONA COUNTY  

PERMIT/FILE NO. 16900012-001  

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DI'  
AGENCY CONTACT PERSON: DAREN K ZIGICH  
P.  

SCHEDULING INFORMATION:  

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROCESS NAME</td>
</tr>
<tr>
<td>TANKS, CORE DIP/CORE MAKING</td>
</tr>
</tbody>
</table>

PROCESS/COMPLIANCE NOTES:  
SWITCHING TO A WATER BASED SOLUTION REQUIRED THE ADDITION OF A CORE DRYING OVEN TO REMOVE RESIDUAL WATER BEFORE CASTING.  

<table>
<thead>
<tr>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPITAL COSTS: $</td>
</tr>
<tr>
<td>O &amp; M COSTS: $</td>
</tr>
<tr>
<td>ANNUALIZED COSTS: $</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
</tr>
</tbody>
</table>

COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: Y  
OTHER METHOD: RECORDKEEPING  

ESTIMATED/ACTUAL DATE  

| RECEIVED APPLICATION | 06/15/1995 ACT |  
| PERMIT ISSUED | 06/25/1998 ACT |  
| START UP | 12/01/1998 EST |  
| COMPLIANCE VERIFICATION | 12/01/1998 EST |  

CAPITAL COSTS: $ 285,466  
O & M COSTS: $ 55,267  
ANNUALIZED COSTS: $ 82,568  
COST EFFECTIVENESS ($/TON): 2,139
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: POTLATCH CORPORATION
9358 HIGHWAY 53, PO BOX 1137
COOK, MN 55723-

PERMIT/FILE NO. 13700083-001

Determinations made by: MINNESOTA POLL CTRL AGCY, AIR QUAL DIV
BRETT BALLAVANCE
(AGENCY) (AGENCY CONTACT PERSON)

NOTE: THE FACILITY PRODUCES ORIENTED STRAND BOARD (OSB). THE EMISSION UNIT AT HAND IS A THERMAL OIL HEATER (SIMILAR TO A BOILER BUT HEATS OIL INSTEAD OF WATER). FACILITY IS A GREY IRON FOUNDRY.
REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part B)  
RBLC ID No. MN-0033  

COMPANY NAME/SITE LOCATION:  POTLATCH CORPORATION  
9358 HIGHWAY 53, PO BOX 1137  
COOK, MN 55723-  
ST. LOUIS COUNTY  

PERMIT/FILE NO. 13700083-001  
DETERMINATION MADE BY:  MINNESOTA POLL CTRL AGCY, AIR QUAL DI'  
AGENCY CONTACT PERSON:  BRETT BALLAVANCE  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 12/22/1997 ACT  
PERMIT ISSUED 06/24/1998 ACT  
START UP 09/01/1999 EST  
COMPLIANCE VERIFICATION 11/15/1999 EST  

PROCESS NAME  POLLUTANT NAME  CAPACITY  
HEATER PROCESS, THERMAL OIL  
140.0000 MMBTU/H  COMPLIANCE WAS VERIFIED.  
USES PROPANE AS BACKUP FUEL  
THERMAL OIL HEATER IS USED TO HEAT THE BOARD PRESS & OTHER SOURCES.  
NSPS SUBPART DB ALSO APPLIES TO THIS UNIT.  

COMPLIANCE METHOD (Y/N):  
STACK TEST:  Y  
INSPECTION:  N  
OTHER TEST:  Y  
OTHER METHOD:  CEM FOR NOX  

NOX  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: 3M COMPANY, 3M HUTCHINSON TAPE MANUFACTURING PLANT
915 HIGHWAY 22 SOUTH
HUTCHINSON, MN 55350-
MCLEOD COUNTY

PERMIT/FILE NO. 08500049-005
DATE OF PERMIT ISSUANCE--08/26/1998
START-UP DATE--08/27/1998 EST

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DIV
ROXANA DORSEY
(AGENCY CONTACT PERSON)
(651) 296-7554

PROCESS CODE 41.999
SCC CODE 30701199
VOC 0.0000
CAS NO. VOC 0.0000

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
THERMAL OXIDIZER, WORK PRACTICE STANDARDS, LIMIT
OF VOC USAGE, EQUIPMENT DESIGN CAPACITY.

NOTES:
3M COMPANY OWNS AND OPERATES A MANUFACTURING PLANT IN HUTCHINSON. THIS
PERMIT AUTHORIZES OPERATION OF SOME OF THE PRODUCTION EQUIPMENT, INCLUDING:
COATING LINES LM3, ST5, AND ST6 WITH NEWLY IMPOSED BEST AVAILABLE CONTROL
TECHNOLOGY (BACT) LIMITS.
COMPANY NAME/SITE LOCATION: 3M COMPANY, 3M HUTCHINSON TAPE MANUFACTURING PLANT
915 HIGHWAY 22 SOUTH
HUTCHINSON, MN 55350-
MCLEOD COUNTY

PERMIT/FILE NO. 08500049-005

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DI
AGENCY CONTACT PERSON: ROXANA DORSEY

SCHEDULING INFORMATION:

RECEIVED APPLICATION 02/23/1998 ACT
PERMIT ISSUED 08/26/1998 ACT
START UP 08/27/1998 EST
COMPLIANCE VERIFICATION 08/27/1998 EST

PROCESS NAME POLLUTANT NAME CAPACITY
COATING LINES, 3 VOC 0.0000 COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
OTHER METHODS: EPA METHOD 24, RECORDKEEPING, SELF-AUDITS
3M HAS DEVELOPED A NEW ENHANCED COATING METHOD WHICH WILL ALLO' PRODUCTIVITY & QUALITY, REDUCED WASTE. SUBJECT TO NSPS SUBPAR

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCU

VOC CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: LSP - COTTAGE GROVE, L.P.  
9525 105TH STREET COURT SOUTH  
COTTAGE GROVE, MN 55016-  
WASHINGTON COUNTY

PERMIT/FILE NO. 16300087-001

DETERMINATION MADE BY: MINNESOTA POLL CTRL AGCY, AIR QUAL DIV  
ROXANA DORSEY  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

AIRS ID NO. 400000087

EMISSION LIMITS (P:  
S:)

PROCESS CODE 15.007  
SCC CODE 20100101

THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION

GENERATOR, COMBUSTION TURBINE & DUCT BURNER  
1988.00 MMBTU/H (CTG)

<table>
<thead>
<tr>
<th>Pollutant Name</th>
<th>Emission Limit</th>
<th>Method</th>
<th>Control Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0089 lb/MMBTU (NAT GAS)</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM10</td>
<td>0.0089 lb/MMBTU (NAT GAS)</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOX</td>
<td>4.5000 PPM</td>
<td>CONTROL METHOD: ADD SELECTIVE CATALYTIC NOX CEM AND A NOX PEM</td>
<td></td>
</tr>
<tr>
<td>CAS NO. 10102</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**REPORT DATE: 06/24/1999**

<table>
<thead>
<tr>
<th>DATE ENTERED/UPDATED</th>
<th>ROCL ID No. MN-0035</th>
</tr>
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<tbody>
<tr>
<td>04/19/1999</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC</th>
<th>0.0080 LB/MMBTU (NAT GAS)</th>
<th>BACT-PSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>NATURAL GAS COMBUSTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H2SO4</th>
<th>0.0002 LB/MMBTU (NAT GAS)</th>
<th>BACT-PSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. 7664-93-9</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>NATURAL GAS COMBUSTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| BOILERS, AUXILIARY, 2   | 114.00 MMBTU/H (NAT GAS) |
| PROCESS CODE 11.004     |                           |
| SCC CODE 10100601       |                           |

<table>
<thead>
<tr>
<th>PM</th>
<th>0.0050 LB/MMBTU (NAT GAS)</th>
<th>BACT-PSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>LOW NOX BURNER. EACH EMISSION MONITORING</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PM10</th>
<th>0.0050 LB/MMBTU (NAT GAS)</th>
<th>BACT-PSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>BOILERS BURN NATURAL ARE LIMITED TO BURN H/YR.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOX</th>
<th>0.0600 LB/MMBTU (NAT GAS)</th>
<th>BACT-PSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. 10102</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>NATURAL GAS LIMIT. BOILERS HAVE A NOX PEM'S TO DETERMINE NOX EMISSIONS. DISTILLATE FUEL OIL BURN WITH A LIMIT OF 1700 H/YR.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC</th>
<th>0.0050 LB/MMBTU (NAT GAS)</th>
<th>BACT-PSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td></td>
</tr>
<tr>
<td>NATURAL GAS LIMIT AND DISTILLATE FUEL OIL LIMIT.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ENGINE, DIESEL, EMERGENCY FIRE PUMP

PROCESS CODE 15.002
SCC CODE 20100102

H₂SO₄  0.0000 LB/MMBTU (NAT GAS)  BACT-PSD
CAS NO. 7664-93-9  0.0000  0.000
CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO BURN DIESEL 150 H/YR.

PM  0.2600 LB/MMBTU  BACT-PSD
CAS NO. PM  0.0000
CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO BURN DIESEL 150 H/YR.

PM₁₀  0.2600 LB/MMBTU  BACT-PSD
CAS NO. PM  0.0000
CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO BURN DIESEL 150 H/YR.

NOₓ  1.8500 LB/MMBTU  BACT-PSD
CAS NO. 10102  0.0000
CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO BURN DIESEL 150 H/YR.

VOC  0.7100 LB/MMBTU  BACT-PSD
CAS NO. VOC  0.0000
CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO BURN DIESEL 150 H/YR.

H₂SO₄  0.0017 LB/MMBTU  BACT-PSD
CAS NO. 7664-93-9  0.0000
CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO BURN DIESEL 150 H/YR.

NOTES: IT IS AN EXISTING COGEN. FACILITY. THE PRESENT EMIS. FACILITY CONSIST OF A NOMINAL 245 MW COMBINED CYCLE COMBUSTION TURBINE GENERATOR (CTG) WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) AND A SUPPLEMENTAL DUCT BURNER. THERE ARE TWO AUXILIARY BOILERS, TWO DISTILLATE OIL STORAGE TANKS, ONE EMERGENCY FIRE PUMP DIESEL ENGINE, AND ONE EMERGENCY DIESEL GENERATOR.
COMPANY NAME/SITE LOCATION: LSP - COTTAGE GROVE, L.P.
9525 105TH STREET COURT SOUTH
COTTAGE GROVE, MN 55016- WASHINGTON COUNTY

PERMIT/FILE NO. 16300087-001

SCHEDULING INFORMATION:
RECEIVED APPLICATION 09/15/1995 ACT
PERMIT ISSUED 11/10/1998 ACT
START UP 05/01/1997 EST
COMPLIANCE VERIFICATION 05/01/1997 EST

PROCESS/COMPLIANCE NOTES:
THROUGHPUT CAPACITY FOR DUCT BURNER IS 270 MMBTU/H.

PROCESS NAME POLLUTANT NAME CAPACITY
GENERATOR, COMBUSTION TURBINE & DUCT BURNER 1988.0000 MMBTU/H (CTG) COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y CALCULATION: Y
OTHER METHOD:

PM CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
BOILERS, AUXILIARY, 2

114.0000 MM BTU/H (NAT GAS) COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
OTHER SCC CODE IS 101005 FOR DISTILLATE FUEL OIL.
THROUGHPUT CAPACITY FOR DISTILLATE FUEL OIL IS 104 MM BTU/H.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y CALC
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

RBLC ID No. MN-0035

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

H2SO4
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

ENGINE, DIESEL, EMERGENCY FIRE PUMP
2.7000 MMBTU/H
COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
<table>
<thead>
<tr>
<th>Compound</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>H2SO4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Processes Subject to This Permit</td>
<td>Throughput</td>
<td>Emission Limits (Primary)</td>
<td>Pollution Prevention</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>---------------------</td>
<td>-------</td>
</tr>
<tr>
<td>KILNS, LUMBER DRY, 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process Code: 30.000</td>
<td>240,000.00 MBF/yr, ALL KILNS</td>
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<td></td>
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</tr>
<tr>
<td>SCC Code: 30799900</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant Name: VOC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS NO. VOC: 0.000</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control Method: NO CONTROLS FEASIBLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES: THE COMPANY PROPOSES TO DEMOLISH AN EXISTING KILN & REPLACE WITH A NEW INDIRECT STEAM HEATED KILN. THE NEW KILN WILL INCREASE THE POTENTIAL DRYING CAPACITY FROM 180,000 MBF/YR TO 240,000 MBF/YR.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: Weyerhaeuser Company
WEYERHAEUSER ROAD
PHILADELPHIA, MS 39350-

PERMIT/FILE NO. 1920-00012

DETERMINATION MADE BY: MISSISSIPPI DEPT OF ENV QUALITY
AGENCY CONTACT PERSON: MAYA RAO

SCHEDULING INFORMATION:
RECEIVED APPLICATION 05/15/1997 ACT
PERMIT ISSUED 08/27/1997 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

KILNS, LUMBER DRY, 4
240000.0000 MBF/YR, ALL KILNS

COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
BOILERS, FLUID BED, CIRCUL., LIGNITE FIRED

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>EMISSION LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.003</td>
<td>2475.60 MMBTU/H EACH</td>
<td>CO</td>
<td>0.2000 LB/MMBTU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO2</td>
<td>0.2500 LB/MMBTU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS NO. 7446-09-5</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10</td>
<td>0.0150 LB/MMBTU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS NO. PM</td>
<td>0.0000</td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

RBLC ID No. MS-0036

NOX                              0.2000 LB/MMBTU                  BACT-PSD,NSP
CAS NO. 10102                    0.0000                             0.000
CONTROL METHOD: POLLUTION PREVENTION
CIRCULATING FLUIDIZED BED DESIGN.
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: IT IS A NEW SOURCE AND PUBLIC HEARING HAS BEEN DONE.
GREENFIELD 440 MW (NET) CAPACITY ELECTRICAL GENERATING FACILITY.
COMPANY NAME/SITE LOCATION: CHOCTAW GENERATION LIMITED, PARTNERSHIP
PENSACOLA ROAD
ACKERMAN, MS 39735-    CHOCTAW COUNTY

PERMIT/FILE NO. 0400-00011 DETERMINATION MADE BY: MISSISSIPPI DEPT OF ENV QUALITY
AGENCY CONTACT PERSON: MAYA RAO

SCHEDULING INFORMATION: ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION 08/29/1997 ACT
PERMIT ISSUED 08/25/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME Pollutant Name Capacity

BOILERS, FLUID BED, CIRCUL., LIGNITE FIRED 2475.6000 MMBTU/H EACH

COMPLIANCE WAS NOT VERIFIED.

PROCESS NAME Pollutant Name Capacity

BOILERS, FLUID BED, CIRCUL., LIGNITE FIRED 2475.6000 MMBTU/H EACH

CO CAPITAL COSTS: $ 0            COST EFFECTIVENESS ($/TON): 0
O & M COSTS: $ 0            COST EFFECTIVENESS ($/TON): 0
ANNUALIZED COSTS: $ 0            COST EFFECTIVENESS ($/TON): 0

SO2 CAPITAL COSTS: $ 0            COST EFFECTIVENESS ($/TON): 0
O & M COSTS: $ 0            COST EFFECTIVENESS ($/TON): 0
ANNUALIZED COSTS: $ 0            COST EFFECTIVENESS ($/TON): 0

OTHER METHOD:
STACK TEST: N
INSPECTION: N
CALCU
PM10

- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

NOX

- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999  

COMPANY NAME/SITE LOCATION:  CONTINENTAL LIME INC.  
POB 550  
TOWNSEND, MT 59644-  

BROADWATER COUNTY  

PERMIT/FILE NO. 1554-09  

DETERMINATION MADE BY:  MONTANA DEPT OF ENVIRONMENTAL QUALITY  
DAVID KLEMP  
(406) 444-0286  

(AGENCY)  
(AGENCY CONTACT PERSON)  

AIRS ID NO.  

EMISSION LIMITS (P: STAND)  
THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION  
EST % EFF  

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>KILNS, LIME 2</td>
<td>106.00 MMBTU/H EACH</td>
<td>106.00 MMBTU/H EACH</td>
<td>SO2</td>
<td>63.5000 LB/H</td>
</tr>
<tr>
<td>PROCESS CODE 90.019</td>
<td>63.5000 LB/H</td>
<td>63.5000 LB/H</td>
<td>CAS NO. 7446-09-5</td>
<td>85.000</td>
</tr>
</tbody>
</table>
| SCC CODE 3-05-016-04              | 0.0000      | 0.0000    | ALKALINE PROCESS OF THE KILN ITSELF | 2/2 CONTROL OPTIONS |}

NOTES:  CONTINENTAL LIME CONDUCTED A SOURCE TEST ON 5/13/97 DURING A TEST BURN ON PETROLEUM COKE. THE NEXT TEST IS DUE IN 4 YEARS. CONTINENTAL LIME IS AN EXISTING FACILITY THAT REQUESTED THE ABILITY TO USE PETROLEUM COKE IN THEIR KILNS.
COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC.
POB 550
TOWNSEND, MT 59644-

PERMIT/FILE NO. 1554-09

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
AGENCY CONTACT PERSON: DAVID KLEMP

SCHEDULING INFORMATION:
RECEIVED APPLICATION 04/09/1997 ACT
PERMIT ISSUED 06/20/1997 ACT
START UP 06/20/1997 ACT
COMPLIANCE VERIFICATION 05/13/2001 EST

PROCESS/COMPLIANCE NOTES:
THERE ARE TWO KILNS OF THE SAME SIZE.

KILNS, LIME 2

106.0000 MMBTU/H EACH

PROCESS NAME          POLLUTANT NAME
KILNS, LIME 2          SO2

CAPACITY
106.0000 MMBTU/H EACH

THROUGHPUT

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER METHOD:

SO2

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: COLSTRIP ENERGY LIMITED PARTNERSHIP
HIGHWAY 39
COLSTRIP, MT 59323-
ROSEBUD COUNTY

PERMIT/FILE NO. 2035-03

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
RICHARD KNATTERUD
(AGENCY)
(AGENCY CONTACT PERSON)
(PHONE)

AIRS ID NO. 087-0007

BOILER, CIRCULATING FLUIDIZED BED

Emission Limits (P: STANDARDIZED)

<table>
<thead>
<tr>
<th>Processes Subject to This Permit</th>
<th>Throughput</th>
<th>Capacity</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>Est % Eff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler, circulating fluidized bed</td>
<td>503.00 MMBTU/H</td>
<td></td>
<td>PM</td>
<td>6.0100 LB/H</td>
<td></td>
</tr>
<tr>
<td>Process Code 11.999</td>
<td>SCC Code 10100217</td>
<td>CAS NO. PM</td>
<td>CONTROL METHOD: ADD BAGHOUSE</td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
<td></td>
</tr>
<tr>
<td>Material Transfer/Handling - 7 Points</td>
<td>0.00</td>
<td></td>
<td>PM</td>
<td>0.0100 GR/DSCF</td>
<td></td>
</tr>
<tr>
<td>Process Code 11.999</td>
<td>SCC Code 30501011</td>
<td>CAS NO. PM</td>
<td>CONTROL METHOD: ADD BAGHOUSE</td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
<td></td>
</tr>
</tbody>
</table>

NOTES: APPLICATION PROPOSED ON ALLOWABLE EMISSIONS INCREASE OF 17.94 TPY OF PM-10 BY REMOVING A TOTAL PLANT EMISSION LIMIT AND PROPOSING LIMIT ON POINT SOURCES.
COMPANY NAME/SITE LOCATION: COLSTRIP ENERGY LIMITED PARTNERSHIP
HIGHWAY 39
COLSTRIP, MT 59323-
ROSEBUD COUNTY

PERMIT/FILE NO. 2035-03

SCHEDULING INFORMATION:

RECEIVED APPLICATION 01/05/1998 ACT
PERMIT ISSUED 03/20/1998 ACT
START UP 03/24/1990 ACT
COMPLIANCE VERIFICATION 05/01/1990 ACT

PROCESS NAME POLLUTANT NAME CAPACITY

BOILER, CIRCULATING FLUIDIZED BED 503.0000 MMBTU/H

THROUGHPUT

MATERIAL TRANSFER/HANDLING - 7 POINTS

PROCESS/COMPLIANCE NOTES:

MATERIAL TRANSFER/HANDLING INCLUDES: COAL TRUCK UNLOADING; COAL SCREENING AND TRANSFER; COAL STORAGE; LIMESTONE TRUCK UNLOADING AND STORAGE; FLYASH CONVEYING AND STORAGE; BEDASH CONVEYING AND STORAGE;
REPORT DATE: 06/24/1999

RBLC ID No. MT-0009

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

COSTS ARE NOT VERIFIED BY AGENCY.
<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYMERIZATION UNIT, ASPHALT</td>
<td>3500.00 BBL/D</td>
<td>VOC</td>
<td>7.3000 T/YR</td>
<td></td>
</tr>
<tr>
<td>PROCESS CODE 90.004</td>
<td></td>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>SCC CODE 30601101</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES: CONSTRUCTION OF THE ASPHALT POLYMERIZATION UNIT WILL ENABLE MONTANA REFINING COMPANY TO PRODUCE A POLYMERIZED ASPHALT PRODUCT THAT WILL MEET FUTURE FEDERAL SPECIFICATIONS FOR ROAD ASPHALT AS WELL AS SUPPLY POLYMERIZED ASPHALT TO CUSTOMERS THAT CURRENTLY WISH TO USE THE PRODUCT.
COMPANY NAME/SITE LOCATION: MONTANA REFINING COMPANY
SECTION 1, TOWNSHIP 20 NORTH, R
GREAT FALLS, MT 59404-
CASCADE COUNTY

PERMIT/FILE NO. 2161-08

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
AGENCY CONTACT PERSON: JACK DARTMAN

SCHEDULING INFORMATION:

RECEIVED APPLICATION 11/22/1993 ACT
PERMIT ISSUED 01/06/1994 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / / ACT

PROCESS NAME POLYMERIZATION UNIT, ASPHALT
POLLUTANT NAME ASCENT
CAPACITY 3500.0000 BBL/D

THROUGHPUT

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
THE UNIT IS ONLY ANTICIPATED TO BE OPERATED SIX MONTH OF THE YEAR. EXPECTED EMISSION OF VOC WILL OCCUR FROM THE VENTED HOT OIL TANK AND THE PUMP IN HOT OIL SERVICE.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part A)                                      DTL:

COMPANY NAME/SITE LOCATION: MONTANA REFINING COMPANY
SECTION 1, TOWNSHIP 20 NORTH, GREAT FALLS, MT 59404-

PERMIT/FILE NO. 2161-09

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
(AGENCY)
JACK DARTMAN
(AGENCY CONTACT PERSON)
(406) 444-2544

AIRS ID NO. MT-013-0004

COMPANY NAME/SITE LOCATION: MONTANA REFINING COMPANY
SECTION 1, TOWNSHIP 20 NORTH, GREAT FALLS, MT 59404-

PERMIT/FILE NO. 2161-09

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
(AGENCY)
JACK DARTMAN
(AGENCY CONTACT PERSON)
(406) 444-2544

AIRS ID NO. MT-013-0004

EMISSION LIMITS (P:

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEATERS, FIRE-TUBE, 3</td>
<td>0.75 MMBTU/H</td>
<td>TSP</td>
<td>0.1200 T/YR</td>
<td>BACT</td>
</tr>
<tr>
<td>PROCESS CODE 11.005</td>
<td></td>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>SCC CODE 10200600</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PM10
PM10
CAS NO. PM
CAS NO. PM
0.1200 T/YR
0.1200 T/YR
0.0000
0.0000

Nox
Nox
CAS NO. 10102
CAS NO. 10102
0.9900 T/YR
0.9900 T/YR
0.0000
0.0000

CONTROL METHOD: NO
NOX EMISSIONS WILL BE LOWER THAN THE ANNUAL EMISSIONS PERMITTED SO NO ADDITIONAL CONTROLS WILL BE CONSIDERED BACT FOR THESE SOURCES.
NOTES: A CHANGE IN THE METHOD OF HEATING THREE PREVIOUSLY PERMITTED POLYMER MODIFIED ASPHALT TANKS. THESE TANKS WERE TO HAVE BEEN HEATED UTILIZING A CIRCULATING HOT OIL. THE TANKS WILL NOW BE HEATED INDIVIDUALLY USING NATURAL GAS FIRED FIRE-TUBE HEATERS. THIS WILL ELIMINATE THE HOT OIL CIRCUIT, INCLUDING THE HOT OIL STORAGE TANK, ENTIRELY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  594

COMPANY NAME/SITE LOCATION:  MONTANA REFINING COMPANY
SECTION 1, TOWNSHIP 20 NORTH,
GREAT FALLS, MT 59404-                            CADCADE COUNTY

PERMIT/FILE NO. 2161-09  DETERMINATION MADE BY:  MONTANA DEPT OF ENVIRONMENTAL QUALITY
AGENCY CONTACT PERSON:   JACK DARTMAN

SCHEDULING INFORMATION:

RECEIVED APPLICATION 07/28/1994  ACT
PERMIT ISSUED 09/06/1994  ACT
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS NAME
HEATERS,FIRE-TUBE, 3

POLLUTANT NAME
CAPACITY

0.7500 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

THE UNIT WILL ACTUALLY BE IN OPERATION APPROX. EIGHT MONTHS PER YEAR SUCH
THAT NOX EMISSIONS WILL BE LOWER THAN THE ANNUAL EMISSIONS.

CAPITAL COSTS:  $  0
O & M COSTS:  $  0
ANNUALIZED COSTS:  $  0
COST EFFECTIVENESS ($/TON):  0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER METHOD:
PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC.
INDIAN CREEK ROAD, 4.5 MILES W, MT

PERMIT/FILE NO. 1554-10

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
DAVID KLEMP (AGENCY CONTACT PERSON)

EMISSION LIMITS (P:\S:\)

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.019</td>
<td>0.00</td>
<td>PM</td>
<td>0.0000</td>
<td>0.0500 LB/T</td>
</tr>
<tr>
<td>30501605</td>
<td></td>
<td>PM</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>7446-09-5</td>
<td></td>
<td>SO2</td>
<td>0.0000</td>
<td>63.5000 LB/H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOX</td>
<td>0.0000</td>
<td>77.5000 LB/H</td>
</tr>
</tbody>
</table>

CONTROL METHOD: ADD BAG HOUSE FOR 75000 ACFM AT 470F WITH APPROX. 17000 FT2 AND AN AIR-TO-CLOTH RATIO OF 4:4:1.
CO 131.0000 LB/H
   CAS NO. 630-08-0
   CONTROL METHOD: ADD BAGHOUSE, 75000 ACFM SQ.FT AND AN AIR-TO-

VOC 1.2500 LB/H
   CAS NO. VOC
   CONTROL METHOD: ADD BAGHOUSE, 75000 ACFM SQ.FT AND AN AIR-TO-

HANDLING/BLENDING - COKE, SYSTEM
84420.00 T/H

PROCESS CODE 90.019
SCC CODE 30510404

TSP 10.1900 T/yr
   CAS NO. PM
   CONTROL METHOD: ADD BAGHOUSE

PM10 1.1900 T/yr
   CAS NO. PM
   CONTROL METHOD: ADD BAGHOUSE

SCREENING/CONVEYING PROJECT
215000.00 T/YR

PROCESS CODE 90.019
SCC CODE 30501616

TSP 13.8800 T/YR
   CAS NO. PM
   CONTROL METHOD: ADD BAGHOUSE TO COLLECT SING SCREENS AND CON

PM10 1.7100 T/yr
   CAS NO. PM
   CONTROL METHOD: ADD BAGHOUSE TO COLLECT SING SCREENS AND CON
NOTES: MODIFICATIONS REQUIRED TO REDUCE THE EMISSIONS FROM HANDLING OF LIME KILN DUST WHILE MAINTAINING THE PRODUCT QUALITY.
COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC.  
INDIAN CREEK ROAD, 4.5 MILES W, MT  
BROADWATER COUNTY

PERMIT/FILE NO. 1554-10

SCHEDULING INFORMATION:

RECEIVED APPLICATION 09/18/1997 ACT
PERMIT ISSUED 11/19/1997 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

KILN-LIME, TWO 0.0000

PROCESS/COMPLIANCE NOTES: TWO CYCLONES, 62000 ACFM AT 580F AT THE END OF EACH KILN (TOTAL OF FOUR CYCLONES). THE DISCHARGE PASSES TO THE BAGHOUSES.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION:
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
<table>
<thead>
<tr>
<th>Emission</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO2</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>NOx</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
</tbody>
</table>

**HANDLING/BLENDING - COKE, SYSTEM**

84420.0000 T/H

**PROCESS/COMPLIANCE NOTES:**

BAGHOUSE, 400 ACFM WITH 84 SQ.FT AND AN AIR-TO-CLOTH RATIO OF 4:7:1 AND A DUST SILO VENT SYSTEM IS USED.

**COMPLIANCE METHOD (Y/N):**

STACK TEST: N  
INSPECTION: N  
CALCULATED:  
OTHER METHOD:  

**TSP**

CARBON COST: $0  
O & M COSTS: $0  
ANNUALIZED COSTS: $0  
COST EFFECTIVENESS: 0
REPORT DATE: 06/24/1999
RBLC ID No. MT-0012

SCREENING/CONVEYING PROJECT
PROCESS/COMPLIANCE NOTES:

PM10
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

TSP
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

COMPLIANCE WAS NOT VERIFIED.

BAGHOUSE IS USED TO COLLECT EMISSIONS FROM THE CRUSHER AND CONVEYING OPERATION.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
COMPANY NAME/SITE LOCATION: MONTANA REFINING COMPANY
1900 TENTH STREET
GREAT FALLS, MT 59404-
CASCADE COUNTY

PERMIT/FILE NO. 2161-07

DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
JACK DARTMAN
(AGENCY)
(AGENCY CONTACT PERSON)
(PHONE)

AIRS ID NO. MT-013-0004

EMISSION LIMITS (PRIMARY)

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION
EST % EFF

FLUIDIZED CATALYTIC CRACKING
0.00

PROCESS CODE 50.003
SCC CODE 30600201
VOC
CAS NO. VOC
234.5300 T/YR
0.0000
CONTROL METHOD: POLLUTION PREVENTION
CATALYTIC CIRCULATION AT THE RATE OF 125 TPH.

NOTES: IN HEAVY LIQUID SERVICE, RUPTURE DISCS CAN BE SAFETY HAZARDS BY PARTIAL FAILURE OR LEAKING AND CHANGING OVER TIME THE DIFFERENTIAL PRESSURE REQUIRED TO PROVIDE VESSEL PROTECTION. THEREFORE, ONLY PRESSURE VESSELS IN HF ACID SERVICE SHALL BE EQUIPPED WITH RUPTURE DISCS UPSTREAM OF THE RELIEF VALVES AND ALL EXCEPT STORAGE TANKS SHALL BE VENTED TO THE FLARE SYSTEM.
COMPANY NAME/SITE LOCATION: MONTANA REFINING COMPANY
1900 TENTH STREET
GREAT FALLS, MT 59404-
CASCADE COUNTY

PERMIT/FILE NO. 2161-07
DETERMINATION MADE BY: MONTANA DEPT OF ENVIRONMENTAL QUALITY
AGENCY CONTACT PERSON: JACK DARTMAN

SCHEDULING INFORMATION:
RECEIVED APPLICATION 05/27/1993 ACT
PERMIT ISSUED 07/28/1993 ACT
START UP / / COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY

FLUIDIZED CATALYTIC CRACKING 0.0000

COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION:  AMERICAN CRYSTAL SUGAR COMPANY
RURAL ROUTE 2, P. O. BOX 42
HILLSBORO, ND 58045-

PERMIT/FILE NO.  T5X75001

DETERMINATION MADE BY:  NORTH DAKOTA STATE DEPARTMENT OF HEALTH
(AGENCY)
TOM BACHMAN
(AGENCY CONTACT PERSON)
(701) 328-5188

REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION:  AMERICAN CRYSTAL SUGAR COMPANY
RURAL ROUTE 2, P. O. BOX 42
HILLSBORO, ND 58045-

PERMIT/FILE NO.  T5X75001

DETERMINATION MADE BY:  NORTH DAKOTA STATE DEPARTMENT OF HEALTH
(AGENCY)
TOM BACHMAN
(AGENCY CONTACT PERSON)
(701) 328-5188

AIRS ID NO.

PROJECT NAME/SITE LOCATION:  AMERICAN CRYSTAL SUGAR COMPANY
RURAL ROUTE 2, P. O. BOX 42
HILLSBORO, ND 58045-

PERMIT/FILE NO.  T5X75001

DETERMINATION MADE BY:  NORTH DAKOTA STATE DEPARTMENT OF HEALTH
(AGENCY)
TOM BACHMAN
(AGENCY CONTACT PERSON)
(701) 328-5188

AIRS ID NO.

AIRS ID NO.

PROCESS CODE 11.002
SCC CODE 3-02-016-01

EMISSION LIMITS (P:\):

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<th>POLLUTANT NAME</th>
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<td>PULP DRYER</td>
<td>230.30 MM BTU/H</td>
<td>PM</td>
<td>52.0000 LB/H</td>
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<td>SO2</td>
<td>63.3000 LB/H</td>
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REPORT DATE: 06/24/1999

RBLC ID No. ND-0016

CO
CAS No. 630-08-0
461.0000 LB/H
0.0000
CONTROL METHOD: NO
3/3 CONTROL OPTIONS EXAMINED/SELECTED

VOC
CAS No. VOC
92.1000 LB/H
0.0000
CONTROL METHOD: NO
3/3 CONTROL OPTIONS EXAMINED/SELECTED

NOTES: AMERICAN CRYSTAL SUGAR COMPANY IS A SUGAR BEET PROCESSING PLANT WHICH PROCESSES APPROXIMATELY 7700 TONS/DAY OF BEETS. A BACT DETERMINATION WAS REQUIRED FOR A NEW PULP DRYER WITH A MAXIMUM RATED HEAT INPUT CAPACITY OF 230.3 MMBTU PER HOUR AND A PRESSED PULPING CAPACITY OF 95.5 TONS PER HOUR.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: AMERICAN CRYSTAL SUGAR COMPANY
RURAL ROUTE 2, P. O. BOX 42
HILLSBORO, ND 58045-

PERMIT/FILE NO. T5X75001

SCHEDULING INFORMATION:

PROCESS NAME
PULP DRYER

POLLUTANT NAME
CAPACITY

THROUGHPUT
230.3000 MMBTU/H

COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
PARTICULATE EMISSIONS ARE DUE TO CONTACT DRYING OF PULP AND COAL COMBUSTION. NOX, SO2, CO AND VOC EMISSIONS ARE DUE TO COAL (SUBBITUMINOUS) COMBUSTION.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
### SO2
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/TON):** 3,878

### NOx
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/TON):** 0

### CO
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/TON):** 0

### VOC
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/TON):** 0
COMPANY NAME/SITE LOCATION: MINN-DAK FARMERS COOPERATIVE
7525 RED RIVER ROAD
WAHPETON, ND 58075-
RICHLAND COUNTY

PERMIT/FILE NO. T5X78001

DETERMINATION MADE BY: NORTH DAKOTA STATE DEPARTMENT OF HEALTH
TOM BACHMAN
(AGENCY)
(AGENCY CONTACT PERSON)

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT

POWDERED SUGAR HANDLING FACILITY 0.00
PROCESS CODE 70.999
SCC CODE 3-02-016-99

EMISSION LIMITS (P:\)
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

PM 2.0100 LB/H 0.0000
CAS NO. PM

SO2 0.3200 LB/H 0.0000
CAS NO. 7446-09-5

CONTROL METHOD: ADD BAGHOUSE
1/1 CONTROL OPTION

CONTROL METHOD: POLLUTION PREVENTION
GAS WASHER, PRECARBONATION, FIRST CARBONATION AND SECOND CARBONATION STAGES.
1/1 CONTROL OPTION
LIME KILN
0.00

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CONTROL METHOD: POLLUTION PREVENTION
GAS WASHER, PRECARBONATION, FIRST CARBONATION AND SECOND CARBONATION

NOTES: THIS FACILITY IS A SUGAR BEET PROCESSING FACILITY WHICH PROCESSES APPROXIMATELY 8,000 TONS PER DAY OF SUGAR BEETS. A BACT DETERMINATION WAS REQUIRED FOR THE POWDER SUGAR HANDLING FACILITY (NEW SOURCE) FOR PM. IN ADDITION A BACT DETERMINATION WAS REQUIRED FOR THE LIME KILN DUE TO FUEL MODIFICATION (BURNING OF NATURAL GAS). BACT AND CO FOR THE LIME KILN.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: MINN-DAK FARMERS COOPERATIVE
7525 RED RIVER ROAD
WAHPETON, ND 58075-
RICHLAND COUNTY

PERMIT/FILE NO. T5X78001

SCHEDULING INFORMATION:

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| START UP | / / |
| COMPLIANCE VERIFICATION | / / |

PROCESS NAME | POLLUTANT NAME | CAPACITY | THROUGHPUT | COMPLIANCE WAS VERIFIED. | COMPLIANCE WAS DEMONSTRATED BY STACK TEST ON 10/15/97. |
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REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part B)
RBLC ID No. ND-0017

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

LIME KILN
COMPLIANCE WAS NOT VERIFIED

0.0000
COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  RBLD ID No. NJ-0021

COMPANY NAME/SITE LOCATION: MM HACKENSACK ENERGY, LLC.
HMDC 1E LANDFILL, BALER BLVD
KEARNY, NJ 07032-

PERMIT/FILE NO. LOG# 01-96-2800

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
(AGENCY)
SUBHASH SHAH (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/09/1998 ACT
START-UP DATE-- 06/01/1998 EST

AIRS ID NO.

EMISSION LIMITS

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<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<td>ENGINES, LANDFILL GAS-FIRED, 4 EACH</td>
<td>3.80 MW</td>
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|                                |            | NOX      | 1.0000 G/B-HP-H |                      | 0.0000   |
|                                |            | CAS NO. 10102 |                  | CONTROL METHOD: POL | RECIPROCATING INTERN. |
|                                |            |          |                | 3/3 CONTROL OPTI:   |          |

|                                |            | VOC      | 0.0740 LB/MMBTU OF HHV | 98.000 | 0.0000 |
|                                |            | CAS NO. VOC |                  | CONTROL METHOD: POL | RECIPROCATING INTERN. |
|                                |            |          |                | 3/3 CONTROL OPTI:   |          |

|                                |            | CO       | 0.6070 LB/MM    | 0.6070 G/B-HP-H | 0.0000 |
|                                |            | CAS NO. 630-08-0 |                  | CONTROL METHOD: POL | RECIPROCATING INTERN. |
|                                |            |          |                | 3/3 CONTROL OPTI:   |          |
NOTES: NEW COMPANY TO USE LANDFILL GAS TO GENERATE ELECTRICITY AND ALSO DESTRUCT NMOC IN LANDFILL GAS BY 98% AND COMPLY WITH 40 CFR 60 SUBPART CC.
6.8:1 A-F RATIO LEAN BURN C516 FITN.
REPORT DATE: 06/24/1999                                              DETAILED SOURCE LISTING (Part B)                                 PAGE H-  614

COMPANY NAME/SITE LOCATION: MM HACKENSACK ENERGY, LLC.
HMDC 1E LANDFILL, BALER BLVD
KEARNY, NJ 07032- BERGEN COUNTY

PERMIT/FILE NO. LOG# 01-96-2800

SCHEDULING INFORMATION:

RECEIVED APPLICATION       08/05/1996  ACT
PERMIT ISSUED               04/09/1998  ACT
START UP                    06/01/1998  EST
COMPLIANCE VERIFICATION    12/01/1998  EST

PROCESS NAME          POLLUTANT NAME          CAPACITY

ENGINES, LANDFILL GAS-FIRED, 4 EACH                     3.8000 MW

NOX
CAPITAL COSTS: $             0
O & M COSTS: $               0
ANNUALIZED COSTS: $         0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $             0
O & M COSTS: $               0
ANNUALIZED COSTS: $         0
COST EFFECTIVENESS ($/TON): 0
CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  616
}

COMPANY NAME/SITE LOCATION:  MANCHESTER RENEWABLE PWR CORP/LANDFILL ENERGY SYST
OFF ROUTE 70
LAKEHURST, NJ 08743-                                           OCEAN COUNTY

PERMIT/FILE NO. LOG # 01-94-4469 THRU -4474

DATE ENTERED/UPDATED:  02/02/1999  

DETERMINATION MADE BY:  NEW JERSEY DEPT OF ENV PROTECTION            KETAN BHANDUTIA                              (609) 984-6356
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO.  

EMISSION LIMITS (P: (S)  

THROUGHPUT  

CAPACITY  

POLLUTANT NAME  

RANKING INFORMATION  

EST % EFF  


I. C. ENGINES                                          8.60 MMBTU/H

PROCESS CODE 15.999                                      NOX                                      1.0000 G/B-HP-H                  LAER
SCC CODE 2-88-888-02                                       CO                                      2.3000 G/B-HP-H                  LAER
                      CAS NO. 10102                           1.0000 G/B-HP-H                    0.000
                      CONTROL METHOD: NO ::
                      CAS NO. 630-08-0                           CO                                      2.3000 G/B-HP-H                  LAER
                      2.3000 G/B-HP-H                    0.000
                      CONTROL METHOD: NO ::
                      CAS NO. VOC                             0.3750 G/B-HP-
                      0.3750 G/B-HP-
                      CONTROL METHOD: NO ::
NOTES:  4.5 MW LANDFILL GAS TO ENERGY PROJECT
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: MANCHESTER RENEWABLE PWR CORP/LANDFILL ENERGY SYST
OFF ROUTE 70
LAKEHURST, NJ 08743-

PERMIT/FILE NO. LOG # 01-94-4469 THRU -4474

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
AGENCY CONTACT PERSON: KETAN BHANDUTIA

SCHEDULING INFORMATION:

RECEIVED APPLICATION 04/20/1994 ACT
PERMIT ISSUED 05/10/1995 ACT
START UP 02/06/1997 ACT
COMPLIANCE VERIFICATION 04/08/1998 ACT

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<td>I. C. ENGINES</td>
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PROCESS/COMPLIANCE NOTES: 800KW CATERPILLAR 6 ENGINES

COMPLIANCE WAS NOT VERIFIED.

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COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
CO

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VOC

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REPORT DATE: 06/24/1999
REPORT DATE: 06/24/1999
REPORT DATE: 06/24/1999
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REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GRIFFIN PIPE PRODUCTS
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1100 WEST FRONT STREET
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BURLINGTON COUNTY
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PERMIT/FILE NO. 01-95-4130
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PERMIT/FILE NO. 01-95-4130

DATE ENTERED/UPDATED: 02/17/1999
DATE ENTERED/UPDATED: 02/17/1999
DATE ENTERED/UPDATED: 02/17/1999
DATE ENTERED/UPDATED: 02/17/1999
DATE ENTERED/UPDATED: 02/17/1999
DATE ENTERED/UPDATED: 02/17/1999
DATE ENTERED/UPDATED: 02/17/1999

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
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AIRS ID NO.
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AIRS ID NO.

EMISSION LIMITS (P: S)
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PROCESSES SUBJECT TO THIS PERMIT
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SCRAP IRON MELTING
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SCRAP IRON MELTING

PROCESS CODE 81.999
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PROCESS CODE 81.999

SCC CODE 10200802
SCC CODE 10200802
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SCC CODE 10200802
SCC CODE 10200802

THROUGHPUT
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CAPACITY
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POLLUTANT NAME
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RANKING INFORMATION
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SCRAP IRON MELTING
SCRAP IRON MELTING
SCRAP IRON MELTING
SCRAP IRON MELTING
SCRAP IRON MELTING
SCRAP IRON MELTING
SCRAP IRON MELTING

70.00 T/Y
70.00 T/Y
70.00 T/Y
70.00 T/Y
70.00 T/Y
70.00 T/Y
70.00 T/Y

NOX
NOX
NOX
NOX
NOX
NOX
NOX

43.0000 LB/H
43.0000 LB/H
43.0000 LB/H
43.0000 LB/H
43.0000 LB/H
43.0000 LB/H
43.0000 LB/H

0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000

CONTROL METHOD: NO CONTROLS FEASIBLE
CONTROL METHOD: NO CONTROLS FEASIBLE
CONTROL METHOD: NO CONTROLS FEASIBLE
CONTROL METHOD: NO CONTROLS FEASIBLE
CONTROL METHOD: NO CONTROLS FEASIBLE
CONTROL METHOD: NO CONTROLS FEASIBLE
CONTROL METHOD: NO CONTROLS FEASIBLE

CO
CO
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CO
CO
CO

326.0000 LB/H
326.0000 LB/H
326.0000 LB/H
326.0000 LB/H
326.0000 LB/H
326.0000 LB/H
326.0000 LB/H

0.0000
0.0000
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0.0000

CONTROL METHOD: ADD THERMAL OXIDIZER
CONTROL METHOD: ADD THERMAL OXIDIZER
CONTROL METHOD: ADD THERMAL OXIDIZER
CONTROL METHOD: ADD THERMAL OXIDIZER
CONTROL METHOD: ADD THERMAL OXIDIZER
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CONTROL METHOD: ADD THERMAL OXIDIZER

NOTES:
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NOTES:
**REPORT DATE:** 06/24/1999  
**DETAILED SOURCE LISTING (Part B)**  
**RBLC ID No. NJ-0025**  

**COMPANY NAME/SITE LOCATION:** GRIFFIN PIPE PRODUCTS  
1100 WEST FRONT STREET  
FLORENCE, NJ 08518-  

**PERMIT/FILE NO.** 01-95-4130  
**DATE ENTERED/UPDATED:** 02/17/1999  

**COMPANY NAME/SITE LOCATION:** GRIFFIN PIPE PRODUCTS  
1100 WEST FRONT STREET  
FLORENCE, NJ 08518-  

**PERMIT/FILE NO.** 01-95-4130  
**DATE ENTERED/UPDATED:** 02/17/1999  

**DETERMINATION MADE BY:** NEW JERSEY DEPT OF ENV PROTECTION  
**AGENCY CONTACT PERSON:** BACHIR BOUZID  
**PHONE # (609) 777-0286**  

**SCHEDULING INFORMATION:**  
**RECEIVED APPLICATION** 10/22/1993 EST  
**PERMIT ISSUED** 02/16/1994 ACT  
**START UP** / /  
**COMPLIANCE VERIFICATION** / /  

**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**  

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCRAP IRON MELTING</td>
<td>NOX</td>
<td>70.0000 T/Y</td>
</tr>
<tr>
<td></td>
<td>CO</td>
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**COMPLIANCE WAS VERIFIED.**  
**COMPLIANCE METHOD (Y/N):** Y  
**STACK TEST:** Y  
**INSPECTION:** Y  
**CALCULATION:** N  
**OTHER TEST:** N  

**COMPLIANCE VERIFICATION**  
**THROUGHPUT**  

<table>
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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
<th>COMPLIANCE WAS VERIFIED.</th>
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<tbody>
<tr>
<td>SCRAP IRON MELTING</td>
<td>NOX</td>
<td>70.0000 T/Y</td>
<td>Y, N, N, N, N</td>
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<tr>
<td>SCRAP IRON MELTING</td>
<td>CO</td>
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</table>

**CAPITAL COSTS:** $0  
**O & M COSTS:** $0  
**ANNUALIZED COSTS:** $0  
**COST EFFECTIVENESS ($/TON):** $0  

**COSTS ARE IN DOLLARS.**  
**COSTS ARE NOT VERIFIED BY AGENCY.**  
**COST EFFECTIVENESS ($/TON):** $0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: AMERICAN REF FUEL OF ESSEX COUNTY
183 RAYMOND BOULEVARD
NEWARK, NJ 07105

PERMIT/FILE NO. 01-94-0248 & 0249

EMISSION LIMITS (PRIMARY)

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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</thead>
<tbody>
<tr>
<td>SOLID WASTE COMBUSTION, MUNICIPAL</td>
<td>2274.00 T/D</td>
<td>NOX</td>
<td>95.0000 LB/H</td>
<td>BACT-PSD</td>
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<tr>
<td></td>
<td></td>
<td>CAS NO. 10102</td>
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</table>

CONTROL METHOD: ADD SNCR FOR NOX CONTROL
3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED:

NOTES: INSTALLED SNCR FOR NOX CONTROL ON 7/7/93 AND ACTIVATED CARBON INJECTION FOR MERCURY CONTROL WAS INSTALLED IN 1995
COMPANY NAME/SITE LOCATION: AMERICAN REF FUEL OF ESSEX COUNTY
183 RAYMOND BOULEVARD
NEWARK, NJ 07105-
ESSEX COUNTY

PERMIT/FILE NO. 01-94-0248 & 0249

SCHEDULING INFORMATION:
RECEIVED APPLICATION 06/21/1996 ACT
PERMIT ISSUED 07/29/1997 ACT
START UP 11/08/1990 ACT
COMPLIANCE VERIFICATION 03/24/1997 ACT

PROCESS NAME: SOLID WASTE COMBUSTION, MUNICIPAL
POLLUTANT NAME: NOX
CAPACITY: 2274.0000 T/D

THROUGHPUT
STEAM PRODUCTION RATE OF 247,500 LB/H OF STEAM GENERATED.

NOX
CAPITAL COSTS: $ 3,400,000
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 1,900,000
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: GENERAL MOTORS CORP (INLAND FISHER GUIDE DIVISION)  
1445 PARK AVE  
TRENTON, NJ 08650-  
MENER COUNTY

PERMIT/FILE NO. ID# 60020 / P/CT# 122085

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION  
SUBBASH SHOLM  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  

AIRS ID NO.

EMISSION LIMITS (P: S)

PROCESSES SUBJECT TO THIS PERMIT  
THROUGHPUT  
CAPACITY  
POLLUTANT NAME  
RANKING INFORMATION

BOILERS, ONE EACH, FO#6 FIRED, TANGENTIALLY-FIRED  
98.00 MM BTU/H  

PROCESS CODE 11.006  
SCC CODE  
NOX  
CAS NO. 10102  
0.4500 LB/MMBTU  
0.0000

CONTROL METHOD: POLLUTION PREVENTION  
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: MANUFACTURING AUTO PARTS
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GENERAL MOTORS CORP (INLAND FISHER GUIDE DIVISION)
1445 PARK AVE
TRENTON, NJ 08650-
MENER COUNTY

PERMIT/FILE NO. ID# 60020 / P/CT# 122085

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
AGENCY CONTACT PERSON: SUBBASH SHOLM

SCHEDULING INFORMATION:
RECEIVED APPLICATION 04/23/1994 ACT
PERMIT ISSUED 06/22/1994 ACT
START UP 07/19/1994 ACT
COMPLIANCE VERIFICATION 09/09/1996 ACT

THROUGHPUT
PROCESS NAME POLLUTANT NAME CAPACITY

BOILERS, ONE EACH, FO#6 FIRED, TANGENTIALLY-FIRED 98.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER METHOD:

NOX CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
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<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tr>
<td>11.005</td>
<td>96.00 MMBTU/H</td>
<td>NOX</td>
<td>0.1800 LB/MMBTU (HHV) N.G.</td>
<td>RACT</td>
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<td>010300602</td>
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**NOTES:** TANGENTIALLY FIRED NON-UTILITY BOILER USED AS A BACK-UP UNIT FOR 1440 HOURS A YEAR DURING PREVENTATIVE MAINTENANCE OF MAIN BOILER
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: INTERNATIONAL FLAVORS AND FRAGRANCES
B00 ROSE LANE
UNION BEACH, NJ 07735-

PERMIT/FILE NO. LOG# 94-0033

SCHEDULING INFORMATION:
RECEIVED APPLICATION 04/27/1994 ACT
PERMIT ISSUED 06/09/1995 ACT
START UP
COMPLIANCE VERIFICATION 04/23/1997 ACT

PROCESS NAME | POLLUTANT NAME | CAPACITY | COMPLIANCE VERIFICATION
BOILER, NATURAL GAS/NO.2 FUEL OIL | | 96.0000 MMBTU/H | COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:
NATURAL GAS IS PRIMARY FUEL. NO. 2 OIL IS SECONDARY FUEL. PROCESS TYPE FOR NO.2 FUEL IS 11.006

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

AGENCY CONTACT PERSON: KETAN BHANDUTIA
DATE ENTERED/UPDATED: 02/11/1999
RBLC ID No. NJ-0028
DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
CITY/STATE/COUNTY: UNION BEACH, NJ 07735-MONMOUTH COUNTY

STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: ALGONQUIN GAS TRANSMISSION COMPANY  
45 AIRPORT ROAD  
HANOVER, NJ  
MORRIS COUNTY

PERMIT/FILE NO. LOG# 94-0079  
DATE OF PERMIT ISSUANCE-- 03/31/1995  
START-UP DATE-- 03/31/1995 ACT

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION  
DOUG BRUCKMAN  
(609) 633-8244

AIRS ID NO.

 PROCESSES SUBJECT TO THIS PERMIT

<table>
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<tr>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
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<th>EST % EFF</th>
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<tbody>
<tr>
<td>TURBINES COMBUSTION, TWO SOLAR CENTAUR</td>
<td>3.10 MW EACH</td>
<td>NOX</td>
<td>0.0000 NOT APPLICABLE</td>
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<table>
<thead>
<tr>
<th>PROCESS CODE 15.006</th>
<th>SCC CODE</th>
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<tr>
<td>CAS NO. 10102</td>
<td>NOX</td>
</tr>
<tr>
<td>CAS NO. 630-08-0</td>
<td>CO</td>
</tr>
<tr>
<td>CAS NO. VOC</td>
<td>VOC</td>
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<tr>
<td>CAS NO. 10102</td>
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</table>
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  628

RBLC ID No. NJ-0029                                        DATE ENTERED/UPDATED:  02/10/1999

SO2                              0.0500 LB/H                      BACT-PSD
CAS NO. 7446-09-5                0.0000                             0.000
CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT

PM10                             3.4400 LB/H                      BACT-PSD
CAS NO. PM                       0.0000                             0.000
CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT

NOTES:  MANUFACTURING AUTO PARTS
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** ALGONQUIN GAS TRANSMISSION COMPANY  
45 AIRPORT ROAD  
HANOVER, NJ  
MORRIS COUNTY

**PERMIT/FILE NO. LOG#** 94-0079  
**DETERMINATION MADE BY:** NEW JERSEY DEPT OF ENV PROTECTION  
**AGENCY CONTACT PERSON:** DOUG BRUCKMAN

**SCHEDULING INFORMATION:**

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<td>03/31/1995 ACT</td>
</tr>
<tr>
<td>START UP</td>
<td>03/31/1995 ACT</td>
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<tr>
<td>COMPLIANCE VERIFICATION</td>
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</table>

**PROCESS NAME**  
TURBINES COMBUSTION, TWO SOLAR CENTAUR

**POLLUTANT NAME**  
NOX

**CAPACITY**  
3.1000 MW EACH

**COMPLIANCE NOTES:**  
TURBINES AS NATURAL GAS COMPRESSOR DRIVES; 41 MMBTU/HR

**PROCESS/COMPLIANCE NOTES:**  
COMPLIANCE WAS VERIFIED.

**COMPLIANCE METHOD (Y/N):**  
STACK TEST: Y  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:

<table>
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<tr>
<th>POLLUTANT</th>
<th>CAPITAL COSTS ($)</th>
<th>O &amp; M COSTS ($)</th>
<th>ANNUALIZED COSTS ($)</th>
<th>COST EFFECTIVENESS ($/TON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>0</td>
<td>0</td>
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REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  630
RBLC ID No. NJ-0029                                        DATE ENTERED/UPDATED:  02/10/1999

CO
CAPITAL COSTS: $  0
O & M COSTS: $  0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $  0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0

VOC
CAPITAL COSTS: $  0
O & M COSTS: $  0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $  0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0

NOX
CAPITAL COSTS: $  0
O & M COSTS: $  0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $  0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0

SO2
CAPITAL COSTS: $  0
O & M COSTS: $  0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $  0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0

PM10
CAPITAL COSTS: $  0
O & M COSTS: $  0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $  0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):  0
**COMPANY NAME/SITE LOCATION:** HOFFMAN-LA ROCHE, NUTLEY COGEN FACILITY  
340 KINGSLAND STREET  
NUTLEY, NJ 07110-  
ESSEX COUNTY

**PERMIT/FILE NO.** SEE FACILITY NOTES  
**DATE OF PERMIT ISSUANCE:** 05/08/1995

**START-UP DATE:** 06/01/1987 EST

**DETERMINATION MADE BY:** NEW JERSEY DEPT OF ENV PROTECTION  
KETAN BHANDUTIA  
(AGENCY CONTACT PERSON)

**PHONE:** (609) 984-6356

**AIRS ID NO.**

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EMISSION LIMITS (P)</th>
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<tbody>
<tr>
<td>TURBINE, GM LM500</td>
<td>86.60 MM BTU/H</td>
<td>86.60 MM BTU/H</td>
<td>NOX</td>
<td>0.3400 LB/MM BTU</td>
<td>RACT</td>
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<tr>
<td>PROCESS CODE 15.004</td>
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<td>CAS NO. 10102</td>
<td>0.0000 PPM @ 15% O2</td>
<td>0.000</td>
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<tr>
<td>SCC CODE 2-01-00-2-01</td>
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**NOTES:** PERMIT NOS. 0072667, 0072666, 0072668  
LOG NOS. 01-90-5317 AND 94-0011

FACILITY SPECIFIC NOX RACT LIMIT IS ISSUED ON 5/5/95 WHICH IS 0.34 LB/MM BTU (HHV) DURING NATURAL GAS COMBUSTION IN THE GE LM500 TURBINE INCLUDING DUCT BURNER.
**COMPANY NAME/SITE LOCATION:** HOFFMAN-LA ROCHE, NUTLEY COGEN FACILITY  
340 KINGSLAND STREET  
NUTLEY, NJ 07110-  
ESSEX COUNTY

**PERMIT/FILE NO. SEE FACILITY NOTES**

**DETERMINATION MADE BY:** NEW JERSEY DEPT OF ENV PROTECTION  
**AGENCY CONTACT PERSON:** KETAN BHANDUTIA

**SCHEDULING INFORMATION:**

- **RECEIVED APPLICATION:** 04/20/1994  
- **PERMIT ISSUED:** 05/08/1995  
- **START UP:** 06/01/1987  
- **COMPLIANCE VERIFICATION:** 12/11/1987

**PROCESS NAME** | **POLLUTANT NAME** | **CAPACITY**
--- | --- | ---
TURBINE, GM LM500 | NOX | 86,600 MMBTU/H  

**PROCESS/COMPLIANCE NOTES:**

- FUEL THROUGHPUT IS 49 MMBTU/HR FOR TURBINE AND 37.6 MMBTU/HR FOR BURNER  
- THE PLANT IS MADE UP OF THREE IDENTICAL UNITS. EACH UNIT IS A COMBINED CYCLE TURBINE AND HEAT RECOVERY STREAM GENERATOR WITH

**COMPLIANCE METHOD (Y/N):**  
**STACK TEST:** Y  
**INSPECTION:** N  
**CALCULATION:** N  
**OTHER METHOD:**

**NOX**

- **CAPITAL COSTS:** $0  
- **O & M COSTS:** $0  
- **ANNUALIZED COSTS:** $0  
- **COST EFFECTIVENESS ($/TON):** $0  

COSTS ARE IN DOLLARS. COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                               DETAILED SOURCE LISTING (Part A)

COMPANY NAME/SITE LOCATION: UNIVERSITY OF MEDICINE & DENTISTRY OF NEW JERSEY
295 NORFOLK STREET
NEWARK, NJ 07103- ESSEX COUNTY

PERMIT/FILE NO. 087427/28/29 (3)

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
SUBHASH SHAH
(AGENCY) (AGENCY CONTACT PERSON)

AIRS ID NO.

<table>
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<tr>
<th>PROCESSES Subject TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tbody>
<tr>
<td>COMBUSTION TURBINE COGENERATION UNITS, 3</td>
<td>56.00 MMBTU/H</td>
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<tr>
<td>PROCESS CODE 15.004</td>
<td>NOX</td>
<td>0.1670 LB/MMBTU NAT.GAS</td>
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<td>SCC CODE</td>
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<td>0.0000 PPM</td>
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<td>CO</td>
<td>75.0000 PPMVD NAT. GAS</td>
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<td>CAS NO. 630-08-0</td>
<td>0.0000 PPM</td>
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<tr>
<td>CONTROL METHOD: NO</td>
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</table>

| NATURAL GAS & NO.6 FO FIRED, 3 | 112.00 MMBTU/H |
| PROCESS CODE 11.004 | NOX | 0.5500 LB/MMBTU |
| SCC CODE | CAS NO. 10102 | 0.0000 |
| CONTROL METHOD: NO |
| CO | 0.0000 |
| CAS NO. 630-08-0 | 0.0000 |
| CONTROL METHOD: NO |
NOTES: EDUCATIONAL INSTITUTION - THREE BOILERS ARE SUPPLEMENTAL TO THE COGEN UNITS PRIMARY FUEL IS NATURAL GAS AND SECONDARY FUEL IS NO. 2 OIL. SO WHEN NAT. GAS IS NOT AVAILABLE DURING IN PERIODS OF HIGH DEMAND, NO 2 OIL IS USED IN TURBINE AND EVEN IN BOILERS. THIS APPLICATION WAS Processed IN CONTEXT OF THE RACT RULE AND THEREFORE EMISSION LIMITS FOR OTHER POLLUTANTS (OTHER THAN NOX) WERE NOT ALTERED AND THAT IS WHY NOT REPORTED.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: UNIVERSITY OF MEDICINE & DENTISTRY OF NEW JERSEY
295 NORFOLK STREET
NEWARK, NJ 07103-

PERMIT/FILE NO. 087427/28/29 (3)

SCHEDULING INFORMATION:

PROCESS NAME                  POLLUTANT NAME             CAPACITY

COMBUSTION TURBINE COGENERATION UNITS, 3                  56.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
SECONDARY FUEL: NO.2 FO; PROCESS TYPE 15.006
THROUGHPUT FOR TURBINE ONLY: 30MMBTU/HR

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0    COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0    COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
AGENCY CONTACT PERSON: SUBHASH SHAH

RECEIVED APPLICATION     11/01/1995  ACT
PERMIT ISSUED            06/26/1997  ACT
START UP                 06/26/1997  ACT
COMPLIANCE VERIFICATION / /
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. NJ-0031

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NATURAL GAS & NO.6 FO FIRED, 3

PROCESS/COMPLIANCE NOTES:

112.0000 MMBTU/H

SECONDARY FUEL IS NO. 6 FUEL OIL

COMPLIANCE WAS NOT VERIFIED

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION:  EDGEBORO DISPOSAL, INC.
55 EDGEBORO ROAD
EAST BRUNSWICK, NJ 08816-  MIDDLESEX COUNTY

PERMIT/FILE NO. 113443

DETERMINATION MADE BY:  NEW JERSEY DEPT OF ENV PROTECTION
(AGENCY)
SUBHASH SHAH
(AGENCY CONTACT PERSON)

AIRS ID NO.

FLARE, ENCLOSED
4000.00 ACFM

PROCESS CODE 21.999
SCC CODE

NOX
11.4200 LB/H
0.0000
CONTROL METHOD: ADD
FLARE FOR LANDFILL G.
1/ 1 CONTROL OPTI:

CO
14.3000 LB/H
0.0000
CONTROL METHOD: ADD
FLARE FOR LANDFILL G.
1/ 1 CONTROL OPTI:

NOTES:  FACILITY ID# 15855
CLOSED MUNICIPAL SOLID WASTE LANDFILL HAVING 25 MILLION TONS OF WASTE
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: EDGEBORO DISPOSAL, INC.
55 EDGEBORO ROAD
EAST BRUNSWICK, NJ 08816-

PERMIT/FILE NO. 113443

Determination Made By: NEW JERSEY DEPT OF ENV PROTECTION
Agency Contact Person: SUBHASH SHAH

Date Entered/Updated: 02/03/1999

Detailed Source Listing (Part B)
RBLG ID No. NJ-0032

Scheduling Information:

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<th>Estimated/Actual Date</th>
<th>Received Application</th>
<th>Permit Issued</th>
<th>Start Up</th>
<th>Compliance Verification</th>
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<td>12/14/1995 ACT</td>
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Process/Compliance Notes:

**Process Name**: FLARE, ENCLOSED
**Pollutant Name**: CAPACITY
**Throughput**: 4000.0000 ACFM
**Compliance Was Verified.**

**Process/Compliance Notes**: ADDITIONAL PROCESS TYPE: 11.999

**Compliance Method (Y/N)**:
**Stack Test**: Y
**Inspection**: N
**Calculation**: N

**Nox**
- **Capital Costs**: $0
- **O & M Costs**: $0
- **Annualized Costs**: $0
- **Cost Effectiveness ($/Ton)**: 0
- **Costs Are In Dollars**: N
- **Costs Are Not Verified By Agency**: N
REPORT DATE: 06/24/1999  
RBLC ID No. NJ-0032  

CO  

CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  

COSTS ARE NOT VERIFIED BY AGENCY.
**COMPANY NAME/SITE LOCATION:** E.I. DUPONT DENEMOURS AND CO, INC.  
CHAMBERS WORKS  
DEEPWATER, NJ 08023-  
SALEM COUNTY

**PERMIT/FILE NO.** 118693  
**DATE OF PERMIT ISSUANCE** 06/07/1995

**DETERMINATION MADE BY:** NEW JERSEY DEPT OF ENV PROTECTION  
**JOEL LEON**  
(609) 984-3019

**PROCESS CODE** 21.999  
**SCC CODE** A2630010000  
**CAS NO.** 10102  
**CONTROL METHOD:** ADD  
**LOW NOX BURNERS INSTALLED WHEN FUNACE WAS RETROFITTED  
5/5 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**NOTES:** MULTIPLE HEARTH INCINERATOR

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<td>21.999</td>
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REPORT DATE: 06/24/1999                  DETAILED SOURCE LISTING (Part B)                  DATE:  
RBLC ID No. NJ-0033

COMPANY NAME/SITE LOCATION: E.I. DUPONT DENEMOURS AND CO, INC.  
CHAMBERS WORKS  
DEEPWATER, NJ 08023- 
SALEM COUNTY

PERMIT/FILE NO. 118693  
DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION  
AGENCY CONTACT PERSON: JOEL LEON  
PHONE # (609) 984-3019

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 04/21/1994 ACT  
PERMIT ISSUED 06/07/1995 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /

PROCESS NAME  POLLUTANT NAME  CAPACITY  
THROUGHPUT  
CARBON REGENERATION FROM DUPONT'S WWTP  0.0000  
COMPLIANCE WAS VERIFIED.  
COMPLIANCE METHOD (Y/N):  
STACK TEST: Y  
INSPECTION: N  
CALCULATION:  
OTHER METHOD: CONTIN. NOX M  
NOX  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0  
COSTS ARE IN  
COSTS ARE NOT
COMPANY NAME/SITE LOCATION: SAFETY KLEEN (ROLLINS) HAZARDOUS WASTE INCINERATOR
ROUTE 32 AND I-95, PO BOX 337
BRIDGEPORT, NJ 08014-

GLOUCESTER COUNTY

PERMIT/FILE NO. 120752

DETERMINATION MADE BY: NEW JERSEY DEPT OF ENV PROTECTION
(AGENCY)

JOEL LEON
(AGENCY CONTACT PERSON)

(609) 989-3019
(PHONE)

AIRS ID NO.

EMISSION LIMITS (P: STD)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT NAME

RANKING INFORMATION

EST % EFF

INCINERATOR, COMMERCIAL HAZARDOUS WASTE
15000.00 LB/H

CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT

MODIFYING EXISTING LODDBY BURNER - RESHAPING AIR SLOTS, ENLARGING FIRE BOX, ENHANCING AIR FLOW

6/6 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:
**COMPANY NAME/SITE LOCATION:** SAFETY KLEEN (ROLLINS) HAZARDOUS WASTE INCINERATOR  
ROUTE 32 AND I-95, PO BOX 337  
BRIDGEPORT, NJ 08014-  
GLEUCESTER COUNTY

**PERMIT/FILE NO.** 120752

**DETERMINATION MADE BY:** NEW JERSEY DEPT OF ENV PROTECTION  
**AGENCY CONTACT PERSON:** JOEL LEON  
**PHONE #** (609) 989-3019

**SCHEDULING INFORMATION:**

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<th>START UP</th>
<th>ACT</th>
<th>COMPLIANCE VERIFICATION</th>
<th>ACT</th>
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</thead>
</table>

**PROCESS NAME**  
INCINERATOR, COMMERCIAL HAZARDOUS WASTE

**POLLUTANT NAME**  
CAPACITY  
15000.0000 LB/H  
COMPLIANCE WAS NOT VERIFIED

**PROCESS/COMPLIANCE NOTES:**  
MAY ACCEPT A WIDE VARIETY OF HAZARDOUS AND NON-HAZARDOUS WASTES

**COMPLIANCE METHOD (Y/N):**  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER TEST: N

**NOX**  
CAPITAL COSTS: $ 200,000  
O & M COSTS: $ 20,000  
ANNUALIZED COSTS: $ 20,000  
COST EFFECTIVENESS ($/TON): 7,700  
COSTS ARE IN 1994 DOLLARS  
COSTS ARE NOT VERIFIED BY AGENCY
**COMPANY NAME/SITE LOCATION:** WILLIAMS FIELD SERVICES CO.  
DECKER JUNCTION CDP  
CEDAR HILL, NM  
SAN JUAN COUNTY  

**PERMIT/FILE NO.** PSD-NM-1228-M-2  
**DATE ENTERED/UPDATED:** 01/20/1999  
**DETERMINATION MADE BY:** NEW MEXICO ENVIRONMENT DEPT/APC BUREAU  
MANI VELAPPAN  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  

**AIRS ID NO.**  

**PROCESSES SUBJECT TO THIS PERMIT**  

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<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tr>
<td>15.004</td>
<td>1478.00 HP</td>
<td>NO2</td>
<td>1.5000 G/B-HP-H</td>
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<tr>
<td>2-02-002-02</td>
<td></td>
<td>CAS NO. 10102-44-0</td>
<td>1.5000 G/B-HP-H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>LEAN BURN DESIGN</td>
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<tr>
<td></td>
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<td>3/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td></td>
<td></td>
<td>CO</td>
<td>2.6500 G/B-HP-H</td>
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<td>CAS NO. 630-08-0</td>
<td>2.6500 G/B-HP-H</td>
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<td></td>
<td>CONTROL METHOD: POLLUTION PREVENTION</td>
<td>LEAN BURN DESIGN</td>
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<td>3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<td>VOC</td>
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GLYCOL DEHYDRATORS

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<tr>
<th>PROCESS CODE</th>
<th>VOC</th>
<th>CAS NO.</th>
<th>USE OF COAL SEAM GAS</th>
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<td>7.6620 T/Y</td>
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<td>3-10-002-99</td>
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NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
DECKER JUNCTION CDP
CEDAR HILL, NM
SAN JUAN COUNTY

PERMIT/FILE NO. PSD-NM-1228-M-2
DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: MANI VELAPPA

SCHEDULING INFORMATION:
RECEIVED APPLICATION 07/09/1997 ACT
PERMIT ISSUED 04/25/1998 EST
START UP 04/25/1999 EST
COMPLIANCE VERIFICATION 07/25/1999 EST

THROUGHPUT
PROCESS NAME POLLUTANT NAME CAPACITY
NATURAL GAS RECIPROCATING ENGINE
1478.0000 HP

PROCESS/COMPLIANCE NOTES:
COMPLIANCE TO BE VERIFIED AFTER PERMIT REISSUED. COMPLIANCE WILL BE A PERMIT CONDITION.
ENGINE MODEL: WAUKESHA 7042GL
COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
CALCULATION: N
OTHER METHOD:

NO2 CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $2,622,292
COST EFFECTIVENESS ($/TON): $11,665
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<th>O &amp; M COSTS: $</th>
<th>ANNUALIZED COSTS: $</th>
<th>COST EFFECTIVENESS ($/TON):</th>
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<tr>
<td><strong>CO</strong></td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td><strong>VOC</strong></td>
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**GLYCOL DEHYDRATORS**

0.0000

COMPLIANCE WAS NOT VERIFIED.

**COMPLIANCE METHOD (Y/N):**

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

**VOC**

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<th>O &amp; M COSTS: $</th>
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<th>COST EFFECTIVENESS ($/TON):</th>
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RBLC ID No. NM-0033

COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
24 MILES EAST OF BLANCO, NM
BLANCO, NM 87412 - RIO ARRIBA COUNTY

PERMIT/FILE NO. PSD-1028-M-4

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
NED J. JERABEK
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

<table>
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<td>ENGINE, IC RECIPROCATING, NAT. GAS</td>
<td>1374.00 HP</td>
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<td>NO2</td>
<td>1.5000 G/B-HP-H</td>
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<td>BACT-PSD</td>
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<td>CAS NO. 10102-44-0</td>
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<td>SCC CODE 2-02-002-02</td>
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DATE OF PERMIT ISSUANCE -- 04/06/1998 EST
START-UP DATE -- / /
DEHYDRATORS, GLYCOL

PROCESS CODE 50.002
SCC CODE 3-10-002-99
VOC 5.6000 T/YR
CAS NO. VOC 0.000
CONTROL METHOD: POLLUTION PREVENTION

NOTES: FACILITY INCREASING HP ON 9 EXISTING ENGINES BY ADDING HIGH SPEED TURBO CHARGERS (1088 HP TO 1374HP), ADDING THREE NEW ENGINES (IDENTICAL) FOR A TOTAL OF 12 WAUKESHA L-7042 GL LEAN BURN ENGINES. FACILITY IS STILL UNDER CONSTRUCTION.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
24 MILES EAST OF BLANCO, NM
BLANCO, NM 87412 - RIO ARRIBA COUNTY

PERMIT/FILE NO. PSD-1028-M-4

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: NED J. JERABEK
PHONE # (505) 827-1494

SCHEDULING INFORMATION:
RECEIVED APPLICATION 07/18/1997 ACT
PERMIT ISSUED 04/06/1998 EST
START UP / /
COMPLIANCE VERIFICATION / /

PROCESS/COMPLIANCE NOTES:
CENTRAL DELIVERY POINT FOR COAL SEAM GAS PRODUCTION.

THROUGHPUT
ENGINE, IC RECIPROCATING, NAT. GAS
CAPACITY 1374.0000 HP
COMPLIANCE WAS VERIFIED.

POLLUTANT NAME
CAPILATION
NO2

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y
OTHER METHOD:

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999
RBLG ID No. NM-0033

DESHYDRATORS, GLYCOL

PROCESS/COMPLIANCE NOTES:

DEHYDRATORS, GLYCOL

0.0000

COMPLIANCE WAS NOT VERIFIED.

ADDİNG THREE NEW TEG 20 MMSCFD DEHYDRATORS FOR A TOTAL OF 8 DE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

0.0000

COST EFFECTIVENESS ($/T0N):

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
**COMPANY NAME/SITE LOCATION:** WILLIAMS FIELD SERVICES CO.  
SECTION 10 TOWNSHIP 29N RG 6W  
ARCHULETA, NM  
RIO ARRIBA COUNTY

**PERMIT/FILE NO.** 1035-M5  
**DATE ENTERED/UPDATED:** 02/09/1999

**DETERMINATION MADE BY:** NEW MEXICO ENVIRONMENT DEPT/APC BUREAU  
**AGENCY CONTACT PERSON:** MICHAEL SCHNEIDER  
**PHONE:** (505) 827-1494

**START-UP DATE:** 06/10/1998 EST

**ISSUANCE DATE:** 06/10/1998 EST

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<th>EMIS. LIMITS</th>
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<td>PROCESS CODE 50.002</td>
<td>16440.00 HP</td>
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<td>CO</td>
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<td>VOC</td>
<td>1.0000 G/B-HP-H</td>
<td>BACT-PSD</td>
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**SOURCES OF EMISSIONS:**

- **PROCESS CODE 50.002**
  - NO2: 1.5000 G/B-HP-H  
  - CO: 2.6500 G/B-HP-H  
  - VOC: 1.0000 G/B-HP-H

- **SCC CODE 3-10-002-03**
  - NO2: 1.5000 G/B-HP-H  
  - CO: 2.6500 G/B-HP-H  
  - VOC: 1.0000 G/B-HP-H

**EMISSION CONTROL METHODS:**

- **NO2:** POLLUTION PREVENTION  
- **CO:** POLLUTION PREVENTION  
- **VOC:** POLLUTION PREVENTION

**NEW GLYCOL DEHYDRATOR WILL BE LIMITED TO PROCESSING COAL SEAM GAS.**
NOTES: THIS FACILITY IS UPGRADING THE EXISTING 12 WAUKESHA 7042 GL COMPRESSOR ENGINES BY INSTALLING HIGHSPEED TURBOCHARGERS. ADDITIONALLY, A 20 MMSCFD ENTREK GLYCOL DEHYDRATOR WILL BE INSTALLED TO PROCESS COAL SEAM GAS.
COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
SECTION 10 TOWNSHIP 29N RG 6W
ARCHULETA, NM RIO ARRIBA COUNTY

PERMIT/FILE NO. 1035-M5

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: MICHAEL SCHNEIDER

SCHEDULING INFORMATION:

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<th>Start Up</th>
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THROUGHPUT

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<td>NATURAL GAS COMPRESSOR STATION</td>
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COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCU OTHER METHOD:

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<th>Pollutant</th>
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<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/TON)</th>
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<tr>
<td>NO2</td>
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<td>$</td>
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<tr>
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<td>$</td>
<td>$</td>
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<tr>
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<td>$</td>
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COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
T31 N, R8W, SECTION 32
ARCHULETA, NM 87412-
SAN JUAN COUNTY

PERMIT/FILE NO. PSD-NM-1199-M-Z

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
JIM SHIVELY
(AGENCY) (AGENCY CONTACT PERSON) (PHONE) (505) 827-1494

PROCESS CODE 15.004
SCC CODE 2-02-002-02

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<td>RECIPROCATING ENGINE, NAT. GAS</td>
<td>1375.00 HP</td>
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<td>CO</td>
<td>2.6500 G/B-HP-H</td>
<td>CLEAN BURN COMBUSTION</td>
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<tr>
<td></td>
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<td>1.0000 G/B-HP-H</td>
<td>CLEAN BURN COMBUSTION</td>
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GLYCOL DEHYDRATORS

<table>
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<td>50.002</td>
<td>5.6000 TPY</td>
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<td>SCC CODE 3-10-002-99</td>
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CONTROL METHOD: POLLUTION PREVENTION

UNITS ARE LIMITED TO LOW VOC COAL SEAM GAS PROCESSING ONLY

NOTES: THIS MAJOR MODIFICATION CONSISTS OF THE ADDITION OF SEVEN WAUKESHA 7042 GL NATURAL GAS FIRED COMPRESSOR ENGINES AND THREE 20 MMSCF/DAY GLYCOL DEHYDRATORS. TOTAL OF SIX 7042 GL ENGINES AND SIX DEHYDRATORS.
**COMPANY NAME/SITE LOCATION:** WILLIAMS FIELD SERVICES CO.
T31 N, R8W, SECTION 32
ARCHULETA, NM 87412-

**PERMIT/FILE NO.** PSD-NM-1199-M-Z

**DETERMINATION MADE BY:** NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
**AGENCY CONTACT PERSON:** JIM SHIVELY

**SCHEDULING INFORMATION:**

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**PROCESS NAME**

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<td>1375.0000 HP</td>
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**PROCESS/COMPLIANCE NOTES:**

CENTRAL DELIVERY POINT FOR COAL SEAM GAS PRODUCTION.

**COMPLIANCE** WAS VERIFIED.

**COMPLIANCE METHOD (Y/N):**

- STACK TEST: Y
- INSPECTION: Y
- CALCULATION: Y
- OTHER METHOD: N

**COSTS:**

- **NO2**
  - CAPITAL COSTS: $0
  - O & M COSTS: $0
  - ANNUALIZED COSTS: $0
  - COST EFFECTIVENESS ($/TON): 0

**COSTS ARE NOT VERIFIED BY AGENCY.**
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. NM-0035

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

GLYCOL DEHYDRATORS 0.0000 COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION:
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
SECTION 1 TOWNSHIP 30 N R 6W
ARCHULETA, NM
RIO ARIBBA COUNTY

PERMIT/FILE NO. 1031 M-4

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
MICHAEL SCHNEIDER
(AGENCY) (AGENCY CONTACT PERSON)
(505) 827-1494

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT

RECPROCATING ENGINES, NAT. GAS

PROCESS CODE 15.004
SCC CODE 2-02-002-02

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

EMISSION LIMITS (P):

PROCESSES SUBJECT TO THIS PERMIT

RECIPROCATING ENGINES, NAT. GAS

21920.00 HP

NO2
1.5000 G/B-HP-H
1.5000 G/B-HP-H
CONTROL METHOD: POL
LEAN BURN ENGINE DES
3/1 CONTROL OPTI:

CO
2.6500 G/B-HP-H
2.6500 G/B-HP-H
CONTROL METHOD: POL
LEAN BURN ENGINE DES
3/1 CONTROL OPTI:

VOC
2.6500 G/B-HP-H
2.6500 G/B-HP-H
CONTROL METHOD: POL
LEAN BURN ENGINE DES
GLYCOL DEHYDRATORS

120.00 MMSCFD DEHYDRATORS

PROCESS CODE 50.002
SCC CODE 3-10-002-99

VOC 1.4200 LB/H
CAS NO. VOC 0.0000

CONTROL METHOD: POLLUTION PREVENTION
LIMITED TO PROCESSING COAL SEAM NATURAL GAS AND EMITTING NO MORE THAN THE APPLIED FOR EMISSION FOUND IN THE APPLICATION.

NOTES: THIS SOURCE IS UPGRADING EXISTING WAUKESHA 7042 GL COMPRESSOR ENGINES BY INSTALLING HIGH SPEED TURBOCHARGERS, INSTALLING TWO 7042 GL COMPRESSOR ENGINES EQUIPPED WITH HIGH SPEED TURBOCHARGERS AND INSTALLING SIX NEW GLYCOL DEHYDRATORS.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES CO.
SECTION 1 TOWNSHIP 30 N R 6W
ARCHULETA, NM
RIO ARRIBA COUNTY

PERMIT/FILE NO. 1031 M-4

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: MICHAEL SCHNEIDER

SCHEDULING INFORMATION:

RECEIVED APPLICATION 09/15/1997 ACT
PERMIT ISSUED 06/10/1998 EST
START UP 07/10/1998 EST
COMPLIANCE VERIFICATION 09/30/1998 EST

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<td>21920.0000 HP</td>
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PROCESS/COMPLIANCE NOTES:
DEHYDRATORS (6 NEW 20 MMSCFD UNITS) ARE LIMITED TO PROCESSING COAL SEAM GAS.

COMPLIANCE METHOD (Y/N):
- STACK TEST: Y
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N
- OTHER METHOD: N

NO2
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0 COSTS ARE IN DOLLARS
- ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY
- COST EFFECTIVENESS ($/TON): 0
CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

GLYCOL DEHYDRATORS
120.0000 MMSCFD DEHYDRATORS

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES
EL CEDRO GAS PLANT TOWNSHIP29N
BLANCO, NM 87412-
RIO ARRIBA COUNTY

PERMIT/FILE NO. PSD-NM-340-M5

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
(AGENCY)
ANDREW V. NOWAK
(AGENCY CONTACT PERSON)
(505) 827-1494

AIRS ID NO.

EMISSION LIMITS (P: (S')

<table>
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<tr>
<th>THROUGHPUT</th>
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PROCESSES SUBJECT TO THIS PERMIT

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<td>NO2</td>
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<td>POL: LEAN BURN ENGINE TEC 3/ 2 CONTROL OPTI:</td>
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<tr>
<td>CO</td>
<td>CAS NO. 630-08-0</td>
<td>2.6500 G/B-:-</td>
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<td>CONTROL METHOD:</td>
<td>POLLUTION PREVENTION</td>
<td>POL: LEAN BURN ENGINE TEC 3/ 3 CONTROL OPTI:</td>
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VOC                              1.0000 G/B-HG
CAS NO. VOC                      0.0000                             0.000
CONTROL METHOD:  POLLUTION PREVENTION
LEAN BURN ENGINE TECHNOLOGY
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:  FACILITY IS STILL UNDER CONSTRUCTION.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES
EL CEDRO GAS PLANT TOWNSHIP29N
BLANCO, NM 87412-

PERMIT/FILE NO. PSD-NM-340-M5

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: ANDREW V. NOWAK

SCHEDULING INFORMATION:

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PROCESS/COMPLIANCE NOTES:

IC ENGINE, NATURAL GAS

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<tr>
<td>GLYCOL DEHYDRATOR</td>
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PROCESS/COMPLIANCE NOTES:

VOC

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REPORT DATE: 06/24/1999
RBLC ID No. NM-0038

NO2
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  668

COMPANY NAME/SITE LOCATION:  TNP TECHN, LLC (FORMERLY TX-NM POWER CO.)
                   LORDSBURG GENERATING STATION
                   LORDSBURG, NM 88045-                        HIDALGO COUNTY

PERMIT/FILE NO. PSD-NM-90-M2

DETERMINATION MADE BY:  NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
                   ANDREW V. NOWAK
                   (AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE) (505) 827-1491

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT                  CAPACITY              POLLUTANT NAME          RANKING INFORMATION                     EST % EFF

PROCESSES SUBJECT TO THIS PERMIT

GAS TURBINES               375.00 MMBTU/H

PROCESS CODE 15.004
SCC CODE 20100101

NOX         15.0000 PPM       0.0000 PPM          CONTROL METHOD:  BOTH P2 & ADD-ON CONTROL EQUIPMENT
           CAS NO. 10102            WATER INJECTION FOLLOWED BY SELECTIVE CATALYTIC REDUCTION (SCR)
                                      4/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
           CO         18.0000 PPM                         0.0000 PPM          CONTROL METHOD:  POLLUTION PREVENTION
           CAS NO.                                    GOOD COMBUSTION PRACTICES
                                      1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
           PM10                             7.8000 LB/H PER TURBINE          BACT-PSD
           CAS NO.                                    0.0000          CONTROL METHOD:  POLLUTION PREVENTION
                                      GOOD COMBUSTION PRACTICES
NOTES: PLANT CONSISTS OF TWO G.E. LM6000 SPRINT AERO-DERIVATIVE COMBUSTION TURBINE
EACH OUTFITTED WITH A DUCT BURNER AND HEAT RECOVERY STEAM GENERATOR.
FACILITY IS STILL UNDER CONSTRUCTION.
COMPANY NAME/SITE LOCATION: TNP TECHN, LLC (FORMERLY TX-NM POWER CO.)
LORDSBURG GENERATING STATION
LORDSBURG, NM 88045- HIDALGO COUNTY

PERMIT/FILE NO. PSD-NM-90-M2

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: ANDREW V. NOWAK

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<td>GAS TURBINES</td>
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COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
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PM10

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES
SECTION 10 TWNSHP 31N RANGE 7W
11 MILES NE OF ARCHULETA, NM 87412-0000

PERMIT/FILE NO. 870-M3

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
MICHAEL SCHNEIDER

AIRS ID NO. 35-045-00269

PROCESSES SUBJECT TO THIS PERMIT

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<td>IC ENGINE, COMPRESSOR</td>
<td>27240.00 HP</td>
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<td>BACT-PSD</td>
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<td>10102-44-0</td>
<td>1.5000 G/B-HP-H</td>
<td>CO</td>
<td>BACT-PSD</td>
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<tr>
<td></td>
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<td>630-08-0</td>
<td>2.6500 G/B-HP-H</td>
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START-UP DATE-- 09/23/1998 EST

DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
MICHAEL SCHNEIDER

(AGENCY)                      (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 35-045-00269

EMISSION LIMITS (P-

(Standard)                      (Pollution Prevention

BASIS)

PROCESS CODE 15.007
CAS CODE 20200202
NOTES:  THIS PSD PERMIT MODIFICATION CONSISTS OF ADDING 6 WAUKESHA 7042 6L COMPRESSOR ENGINES
COMPANY NAME/SITE LOCATION: WILLIAMS FIELD SERVICES
SECTION 10 TWSHP 31N RANGE 7W
11 MILES NE OF ARCHULETA, NM 87412-0000
RIO ARRIBA COUNTY

PERMIT/FILE NO. 870-M3
DETERMINATION MADE BY: NEW MEXICO ENVIRONMENT DEPT/APC BUREAU
AGENCY CONTACT PERSON: MICHAEL SCHNEIDER

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/26/1997 ACT
PERMIT ISSUED 09/23/1998 ACT
START UP 09/23/1998 EST
COMPLIANCE VERIFICATION 12/31/1998 EST

PROCESS/COMPLIANCE NOTES:
FACILITY INCLUDES 6 10MMSCF/D DEHYDRATORS. INSPECTIONS AND COMPLIANCE TESTING WILL OCCUR AND THE PROPOSED SOURCE DEMONSTRATED COMPLIANCE WITH APPLICABLE STANDARDS.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N
OTHER METHOD:

PROCESS NAME POLLUTANT NAME CAPACITY
IC ENGINE, COMPRESSOR NO2 27240.0000 HP

THROUGHPUT

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
**COMPANY NAME/SITE LOCATION:**  GUARDIAN INDUSTRIES CORPORATION  
GENEVA INDUSTRIAL PARK  
GENEVA, NY 14456--  
ONTARIO COUNTY

**PERMIT/FILE NO.** 8-3205-00041/00001  
**DATE OF PERMIT ISSUANCE**-- 08/11/1997 ACT  
**START-UP DATE**-- 04/06/1998 ACT  
**DETERMINATION MADE BY:**  NEW YORK DEC, DIV OF AIR RESOURCES  
(AGENCY)  
PETER A. LENT  
(AGENCY CONTACT PERSON)  
(716) 226-2466  
(PHONE)

**EMISSION LIMITS (STANDARDIZED)**  
**THROUGHPUT**  
**CAPACITY**  
**POLLUTANT NAME**  
**RANKING INFORMATION**  
**EST % EFF**

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<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
</table>

**FURNACE, FLOAT GLASS MANUFACTURING**  
700.00 T/D, GLASS PULLRATE

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>90.016</td>
<td>700.00 T/D</td>
<td>700.00 T/D</td>
<td>NO2</td>
<td>190.0000 LB/H</td>
<td>100.000</td>
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<tr>
<td>30501407</td>
<td></td>
<td></td>
<td>CAS NO. 10102-44-0 10102-44-0</td>
<td>6.5000 LB/T</td>
<td>100.000</td>
</tr>
</tbody>
</table>

**CONTROL METHOD:** BOTH P2 & ADD-ON CONTROL EQUIPMENT  
"3R" NOX REDUCTION TECHNOLOGY - SEE FACILITY NOTES  
4/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>PM</td>
<td>29.2000 LB/H</td>
<td>1.0000 LB/T</td>
<td>CAS NO. PM</td>
<td>10102-44-0</td>
<td>1.0000 LB/T</td>
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<tr>
<td>PM10</td>
<td>29.2000 LB/H</td>
<td>1.0000 LB/T</td>
<td>CAS NO. PM</td>
<td>10102-44-0</td>
<td>1.0000 LB/T</td>
</tr>
</tbody>
</table>
SO₂

- CAS NO. 07446-09-5
- CONTROL METHOD: POLLUTION PREVENTION
- SALT CAKE LIMITATION
- MAXIMUM CULLET RECYCLING YIELDS 37% REDUCTION
- CHOICE 1: ESP (NOT CHOSEN - NOT COST EFFECTIVE)

SULFURIC ACID MIST

- CAS NO. 07664-93-9
- CONTROL METHOD: POLLUTION PREVENTION
- SALT CAKE LIMITATION
- MAXIMUM CULLET RECYCLING YIELDS 37% REDUCTION
- CHOICE 1: ESP (NOT CHOSEN - NOT COST EFFECTIVE)

FURNACE, FLAT GLASS ANNEALING, LEHR

- PROCESS CODE 90.016
- SCC CODE 30501407
- SO₂
  - CAS NO. 07446-09-5
  - CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
    - DUAL MODEL F105-28 FUME SCRUBBER (BASIC MEDIA WET SCRUBBER)
- 1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: INITIAL PERMIT WAS ISSUED 04/04/97, BUT THE PERMIT WAS REVISED DUE TO PUBLIC COMMENT & EPA NEGOTIATIONS TO INCORPORATE THE "3R" NOX CONTROL TECHNOLOGY AND RE-ISSUED ON 08/11/97. "3R" NOX CONTROL IS A CONTROL METHOD FOR NOX UTILIZING NATURAL GAS BURNERS TO REGENERATE, REBURN, AND REDUCE NOX DEVELOPED BY PILKINGTON GLASS. IT IS SIMILAR TO LOW NOX BURNERS.
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** GUARDIAN INDUSTRIES CORPORATION
GENEVA INDUSTRIAL PARK
GENEVA, NY 14456 - ONTARIO COUNTY

**PERMIT/FILE NO.** 8-3205-00041/00001

**Determination Made By:** NEW YORK DEC, DIV OF AIR RESOURCES
**Agency Contact Person:** PETER A. LENT

**Scheduling Information:**

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<thead>
<tr>
<th>Event</th>
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<th>Type</th>
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<tr>
<td>Received Application</td>
<td>09/30/1996</td>
<td>ACT</td>
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<tr>
<td>Permit Issued</td>
<td>08/11/1997</td>
<td>ACT</td>
</tr>
<tr>
<td>Start Up</td>
<td>04/06/1998</td>
<td>ACT</td>
</tr>
<tr>
<td>Compliance Verification</td>
<td>12/23/1998</td>
<td>ACT</td>
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**Throughput**

<table>
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<tr>
<th>Process/Compliance Notes:</th>
<th>Capacity</th>
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<tbody>
<tr>
<td>FURNACE, FLOAT GLASS MANUFACTURING</td>
<td>700.0000 T/D, GLASS PULLRATE</td>
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</tbody>
</table>

**Compliance was not verified.**

**Process/Compliance Notes:**

- Permit requires stack test within 180 days of startup.
- Compliance verified for NO\(_2\) only. Other pollutants not in compliance.

**Compliance Method (Y/N):**

- Stack Test: Y
- Inspection: N
- Calculation: N
- Other Method: N

**NO\(_2\):**

- Capital Costs: $0
- O & M Costs: $0
- Annualized Costs: $0
- Cost Effectiveness ($/Ton): 0

**Agency Contact Person:** PETER A. LENT
**Phone #** (716) 226-2466
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>PM</td>
<td>$2,300,000</td>
<td>$250,447</td>
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<tr>
<td>SO2</td>
<td>$4,100,000</td>
<td>$783,999</td>
<td>$1,385,379</td>
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<tr>
<td>SULFURIC ACID MIST</td>
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<td>6,185</td>
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</table>

**FURNACE, FLAT GLASS ANNEALING, LEHR**

400,000 T/D, GLASS

**PROCESS/COMPLIANCE NOTES:**

PERMIT REQUIRES STACK TEST WITHIN 180 DAYS OF STARTUP

**COMPLIANCE METHOD (Y/N):**

STACK TEST: N
INSPECTION: N
CALCULATION: N

**OTHER METHOD:**

SO2

<table>
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<tr>
<th>Capital Costs:</th>
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<th>Annualized Costs:</th>
<th>Cost Effectiveness ($/TON):</th>
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</thead>
<tbody>
<tr>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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</tbody>
</table>
COMPANY NAME/SITE LOCATION: MILLER BREWING COMPANY
2525 WAYNE MADISON ROAD
TRENTON, OH 45067-
BUTLER COUNTY

PERMIT/FILE NO. 14-4289

DETERMINATION MADE BY: HAMILTON CO-SOUTHWESTERN OH APC A
BRADLEY MILLER
(AGENCY) (AGENCY CONTACT PERSON)
(513) 651-9437

AIRS ID NO. 390250002

PACKAGING, BREWERY PRODUCTS
1301.00 BBL/H

PROCESS CODE 70.008
SCC CODE 30200998

VOC
CAS NO. VOC
42.2000 LB/H
0.0000

CONTROL METHOD: NO CONTROLS FEASIBLE
NONE

NOTES: THE EMISSIONS FROM PACKAGING WERE ORIGINALLY NOT PERMITTED. THIS PERMIT GOES BACK TO ADDRESS THE PACKING EMISSIONS.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H- 681

RBLC ID No. OH-0235                                        DATE ENTERED/UPDATED: 04/15/1999

COMPANY NAME/SITE LOCATION: MILLER BREWING COMPANY
2525 WAYNE MADISON ROAD  BUTLER COUNTY
TRENTON, OH 45067-

PERMIT/FILE NO. 14-4289                               DETERMINATION MADE BY: HAMILTON CO-SOUTHWESTERN OH APCA
AGENCY CONTACT PERSON: BRADLEY MILLER

SCHEDULING INFORMATION:                                              ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION  12/12/1996  ACT
PERMIT ISSUED            07/08/1998  ACT
START UP                 06/01/1980  ACT
COMPLIANCE VERIFICATION 07/08/1998  ACT

THROUGHPUT

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<th>CAPACITY</th>
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<tr>
<td>PACKAGING, BREWERY PRODUCTS</td>
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<td>1301.0000 BBL/H</td>
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</table>

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: Y    CALC
OTHER METHOD:

VOC

<table>
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<th>CAPITAL COSTS: $</th>
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<tbody>
<tr>
<td>O &amp; M COSTS: $</td>
<td>0</td>
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<tr>
<td>ANNUALIZED COSTS: $</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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</table>
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  682

COMPANY NAME/SITE LOCATION:  HERMISTON GENERATING CO.
78145 WESTLAND ROAD
HERMISTON, OR 97838-9520                                       UMATILLA COUNTY

PERMIT/FILE NO. 30-0113                                                                                     DATE OF PERMIT ISSUANCE-- 07/07/1994 ACT

DETERMINATION MADE BY:  OREGON DEPT OF ENVIRONMENTAL QUALITY         DOUG WELCH                                   (541) 278-4621
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO.

EMISSION LIMITS (P:  (S:
PROCESSES SUBJECT TO THIS PERMIT

TURBINES, NATURAL GAS (2)  1696.00 MMBTU/H

PROCESS CODE 15.004
SCC CODE 2-01-002-01

THROUGHPUT  CAPACITY  POLLUTANT NAME  RANKING INFORMATION  EST % EFF

NOX  4.5000 PPM  4.5000 PPM @ 15% O2  BACT-PSD
CAS NO. 10102
CONTROL METHOD:  ADD SCR
1/ 3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO  15.0000 PPM  15.0000 PPM @ 15% O2  BACT
CAS NO. 630-08-0
CONTROL METHOD:  POL
GOOD COMBUSTION PRACT
2/ 2 CONTROL OPTI

NOTES:  TWO GE FRAME 7FA TURBINES @ 1696 MMBTU/H EACH (HHV - 50F AMBIENT). COMBIN
ED CYCLE GENERATION WITHOUT DUCT BURNER. NATURAL GAS-FIRED ONLY.
REPORT DATE: 06/24/1999 DETAILED SOURCE LISTING (Part B) RBLC ID No. OR-0011

COMPANY NAME/SITE LOCATION: HERMISTON GENERATING CO. 78145 WESTLAND ROAD HERMISTON, OR 97838-9520

PERMIT/FILE NO. 30-0113 DETERMINATION MADE BY: OREGON DEPT OF ENVIRONMENTAL QUALITY

UMATILLA COUNTY AGENCY CONTACT PERSON: DOUG WELCH PHONE # (541) 278-4621

SCHEDULING INFORMATION: ESTIMATED/ACTUAL DATE

RECEIVED APPLICATION 05/27/1993 ACT
PERMIT ISSUED 07/07/1994 ACT
START UP 03/28/1996 ACT
COMPLIANCE VERIFICATION 07/16/1996 ACT

THROUGHPUT

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<tr>
<td>TURBINES, NATURAL GAS (2)</td>
<td></td>
<td>1696.0000 MMBTU/H</td>
</tr>
</tbody>
</table>

COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATED: Y OTHER METHOD:

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 2,600 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0 COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  684  
RRLC ID No. PA-0148                                        DATE ENTERED/UPDATED:  01/12/1999  
COMPANY NAME/SITE LOCATION:  BLUE MOUNTAIN POWER, LP  
EAST PUMPING STATION ROAD  
RICHLAND, PA 18955- BUCKS COUNTY  
PERMIT/FILE NO. 09-328-009                                                                                  DATE OF PERMIT ISSUANCE-- 07/31/1996 ACT  
START-UP DATE--           06/30/1999 EST  
DETERMINATION MADE BY:  PENNSYLVANIA DER, BUR OF AIR QUAL CTRL       XIAOYIN SUN                                  (610) 832-6241  
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)  
AIRS ID NO.  

c| PROCESSES SUBJECT TO THIS PERMIT | THROUGHPUT | CAPACITY | POLLUTANT NAME | RANKING INFORMATION | EMISSION LIMITS (P: STANDARDIZED) |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>COMBUSTION TURBINE WITH HEAT RECOVERY BOILER</td>
<td>153.00 MW</td>
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<tr>
<td>PROCESS CODE 15.004</td>
<td></td>
<td>NOX</td>
<td>4.0000 PPM</td>
<td>4.0000 PPM</td>
<td>CONTROL METHOD: BOT. DRY LNB WITH SCR</td>
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<tr>
<td>SCC CODE 2-02-002-01</td>
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<td>CAS NO. 10102</td>
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<td></td>
<td>WATER INJECTION IN P: FIRING LIMITS SET TO</td>
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<td></td>
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<td></td>
<td></td>
<td>1/ 1 CONTROL OPTI:</td>
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<tr>
<td>VOC</td>
<td></td>
<td>CAS NO. VOC</td>
<td>4.0000 PPM</td>
<td>4.0000 PPM</td>
<td>CONTROL METHOD: ADD OXIDATION CATALYST</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WHEN FIRING NO. 2 OIL:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0 15% O2, 0 75% LOA:</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>1/ 1 CONTROL OPTI:</td>
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</table>
CO
CAS No. 630-08-0
3.1000 PPM @ 15% O2
CONTROL METHOD: ADD OXIDATION CATALYST
16 PPM @ 15% O2 WHEN NG LIMIT SET TO 22.1
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NH3
CAS No. 7664-41-7
10.0000 PPM @ 15% O2
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
SCR WITH AMMONIA CEM MONITORING

NOTES: FACILITY MAY BE SOLD TO NEW OWNER. EMISSION REDUCTION CREDITS NEEDED AT 1.3 TO 1 OFFSET FOR NOX AND VOC. NO. 2 FUEL OIL MUST NOT EXCEED SULFUR CONTENT OF 0.05%. FACILITY EMISSIONS LIMITED TO: NOX = 94.8 TPY; VOC 31.5, CO 97.3, SO2 64.2, PM/PM10 72.9, NH3 71.3. OTHER SMALLER SOURCES INCLUDE: 9.7 MMBTU AUX. BOILER FIRING NG; TWO 2.4 MW DIESEL GENERATORS; 280 HP DIESEL FIRE PUMP; AND 2.33 MMBTU NG FIRED HEATER. DUCT BURNER OPERATION LIMITED TO JUNE 1 TO SEPT. 30TH. NOTE: NOTIFICATION RECEIVED (10/98)—PROJECT HAS BEEN CANCELLED.
COMPANY NAME/SITE LOCATION: BLUE MOUNTAIN POWER, LP
EAST PUMPING STATION ROAD
RICHLAND, PA 18955-

PERMIT/FILE NO. 09-328-009

SCHEDULING INFORMATION:

PROCESS NAME: COMBUSTION TURBINE WITH HEAT RECOVERY BOILER
POLLUTANT NAME: NOX
CAPACITY: 153.0000 MW

PROCESS/COMPLIANCE NOTES:
COMPLIANCE WITH EMISSION LIMITS ARE WITH OR WITHOUT THE DUCT BURNER IS RATED AT 185 MMBTU/HR BURNING NATURAL GAS ONLY.
A WESTINGHOUSE MODEL 501DS RATED AT 1170 OR 1440 MMBTU/H FIRING NG OR OIL.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: Y
OTHER METHOD: NOX, CO CEMS

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
<table>
<thead>
<tr>
<th>Compound</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
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<td>VOC</td>
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<td>$0</td>
</tr>
<tr>
<td>NH3</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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</table>
COMPANY NAME/SITE LOCATION:  PEI POWER
170 POWER BLVD.
ARCHBALD, PA 18403-
LACKAWANNA COUNTY

PERMIT/FILE NO. 35-302-102

Determination Made By: PENNSYLVANIA DER, BUR OF AIR QUAL CTRL
SHAILESH PATEL
(AGENCY)                      (AGENCY CONTACT PERSON)                      (PHONE)
(717) 826-2531

AIRS ID NO. 23-2933578

Emission Limits (P):

Processes Subject To This Permit

Throughput

Capacity

Pollutant Name

Ranking Information

BOILER, CFB, MODIFIED

249.00 MMBTU/H

PROCESS CODE 11.999
SCC CODE 10300811

NOX
CAS NO. 10102
0.0600 LB/MMBTU
CONTROL METHOD: POLLUTION PREVENTION LNB WITH FGR
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630-08-0
0.1500 LB/MMBTU
CONTROL METHOD: NO

Notes: PEI POWER WILL CONVERT THE CULM FIRED CFT BOILER TO FIRE NATURAL GAS AND
LANDFILL GAS. THE LANDFILL GASES WILL BE FIRED AT A MAXIMUM RATE OF
448,648 SCFH HAVING A HEATING VALUE OF 555 BTU/SCF SUPPLIED BY THE
KEYSTONE SANITARY LANDFILL LOCATED IN DUNMORE.
COMPANY NAME/SITE LOCATION: PEI POWER
170 POWER BLVD.
ARCHBALD, PA 18403-

LACKAWANNA COUNTY

PERMIT/FILE NO. 35-302-102

DETERMINATION MADE BY: PENNSYLVANIA DER, BUR OF AIR QUAL CTR
AGENCY CONTACT PERSON: SHAILESH PATEL

SCHEDULING INFORMATION:

RECEIVED APPLICATION 01/01/1998 ACT
PERMIT ISSUED 05/22/1998 ACT
START UP 10/27/1998 ACT

PROCESS/COMPLIANCE NOTES:

MFG. BY DB RILEY AND FOSTER WHEELER

COMPLIANCE WAS VERIFIED.

PROCESS NAME
BOILER, CFB, MODIFIED

POLLUTANT NAME

CAPACITY
249.0000 MMBTU/H

THROUGHPUT

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  691

COMPANY NAME/SITE LOCATION:  JOHNSON MATTHEY INC.
456 DEVON PARK DRIVE
WAYNE, PA 19087-                                           CHESTER COUNTY

PERMIT/FILE NO. 15-309-016A

DETERMINATION MADE BY:  PENNSYLVANIA DER, BUR OF AIR QUAL CTRL
(AGENCY)                     MARC KURTZMAN (AGENCY CONTACT PERSON)
                             (610) 941-5131 (PHONE)

AIRS ID NO. 420290796

EMISSION LIMITS (P:
(STANDARDIZED)

THROUGHPUT                                POLLUTION PREVENTION/CONTROL EQUIPMENT    BASIS
PROCESSES SUBJECT TO THIS PERMIT                         CAPACITY           POLLUTANT NAME          RANKING INFORMATION                     EST % EFF

CATALYST DRYING OVENS                                  500.00 LB/H

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tr>
<td>41.999</td>
<td>500.00 LB/H</td>
<td>500.00 LB/H</td>
<td>NOX</td>
<td>20.2000 PPMW</td>
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<tr>
<td>31499999</td>
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<td>CAS NO. 10102</td>
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CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT
JOHNSON MATTHEY MODEL CSDNA.   600 DEGREES F FOR
0.1 SEC.  USING AQUEOUS AMMONIA

1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NH3                             32.0000 PPMW                      BACT-OTHER
CAS NO. 7664-41-7                0.0000                            95.000
CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT
EXISTING COMMON FACILITY WET SCRUBBER
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES:  SCR CONTROL SYSTEM CAN BE BY-PASSED WHEN NOT PROCESSING NITRATE CONTAINING
PRODUCT.  EXISTING FACILITY WET SCRUBBER FOLLOWS SCR UNIT. AN APPEAL
DETERMINATION IS PENDING.
COMPANY NAME/SITE LOCATION: JOHNSON MATTHEY INC.  
456 DEVON PARK DRIVE  
WAYNE, PA 19087-

PERMIT/FILE NO. 15-309-016A

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/24/1997 EST
PERMIT ISSUED 06/08/1998 ACT
START UP 10/30/1999 EST

THROUGHPUT

CATALYST DRYING OVENS

PROCESS/COMPLIANCE NOTES:
PRODUCTION LINES 3 AND 4, MANUFACTURING AUTOMOBILE CATALYST INSERTS.

PROCESS NAME: CATALYST DRYING OVENS
POLLUTANT NAME: NOX
CAPACITY: 500.0000 LB/H

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER METHOD:

CAPITAL COSTS: $ 130,000
O & M COSTS: $ 10,000
ANNUALIZED COSTS: $ 37,710
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN 1997 DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  693
RBLG ID No. PA-0153                                        DATE ENTERED/UPDATED:  02/10/1999

| NH3 | CAPITAL COSTS: $ | 0     |
|     | O & M COSTS: $   | 0     |
|     | ANNUALIZED COSTS: $ | 0     |
|     | COST EFFECTIVENESS ($/TON): | 0     |
COMPANY NAME/SITE LOCATION: GENERAL ELECTRIC TRANSPORTATION SYSTEMS
INDUSTRIAL DRIVE
GROVE CITY, PA 16127-

PERMIT/FILE NO. 49-399-016

DETERMINATION MADE BY: PENNSYLVANIA DER, BUR OF AIR QUAL CTRL
LORI CHEPLIC
(AGENCY)                      (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 420850020

EMISSION LIMITS (P:

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION

ENGINE, DIESEL, TEST CELLS NO. 1 THROUGH 5 6250.00 HP

PROCESS CODE 15.002
SCC CODE 2-04-004-02

NOX CAS NO. 10102

492.2000 T/YR 0.0000

CONTROL METHOD: ADD ENGINE RETARD, SPLIT INJECTION, DEPENDING ON ENGINE
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: 206 TONS OF NOX OFFSETS REQUIRED AND PURCHASED. FUEL USAGE FOR TEST ENGINES (RAILROAD ENGINES) LIMITED TO A TOTAL ANNUAL AMOUNT EQUAL TO 224,500 GALLONS. EACH ENGINE RECEIVES A 10 HOUR TEST RUN. RAILROAD ENGINES NOTED AS LEAN BURN TYPE.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GENERAL ELECTRIC TRANSPORTATION SYSTEMS
INDUSTRIAL DRIVE
GROVE CITY, PA 16127-

PERMIT/FILE NO. 49-399-016

DETERMINATION MADE BY: PENNSYLVANIA DER, BUR OF AIR QUAL CTR
AGENCY CONTACT PERSON: LORI CHEPLIC

SCHEDULING INFORMATION:

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<td>08/21/1996</td>
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<td>12/31/1998</td>
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<td>COMPLIANCE VERIFICATION</td>
<td>12/31/1998</td>
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THROUGHPUT

ENGINE, DIESEL, TEST CELLS NO. 1 THROUGH 5
CAPACITY

<table>
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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>THRU</th>
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<tr>
<td>ENGINE, DIESEL, TEST CELLS NO. 1 THROUGH 5</td>
<td>6250.0000 HP</td>
<td></td>
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</table>

PROCESS/COMPLIANCE NOTES:

TEST CELLS CAN HANDLE RAILROAD ENGINES FROM 2,000 TO 6,250 HP.

COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: Y
CALCULATION: N
OTHER TEST: N

NOX

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<th>CAPITAL COSTS: $</th>
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<tr>
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<td>ANNUALIZED COSTS: $</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
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</table>
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** TIVERTON POWER ASSOCIATES  
TIVERTON INDUSTRIAL PARK  
TIVERTON, RI 02878-NEWPORT COUNTY  
**PERMIT/FILE NO.** RI-PSD-5  
**DETERMINATION MADE BY:** RHODE ISLAND DIV OF AIR & HAZ MAT  
DOUG MCVAY  
(AGENCY)  
(AGENCY CONTACT PERSON)  
**(PHONE):** (401) 222-2808  
**DATE OF PERMIT ISSUANCE:** 02/13/1998 ACT  
**START-UP DATE:** 01/01/2000 EST  
**AIRS ID NO.**  
**EMISSION LIMITS (P):**  
**PROCESS CODE 15.004**  
**SCC CODE 2-02-002-03**  
**THROUGHPUT:** 265.00 MW  
**POLLUTION PREVENTION EQUIPMENT**  
**BASIS**  
**PROCESSES SUBJECT TO THIS PERMIT**  
**POLLUTANT NAME**  
**RANKING INFORMATION**  
**EST % EFF**  
**NO2**  
**CAS NO. 10102-44-0**  
**3.5000 PPM @ 15% O2**  
**LAER**  
**CONTROL METHOD:** ADD SCR  
**CO**  
**CAS NO. 630-08-0**  
**12.0000 PPM @ 15% O2**  
**BACT-PSD**  
**CONTROL METHOD:** GOOD COMBUSTION  
**SO2**  
**CAS NO. 7446-09-5**  
**0.0060 LB/MMBTU**  
**BACT-PSD**  
**CONTROL METHOD:** NO  
**FUEL SPEC:** NATURAL G.
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<th>Method</th>
<th>Notes</th>
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<tr>
<td>PM10</td>
<td>0.0090 LB/MMBTU</td>
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<td>GOOD COMBUSTION</td>
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<tr>
<td>VOC</td>
<td>2.0000 PPM @ 15% O2</td>
<td>POL</td>
<td>GOOD COMBUSTION</td>
</tr>
<tr>
<td>NH₃</td>
<td>10.0000 PPM @ 15% O2</td>
<td>POL</td>
<td>GOOD COMBUSTION</td>
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REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: TIVERTON POWER ASSOCIATES
TIVERTON INDUSTRIAL PARK
TIVERTON, RI 02878-

PERMIT/FILE NO. RI-PSD-5

SCHEDULING INFORMATION:

RECEIVED APPLICATION 02/14/1997 ACT
PERMIT ISSUED 02/13/1998 ACT
START UP 01/01/2000 EST
COMPLIANCE VERIFICATION 06/01/2000 EST

THROUGHPUT

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<th>CAPACITY</th>
<th>COMPLIANCE WAS NOT VERIFIED</th>
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<tr>
<td>COMBUSTION TURBINE, NATURAL GAS</td>
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<td>265.0000 MW</td>
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COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCU OTHER METHOD:

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<th>POLLUTANT</th>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
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<tr>
<td>CO</td>
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</table>
SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NH3
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: PACIFIC MDF PRODUCTS, INC
PO BOX 848
CLIO, SC 29525-
MARLBORO COUNTY

PERMIT/FILE NO. 1680-0100

DETERMINATION MADE BY: SOUTH CAROLINA DEPT OF HEALTH & ENV CTRL JOE ELLER (AGENCY)
(AGENCY CONTACT PERSON) (803) 734-4650 (PHONE)

AIRS ID NO. 45-069-00100

EMISSION LIMITS (P: STANDARDED)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

TWO MDF MOULDING LINES/APPLY PRIMER & TOPCOAT 270.00 MM GAL/YR COATING

PROCESS CODE 41.006 VOC 2.5000 LB VOC/GAL COATING LAER
SCC CODE CAS NO. VOC 0.0000 0.000

CONTROL METHOD: ADD CATALYTIC OXIDIZER WITH 80% CAPTURE AND A 95% DESTRUCTION OF LOW VOC CONTENT COATINGS
3/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: RECEIVED REVISIONS TO THE 12/22/97 APPLICATION ON 03/03/98.
FACILITY IS UNDER CONSTRUCTION.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  701

COMPANY NAME/SITE LOCATION:  PACIFIC MDF PRODUCTS, INC
PO BOX 848
CLIO, SC 29525- MARLBORO COUNTY

PERMIT/FILE NO. 1680-0100

Determination Made By:  SOUTH CAROLINA DEPT OF HEALTH & ENV C'
Agency Contact Person:  JOE ELLER

SCHEDULING INFORMATION:

REALIZED APPLICATION     12/22/1997  ACT
PERMIT ISSUED            05/12/1998  ACT
START UP                 07/01/1998  EST
COMPLIANCE VERIFICATION / /

THROUGHPUT

PROCESS NAME                  POLLUTANT NAME             CAPACITY

TWO MDF MOULDING LINES/APPLY PRIMER & TOPCOAT               270.0000 MM GAL/YR COATING COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES:                          TWO MDF MOULDING LINES APPLYING PRIMER AND/OR TOPCOAT WHICH IS BAKE OVEN.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N       CALCUL
OTHER METHOD:

VOC
CAPITAL COSTS:  $ 0
O & M COSTS:  $ 0        COSTS ARE IN
ANNUALIZED COSTS:  $ 0        COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** PROCTOR AND GAMBLE MANUFACTURING COMPANY  
1306 HIGHWAY 70 BYPASS  
JACKSON, TN 38302-  
MADISON COUNTY  

**PERMIT/FILE NO.** 949041P  
**DATE OF PERMIT ISSUANCE--** 03/19/1998  
**DETERMINATION MADE BY:** TENNESSEE DIV OF AIR POLLUTION CONTROL  
DAVID G. CARSON  
(615) 532-0554  

**BOILER**  
**PROCESS CODE 11.006**  
**SCC CODE 10200501**  
**POLLUTANT NAME**  
**RANKING INFORMATION**  
**EST % EFF**  
**SO2**  
37.9600 LB/H  
0.0000  
CONTROL METHOD: NO  
**CO**  
29.3000 LB/H  
0.0000  
CONTROL METHOD: NO  
**VOC**  
4.4000 LB/H  
0.0000  
CONTROL METHOD: NO  

**NOTES:** EXPANSION (CAP-97) INCLUDE ADDITION OF NEW SNACK MAKING LINES, TEST SNACK MAKING LINE, INERT GAS GENERATORS, DRYER AND REMOVAL OF HEAT INPUT CAPACITY LIMIT FOR PLANT BOILER 1&2.  
BOILER 1 TO BE TESTED FOR PM10 WHEN BURNING NO2 FUEL OIL.
COMPANY NAME/SITE LOCATION: PROCTOR AND GAMBLE MANUFACTURING COMPANY  
1306 HIGHWAY 70 BYPASS  
JACKSON, TN 38302-  
MADISON COUNTY

PERMIT/FILE NO. 949041P  
DETERMINATION MADE BY: TENNESSEE DIV OF AIR POLLUTION CONTROL  
AGENCY CONTACT PERSON: DAVID G. CARSON

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 09/25/1997 ACT  
PERMIT ISSUED 03/19/1998 ACT  
START UP / /  
COMPLIANCE VERIFICATION / /

PROCESS NAME           POLLUTANT NAME           CAPACITY

BOILER                 SO2                         0.0000

PROCESS/COMPLIANCE NOTES:  
STACK TEST TO BE CONDUCTED PRIOR TO OBTAINING AN OPERATING PERMIT

COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N

OTHER METHOD:

SO2  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
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<tr>
<td>CO</td>
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<td>$ 0</td>
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</tr>
<tr>
<td>VOC</td>
<td>$ 0</td>
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</table>
**COMPANY NAME/SITE LOCATION:** Wheland Foundry & Div. of North American Royal  
2800 South Broad Street  
Chattanooga, TN 37402-  
Hamilton County

**PERMIT/FILE NO.** 371091193I94I  
**DATE OF PERMIT ISSUANCE:** 11/03/1998  
**START-UP DATE:** 07/01/1999

**DISTRIBUTION MADE BY:** Chattanooga-Hamilton Co APCB, TN  
*Agency Contact Person:* Cynthia C. McDaniel  
*(Agency)* *(Agency Contact Person)* *(Phone)* (423) 867-4321

**CORE PRODUCTION**  
**PROCESS CODE:** 81.004  
**SCC CODE:** 30400319  
**THROUGHPUT:** 18420.00 LB/H  
**CAPACITY:** 18420.00 LB/H  
**POLLUTANT NAME:** VOC  
**RANKING INFORMATION:** 22.0400 LB/H  
**BASIS:** BACT-PSD  
**CONTROL METHOD:** ADD-ON CONTROL EQUIPMENT  
**REGENERATIVE THERMAL OXIDIZER AND MATERIAL USAGE.**  
**5/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED**

**HANDLING, SAND FOR SEIATSU LINE**  
**PROCESS CODE:** 81.004  
**SCC CODE:** 30400350  
**THROUGHPUT:** 626000.00 LB/H  
**CAPACITY:** 626000.00 LB/H  
**POLLUTANT NAME:** VOC  
**RANKING INFORMATION:** 8.6700 T/YR  
**BASIS:** BACT-PSD  
**CONTROL METHOD:** NO CONTROLS FEASIBLE  
**EFFICIENT SAND SYSTEM OPERATION - TESTS INCLUDE LOI, VCM, ETC., SHOWING OPTIMUM CONFIGURATION FOR EFFICIENT SAND OPERATION.**  
**3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED**
MOLDING LINE-SEIATSU

PROCESS CODE 81.004
SCC CODE 30400318

700000.00 LB/H

VOC
CAS NO. VOC
150.8000 T/yr
0.0000
CONTROL METHOD: NO CONTROLS FEASIBLE
EFFICIENT SAND SYSTEM OPERATION - COMPLIANCE DEMONSTRATED THROUGH REQUIRED TESTS (LOI, VCM, ETC.) FOR OPTIMUM CONFIGURATION.

CO
CAS NO. 630080
241.1000 T/yr
0.0000
CONTROL METHOD: NO CONTROLS FEASIBLE
EFFICIENT SAND SYSTEM OPERATION - COMPLIANCE VERIFIED THROUGH REQUIRED TESTS (LOI, VCM, ETC.) FOR OPTIMUM CONFIGURATION.

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WHELAND FOUNDRY A DIV. OF NORTH AMERICAN ROYAL
2800 SOUTH BROAD STREET
CHATTANOOGA, TN 37402-

PERMIT/FILE NO. 371091I93I94I

DETERMINATION MADE BY: CHATTANOOGA-HAMILTON CO APCB, TN
AGENCY CONTACT PERSON: CYNTHIA C. MCDANIEL

SCHEDULING INFORMATION:

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<td>COMPLIANCE VERIFICATION</td>
<td>01/01/2000</td>
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</table>

PROCESS NAME                     POLLUTANT NAME                     CAPACITY

CORE PRODUCTION

18420.0000 LB/H

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

STACK TEST IS REQUIRED WITHIN 180 DAYS FOLLOWING START-UP.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC

CAPITAL COSTS: $ 984,813
O & M COSTS: $ 175,619
ANNUALIZED COSTS: $ 365,587

COST EFFECTIVENESS ($/TON): 13,432

COSTS ARE IN 1996 DOLLARS.

COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

RBLC ID No. TN-0060

HANDLING, SAND FOR SEIATSU LINE

626000.0000 LB/H

PROCESS/COMPLIANCE NOTES:

COMPLIANCE VERIFIED THROUGH RECORDKEEPING OF REQUIRED MATERIAL

COMPLIANCE METHOD (Y/N):

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

ANNUALIZED COSTS: 0
COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0

MOLDING LINE-SEIATSU

700000.0000 LB/H

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

ANNUALIZED COSTS: 0
COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

ANNUALIZED COSTS: 0
COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0
**COMPANY NAME/SITE LOCATION:** DESERET GENERATION AND TRANSMISSION COMPANY  
NEAR BONANZA, UT  
**UINTAH COUNTY**

**PERMIT/FILE NO.** DAQE-186-98  
**DATE OF PERMIT ISSUANCE:** 03/16/1998 ACT

**DETERMINATION MADE BY:** UTAH BUREAU OF AIR QUALITY  
**TIm BLANCHARD**  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

**EMISSION LIMITS (P: STANDARDIZED)**

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<th>PROCESS CODE 90.011</th>
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<th>RANKING INFORMATION</th>
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<tr>
<td>CONVEYOR COAL</td>
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<td>SO2</td>
<td>1968.1100 T/Y</td>
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**CONTROL METHOD:**  
- PM10: ADD-ON CONTROL EQUIPMENT  
- VOC: NO CONTROLS FEASIBLE  
- SO2: ADD-ON CONTROL EQUIPMENT  
- NOX: POLLUTION PREVENTION
### Detailed Source Listing (Part A)

#### RBLC ID No. UT-0053

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<td>90.019</td>
<td>Matl Handling, Limestone</td>
<td>NO CONTROLS FEASIBLE</td>
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<tr>
<td>11.002</td>
<td>Coal Fired Boiler</td>
<td>NO CONTROLS FEASIBLE</td>
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**Matl Handling, Limestone**

- **Process Code:** 90.019
- **SCC Code:** 101002
- **CO:** 602.4500 T/Y
- **CAS No.:** 630-08-0
- **Control Method:** NO CONTROLS FEASIBLE
- **Total:** 55.60 Metric T/Y

**Coal Fired Boiler**

- **Process Code:** 11.002
- **SCC Code:** 30510203
- **CO:** 602.4500 T/Y
- **CAS No.:** 630-08-0
- **Control Method:** NO CONTROLS FEASIBLE
- **Total:** 500.00 MW
VE

CAS NO. VE
20.0000 % OP.
0.0000

CONTROL METHOD: NO

NOTES: CEM QA REQUIRED BY 40 CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR SO2, NOX, AND OPACITY WILL BE DETERMINED BY CEM REPORTS. VE IS A STATE PERMIT REQUIREMENT.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: DESERET GENERATION AND TRANSMISSION COMPANY
NEAR BONANZA, UT

PERMIT/FILE NO. DAQE-186-98

SCHEDULING INFORMATION:
RECEIVED APPLICATION 12/24/1997 ACT
PERMIT ISSUED 03/16/1998 ACT
START UP / /
COMPLIANCE VERIFICATION / /

THROUGHPUT

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<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>CONVEYOR COAL</td>
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<td>475.0000 T/H</td>
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COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
S02
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

MATL HANDLING, LIMESTONE
55.6000 METRIC T/Y
COMPLIANCE WAS NOT VERIFIED.
COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM10
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COAL FIRED BOILER
500.0000 MW
COMPLIANCE WAS VERIFIED.
COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER METHOD:
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REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part A)                                      DATE: 

COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT
32 M.SW OF DELTA, UT, HWY 257
, UT                      MILLARD COUNTY

PERMIT/FILE NO. DAQ-021-96                                      DATE OF PERMIT ISSUANCE-- 01/10/1996

DETERMINATION MADE BY: UTAH BUREAU OF AIR QUALITY
(AGENCY)                                    TIM BLANCHARD
(AGENCY CONTACT PERSON)                      (PHONE)  (801) 536-4000

AIRS ID NO.

EMISSION LIMITS (P: THROUGHPUT        POLLUTANT NAME        RANKING INFORMATION    EST % EFF
(STANDARDIZED)  CAPACITY               )            )

KILN, #4                                                1200.00 T/D, LIME

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>90.019</td>
<td>1200.00 T/D</td>
<td>PM10</td>
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</tr>
<tr>
<td>30501604</td>
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<td>PM</td>
<td>0.2680 LB/T</td>
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<tr>
<td></td>
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<tr>
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<td>SO2</td>
<td>38.4000 LB/H</td>
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<td>CAS NO. 7446-09-5</td>
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<td>NO2</td>
<td>200.0000 LB/H</td>
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<td>CAS NO. 10102-44-0</td>
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<td>CONTROL METHOD: NO</td>
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NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT
32 M.S.W OF DELTA, UT, HWY 257, UT
MILLARD COUNTY

PERMIT/FILE NO. DAQ-021-96

DETERMINATION MADE BY: UTAH BUREAU OF AIR QUALITY
AGENCY CONTACT PERSON: TIM BLANCHARD

SCHEDULING INFORMATION:
RECEIVED APPLICATION 04/11/1995 ACT
PERMIT ISSUED 01/10/1996 ACT
START UP 05/15/1998 EST
COMPLIANCE VERIFICATION / /

PROCESS NAME POLLUTANT NAME CAPACITY
KILN, #4 1200.0000 T/D, LIME

PROCESS/COMPLIANCE NOTES:
EMISSIONS CONTROLLED BY A BAGHOUSE
COORDINATION METHOD (Y/N):
STACK TEST: Y
INSPECTION: Y CALCULATION: N
OTHER METHOD:

PM10 CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

RBLC ID No. UT-0054

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT
32 M.SW OF DELTA, UT, HWY 257
MILLARD COUNTY

PERMIT/FILE NO. DAQE-021-92

DETERMINATION MADE BY: UTAH BUREAU OF AIR QUALITY
TIM BLANCHARD
(AGENCY) (AGENCY CONTACT PERSON)

AIRS ID NO.

PROCESSES SUBJECT TO THIS PERMIT

KILN, #3
PROCESS CODE 90.019
SCC CODE 30501604
THROUGHPUT CAPACITY
840.00 T/D, LIME

PM10
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE
7.5400 LB/H
0.2150 LB/T

SO2
CAS NO. 7446-09-5
CONTROL METHOD: NO
27.2000 LB/H
0.7770 LB/T

NOX
CAS NO. 10102
CONTROL METHOD: NO
160.0000 LB/H
4.5700 LB/T

NOTES:
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT  
32 M.SW OF DELTA, UT, HWY 257  
MILLARD COUNTY  
**PERMIT/FILE NO.** DAQE-021-92  
**DETERMINATION MADE BY:** UTAH BUREAU OF AIR QUALITY  
**AGENCY CONTACT PERSON:** TIM BLANCHARD  
**PHONE #** (801) 536-4000  
**SCHEDULING INFORMATION:**  
- **RECEIVED APPLICATION:** 09/10/1991 ACT  
- **PERMIT ISSUED:** 01/07/1992 ACT  
- **START UP:** 09/04/1992 ACT  
- **COMPLIANCE VERIFICATION:** / /  

**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**  
**THROUGHPUT**  
KILN, #3  
840.0000 T/D, LIME  
COMPLIANCE WAS VERIFIED.  
**PROCESS/COMPLIANCE NOTES:**  
KILN EMISSIONS CONTROLLED BY BAGHOUSE  
**COMPLIANCE METHOD (Y/N):**  
- **STACK TEST:** Y  
- **INSPECTION:** Y  
- **CALCULATION:** N  
- **OTHER METHOD:**  

**PM10**  
- **CAPITAL COSTS:** $ 0  
- **O & M COSTS:** $ 0  
- **ANNUALIZED COSTS:** $ 0  
- **COST EFFECTIVENESS ($/TON):** 0
### Detailed Source Listing (Part B)

**SO2**

- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** 0

**NOX**

- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** 0
REPORT DATE: 06/24/1999                              DETAILED SOURCE LISTING (Part A)                              DAT: 

COMPANY NAME/SITE LOCATION: CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT  
32 M.SW OF DELTA, UT, HWY 257  
, UT                      MILLARD COUNTY

PERMIT/FILE NO. BAQ-0900-1                                           DATE OF PERMIT ISSUANCE-- 06/22/1987 ACT

DETERMINATION MADE BY: UTAH BUREAU OF AIR QUALITY                  TIM BLANCHARD                                (801) 536-4000
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

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<td>600.00 T/D, LIME</td>
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NOTES:
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT  
32 M.SW OF DELTA, UT, HWY 257  
MILLARD COUNTY

**PERMIT/FILE NO.** BAQ-0900-1  
**DETERMINATION MADE BY:** UTAH BUREAU OF AIR QUALITY  
**AGENCY CONTACT PERSON:** TIM BLANCHARD  
**PHONE #** (801) 536-4000

**SCHEDULING INFORMATION:**  
**ESTIMATED/ACTUAL DATE**

- **RECEIVED APPLICATION:** 01/20/1987 ACT  
- **PERMIT ISSUED:** 06/22/1987 ACT  
- **START UP:** 02/12/1991 ACT  
- **COMPLIANCE VERIFICATION:** / /

**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**  
**COMPLIANCE WAS VERIFIED.**

**PROCESS/COMPLIANCE NOTES:**  
**KILN EMISSIONS CONTROLLED BY BAGHOUSE**

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<th>O &amp; M COSTS: $</th>
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<td>COST EFFECTIVENESS ($/TON):</td>
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**THROUGHPUT**

- **KILN, #2**  
- **600.0000 T/D, LIME**
SO2
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0

NOX
- CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0
- COST EFFECTIVENESS ($/TON): 0
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** CONTINENTAL LIME INC. - CRICKET MNT. LIME PLANT  
32 M.SW OF DELTA, UT, HWY 257, UT  
MILLARD COUNTY  
**PERMIT/FILE NO.** 090283  
**DETERMINATION MADE BY:** UTAH BUREAU OF AIR QUALITY  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  
**AIRS ID NO.**  
**PROCESSES SUBJECT TO THIS PERMIT**  

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<th>RANKING INFORMATION</th>
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<td>0.0000</td>
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<td>ADD SCRUBBER</td>
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**NOTES:**
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** CONTINENTAL LIME INC. - CRICKET MTN. LIME PLANT
32 M.SW OF DELTA, UT, HWY 257
, UT
MILLARD COUNTY

**PERMIT/FILE NO.** 090283

**DETERMINATION MADE BY:** UTAH BUREAU OF AIR QUALITY

**AGENCY CONTACT PERSON:** TIM BLANCHARD

**PHONE #** (801) 536-4000

**PROCESS NAME** | **POLLUTANT NAME** | **CAPACITY** | **COMPLIANCE NOTES**
--- | --- | --- | ---
KILN, #1 | 600.0000 T/D, LIME | COMPLIANCE WAS VERIFIED. | KILN EMISSIONS CONTROLLED BY A SCRUBBER

**PROCESS/COMPLIANCE NOTES:**

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<th><strong>CAPITAL COSTS:</strong></th>
<th><strong>O &amp; M COSTS:</strong></th>
<th><strong>ANNUALIZED COSTS:</strong></th>
<th><strong>COST EFFECTIVENESS ($/TON):</strong></th>
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<td>PM10</td>
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**CAPITAL COSTS:** $0

**O & M COSTS:** $0

**ANNUALIZED COSTS:** $0

**COST EFFECTIVENESS ($/TON):** $0

**PERMIT ISSUED** 09/02/1983 ACT

**START UP** 05/01/1982 ACT

**COMPLIANCE METHOD:**

- STACK TEST: Y
- INSPECTION: Y
- CALCULATION: N
- OTHER METHOD: N

COSTS ARE NOT VERIFIED BY AGENCY.

**PERMITTED THRUPUT:**

- **KILN, #1:** 600.0000 T/D, LIME

**SCHEDULING INFORMATION:**

- RECEIVED APPLICATION / /
- PERMIT ISSUED 09/02/1983 ACT
- START UP 05/01/1982 ACT
- COMPLIANCE VERIFICATION / /
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**COMPANY NAME/SITE LOCATION:** HILL AIR FORCE BASE  
00-ALC/EM, 7274 WARDLEIGH RD.  
HILL AIR FORCE BASE, UT 84056-5137  
DAVIS COUNTY

**PERMIT/FILE NO.** DAQE-1087-97

**DETERMINATION MADE BY:** UTAH BUREAU OF AIR QUALITY  
JOSE GARCIA  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)

**AIRS ID NO.**

**PROCESSES SUBJECT TO THIS PERMIT**

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<tr>
<th>THROUGHPUT</th>
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<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<td>SURFACE COATING, MILITARY AIRCRAFT OPERATIONS</td>
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NOTES: THIS IS AN APPROVAL ORDER MODIFICATION OF EXPERIMENTAL APPROVAL ORDER
DAQE-1047-95 TO ALLOW PERMANENT OPERATION OF ZEOLITE ADSORPTION SYSTEM TO
CONTROL VOC EMISSIONS FROM AIRCRAFT PAINTING OPERATIONS IN BUILDING 220 AT
HILL AIR FORCE BASE.
COMPANY NAME/SITE LOCATION: HILL AIR FORCE BASE 
00-ALC/EM, 7274 WARDLEIGH RD. 
HILL AIR FORCE BASE, UT 84056-5137 
DAVIS COUNTY

PERMIT/FILE NO. DAQE-1087-97 
DETERMINATION MADE BY: UTAH BUREAU OF AIR QUALITY 
AGENCY CONTACT PERSON: JOSE GARCIA

SCHEDULING INFORMATION:
RECEIVED APPLICATION 09/17/1996 ACT
PERMIT ISSUED 12/15/1997 ACT
START UP 11/09/1995 ACT
COMPLIANCE VERIFICATION / / 

THROUGHPUT

SURFACE COATING, MILITARY AIRCRAFT OPERATIONS 
125.0000 AIRCRAFT PER YEAR 
COMPLIANCE WAS VERIFIED.

PROCESS/COMPLIANCE NOTES: 
PERFORMANCE CERTIFIED DURING PILOT PLANT STUDY AND RE-VERIFIED YEARS
PILOT PLANT STUDY AUTHORIZED IN DAQE-1047-95.

COMPLIANCE METHOD (Y/N): 
STACK TEST: Y 
INSPECTION: Y 
CALCULATION: N 
OTHER METHOD:

VOC 
CAPITAL COSTS: $ 0 
O & M COSTS: $ 0 
ANNUALIZED COSTS: $ 259,200 
COST EFFECTIVENESS ($/TON): 2,400
HAP, TOTAL

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 259,200
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN 1997 DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  731

COMPANY NAME/SITE LOCATION:  CHAPARRAL STEEL COMPANY
, VA

PERMIT/FILE NO. 51264                                                                                       DATE OF PERMIT ISSUANCE-- 04/24/1998 ACT

DETERMINATION MADE BY:  VIRGINIA ENVIRONMENTAL QUALITY AIR DIV.      DORIS A. MCLEOD
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 51-053-0104

EMISSION LIMITS (P: (STANDARDIZED)

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<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<td>FURNACES, EAF &amp; LRF, COMBINED MELTSHOP</td>
<td>215.00 T/H</td>
<td>TSP</td>
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DATE ENTERED/UPDATED:  01/20/1999

RBLC ID No. VA-0240

COMPANY NAME/SITE LOCATION:  CHAPARRAL STEEL COMPANY
, VA

PERMIT/FILE NO. 51264

DETERMINATION MADE BY:  VIRGINIA ENVIRONMENTAL QUALITY AIR DIV.      DORIS A. MCLEOD
(AGENCY)                                     (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO. 51-053-0104

EMISSION LIMITS (P: (STANDARDIZED)

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<td>CO</td>
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<td>Control Method: BOT</td>
<td>DUCTING/EXTERNAL COM 12 MMBTU/HR; WORK PR. 2/1 CONTROL OPTI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SO2</td>
<td>0.7000 LB/T</td>
<td>Control Method: NO</td>
<td>2/2 CONTROL OPTI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS NO. 7446-0-95</td>
<td>0.0000</td>
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<tr>
<td>NO2</td>
<td>0.7000 LB/T</td>
<td>Control Method: POL</td>
<td>LOW NOX BURNERS; WORK PR. 2/1 CONTROL OPTI</td>
<td></td>
<td></td>
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<tr>
<td>CAS NO. 10102-44-0</td>
<td>0.0000</td>
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<td></td>
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<tr>
<td>VOC</td>
<td>0.3500 LB/T</td>
<td>Control Method: POL</td>
<td>SCRAP HANDLING PLAN; WORK PR. 1/1 CONTROL OPTI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS NO. VOC</td>
<td>0.0000</td>
<td></td>
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</tbody>
</table>

**ELECTRIC ARC FURNACE, ES1**

- PROCESS CODE 81.006
- SCC CODE 30300906/7/8
- 215.00 T/H

<table>
<thead>
<tr>
<th>Comp.</th>
<th>Initial Emission</th>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE</td>
<td>6.0000 % OP.</td>
<td>Control Method: BOT</td>
<td>MELT SHOP EVACUATION</td>
</tr>
</tbody>
</table>
**REPORT DATE:** 06/24/1999

**DETAILED SOURCE LISTING (Part A)**

**RBLC ID No. VA-0240**

### ROOF MONITOR

<table>
<thead>
<tr>
<th>PROCESS CODE 81.006</th>
<th>TSP</th>
<th>7.3000 LB/H</th>
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</thead>
<tbody>
<tr>
<td>SCC CODE 30300906/7</td>
<td>CAS NO. PM</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td>CONTROL METHOD: ADD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BASED ON 2% FUGITIVE</td>
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</table>

<table>
<thead>
<tr>
<th>PM10</th>
<th>5.6000 LB/H</th>
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<tbody>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD: ADD</td>
<td></td>
</tr>
<tr>
<td>BASED ON 2% FUGITIVE</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>VE</th>
<th>10.0000 % OP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO.</td>
<td>0.0000</td>
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<tr>
<td>CONTROL METHOD: NO</td>
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### FURNACE, PREHEAT & REHEAT, ES3, ES4

<table>
<thead>
<tr>
<th>PROCESS CODE 81.006</th>
<th>TSP</th>
<th>10.0000 LB/MMCF</th>
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<tbody>
<tr>
<td>SCC CODE 30300933</td>
<td>CAS NO. PM</td>
<td>0.0000 GR/DSCF</td>
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<td>CONTROL METHOD: POL</td>
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<tr>
<td></td>
<td>USE OF NATURAL GAS;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WORK PRACTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PM10</th>
<th>10.0000 LB/MMCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. PM</td>
<td>0.0000 GR/D.</td>
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<tr>
<td>CONTROL METHOD: POL</td>
<td></td>
</tr>
<tr>
<td>USE OF NATURAL GAS;</td>
<td></td>
</tr>
<tr>
<td>WORK PRACTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SO2</th>
<th>0.6000 LB/MMCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO. 7446-09-5</td>
<td>0.0000</td>
</tr>
<tr>
<td>CONTROL METHOD: NO</td>
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</table>

<table>
<thead>
<tr>
<th>NOX</th>
<th>210.0000 LB/MMCF</th>
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<tbody>
<tr>
<td>CAS NO. 10102</td>
<td>0.0000</td>
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<tr>
<td>CONTROL METHOD: POL</td>
<td></td>
</tr>
<tr>
<td>LOW NOX BURNERS; WORK</td>
<td></td>
</tr>
</tbody>
</table>

2/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
CO  75.0000 LB/MMCF
CAS NO. 630-08-0
CONTROL METHOD: NO
2/2 CONTROL OPTIONS EXAMINED/SELECTED

VOC  5.3000 LB/MMCF
CAS NO. VOC
CONTROL METHOD: NO

SCRAP SHREDDER W/CASCADE SEPARATOR, ES5  235.00 T/H
PROCESS CODE 81.006
SCC CODE

TSP  0.9000 LB/H
CAS NO. PM
CONTROL METHOD: POLLUTION PREVENTION
USE OF INTRINSICALLY WET PROCESS; WORK PRACTICE

PM10  0.7000 LB/H
CAS NO. PM
CONTROL METHOD: POLLUTION PREVENTION
USE OF INTRINSICALLY WET PROCESS; WORK PRACTICE

UNPAVED RDS, STORAGE PILES & MATERIAL TRANSFER OP.  0.00
PROCESS CODE 81.999
SCC CODE 30300832/3/4

TSP  0.2000 LB/H
CAS NO. PM
CONTROL METHOD: DUST MANAGEMENT PLAN

PM10  0.1000 LB/H
CAS NO. PM
CONTROL METHOD: DUST MANAGEMENT PLAN;
REPORT DATE: 06/24/1999

MELTSHOP, MISC. OPERATIONS

PROCESS CODE 81.006
SCC CODE 30301580

TSP
CAS NO. PM
0.0000
CONTROL METHOD: NO

PM10
CAS NO. PM
12.0000 LB/MMCFT
CONTROL METHOD: NO

SO2
CAS NO. 7446-09-5
0.6000 LB/MMCFT
CONTROL METHOD: NO

NOX
CAS NO. 10102
100.0000 LB/MMCFT
CONTROL METHOD: NO

CO
CAS NO. 630-08-0
21.0000 LB/MMCFT
CONTROL METHOD: NO

VOC
CAS NO. VOC
5.3000 LB/MMCFT
CONTROL METHOD: NO

DUST HANDLING SYSTEM, BAGHOUSE

PROCESS CODE 81.006
SCC CODE

VE
CAS NO.
10.0000 % OP.
CONTROL METHOD: NO

NOTES: GREENFIELD PERMIT TO CONSTRUCT AND OPERATE A STEEL RECYCLING FACILITY; FACILITY LOCATED BETWEEN CHURCH ROAD AND SQUIRREL LEVEL ROAD IN DINWIDDIE COUNTY, VIRGINIA. THERE HAS BEEN NO STACK TESTS PERFORMED.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: CHAPARRAL STEEL COMPANY, VA

PERMIT/FILE NO. 51264

SCHEDULING INFORMATION:

PROCESS NAME               POLLUTANT NAME               CAPACITY
FURNACES, EAF & LRF, COMBINED MELTSHOP   215.0000 T/H

PROCESS/COMPLIANCE NOTES:

EMISSION FACTORS FOR EAF/LRF (VOC, NOX, CO & SO2) WILL BE LOWERED BASED ON INITIAL PERFORMANCE TEST; STD FOR PM (.0018 GR/DSCF) MAY BE RAISED UP TO .0032 GR/DSCF AFTER 2ND PERFORMANCE TEST IF COMPL. NOT DEMONSTRATED BY BAGHOUSE.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER METHOD:

TSP

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 550
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Capital Costs ($</th>
<th>O &amp; M Costs ($</th>
<th>Annualized Costs ($</th>
<th>Cost Effectiveness ($/TON)</th>
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</thead>
<tbody>
<tr>
<td>PM10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>550</td>
</tr>
<tr>
<td>PB</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>CO</td>
<td>0</td>
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<td>SO2</td>
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<td>NO2</td>
<td>0</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

ELECTRIC ARC FURNACE, ES1

PROCESS/COMPLIANCE NOTES:

ELECTRIC ARC FURNACE, ES1

215.0000 T/H

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

APPLICABLE TO NSPS AAA

COMPLIANCE METHOD (Y/N):

STACK TEST: N

INSPECTION: N

CALCULATION: N

OTHER METHOD:

VE

CAPITAL COSTS: $ 0

O & M COSTS: $ 0

ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0

ROOF MONITOR

215.0000 T/H

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

ROOF MONITOR EMISSIONS BASED ON 98% CAPTURE OF EAF PARTICULATE
CAPTURE OF LRF PARTICULATE BY BAGHOUSE. PM10 ESTIMATED TO BE 76% OF TSP.

COMPLIANCE METHOD (Y/N):

STACK TEST: N

INSPECTION: N

CALCULATION: N

OTHER METHOD:

TSP

CAPITAL COSTS: $ 0

O & M COSTS: $ 0

ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0

PM10

CAPITAL COSTS: $ 0

O & M COSTS: $ 0

ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. VA-0240

FURNACE, PREHEAT & REHEAT, ES3, ES4

PROCESS/COMPLIANCE NOTES:

1934.0000 MMCF/Y (COMBINED)  COMPLIANCE WAS NOT VERIFIED.

FOR NOX/CO CONTROL, LOOKED @ SCONOX. FOR NOX CONTROL, LOOKED AT SCR.

FACILITY ACCEPTED A FUEL LIMIT WHICH RAISED COST EFFECTIVENESS

BOTH CONTROLS ABOVE $4000/TON REMOVED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCUL
OTHER METHOD:

TSP

CAPITAL COSTS:  $0
O & M COSTS:  $0  COSTS ARE IN
ANNUALIZED COSTS:  $0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

PM10

CAPITAL COSTS:  $0
O & M COSTS:  $0  COSTS ARE IN
ANNUALIZED COSTS:  $0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

SO2

CAPITAL COSTS:  $0
O & M COSTS:  $0  COSTS ARE IN
ANNUALIZED COSTS:  $0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

NOX

CAPITAL COSTS:  $0
O & M COSTS:  $0  COSTS ARE IN
ANNUALIZED COSTS:  $0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
<table>
<thead>
<tr>
<th>Source Description</th>
<th>Flow Rate (T/H)</th>
<th>Compliance Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrap Shredder w/Cascade Separator, ES5</td>
<td>235.0000</td>
<td>N</td>
</tr>
<tr>
<td>TSP</td>
<td>0.0000</td>
<td>N</td>
</tr>
<tr>
<td>PM10</td>
<td>0.0000</td>
<td>N</td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

TSP

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

PM10

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

SO2

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

MELTSHOP, MISC. OPERATIONS

PROCESS/COMPLIANCE NOTES:

- 4EA LADLE PREHEATERS, 1EA LADLE DRYER, 4EA TUNDISH PREHEATERS, DRYERS.

MELT SHOP, MISC. OPERATIONS

COMPLIANCE WAS NOT VERIFIED.

TSP

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

PM10

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

SO2

- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999
RBLG ID No. VA-0240

NOX
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

DUST HANDLING SYSTEM, BAGHOUSE
0.0000
PROCESS/COMPLIANCE NOTES:
SUBJECT TO NSPS AAA

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
OTHER TEST: N
OTHER METHOD:

VE
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part A)  
RBLG ID No. VA-0241  

COMPANY NAME/SITE LOCATION: ROANOKE ELECTRIC STEEL CORPORATION  
P.O. BOX 13948  
ROANOKE, VA 24038-3948  

PERMIT/FILE NO. 20131  

DETERMINATION MADE BY: VIRGINIA ENVIRONMENTAL QUALITY AIR DIV.  
H. DEAN DOWNS  
(AGENCY)  
(AGENCY CONTACT PERSON)  
(PHONE)  

AIRS ID NO.  

Emission Limits (Primary)  

<table>
<thead>
<tr>
<th>Throughput</th>
<th>Capacity</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>EST % EFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.00 T/H OF STEEL</td>
<td>FURNACE, ELECTRIC ARC #5</td>
<td>100.00 T/H</td>
<td>PM</td>
<td>0.0034 GR/D.</td>
</tr>
<tr>
<td></td>
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<td>CAS NO. PM</td>
<td>0.0034 GR/D.</td>
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<td>CONTROL METHOD: ADD</td>
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<td></td>
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<td>CONTROLLED BY BAGHOUSE</td>
<td></td>
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<tr>
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<td></td>
<td>PM10</td>
<td>7.5000 LB/H</td>
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<td>CAS NO. PM</td>
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<td>CONTROL METHOD: ADD</td>
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<td>SO2</td>
<td>16.8000 LB/H</td>
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<td>CAS NO. 7446-09-5</td>
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<td>CONTROL METHOD: NO</td>
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<td>NOX</td>
<td>37.8000 LB/H</td>
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<td></td>
<td></td>
<td>CONTROL METHOD: NO</td>
<td></td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

RBLC ID No. VA-0241

DETAILED SOURCE LISTING (Part A)

CO
CAS NO. 630-08-0
240.0000 LB/H
0.0000
CONTROL METHOD: ADD
CONTROLLED BY DEC W/:

VOC
CAS NO. VOC
30.0000 LB/H
0.0000
CONTROL METHOD: POL
SCRAP MANAGEMENT PLA:

PB
CAS NO. 7439-92-1
0.3000 LB/H
0.0000
CONTROL METHOD: ADD
CONTROLLED BY BAGHOU.

FLUORIDES
CAS NO. PM
0.5400 LB/H
0.0000
CONTROL METHOD: ADD
CONTROLLED BY BAGHOU.

METALLURGICAL STATION, LADLE, #5

100.00 T/H OF STEEL

PROCESS CODE 81.006
SCC CODE 30300918

PM10
CAS NO. PM
0.0000
0.0000
CONTROL METHOD: ADD

PM
CAS NO. PM
0.0052 GR/D.
0.0000
CONTROL METHOD: ADD
CONTROLLED BY BAGHOU.

SO2
CAS NO. 7446-09-5
6.0000 LB/H
0.0000
CONTROL METHOD: NO.
### FURNACE, HEAT, BILLET, #2

**Process Code:** 81.007  
**SCC Code:** 390006  
**Output:** 160.00 T/H of steel

<table>
<thead>
<tr>
<th>Compound</th>
<th>Emission Rate (LB/H)</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>2.8000</td>
<td>ADD CONTROLLED BY BAGHOUSE</td>
</tr>
<tr>
<td>CAS NO. PM</td>
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<tr>
<td>NOX</td>
<td>6.0000</td>
<td>NO CONTROLS FEASIBLE</td>
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<tr>
<td>CAS NO. 10102</td>
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<tr>
<td>CO</td>
<td>48.0000</td>
<td>NO CONTROLS FEASIBLE</td>
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<tr>
<td>CAS NO. 630-08-0</td>
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<tr>
<td>VOC</td>
<td>0.2000</td>
<td>NO CONTROLS FEASIBLE</td>
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<tr>
<td>CAS NO. VOC</td>
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<tr>
<td>PB</td>
<td>0.0900</td>
<td>ADD CONTROLLED BY BAGHOUSE</td>
</tr>
<tr>
<td>CAS NO. 7439-92-1</td>
<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>Fluorides</td>
<td>0.1600</td>
<td>ADD CONTROLLED BY BAGHOUSE</td>
</tr>
<tr>
<td>CAS NO. PM</td>
<td>0.0000</td>
<td></td>
</tr>
</tbody>
</table>
### SO2
- CAS No.: 7446-09-5
- Emission Rate: 0.1100 LB/H
- Control Method: POLLUTION PREVENTION
- Natural gas is used as fuel.

### NOX
- CAS No.: 10102
- Emission Rate: 39.9000 LB/H
- Control Method: BOTH P2 & ADD-ON CONTROL EQUIPMENT
- Controlled by ultra-low NOX burners, and natural gas (fuel type).

### CO
- CAS No.: 630-08-0
- Emission Rate: 9.9400 LB/H
- Control Method: NO CONTROLS FEASIBLE

### VOC
- CAS No.: VOC
- Emission Rate: 1.6000 LB/H
- Control Method: NO CONTROLS FEASIBLE

### NOTES:
PERMIT TO CONSTRUCT/MODIFY AND OPERATE ONE BILLET REHEAT FURNACE (BRF #2 CONSTRUCT), ONE ELECTRIC ARC FURNACE (EAF #5-MODIFY), AND ONE LADLE METAL-LURGICAL STATION (LMS #5-MODIFY). FACILITY IS LOCATED AT WEST SIDE BOULEVARD NEAR SHENADOAH AVENUE IN ROANOKE, VIRGINIA.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: ROANOKE ELECTRIC STEEL CORPORATION
P.O. BOX 13948
ROANOKE, VA 24038-3948

PERMIT/FILE NO. 20131

Determination Made By: VIRGINIA ENVIRONMENTAL QUALITY AIR DIV.
Agency Contact Person: H. DEAN DOWNS

PROCESS NAME                  POLLUTANT NAME             CAPACITY
FURNACE, ELECTRIC ARC #5       100.0000 T/H OF STEEL           COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
PERMIT IS TO MODIFY AN EXISTING ELECTRIC ARC FURNACE AND LADLE METALLURGICAL STATION FROM 70 T/H TO 100 T/H (876,000 T/YR).

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION 12/31/1997 ACT
PERMIT ISSUED 11/06/1998 ACT
START UP /
COMPLIANCE VERIFICATION /

THROUGHPUT

DETAILED SOURCE LISTING (Part B)
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CAPITAL COSTS: $</th>
<th>O &amp; M COSTS: $</th>
<th>ANNUALIZED COSTS: $</th>
<th>COST EFFECTIVENESS ($/TON):</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM10</td>
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<tr>
<td>SO2</td>
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<tr>
<td>NOX</td>
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<td>0</td>
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<tr>
<td>CO</td>
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<tr>
<td>VOC</td>
<td>0</td>
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<tr>
<td>PB</td>
<td>0</td>
<td>0</td>
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<tr>
<td>FLUORIDES</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
METALLURGICAL STATION, LADLE, #5

PERMIT IS TO MODIFY AN EXISTING ELECTRIC ARC FURNACE AND LADLE METALLURGICAL STATION FROM 70 T/H TO 100 T/H (876,000 T/YR).

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

PERMIT IS TO MODIFY AN EXISTING ELECTRIC ARC FURNACE AND LADLE METALLURGICAL STATION FROM 70 T/H TO 100 T/H (876,000 T/YR).

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATED COSTS ARE NOT VERIFIED BY AGENCY.
OTHER METHOD:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CAPITAL COSTS ($)</th>
<th>O &amp; M COSTS ($)</th>
<th>ANNUALIZED COSTS ($)</th>
<th>COST EFFECTIVENESS ($/TON)</th>
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<tbody>
<tr>
<td>PM10</td>
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<tr>
<td>PM</td>
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<td>NOX</td>
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CO
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

VOC
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

PB
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

FLUORIDES
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0

FURNACE, HEAT, BILLET, #2
- 160.0000 T/H OF STEEL
- COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
- PERMIT TO RECONSTRUCT/CONSTRUCT NEW BILLET REHEAT FURNACE FROM TO 160 T/H (900,000 T/YRR).
- COMPLIANCE METHOD (Y/N):
  - STACK TEST: N
  - INSPECTION: N
  - CALCULATION: N
  - OTHER TEST: N
  - OTHER METHOD:

PM
- CAPITAL COSTS: $0
- O & M COSTS: $0
- ANNUALIZED COSTS: $0
- COST EFFECTIVENESS ($/TON): 0
### PM10
- Capital Costs: $0
- O & M Costs: $0
- Annualized Costs: $0
-Costs are not verified by agency.
- Cost Effectiveness ($/Ton): $0

### SO2
- Capital Costs: $0
- O & M Costs: $0
- Annualized Costs: $0
- Costs are not verified by agency.
- Cost Effectiveness ($/Ton): $0

### NOX
- Capital Costs: $0
- O & M Costs: $0
- Annualized Costs: $0
- Costs are not verified by agency.
- Cost Effectiveness ($/Ton): $0

### CO
- Capital Costs: $0
- O & M Costs: $0
- Annualized Costs: $0
- Costs are not verified by agency.
- Cost Effectiveness ($/Ton): $0

### VOC
- Capital Costs: $0
- O & M Costs: $0
- Annualized Costs: $0
- Costs are not verified by agency.
- Cost Effectiveness ($/Ton): $0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: SCOTT PAPER COMPANY
2600 FEDERAL AVENUE
EVERETT, WA 98201-
SNOHOMISH COUNTY

PERMIT/FILE NO. DE98-AQI02(NEW)

DETERMINATION MADE BY: WASHINGTON STATE DEPARTMENT OF ECOLOGY
J. MARK DIRKX

(AGENCY)                        (AGENCY CONTACT PERSON)                      (PHONE)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT

BOILER, WOODWASTE-FIRED  718.00 MMBTU/H
PROCESS CODE 11.008
SCC CODE 10200907

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
</tr>
</thead>
</table>
| 718.00 MMBTU/H | NOX | 150.0000 PPM | 0.0000 | CONTROL METHOD: POL
| | | | | COMBUSTION CONTROLS
| | | | | 1/ 1 CONTROL OPTI:
| | CO | 511.0000 PPM | 0.0000 | CONTROL METHOD: POL
| | | | | COMBUSTION CONTROL, :
| | VOC | 34.5000 LB/H | 0.0000 | CONTROL METHOD: POL
| | | | | COMBUSTION CONTROL, :
NH3
CAS No. 7664-41-7
25.0000 PPM @ 7% O2
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION CONTROL:

VE
CAS No. VE
10.0000 % PERCENT 6 MIN AVG.
CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION CONTROL:

SO2
CAS No. 7446-09-5
70.0000 LB/H 12MO. AVG.
CONTROL METHOD: POLLUTION PREVENTION
FUEL SPEC: BACKUP FUEL LIMITED TO 0.05% SULFUR
DISTILLATE

PM10
CAS No. PM
0.0084 GR/DSCF @ 7% O2
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
BAGHOUSE

PM
CAS No. PM
0.0110 GR/DSCF @ 7% O2
CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
BAGHOUSE

NOTES: 1. DETERMINATION FOR NEW WOODWASTE BOILER THAT WILL COGENERATE ELECTRICITY.
2. THROUGHPUT CAPACITY: 435,000 LBS STEAM/HR; GENERATE 277,000 MW-HRS OF ELECTRICAL POWER.
3. COMPLIANCE WITH VE, NOX, CO, AND NH3 EMISSION LIMITS IS DETERMINED BY CONTINUOUS EMISSION MONITORING SYSTEMS.
4. PRIMARY EMISSION LIMIT FOR NOX, CO, AND NH3 ARE GIVEN AS A 365 DAY ROLLING AVERAGE.
COMPANY NAME/SITE LOCATION: SCOTT PAPER COMPANY
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PERMIT/FILE NO. DE98-AQI02 (NEW)

COMPANY NAME/SITE LOCATION: SCOTT PAPER COMPANY
2600 FEDERAL AVENUE
EVERETT, WA 98201-
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REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  RBLC ID No. WA-0280

COMPANY NAME/SITE LOCATION:  EEX POWER SYSTEMS, ENCOGEN NW COGENERATION PROJECT  
                                      915 CORNWALL AVE.  
                                      BELLINGHAM, WA 98225-  
                                      WHATCOM COUNTY

PERMIT/FILE NO. 91-02  DATE OF PERMIT ISSUANCE-- 09/26/1991 ACT

DETERMINATION MADE BY:  WASHINGTON STATE DEPARTMENT OF ECOLOGY  
                                      BERNARD BRADY  
                                      (AGENCY)  
                                      (AGENCY CONTACT PERSON)  
                                      (PHONE)  

AIRS ID NO. 53-073-00321

EMISSION LIMITS (P:  O:)

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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tr>
<td>TURBINES, COMBINED CYCLE COGEN, GE FRAME 6</td>
<td>123.00 MW</td>
<td>NOX</td>
<td>7.0000 PPMD'</td>
<td>CAS NO. 10102</td>
<td>7.0000 PPM</td>
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<td>SOX</td>
<td>100.0000 LB/D</td>
<td>CAS NO. 7446-09-5</td>
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<td>CO</td>
<td>10.0000 PPMD'</td>
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<td>CAS NO. PM</td>
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CONTROL METHOD:  ADD-ON CONTROL EQUIPMENT  
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED  

STEAM INJECTION AND SCR  

CONTROL METHOD:  NO CONTROLS FEASIBLE
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)
RBLC ID No. WA-0280                                               PAGE H - 757

NH3                             10.0000 PPMD @ 15% O2            BACT-OTHER
CAS NO. 7664-41-7                0.0000                             0.000
CONTROL METHOD: NO

NOTES: FIRST AMENDMENT TO ALLOW USE OF OIL FOR BACKUP FUEL.
SECOND AMENDMENT RAISED DAILY NOX LIMIT (NO CHANGE ON ANNUAL).
REPORT DATE: 06/24/1999  
COMPANY NAME/SITE LOCATION: EEX POWER SYSTEMS, ENCOGEN NW COGENERATION PROJECT  
915 CORNWALL AVE.  
BELLINGHAM, WA 98225-  
WHATCOM COUNTY  
PERMIT/FILE NO. 91-02  
DETERMINATION MADE BY: WASHINGTON STATE DEPARTMENT OF ECOLOG  
AGENCY CONTACT PERSON: BERNARD BRADY  
SCHEDULING INFORMATION:  
RECEIVED APPLICATION / /  
PERMIT ISSUED 09/26/1991 ACT  
START UP 06/01/1992 EST  
COMPLIANCE VERIFICATION 06/01/1992 EST  
THROUGHPUT  
TURBINES, COMBINED CYCLE COGEN, GE FRAME 6  
123.0000 MW  
PROCESS/COMPLIANCE NOTES:  
ADDITIONAL SCC CODE: 20300103  
COMPLIANCE METHOD (Y/N):  
STACK TEST: Y  
INSPECTION: N  
OTHER METHOD:  
NOX  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
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<tr>
<th>Pollutant</th>
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<th>O &amp; M Costs</th>
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REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part A)  
RBLC ID No. WA-0282  

COMPANY NAME/SITE LOCATION:  ARCO PETROLEUM PRODUCTS CO  
FERNDALE, WA 98248-  
WHATCOM COUNTY  

PERMIT/FILE NO. 3  
DATE OF PERMIT ISSUANCE-- 06/01/1984 EST  
START-UP DATE-- 06/01/1985 EST  

DETERMINATION MADE BY:  
WASHINGTON STATE DEPARTMENT OF ECOLOGY  
(AGENCY)  
AL NEWMAN  
(AGENCY CONTACT PERSON)  
(360) 407-6810  

AIRS ID NO. 53-073-0007  

PROCESSES SUBJECT TO THIS PERMIT  

<table>
<thead>
<tr>
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<th>THROUGHPUT</th>
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<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
<th>EMISSION LIMITS</th>
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<tr>
<td>CALCINER, COKE, MATERIAL HANDLING</td>
<td>482000.00 T/YR</td>
<td>SO2</td>
<td>160.0000 PPM</td>
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<td>CONTROL METHOD: ADD CARBONATE SCRUBBER</td>
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<td>0.0000</td>
<td>CONTROL METHOD: NO</td>
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<td>CAS NO. 10102</td>
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NOTES: PERMIT AMENDMENT REQUIRED.
RBLC ID No. WA-0282

COMPANY NAME/SITE LOCATION: ARCO PETROLEUM PRODUCTS CO
FERNDALE, WA 98248-
WHATCOM COUNTY

PERMIT/FILE NO. 3

DETERMINATION MADE BY: WASHINGTON STATE DEPARTMENT OF ECOLOGY
AGENCY CONTACT PERSON: AL NEWMAN

SCHEDULING INFORMATION:

RECEIVED APPLICATION 05/01/1984 EST
PERMIT ISSUED 06/01/1984 EST
START UP 06/01/1985 EST
COMPLIANCE VERIFICATION 06/01/1986 EST

PROCESS NAME                  POLLUTANT NAME             CAPACITY

CALCINER, COKE, MATERIAL HANDLING 482000.0000 T/YR

PROCESS/COMPLIANCE NOTES:
OTHER SCC CODE IS 30601201. MATERIAL HANDLING INCLUDES RAIL LO. TRANSPORTATION AND TOWER.

THROUGHPUT

SO2
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
<table>
<thead>
<tr>
<th>Component</th>
<th>Capital Costs ($</th>
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<tr>
<td>PM</td>
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REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)
RBLC ID No. WI-0084

COMPANY NAME/SITE LOCATION:  QUAD/GRAPHICS - SUSSEX
                         N 63 W 23075 MAIN STREET
                         SUSSEX, WI 53089-         WAUKESHA COUNTY

PERMIT/FILE NO. 98-JCH-179

DATE ENTERED/UPDATED: 04/19/1999

DETERMINATION MADE BY:  WISCONSIN DEPT OF NATURAL RESOURCES
                         JEFFREY HENSON
                         (AGENCY)
                         (AGENCY CONTACT PERSON)
                         (PHONE)

AIRS ID NO. 551331830

EMISSION LIMITS (P: STANDARDS) THROUGHPUT POLLUTION PREVENTION

PROCESSES SUBJECT TO THIS PERMIT CAPACITY POLLUTANT NAME RANKING INFORMATION

PRESS, PRINTING, HEATSET WEB OFFSET 18.07 GAL/H INK

<table>
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<tr>
<th>PROCESS CODE</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>CONTROL METHOD</th>
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<tbody>
<tr>
<td>41.022</td>
<td>18.07 GAL/H INK</td>
<td>VOC</td>
<td>ADD THERMAL OXIDIZER</td>
</tr>
<tr>
<td>40500401</td>
<td></td>
<td>CAS NO. VOC</td>
<td></td>
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NOTES:
COMPANY NAME/SITE LOCATION: QUAD/GRAPHICS - SUSSEX  
               N 63 W 23075 MAIN STREET  
               SUSSEX, WI 53089-  
               WAUKESHA COUNTY  
PERMIT/FILE NO. 98-JCH-179  
DETERMINATION MADE BY: WISCONSIN DEPT OF NATURAL RESOURCES  
AGENCY CONTACT PERSON: JEFFREY HENSON  
SCHEDULING INFORMATION:  
RECEIVED APPLICATION 11/25/1998 ACT  
PERMIT ISSUED 03/08/1999 ACT  
START UP 07/01/1999 EST  
COMPLIANCE VERIFICATION / /  
THROUGHPUT  
PRESS, PRINTING, HEATSET WEB OFFSET  
18.0700 GAL/H INK  
PROCESS/COMPLIANCE NOTES:  
BASIS OF LIMIT ARE BACT-PSD AND LAER.  
COMPLIANCE WAS NOT VERIFIED.  
COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:  
VOC  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 5,617  
COSTS ARE IN 1998 DOLLARS.  
COSTS ARE VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: LOUISIANA LAND & EXPLORATION CO.-LOST CABIN GAS PT SEC. 11, RG 90W, TWSHP 38N LYSITE, WY 82642- FREMONT COUNTY

PERMIT/FILE NO. CT-1362

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL (AGENCY) DAN FAUTH (AGENCY CONTACT PERSON) (307) 332-6755

AIRS ID NO. 56-013-00028

EMISSION LIMITS (P: STANDARDIZED)

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<th>THROUGHPUT</th>
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<tbody>
<tr>
<td>GAS COMPRESSOR</td>
<td>8.10 SCFM</td>
<td>H2S</td>
<td>0.5000 LB/H</td>
<td>OTHER</td>
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<tr>
<td></td>
<td></td>
<td>COS</td>
<td>130.0000 LB/H</td>
<td>BACT-PSD</td>
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<tr>
<td>INCINERATOR, TAIL GAS (PHASE II)</td>
<td>17.00 SCFM</td>
<td>SO2</td>
<td>115.0000 LB/H</td>
<td>BACT-PSD</td>
</tr>
</tbody>
</table>
CO
CAS NO. 630-08-0
100.0000 LB/H
0.0000
CONTROL METHOD: NO COUNTER PRODUCTIVE TO CONTROL CO AS NOX AND CO2 EMISSIONS WOULD INCREASE.

NOX
CAS NO.
5.0000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION PRIMARY CONCERN AT FACILITY MINIMIZING SO2 EMISSIONS.

H2S
CAS NO. 7783-06-4
0.8000 LB/H
0.0000
CONTROL METHOD: POLLUTION PREVENTION PRIMARY CONCERN AT FACILITY MINIMIZING SO2 EMISSIONS.

NOTES: ADDITION OF SECOND PROCESSING TRAIN TO EXISTING FACILITY FOR SOUR GAS SWEETENING. SECOND TRAIN WILL PROCESS 66.5 MMSCF/D OF SOUR GAS CONTAINING 12.2% 2S. TOTAL FACILITY WILL NOW PROCESS 133 MMSCF/D OF SOUR GAS.
REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part B)                                      PAGE H- 767  

COMPANY NAME/SITE LOCATION: LOUISIANA LAND & EXPLORATION CO.-LOST CABIN GAS PT  
SEC. 11, RG 90W, TWNSHIIP 38N  
LYSITE, WY 82642-  
FREMONT COUNTY  

PERMIT/FILE NO. CT-1362  
DETERMIONATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA  
AGENCY CONTACT PERSON: DAN FAUTH  

SCHEDULING INFORMATION:  

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THROUGHPUT  

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<th>CAPACITY</th>
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COMPLIANCE WAS NOT VERIFIED.  
COMPLIANCE METHOD (Y/N): N  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:  

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<tr>
<td>O &amp; M COSTS: $</td>
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<td>ANNUALIZED COSTS: $</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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COS  

<p>| |</p>
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<td>O &amp; M COSTS: $</td>
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<td>ANNUALIZED COSTS: $</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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</table>
**INCINERATOR, TAIL GAS (PHASE II)**

**PROCESS/COMPLIANCE NOTES:**

SCOT TAIL GAS INCINERATOR FOLLOWING A 3 STAGE CLAUS PLANT.

**COMPLIANCE WAS NOT VERIFIED.**

**CAPACITY:**

17,000 SCFM

**COMPLIANCE METHOD (Y/N):**

- STACK TEST: N
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N

**CAPITAL COSTS:** $0

**O & M COSTS:** $0

**ANNUALIZED COSTS:** $0

**COST EFFECTIVENESS ($/TON):** 934

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<tr>
<td>SO2</td>
<td>$0</td>
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<td>$0</td>
<td>934</td>
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<tr>
<td>CO</td>
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<td>0</td>
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<tr>
<td>NOx</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>H2S</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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COMPANY NAME/SITE LOCATION: FMC WY CORPORATION-GREEN RIVER SODA ASH PLANT
SEC. 14, 15.22623, TWP 19N
GREEN RIVER, WY 82935-
SWEETWATER COUNTY

PERMIT/FILE NO. CT-1045

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
LEE GRIBOVICZ
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO. 56-037-00004

EMISSION LIMITS (P:
S:
)

PROCESSES SUBJECT TO THIS PERMIT

LIME STORAGE SILO
500.00 T (20500 CU FT)

PROCESS CODE 90.019
SCC CODE 30510205
PM
0.0200 GR/ACF
CAS NO. PM
0.0000
CONTROL METHOD: ADD BIN VENT BAGHOUSE,
1/1 CONTROL OPTION

SLAKER VENT, LIME
0.00

PROCESS CODE 90.019
SCC CODE 30102103
PM
0.0200 GR/ACF
CAS NO. PM
0.0000
CONTROL METHOD: ADD
HIGH PRESSURE DROP V.
1/1 CONTROL OPTION
FLUID BED SODA ASH

PROCESS CODE 90.017
SCC CODE 30102107

PM
CAS NO. PM
0.0000

CONTROL METHOD: ADD CYCLONE PRECLEANER & VENTURI SCRUBBER. 57686 ACFM

BACT-PSD

SCC CODE 30102107
CAS NO. PM
0.0000

CONTROL METHOD: ADD CYCLONE PRECLEANER & VENTURI SCRUBBER. 57686 ACFM

BACT-PSD

MATERIAL HANDLING, CONVEYOR & TRANSFER

PROCESS CODE 90.017
SCC CODE 30102122

PM
CAS NO. PM
0.0500

CONTROL METHOD: ADD BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM 12000 ACFM

BACT-PSD

VE
CAS NO. VE
7.0000

CONTROL METHOD: POLLUTION PREVENTION ACFM BAGHOUSE

BOILER, NATURAL GAS FIRED

PROCESS CODE 11.005
SCC CODE 10200601

NOX
CAS NO. 10102
0.0000

CONTROL METHOD: POL LOW NOX BURNERS WITH RECIRCULATION

BACT-PSD

CO
CAS NO. 630-08-0
9.3600

CONTROL METHOD: POL LOW NOX BURNERS WITH RECIRCULATION.

BACT-PSD
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)
RBLC ID No. WY-0028                                  DATE ENTERED/UPDATED: 02/17/1999

NOTES: NEW MINE WATER SODA ASH PROCESSING PLANT
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  772

COMPANY NAME/SITE LOCATION:  FMC WY CORPORATION-GREEN RIVER SODA ASH PLANT
SEC. 14, 15, 22, 23, TOWNSHIP 19N
GREEN RIVER, WY 82935-                            SWEETWATER COUNTY

PERMIT/FILE NO. CT-1045 DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QU
AGENCY CONTACT PERSON: LEE GRIBOVICZ

SCHEDULING INFORMATION: ESTIMATED/ACTUAL DATE

<table>
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<th>Process/Compliance Notes:</th>
<th>10000 ACFM HIGH PRESSURE DROP VENTURI SCRUBBER</th>
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<td>POLUTANT NAME</td>
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<tr>
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<tr>
<td></td>
<td>COMPLIANCE METHOD (Y/N):</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>PM</td>
</tr>
<tr>
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<td>LIME STORAGE SILO</td>
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<td>500.0000 T (205000 CU FT)</td>
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</table>
FLUID BED SODA ASH

PROCESS/COMPLIANCE NOTES:

57686 ACFM CYCLONE PRECLEANER AND A HIGH PRESSURE DROP VENTURI

PROCESS/COMPLIANCE NOTES:

MATL. HANDLING, CONVEOR & TRANSFER

PROCESS/COMPLIANCE NOTES:

MONO LOADOUT AREA 12000 ACFM BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM.
<table>
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<th>Source</th>
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<th>O &amp; M Costs ($)</th>
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**Process/Compliance Notes:**
- **Boiler, Natural Gas Fired**
  - 234,000 MMBTU/H
  - Compliance was verified.
  - Process heat in the mine water plant
  - Compliance Method (Y/N): Y
  - Stack Test: Y
  - Inspection: N
  - Calculation: N
  - Other Method:

**Notes:**
- Costs are in dollars.
- Costs are not verified by agency.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: GENERAL CHEM SODA ASH PARTNERS - GEN CHEM SODA
SEC 29-33, T19N, R109W & SEC 4
GREEN RIVER, WY 82935-

PERMIT/FILE NO. MD-340

AIRS ID NO. 56-037-00002

PROCESS CODE 90.017
SCC CODE 30102110
PROCESS CODE 90.017
SCC CODE 30102110
PROCESS CODE 90.017
SCC CODE 30102111

1. CALCINER, TRONA, 5 EACH
   THROUGHPUT
   CAPACITY
   POLLUTANT NAME
   RANKING INFORMATION
   VOC
   CAS NO. VOC
   0.0000
   0.0000
   CONTROL METHOD: NO
  
2. CALCINER, TRONA, 2 EACH
   THROUGHPUT
   CAPACITY
   POLLUTANT NAME
   RANKING INFORMATION
   VOC
   CAS NO. VOC
   0.0000
   0.0000
   CONTROL METHOD: NO
   
3. DRYER, TRONA, 6 EACH
   THROUGHPUT
   CAPACITY
   POLLUTANT NAME
   RANKING INFORMATION
   VOC
   CAS NO. VOC
   0.0000
   0.0000
   CONTROL METHOD: NO
DRYER, TRONA, 6 EACH

51.80 T/H WET CRYSTAL F/R

PROCESS CODE 90.017
SCC CODE 30102111

VOC 0.0000
CAS NO. VOC 0.0000

CONTROL METHOD: NO CONTROLS FEASIBLE

NOTES: EVALUATE IMPACT OF VOC EMISSIONS DUE TO PROCESS DEBOTTLENECKING ACTIVITIES COMPLETED IN EARLY 1990'S UNDER PERMITS MD-129/MD-129A. AT TIME OF PERMIT ISSUANCE (MD-129/MD-129A) VOCs WERE NOT FULLY BEING EVALUATED AS AIR QUALITY POLLUTANTS, NOR WAS IT COMMON KNOWLEDGE THAT VOCs REPRESENTED A MAJOR SOURCE FROM TRONA PATCH OPERATIONS. ADDRESS VOC EMISSIONS THAT WERE NOT PREVIOUSLY MENTIONED.
COMPANY NAME/SITE LOCATION: GENERAL CHEM SODA ASH PARTNERS - GEN CHEM SODA
SEC 29-33, T19N, R109W & SEC 4
GREEN RIVER, WY 82935- SWEET WATER COUNTY

PERMIT/FILE NO. MD-340

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUA
AGENCY CONTACT PERSON: LEE GRIBOVICZ

SCHEDULING INFORMATION:

RECEIVED APPLICATION 06/23/1997 ACT
PERMIT ISSUED 11/21/1997 ACT
START UP / / ACT
COMPLIANCE VERIFICATION / / ACT

PROCESS NAME POLLUTANT NAME CAPACITY

CALCINER, TRONA, 5 EACH 65.0000 T/H TRONA 1 FEED RAT COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:
GRI & II CALCINERS

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N

OTHER METHOD:

VOC CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/T): 0
CALCINER, TRONA, 2 EACH

PROCESS/COMPLIANCE NOTES:

145.0000 T/H TRONA 1 FEED RAT

COMPLIANCE WAS NOT VERIFIED.

GR-III CALCINERS

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N CALCULATION: N OTHER TEST: N

VOC

CAPITAL COSTS: $0
O & M COSTS: $0 COSTS ARE IN
ANNUALIZED COSTS: $0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

DRYER, TRONA, 6 EACH

PROCESS/COMPLIANCE NOTES:

43.4000 T/H WET CRYSTAL F/R

COMPLIANCE WAS NOT VERIFIED.

GRI & II DRYERS

COMPLIANCE METHOD (Y/N):
STACK TEST: N INSPECTION: N CALCULATION: N OTHER METHOD:

VOC

CAPITAL COSTS: $0
O & M COSTS: $0 COSTS ARE IN
ANNUALIZED COSTS: $0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

DRYER, TRONA, 6 EACH

PROCESS/COMPLIANCE NOTES:

51.8000 T/H WET CRYSTAL F/R

COMPLIANCE WAS NOT VERIFIED.

GR-III DRYERS
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)
RBLC ID No. WY-0031

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: QUESTAR PIPELINE CORP. - RK SPRINGS COMPRESSOR COM
SEC 24, TOWNSHIP 18N, R 106W
ROCK SPRINGS, WY
SWEETWATER COUNTY

PERMIT/FILE NO. MD-333

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
LEE GRIBOVICZ
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO. 56-037-00025

EMISSION LIMITS (PRIMARY)

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

TURBINE COMPRESSOR ENGINE, NATURAL GAS FIRED, 2EA 1001.00 HP

PROCESS CODE 15.004
SCC CODE 20200201

NOX 2.8000 G/B-HP- H BACT-PSD
CONTROL METHOD: NO

CO 3.5000 G/B-HP- H BACT-PSD
CONTROL METHOD: NO

NOTES: REPLACE 2 EXISTING COMPRESSOR ENGINES WITH 2 NEW TURBINE ENGINES.
**COMPANY NAME/SITE LOCATION:** QUESTAR PIPELINE CORP. - RK SPRINGS COMPRESSOR COM<br>SEC 24, TWP 18N, R 106W<br>ROCK SPRINGS, WY SWEETWATER COUNTY

**PERMIT/FILE NO.** MD-333

**DETERMINATION MADE BY:** WYOMING AIR QUAL DIV, DEPT OF ENV QUAL<br>**AGENCY CONTACT PERSON:** LEE GRIBOVICZ<br>**PHONE #** (307) 332-6755

**SCHEDULING INFORMATION:**

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<td>Compliance Verification</td>
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**PROCESS NAME**

TURBINE COMPRESSOR ENGINE, NATURAL GAS FIRED, 2EA

**CAPACITY**

1001.0000 HP

**COMPLIANCE WAS VERIFIED.**

**PROCESS/COMPLIANCE NOTES:**

SOLAR CENTAUR MODEL T-1300

**NOX**

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<tr>
<td>Cost Effectiveness ($/ton)</td>
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COMPANY NAME/SITE LOCATION: WESTERN GAS RESOURCES, INC. HILIGHT GAS PLANT
464 HILIGHT RD
GILLETTE, WY 82718-
CAMPBELL COUNTY

PERMIT/FILE NO. CT-1294

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
RICH SCHRADER
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

AIRS ID NO. 56-005-00049

EMISSION LIMITS (P:

THROUGHPUT
CAPACITY
POLLUTANT NAME
RANKING INFORMATION

COMPRESSOR ENGINES, NATURAL GAS FIRED, E ACH 1500.00 HP

PROCESS CODE 15.004
SCC CODE 20200202

NOX 2.0000 G/B-
CAS NO. 10102
CONTROL METHOD: ADD
CATALYTIC CONVERTER
1/1 CONTROL OPTION

CO 3.0000 G/B-
CAS NO. 630-08-0
CONTROL METHOD: ADD
CATALYTIC CONVERTER
1/1 CONTROL OPTION

NOTES: CONSTRUCT 2 ADDITIONAL COMPRESSOR ENGINES, ONLY ONE ENGINE TO OPERATE.
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part B)  RBLC ID No. WY-0033

COMPANY NAME/SITE LOCATION:  WESTERN GAS RESOURCES, INC. HILIGHT GAS PLANT
464 HILIGHT RD
GILLETTE, WY 82718-
CAMPBELL COUNTY

PERMIT/FILE NO. CT-1294  DETERMINATION MADE BY:  WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
AGENCY CONTACT PERSON:  RICH SCHRADER  PHONE # (307) 672-6457

SCHEDULING INFORMATION:  ESTIMATED/ACTUAL DATE

<table>
<thead>
<tr>
<th>RECEIVED APPLICATION</th>
<th>12/23/1996</th>
<th>ACT</th>
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<tbody>
<tr>
<td>PERMIT ISSUED</td>
<td>03/31/1997</td>
<td>ACT</td>
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<tr>
<td>START UP</td>
<td>12/08/1997</td>
<td>ACT</td>
</tr>
<tr>
<td>COMPLIANCE VERIFICATION</td>
<td>05/04/1998</td>
<td>EST</td>
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THROUGHPUT

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPRESSOR ENGINES, NATURAL GAS FIRED, E ACH</td>
<td>1500.0000 HP</td>
<td></td>
</tr>
</tbody>
</table>

PROCESS/COMPLIANCE NOTES:  WAUKESHA 7042GSI ENGINES

COMPLIANCE WAS NOT VERIFIED

NOX

| CAPITAL COSTS: | $0 |
| O & M COSTS:   | $0 |
| ANNUALIZED COSTS: | $0 |
| COST EFFECTIVENESS ($/TON): | 0 |

COSTS ARE IN DOLLARS.

COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. WY-0033

CO

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999  
COMPANY NAME/SITE LOCATION: SOLVAY SODA ASH JOINT VENTURE TRONA MINE/SODA ASH
SEC 31, RG 109W, TOWNSHIP 18N
GREEN RIVER, WY 82934-
SWEETWATER COUNTY  
PERMIT/FILE NO. CT-1347  
DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
LEE GRIBOVICZ  
AIRS ID NO. 56-037-0005  

### EMISSION LIMITS (P: STANDARDIZED)

<table>
<thead>
<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTION PREVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCINER, NATURAL GAS FIRED TRONA</td>
<td>275.00 T/H TRONA ORE FEED</td>
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<table>
<thead>
<tr>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>PM</td>
<td>0.0150 GR/D.</td>
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<tr>
<td>NOX</td>
<td>0.0500 LB/MMBTU</td>
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</tr>
<tr>
<td>VOC</td>
<td>533.5000 LB/H</td>
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</tr>
</tbody>
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<table>
<thead>
<tr>
<th>POLLUTION PREVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTROL METHOD: ADD ELECTROSTATIC PRECIP</td>
</tr>
</tbody>
</table>
| 1/1 CONTROL OPTI:
| NOX CAS NO. 10102
| 0.0500 LB/MM
| 0.0000
| CONTROL METHOD: POLL BURNER DESIGNED FOR
| 3/1 CONTROL OPTI:
| VOC CAS NO. VOC
| 533.5000 LB/H
| 0.0000
| CONTROL METHOD: NO
SODA ASH NATURAL GAS, DRYER
PROCESS CODE 90.017
SCC CODE 30102106
198.00 T/H WET CRYSTAL FEED

PM
CAS NO. PM
0.0100 GR/SCF
0.0000
CONTROL METHOD: ADD ELECTROSTATIC PRECIP
1/ 1 CONTROL OPTI:

NOX
CAS NO. 10102
0.1500 LB/MMBTU
0.0000
CONTROL METHOD: POL BURNER DESIGNED FOR AMERICAN FLAME GRID
3/ 1 CONTROL OPTI:

CONTROL METHOD: ADD-ON CONTROL EQUIPMENT
BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

BOILER, NATURAL GAS
PROCESS CODE 11.005
SCC CODE 10200601
100.00 MMBTU/H

PM
CAS NO. PM
5.0000 LB/MMBTU
5.0000 LB/MMBTU
CONTROL METHOD: NO CONTROLS FEASIBLE
MINIMAL PARTICULATE EMISSIONS AND LOW EMITTING FUEL
1/ 1 CONTROL OPTI:

NOX
CAS NO. 10102
0.0380 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION "LOW NOX" BURNER SYS
3/ 1 CONTROL OPTI:

PRIMARY SCREENS, TRONA ORE
PROCESS CODE 90.017
SCC CODE 30102103
0.00

PM
CAS NO. PM
0.0100 GR/DSCF
0.0000
CONTROL METHOD: ADD BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM
1/ 1 CONTROL OPTI:
CONVEYOR DISCHARGE, RECLAIM TRONA ORE

PROCESS CODE 90.017
SCC CODE 30102124

VE
CAS NO. VE
7.0000 % OP.
0.0000
CONTROL METHOD: NO

PM
CAS NO. PM
0.0100 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE
CAS NO. VE
7.0000 % OP.
0.0000
CONTROL METHOD: NO

PRODUCT HANDLING AREA, SODA ASH DRYER PRODUCT

PROCESS CODE 90.017
SCC CODE 30102122

PM
CAS NO. PM
0.0100 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE & INDUSTRIAL VENTILATION SYSTEM
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE
CAS NO. VE
7.0000 % OP.
0.0000
CONTROL METHOD: NO

DIN VENTS & PRODUCT TRANSFER POINTS, (2) SODA ASH

PROCESS CODE 90.017
SCC CODE 30102122

PM
CAS NO. PM
0.0100 GR/D.
0.0000
CONTROL METHOD: ADD
BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
NOTES: NEW TRONA PROCESSING AND SODA ASH PRODUCTION TRAIN ("D" TRAIN), WILL EXPAND
EXISTING FACILITY FROM 2.4 MMTPY TO 3.60 MMTPY SODA ASH PRODUCTION CAPACITY.
REPORT DATE: 06/24/1999  
DETAILED SOURCE LISTING (Part B)  
RBLC ID No. WY-0034  

COMPANY NAME/SITE LOCATION:  SOLVAY SODA ASH JOINT VENTURE TRONA MINE/SODA ASH  
SEC 31, RG 109W, TOWNSHIP 1BWN  
GREEN RIVER, WY 82934-  
SWEETWATER COUNTY  

PERMIT/FILE NO. CT-1347  
DETERMINATION MADE BY:  WYOMING AIR QUAL DIV, DEPT OF ENV QA  
AGENCY CONTACT PERSON:  LEE GRIBOVICZ  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 06/05/1997 ACT  
PERMIT ISSUED 02/06/1998 ACT  
START UP 06/01/1999 EST  
COMPLIANCE VERIFICATION 09/01/1999 EST  

THROUGHPUT  
PROCESS NAME  
CALCINER, NATURAL GAS FIRED TRONA  
POLLUTANT NAME  
PM  
CAPACITY  
275.0000 T/H TRONA ORE FEED  
COMPLIANCE WAS NOT VERIFIED  
COMPLIANCE METHOD (Y/N):  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:  

PM  
CAPITAL COSTS: 0  
O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COST EFFECTIVENESS ($/TON): 0  

NOX  
CAPITAL COSTS: 0  
O & M COSTS: 0  
ANNUALIZED COSTS: 0  
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

SODA ASH NATURAL GAS, DRYER
198.0000 T/H WET CRYSTAL FEED

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

BOILER, NATURAL GAS
100.0000 MMBTU/H

PROCESS/COMPLIANCE NOTES:
HEATING MINE VENTILATION AIR

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
NOX

COST EFFECTIVENESS ($/T): 0

PROCESS/COMPLIANCE NOTES:

PRIMARY SCREENS, TRONA ORE

36,000 ACFM BAGHOUSE & INDUSTRIAL VENTILATION SYSTEM

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

PROCESS/COMPLIANCE NOTES:

CONVEYOR DISCHARGE, RECLAIM TRONA ORE

FEED FOR HAMMERMILLS IN MAIN CRUSHER BUILDING. 12,250 ACFM BAG
INDUSTRIAL VENTILATION SYSTEM.

PROCESS/COMPLIANCE NOTES:
<table>
<thead>
<tr>
<th>PRODUCT HANDLING AREA, SODA ASH DRYER PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROCESS/COMPLIANCE NOTES:</td>
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<tr>
<td>MAIN PROCESS PLANT AREA. 10,000 ACFM BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM</td>
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<tr>
<td>COMPLIANCE METHOD (Y/N):</td>
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<td>INSPECTION: N</td>
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<tr>
<td>OTHER METHOD:</td>
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<tr>
<td>PM</td>
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<tr>
<td>CAPITAL COSTS: $ 0</td>
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<td>O &amp; M COSTS: $ 0</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON): 0</td>
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<td>CAPITAL COSTS: $ 0</td>
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<td>O &amp; M COSTS: $ 0</td>
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<td>COST EFFECTIVENESS ($/TON): 0</td>
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<tr>
<td>DIN VENTS &amp; PRODUCT TRANSFER POINTS, (2) SODA ASH</td>
</tr>
<tr>
<td>PROCESS/COMPLIANCE NOTES:</td>
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<td>7500 ACFM BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM</td>
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<td>COMPLIANCE WAS NOT VERIFIED:</td>
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<td>COMPLIANCE METHOD (Y/N):</td>
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<td>OTHER TEST: N</td>
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**PM**

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<tr>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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**VE**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>0</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
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</tr>
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</table>
COMPANY NAME/SITE LOCATION: TEXASGULF SODA ASH PLANT  
SEC 36, TOWNSHIP 20N, RG IIIW  
GRANGER, WY  
SWEETWATER COUNTY

PERMIT/FILE NO. CT-1321

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL  
LEE GRIBOVICZ  
(AGENCY CONTACT PERSON)  
(307) 332-6755

AIRS ID NO. 56-037-00010

EMISSION LIMITS (P: STANDARDIZED)

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>POLLUTION PREVENTION</th>
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<tbody>
<tr>
<td>ROTARY DRYER, SODA ASH</td>
<td></td>
</tr>
<tr>
<td>PROCESS CODE 90.017</td>
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<tr>
<td>SCC CODE 30102106</td>
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<th>RANKING INFORMATION</th>
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<tbody>
<tr>
<td>PM</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>CONTROL METHOD: ADD ELECTROSTATIC PRECIP</td>
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<td>CAS NO. PM</td>
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<td>1/ 1 CONTROL OPTI:</td>
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<tr>
<td>VE</td>
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<tr>
<td>CAS NO. VE</td>
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<td></td>
<td>NOX</td>
</tr>
<tr>
<td>CAS NO. 10102</td>
<td></td>
<td>0.1500 LB/MMBTU</td>
<td>CONTROL METHOD: POL LOW NOX BURNERS - NO</td>
</tr>
<tr>
<td>NOX</td>
<td>0.0000</td>
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<td>2/ 2 CONTROL OPTI:</td>
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<tr>
<td>CAS NO. 10102</td>
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SCREENING/SIZING AREA, SODA ASH

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<td>62.018</td>
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<td>0.0100 GR/D.</td>
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<td>30102127</td>
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CONTROL METHOD: ADD VENTURI SCRUBBER AND INDUSTRIAL VENTILATION SYSTEM

BOILER, NATURAL GAS

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<th>PROCESS CODE</th>
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<td>0.0500 LB/MMBTU</td>
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<td>10200601</td>
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CONTROL METHOD: POLLUTION PREVENTION
"LOW NOX" BURNERS WITH 16% FLUE GAS RECIRCULATION

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<tbody>
<tr>
<td>7446-0905</td>
<td>0.0000 NEGL</td>
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</table>

CONTROL METHOD: NO CONTROLS FEASIBLE
NATURAL GAS FUEL

NOTES: NEW PROCESSING PLANT TO PROCESS MINE WATER FROM UNDERGROUND MINE AT EXISTING FACILITY. INCREASE SODA ASH PRODUCTION FROM 1.3 MMTPY TO 2.1 MMTPY
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: TEXASGULF SODA ASH PLANT
                       SEC 36, TOWNSHIP 20N, RANGE 11W
                       GRANGER, WY  SWEETWATER COUNTY

PERMIT/FILE NO. CT-1321

SCHEDULING INFORMATION:

THROUGHPUT

PROCESS NAME  POLLUTANT NAME  CAPACITY

ROTARY DRYER, SODA ASH  122.0000 T/H WET CRYSTAL FEED

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N): N
STACK TEST: N  INSPECTION: N  CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0

VE

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
SCREENING/SIZING AREA, SODA ASH

PROCESS/COMPLIANCE NOTES:

50,000 ACFM INDUSTRIAL VENTILATION SYSTEM AND VENTURI SCRUBBER

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

BOILER, NATURAL GAS

PROCESS/COMPLIANCE NOTES:

FOSTER-WHEELER MODEL SD TO BE USED TO MEET HEATING LOADS IN THE PLANT.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
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<table>
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</table>
COMPANY NAME/SITE LOCATION: OCI, WYOMING L.P.-OCI SODA ASH PLANT  
SEC 14-15, TOWNSHIP 20N, RG 109  
GREEN RIVER, WY 82934-  
SWEETWATER COUNTY

PERMIT/FILE NO. CT-1299

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL  
LEE GRIBOVICZ  
(AGENCY CONTACT PERSON)

AIRS ID NO. 56-037-00001

EMISSION LIMITS (P: STANDARDIZED)

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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>CALCINER TRONA ORE, NATURAL GAS FIRED</td>
<td>213.00 T/H ORE FEED RATE</td>
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<td>30102104</td>
<td>0.0170 GR/D.</td>
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CONTROL METHOD: ADD ELECTROSTATIC PRECIP 1/1 CONTROL OPTI:

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<tbody>
<tr>
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CONTROL METHOD: POLLUTION PREVENTION  
"LOW NOX" BURNER DES 1/1 CONTROL OPTI:

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<tr>
<td>VE</td>
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CONTROL METHOD: NO
REPORT DATE: 06/24/1999

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DETAILED SOURCE LISTING (Part A)
RBLC ID No. WY-0036

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<tr>
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ROTARY DRYER, SODA ASH, NATURAL GAS FIRED

144.00 T/H WET CRYSTAL FEED

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<tr>
<th>PM</th>
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<td>CONTROL METHOD:</td>
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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CAS NO.</td>
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<tr>
<td>CONTROL METHOD:</td>
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<table>
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<tr>
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<tr>
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<table>
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COOLER/CLASSIFIER

0.00

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<tr>
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<tr>
<td>CONTROL METHOD:</td>
<td>ADD BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEM</td>
</tr>
</tbody>
</table>

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
REPORT DATE: 06/24/1999  DETAILED SOURCE LISTING (Part A)  RBLC ID No. WY-0036

MATL. HANDLING & PROCESSING DRY ORE & SODA ASH  0.00

PROCESS CODE 90.017
SCC CODE 30102122

PM  0.0100 GR/D.
CAS NO. PM  0.0000
CONTROL METHOD:  ADD BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEMS
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
VE  7.0000 % OP.
CAS NO. VE  0.0000
CONTROL METHOD:  NO

STORAGE SILOS, CARBON AND FILTER AID, (2 EA)  0.00

PROCESS CODE 90.017
SCC CODE 30510299

PM  0.0200 GR/D.
CAS NO. PM  0.0000
CONTROL METHOD:  ADD CARTIDGE STYLE BIN V.
1/ 1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
VE  7.0000 % OP.
CAS NO. VE  0.0000
CONTROL METHOD:  NO

NOTES: CONSTRUCT A NEW TRONA PROCESSING AND SODA ASH PRODUCTION TRAIN (UNIT #6). THIS NEW TRAIN WILL EXPAND THE EXISTING FACILITY FROM 2.3 MMTPY TO 3.29 MMTPY SODA ASH PRODUCTION CAPACITY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: OCI, WYOMING L.P.-OCI SODA ASH PLANT
SEC 14-15, TOWNSHIP 20N, RG 109
GREEN RIVER, WY 82934- SWEETWATER COUNTY

PERMIT/FILE NO. CT-1299

SCHEDULING INFORMATION:

RECEIVED APPLICATION  12/11/1996 ACT
PERMIT ISSUED 05/27/1997 ACT
START UP 12/01/1998 EST
COMPLIANCE VERIFICATION 03/01/1998 EST

THROUGHPUT

PROCESS NAME  POLLUTANT NAME  CAPACITY

CALCINER TRONA ORE, NATURAL GAS FIRED  213.0000 T/H ORE FEED RATE

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N): STACK TEST: N INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE NOT
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE NOT
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

ROTARY DRYER, SODA ASH, NATURAL GAS FIRED 144.000 T/H WET CRYSTAL FEED COMPLIANCE WAS NOT VERIFIED.
PROCESS/COMPLIANCE NOTES:
UNIT 6ES-12

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
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<tr>
<th>Process/Compliance Notes</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
<th>Method</th>
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<tbody>
<tr>
<td>COOLER/CLASSIFIER</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>N</td>
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<td>PM</td>
<td>$0</td>
<td>$0</td>
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<td>N</td>
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<tr>
<td>PM</td>
<td>$0</td>
<td>$0</td>
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<td>$0</td>
<td>N</td>
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**Unit 6BH-13 140000 ACFM Baghouse & Industrial Ventilation System**

**Process/Compliance Notes:**

**COOLER/CLASSIFIER**

**Process/Compliance Notes:**

**PM**

**Process/Compliance Notes:**

**PM**

**Process/Compliance Notes:**

**PM**
STORAGE SILOS, CARBON AND FILTER AID, (2 EA)

PROCESS/COMPLIANCE NOTES:

DC-71 (CARBON SILO VENT) 1500 ACFM, DC-72 (FILTER AID SILO DIN ACFM BAGHOUSE AND INDUSTRIAL VENTILATION SYSTEMS

COST EFFECTIVENESS ($/TON): 0.0000

COMPLIANCE WAS NOT VERIFIED.
### Processes Subject to This Permit

<table>
<thead>
<tr>
<th>Description</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Emission Limit</th>
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<tbody>
<tr>
<td><strong>Matl. Handling, Ore, Run-of-Mine-Trona Ore</strong></td>
<td>250.00 T/H</td>
<td>PM</td>
<td>0.0050 GR/D.</td>
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<tr>
<td>PROCESS CODE 90.017</td>
<td></td>
<td>CAS NO. PM</td>
<td>0.0000</td>
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<tr>
<td>SCC CODE 30102124</td>
<td></td>
<td>CONTROL METHOD:</td>
<td>ADD ELECTROSTATIC PRECIPITATOR</td>
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<tr>
<td></td>
<td></td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
<td>7.0000 % OP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS NO. VE</td>
<td>0.0000</td>
</tr>
<tr>
<td><strong>Matl. Storage, Ore, Run-of-Mine-Trona Ore 2EA</strong></td>
<td>250.00 T/H</td>
<td>PM</td>
<td>0.0050 GR/D.</td>
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<tr>
<td>PROCESS CODE 90.017</td>
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<td>CAS NO. PM</td>
<td>0.0000</td>
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<tr>
<td>SCC CODE 30510298</td>
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<td>CONTROL METHOD:</td>
<td>ADD ELECTROSTATIC PRECIPITATOR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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</tbody>
</table>
REPORT DATE: 06/24/1999

BENETRON ORE UPGRADE FACILITY 2 EA

**PROCESS CODE 90.017**
**SCC CODE 30102103**

**CAS NO. VE** 0.0000

**CONTROL METHOD:** NO CONTROLS FEASIBLE

**VE** 7.0000 % OP.

**PM** 0.0000

**CAS NO.**

**CONTROL METHOD:** ADD ELECTROSTATIC PRECIP

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**VE** 7.0000 % OP.

**CAS NO.**

**CONTROL METHOD:** NO

**SODA ASH PRODUCT**

**PROCESS CODE 62.018**
**SCC CODE 30102122**

**CAS NO.**

**CONTROL METHOD:** NO CONTROLS FEASIBLE

**VE** 7.0000 % OP.

**PM** 0.0000

**CAS NO.**

**CONTROL METHOD:** ADD ELECTROSTATIC PRECIP

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**VE** 7.0000 % OP.

**CAS NO.**

**CONTROL METHOD:** NO

**CALCINER & CALCINER BOILER, COMMON STACK 2 EA.**

**PROCESS CODE 90.017**
**SCC CODE 30102110**

**CAS NO.**

**CONTROL METHOD:** ADD WET SCRUBBER (VENTURI ON CALCINER)

1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

**PM** 0.0000
<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
<th>CAS No.</th>
<th>Control Method</th>
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</thead>
<tbody>
<tr>
<td>VE</td>
<td>20.0000 %</td>
<td>0.0000</td>
<td>NO</td>
</tr>
<tr>
<td>NOX</td>
<td>0.0480 LB/MMBTU</td>
<td>0.0000</td>
<td>POLLUTION PREVENTION</td>
</tr>
<tr>
<td>MONOWALL FURNACE CONSTRUCTION LOW NOX BURNERS WITH FUEL STAGING, 15% EX (FGRS 15%) ON CALCINER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>15.1200 LB/H</td>
<td>630-08-0</td>
<td>NO</td>
</tr>
</tbody>
</table>

**Notes:** UNDERGROUND TRONA MINE AND ASSOCIATED PROCESSING PLANT. TO PRODUCE 2.5 MMTP OF SODA ASH. CONSTRUCTED IN 2 PHASES.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  810

COMPANY NAME/SITE LOCATION:  WOLD TRONA CO.
SEC 14, TWPISH 16N, RG 109W
GREEN RIVER, WY                                   SWEETWATER COUNTY

PERMIT/FILE NO. CT-1148                                 DETERMINATION MADE BY:   WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
AGENCY CONTACT PERSON:   LEE GRIBOVICZ                       PHONE # (307) 332-6755

SCHEDULING INFORMATION:                                                      ESTIMATED/ACTUAL DATE

RECEIVED APPLICATION     04/29/1994  ACT
PERMIT ISSUED            05/02/1995  ACT
START UP                 11/01/2000  EST
COMPLIANCE VERIFICATION  02/01/2000  EST

THROUGHPUT

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<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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</thead>
<tbody>
<tr>
<td>MATL. HANDLING, ORE, RUN-OF-MINE-TRONA ORE</td>
<td>250.0000 T/H</td>
<td>COMPLIANCE WAS NOT VERIFIED</td>
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**COMPLIANCE METHOD (Y/N):**
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N

**PM**

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<tr>
<th>CAPITAL COSTS: $</th>
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<tbody>
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<td>O &amp; M COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
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</table>

**VE**

<table>
<thead>
<tr>
<th>CAPITAL COSTS: $</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O &amp; M COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
</tr>
<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
</tr>
</tbody>
</table>
MATL. STORAGE, ORE, RUN-OF-MINE-TRONA ORE 2 EA

MATERIAL STORAGE, ORE, RUN-OF-MINE-TRONA ORE 2 EA

250.000 T/H

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VE

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

BENETRON ORE UPGRADE FACILITY 2 EA

BENETRON ORE UPGRADE FACILITY 2 EA

250.000 T/H

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:
CONSISTS OF ORE CRUSHER AND 3 SUCCESSIVE STAGES OF THE BENETRON TRONA/ROCK SEPARATION EACH EQUIPPED WITH AN ESP.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
SODA ASH PRODUCT

PROCESS/COMPLIANCE NOTES:

CALCINER & CALCINER BOILER, COMMON STACK 2 EA.

PROCESS/COMPLIANCE NOTES:

150.0000 T/H  COMPLIANCE WAS NOT VERIFIED

SODA ASH STORAGE SILO VENTS, BULK TRUCK LOADOUT AND MATERIAL HANDLING CONVEYOR TRANSFER POINTS

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATED
OTHER METHOD:

0.0000  COMPLIANCE WAS NOT VERIFIED

2 FLUID BED TRONA ORE CALCINERS 213.15 TPH PROCESS FEED RATE EA. BOILERS NATURAL GAS FIRED 378 MMBTU/HR

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N  CALCULATED
OTHER METHOD:
PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: TWO ELK GENERATION PARTNERS, LIMITED PARTNERSHIP  
SECTION 25, TOWNSHIP 43N RANG 70N  
15 MILES SE OF WRIGHT, WY  
CAMPBELL COUNTY

PERMIT/FILE NO. CT-1352  
Determination Made by: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL  
(AGENCY)  
RICH SCHRADER  
(AGENCY CONTACT PERSON)  
(307) 672-6457  

AIRS ID NO.

EMISSION LIMITS (P: (S)

<table>
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<tr>
<th>PROCESSES SUBJECT TO THIS PERMIT</th>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>POLLUTION PREVENTION/CONTROL EQUIPMENT</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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</thead>
<tbody>
<tr>
<td>BOILER, STEAM ELECTRIC POWER GENERATING</td>
<td>250.00 MW</td>
<td>PM</td>
<td>0.0200 LB/MMBTU</td>
<td>BAGHOUSE</td>
<td>2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td>PROCESS CODE 11.002</td>
<td>SCC CODE 101002</td>
<td>CAS NO. PM</td>
<td>0.0200 LB/MMBTU</td>
<td>CONTROL METHOD: ADD CONTROL EQUIPMENT</td>
<td>BACT-PSD</td>
<td>99.500</td>
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<tr>
<td>SO2</td>
<td>CAS NO. 7446-09-5</td>
<td>0.2000 LB/MMBTU</td>
<td>91.000</td>
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<td>CONTROL METHOD: ADD LIME SPRAY DRY SCRUBBER</td>
<td>3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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<tr>
<td>NOX</td>
<td>CAS NO. 10102</td>
<td>0.1500 LB/MMBTU</td>
<td>75.000</td>
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<tr>
<td>CONTROL METHOD: BOTH P2 &amp; ADD-ON CONTROL EQUIPMENT</td>
<td>LOW NOX BURNERS WITH OVER FIRE AIR AND SELECTIVE CATALYTIC REDUCTION</td>
<td>1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED</td>
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</tbody>
</table>
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part A)

RBLC ID No. WY-0039

CO 0.1500 LB/MMBTU
CAS NO. 630-08-0
CONTROL METHOD: NO

VOC 0.0150 LB/MMBTU
CAS NO. VOC
CONTROL METHOD: NO

VE 20.0000 % OPACITY
CAS NO. VE
CONTROL METHOD: NO

TURBINE, STATIONARY 33.30 MW

PROCESS CODE 15.004
SCC CODE 20100201

NOX 25.0000 PPM
CAS NO. 10102
CONTROL METHOD: ADD
DRY LOW NOX BURNERS
4/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO 25.0000 PPM
CAS NO. 630-08-0
CONTROL METHOD: NO

DUMP POCKET, COAL 3000.00 SCFM

PROCESS CODE 90.011
SCC CODE 30510403

PM 0.0100 GR/D.
CAS NO. PM
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE 20.0000 % OP.
CAS NO. VE
CONTROL METHOD: NO
REPORT DATE: 06/24/1999

RBLC ID No. WY-0039

SILO, COAL

PROCESS CODE 90.011
SCC CODE 305102203

PM
CAS NO. PM
0.0100 GR/D.

CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTION

VE
CAS NO. VE
20.0000 % OP.

SILO, BOILER, PLANT COAL

PROCESS CODE 90.011
SCC CODE 30510203

PM
CAS NO. PM
0.0100 GR/D.

CONTROL METHOD: ADD
8500 SCFM BAGHOUSE
1/1 CONTROL OPTION

VE
CAS NO. VE
20.0000 % OP.

CRUSHER, CONE, SECONDARY COAL

PROCESS CODE 90.011
SCC CODE 30501017

PM
CAS NO. PM
0.0100 GR/D.

CONTROL METHOD: ADD
6000 SCFM BAGHOUSE
1/1 CONTROL OPTION

VE
CAS NO. VE
20.0000 % OP.

CONTROL METHOD: NO
SILO, LIME

3000.00 SCFM

PROCESS CODE 90.019

SCC CODE 30510205

PM
CAS NO. PM
0.0100 GR/D.
0.0100 GR/D.

CONTROL METHOD: ADD
3000 SCFM BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE
CAS NO. VE
20.0000 % OP.
20.0000 % OP.

SILO, FLY ASH

4000.00 SCFM

PROCESS CODE 90.999

SCC CODE 30510299

PM
CAS NO. PM
0.0100 GR/D.
0.0100 GR/D.

CONTROL METHOD: ADD
4000 SCFM BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE
CAS NO. VE
20.0000 % OP.
20.0000 % OP.

HANDLING BUILDING, FLY ASH

5000.00 SCFM

PROCESS CODE 90.999

SCC CODE 30510199

PM
CAS NO. PM
0.0100 GR/D.
0.0100 GR/D.

CONTROL METHOD: ADD
5000 SCFM BAGHOUSE
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE
CAS NO. VE
20.0000 % OP.
20.0000 % OP.

CONTROL METHOD: NO
MATERIAL HANDLING, DESULFURIZATION BYPRODUCTS 0.00

PROCESS CODE 90.999
SCC CODE A2650000004
VE CAS NO. VE
20.0000 % OP. 20.0000 % OP.
CONTROL METHOD: BOTH P2 & ADD-ON CONTROL EQUIPMENT
TELESCOPING DISCHARGE CHUTE AND RECIRCULATION FAN
AT SILO. ENCLOSED HAUL TRUCK. TREATED HAUL ROADS.
WETTING WASTE BEFORE DISPOSAL.

MATERIAL HANDLING, DUMPING COAL AT DUMP POCKET 0.00

PROCESS CODE 90.011
SCC CODE 30510403
VE CAS NO. VE
20.0000 % OP. 20.0000 % OP.
CONTROL METHOD: POLLUTION PREVENTION
STILLING SHED ON DUMP POCKETS.
WETTING WASTE BEFORE DISPOSAL.

NOTES:
**REPORT DATE:** 06/24/1999

**COMPANY NAME/SITE LOCATION:** TWO ELK GENERATION PARTNERS, LIMITED PARTNERSHIP
SECTION 25, TOWNSHIP 43N RANG 70N
15 MILES SE OF WRIGHT, WY
CAMPBELL COUNTY

**PERMIT/FILE NO. CT-1352**

**DETERMINATION MADE BY:** WYOMING AIR QUAL DIV, DEPT OF ENV QA

**AGENCY CONTACT PERSON:** RICH SCHRADER

**PHONE # (307) 672-6457**

**SCHEDULING INFORMATION:**

<table>
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<th>ESTIMATED/ACTION DATE</th>
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<tbody>
<tr>
<td>RECEIVED APPLICATION</td>
</tr>
<tr>
<td>10/31/1996 ACT</td>
</tr>
<tr>
<td>PERMIT ISSUED</td>
</tr>
<tr>
<td>02/27/1998 ACT</td>
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<tr>
<td>START UP</td>
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<tr>
<td>11/01/1999 EST</td>
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<td>02/01/1999 EST</td>
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**THROUGHPUT**

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<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
<th>COMPLIANCE WAS NOT VERIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILER, STEAM ELECTRIC POWER GENERATING</td>
<td>250.0000 MW</td>
<td></td>
<td></td>
</tr>
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**COMPLIANCE METHOD (Y/N):**

- STACK TEST: N
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N

**PM**

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**SO2**

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<td>ANNUALIZED COSTS:</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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REPORT DATE: 06/24/1999

DETAILS SOURCE LISTING (Part B)

RBLC ID No. WY-0039

NOX
CAPITAL COSTS: $15,660,000
O & M COSTS: $0
ANNUALIZED COSTS: $5,509,000
COST EFFECTIVENESS ($/TON): 2,352

CO
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

TURBINE, STATIONARY
33.3000 MW

PROCESS/COMPLIANCE NOTES:

GENERAL ELECTRIC MODEL LM5000

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

NOX
CAPITAL COSTS: $1,409,000
O & M COSTS: $0
ANNUALIZED COSTS: $331,000
COST EFFECTIVENESS ($/TON): 2,853
CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

DUMP POCKET, COAL

3000.0000 SCFM

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES: 3000 SCFM BAGHOUSE

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

VE

CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN DOLLARS.
ANNUALIZED COSTS: $ 0  COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON): 0

SILO, COAL

6000.0000 SCFM

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES: 6000 SCFM BAGHOUSE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N  CALCULATION: N
OTHER METHOD:
REPORT DATE: 06/24/1999

CRUSHER, CONE, SECONDARY COAL

PROCESS/COMPLIANCE NOTES:

6000.0000 SCFM

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

6000 SCFM BAGHOUSE

SILO, BOILER, PLANT COAL

PROCESS/COMPLIANCE NOTES:

8500.0000 SCFM

COMPLIANCE WAS NOT VERIFIED.

8500 SCFM BAGHOUSE
REPORT DATE: 06/24/1999

RBLC ID No. WY-0039

Detailed Source Listing (Part B)

SILO, LIME

3000.0000 SCFM

PROCESS/COMPLIANCE NOTES:

PM

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<tr>
<th>CAPITAL COSTS: $</th>
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<tbody>
<tr>
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<td>ANNUALIZED COSTS: $</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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VE

<table>
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</thead>
<tbody>
<tr>
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<td>0</td>
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<tr>
<td>ANNUALIZED COSTS: $</td>
<td>0</td>
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<tr>
<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
</tr>
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COST EFFECTIVENESS ($/TON): 0

COMPLIANCE METHOD (Y/N): N

STACK TEST: N

INSPECTION: N

CALCULATION: N

OTHER METHOD:

COSTS ARE IN DOLLARS.

ANNUALIZED COSTS: 0

COSTS ARE NOT VERIFIED BY AGENCY.

COST EFFECTIVENESS ($/TON): 0

COMPLIANCE WAS NOT VERIFIED.

3000 SCFM BAGHOUSE
SILO, FLY ASH

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS NOT VERIFIED.

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

HANDLING BUILDING, FLY ASH

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS NOT VERIFIED.

STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
MATERIAL HANDLING, DESULFURIZATION BYPRODUCTS

PROCESS/COMPLIANCE NOTES:

VE

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0.0000

MATERIAL HANDLING, DUMPING COAL AT DUMP POCKET

PROCESS/COMPLIANCE NOTES:

VE

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0.0000

COMPLIANCE WAS NOT VERIFIED.

TRANSPORT OF WASTES TO DISPOSAL AREA.UNLOADING OF WASTES AT DI.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

VE

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0.0000

MATERIAL HANDLING, DUMPING COAL AT DUMP POCKET

PROCESS/COMPLIANCE NOTES:

VE

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0.0000

COMPLIANCE WAS NOT VERIFIED.

DUMPING COAL AND WASTE COAL AT THE DUMP POCKET,

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  826

COMPANY NAME/SITE LOCATION: CHEVRON USA - PAINTER CENTRAL STATION
SECTION 6, TOWNSHIP 15N RANG 119W
8 MILES NE OF EVANSTON, WY 82931-                          UINTA COUNTY

PERMIT/FILE NO. CT-1031                                                                                     DATE OF PERMIT ISSUANCE-- 04/19/1993 ACT

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
(AGENCY)                                      (AGENCY CONTACT PERSON)                      (PHONE)
LEE GRIBOVICZ                                (307) 332-6755

AIRS ID NO. 56-041-00004

ECONOMICAL SOURCES LISTING (Part A)

EMISSION LIMITS (P:
(STANDARDIZED)

PROCESS CODE 15.004                                                  NOX              1.5000 G/B-HP-H                  BACT-PSD
SCC CODE 20200202                                                  CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
"CLEAN BURN" TECHNOLOGY

CO                                                  1.6000 G/B-HP-H                  BACT-PSD
CAS NO. 630-08-0
CONTROL METHOD: POLLUTION PREVENTION
"CLEAN BURN" TECHNOLOGY

VOC                                                  0.6000 G/B-HP-H                    0.000
CAS NO. VOC
CONTROL METHOD: POLLUTION PREVENTION
"CLEAN BURN" TECHNOLOGY

NOTES: TWO NEW "CLEAN BURN" RECIPROCATING NATURAL GAS FIRED COMPRESSOR ENGINES.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)
RBLC ID No. WY-0040                                DAT:

COMPANY NAME/SITE LOCATION: CHEVRON USA - PAINTER CENTRAL STATION
SECTION 6, TOWNSHIP 15N RANGE 119W
8 MILES NE OF EVANSTON, WY 82931-
INTA COUNTY

PERMIT/FILE NO. CT-1031                                DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUA
DETERMINATION MADE BY: LEE GRIBOVICZ
PERMIT/FILE NO. CT-1031                                AGENCY CONTACT PERSON: LEE GRIBOVICZ
DETERMINATION MADE BY: LEE GRIBOVICZ
SCHEDULING INFORMATION:
RECEIVED APPLICATION: 12/11/1992 ACT
PERMIT ISSUED: 04/19/1993 ACT
START UP: 07/15/1993 ACT
COMPLIANCE VERIFICATION: 10/15/1993 ACT

THROUGHPUT

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<th>CAPACITY</th>
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<td>ENGINES, COMPRESSOR, 2 EACH</td>
<td>NOX</td>
<td>2650.0000 BHP, EACH</td>
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<td>CAPITAL COSTS:</td>
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<td>O &amp; M COSTS:</td>
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<td>ANNUALIZED COSTS:</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
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<td>COST EFFECTIVENESS ($/TON):</td>
<td>0</td>
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COMPLIANCE WAS VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCU
OTHER METHOD:

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
VOC

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: LOUISIANA LAND AND EXPLORATION COMPANY-LOST CABIN
SECTION 11, TOWNSHIP 38 NORTH
LOST CABIN, WY 82642-

PERMIT/FILE NO. CT - 939
DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
(AGENCY)
DAN FAUTH - DISTRICT 4 ENGINEE
(AGENCY CONTACT PERSON)
(ADDRESS)

AIRS ID NO. 56-013-00028

EMISSION LIMITS (P: STANDARDIZED)

THROUGHPUT          POLLUTION PREVENTION/CONTROL EQUIPMENT    BASIS
PROCESSES SUBJECT TO THIS PERMIT          CAPACITY           POLLUTANT NAME          RANKING INFORMATION                     EST % EFF

INCINERATOR, TAIL GAS, 2 EACH            19250.00 SCFH
PROCESS CODE 50.006
SCC CODE 30609900

SO2                             79.8000 LB/H                      BACT-PSD
CAS NO. 7446-09-5
CONTROL METHOD: ADD - STAGE CLAUS PLANT

CO                             44.0000 LB/H                      OTHER
CAS NO. 630-08-0
CONTROL METHOD: NO

NOX                             2.7000 LB/H                      OTHER
CAS NO. 10102
CONTROL METHOD: NO

H2S                             0.6000 LB/H                      OTHER
CAS NO. 7783-06-4
CONTROL METHOD: NO

FREMONT COUNTY
BOILER, AUXILIARY, NATURAL GAS FIRED, 2 EACH

PROCESS CODE 11.005
SCC CODE 10200602

VENT, CO2 PRODUCT, 2 EACH

PROCESS CODE 50.006
SCC CODE 30699998

NOX
CAS NO. 10102
0.0000 LB/H
CONTROL METHOD: NO

H2S
CAS NO. 7783-06-4
0.0000
CONTROL METHOD: NO

COS (CARBONYLSULFID)
CAS NO. 463581
0.0000
CONTROL METHOD: NO
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  831

COMPANY NAME/SITE LOCATION:  LOUISIANA LAND AND EXPLORATION COMPANY-LOST CABIN
SECTION 11, TOWNSHIP 38 NORTH
LOST CABIN, WY 82642-                            FREMONT COUNTY

PERMIT/FILE NO. CT - 939 DETERMINATION MADE BY:  WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
AGENCY CONTACT PERSON:   DAN FAUTH - DISTRICT 4 ENGINEER

SCHEDULING INFORMATION:                                                      ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION     03/26/1991  ACT
PERMIT ISSUED            08/12/1991  ACT
START UP                 03/01/1995  EST
COMPLIANCE VERIFICATION  09/01/1995  EST

PROCESS NAME                  POLLUTANT NAME             CAPACITY
INCINERATOR, TAIL GAS, 2 EACH 19250.0000 SCFH                   COMPLIANCE WAS VERIFIED.
PROCESS/COMPLIANCE NOTES:                          ONE INCINERATOR PER PHASE.

SO2 CAPITAL COSTS: $            0
O & M COSTS: $            0
ANNUALIZED COSTS: $            0
COST EFFECTIVENESS ($/TON): 50

CO  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0

NOX  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0

H2S  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0

BOILER, AUXILIARY, NATURAL GAS FIRED, 2 EACH  
2820.0000 SCFH  
PROCESS/COMPLIANCE NOTES: ONE BOILER PER PHASE.

NOX  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0

VENT, CO2 PRODUCT, 2 EACH  
11678.0000 ACFM  
PROCESS/COMPLIANCE NOTES: ONE VENT PER PHASE.
<table>
<thead>
<tr>
<th>Substance</th>
<th>Remote Sensing</th>
<th>Inspection</th>
<th>Calculation</th>
<th>Other Test</th>
<th>Other Method</th>
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<tbody>
<tr>
<td>H₂S</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
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<tr>
<td>CO (CARBONYLSULFID)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
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</table>

**Costs Summary**

- **H₂S**
  - **Capital Costs**: $0
  - **O & M Costs**: $0
  - **Annualized Costs**: $0
  - **Cost Effectiveness ($/Ton)**: 0

- **CO (CARBONYLSULFID)**
  - **Capital Costs**: $0
  - **O & M Costs**: $0
  - **Annualized Costs**: $0
  - **Cost Effectiveness ($/Ton)**: 0

**Note**: All costs are in dollars and have not been verified by the agency.
COMPANY NAME/SITE LOCATION: LOUISIANA LAND AND EXPLORATION COMPANY-LOST CABIN  
SECTION 11, RANGE 90 W, TOWNSH  
4 MILES E-NE OF LYSITE, WY 82642-  
FREMONT COUNTY

PERMIT/FILE NO. MD-343

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL 
DAN FAUTH - DISTRICT 4 ENGINEE 
(AGENCY) 
(AGENCY CONTACT PERSON) 
(PHONE) 

AIRS ID NO. 56-013-00028

<table>
<thead>
<tr>
<th>THROUGHPUT</th>
<th>CAPACITY</th>
<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
<th>EST % EFF</th>
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<tbody>
<tr>
<td>INCINERATOR, TAIL GAS</td>
<td>17000.00 SCFM</td>
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<td>PROCESS CODE 50.006</td>
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<td>SO2</td>
<td>115.0000 LB/H</td>
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<td>SCC CODE 30609900</td>
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<td>CAS NO. 7446-09-5</td>
<td>CONTROL METHOD: ADD 3 STAGE CLAUS PLANT . 1/ 1 CONTROL OPTI</td>
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<td>5.0000 LB/H</td>
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<td>PRIMARY CONCERN AT F. IONS.</td>
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<td>CAS NO. 10102</td>
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<td>CO</td>
<td>100.0000 LB/H</td>
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<td>CAS NO. 630-08-0</td>
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</table>
REPORT DATE: 06/24/1999

BOILER, AUXILIARY, NATURAL GAS

PROCESS CODE 11.005
SCC CODE 10200602

VENT, CO2 PRODUCT

PROCESS CODE 50.006
SCC CODE 30699998

NOTES: DEBOTTLENECK PROCESS TRAIN START UP MARCH, 1995. THIS WILL ALLOW PLANT TO PROCESS 66.5 MMSCFD OF GAS CONTAINING 12.2% H2S.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: LOUISIANA LAND AND EXPLORATION COMPANY-LOST CABIN
SECTION 11, RANGE 90 W, TOWNSH 4 MILES E-NE OF LYSITE, WY 82642-
FREMONT COUNTY
PERMIT/FILE NO. MD-343

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA
AGENCY CONTACT PERSON: DAN FAUTH - DISTRICT 4 ENGINEE

SCHEDULING INFORMATION:

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<td>START UP                01/26/1999 EST</td>
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<td>COMPLIANCE VERIFICATION 04/26/1999 EST</td>
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<th>CAPACITY</th>
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<tbody>
<tr>
<td>INCINERATOR, TAIL GAS</td>
<td>17000.0000 SCFM</td>
<td>COMPLIANCE WAS NOT VERIFIED</td>
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PROCESS/COMPLIANCE NOTES:

SHELL CLAUS OFFGAS TREATING (SCOT) TAIL GAS INCINERATOR FOLLOW CLAUS PLANT.

SO2

<table>
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<th>Capital Costs: $</th>
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<td>Annualized Costs: $</td>
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<td>Cost Effectiveness ($/ton):</td>
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REPORT DATE: 06/24/1999  
RBLD ID No. WY-0042  

NOX
CAPITAL COSTS: $  0  
O & M COSTS: $  0  
ANNUALIZED COSTS: $  0  
COST EFFECTIVENESS ($/TON):  0

CO
CAPITAL COSTS: $  0  
O & M COSTS: $  0  
ANNUALIZED COSTS: $  0  
COST EFFECTIVENESS ($/TON):  0

H2S
CAPITAL COSTS: $  0  
O & M COSTS: $  0  
ANNUALIZED COSTS: $  0  
COST EFFECTIVENESS ($/TON):  0

BOILER, AUXILIARY, NATURAL GAS
22.8900 MMBTU/H
PROCESS/COMPLIANCE NOTES:
CLEAVER-BROOKS BOILER TO PROVIDE PLANT START UP AND AUXILIARY.
COMPLIANCE METHOD (Y/N):
STACK TEST:  N  
INSPECTION:  N  
CALCULATION:  N  
OTHER TEST:  N
OTHER METHOD:

NOX
CAPITAL COSTS: $  0  
O & M COSTS: $  0  
ANNUALIZED COSTS: $  0  
COST EFFECTIVENESS ($/TON):  0

VENT, CO2 PRODUCT
8100.0000 SCFM
COMPLIANCE WAS NOT VERIFIED
COMPLIANCE METHOD (Y/N):
STACK TEST:  N  
INSPECTION:  N  
CALCULATION:  N  
OTHER METHOD:
REPORT DATE: 06/24/1999

H2S
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COS (CARBONYL SULFIDE)
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: SF PHOSPHATE LIMITED COMPANY  
SECTION 15, TOWNSHIP 18N, RANGE 4.5 MILES E-SE OF ROCK SPRINGS, WY 82902-

PERMIT/FILE NO. CT-1043

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL  
LEE GRIBOVICZ-DISTRICT 5 ENGIN (AGENCY)

AIRS ID NO. 56-037-00022

EMISSION LIMITS (P: STANDARDIZED)

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<th>PROCESSES SUBJECT TO THIS PERMIT</th>
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<th>POLLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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<tr>
<td>BOILER, NATURAL GAS FIRED</td>
<td>350.00 MMBTU/H</td>
<td></td>
<td>NOX</td>
<td>0.1400 LB/MMBTU@350MMBTU/H</td>
<td>BACT-PSD</td>
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<td>CAS NO. 10102</td>
<td>CONTROL METHOD: POL</td>
<td>LOW NOX BURNERS</td>
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<tr>
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<td>NOX</td>
<td>0.1400 LB/MMBTU@122.5MMBTU/H</td>
<td>BACT-PSD</td>
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<td>CAS NO. 10102</td>
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<td>LOW NOX BURNERS</td>
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<tr>
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<td></td>
<td>CO</td>
<td>250.9000 LB/H</td>
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<td>CAS NO. 630-08-0</td>
<td>CONTROL METHOD: NO</td>
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SWEETWATER COUNTY
REPORT DATE: 06/24/1999
DETAILED SOURCE LISTING (Part A)
RBLC ID No. WY-0043

VOC                              0.4500 LB/H
CAS NO. VOC                      0.0000

CONTROL METHOD: NO CONTROLS FEASIBLE

NOTES: NEW SUPPLEMENTAL PLANT STEAM BOILER
COMPANY NAME/SITE LOCATION: SF PHOSPHATE LIMITED COMPANY
SECTION 15, TOWNSHIP 18N, RANGE 4.5 MILES E-SE OF ROCK SPRINGS, WY 82902-
SWEETWATER COUNTY

PERMIT/FILE NO. CT-1043

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
AGENCY CONTACT PERSON: LEE GRIBOVICZ-DISTRICT 5 ENGIN P.

SCHEDULING INFORMATION:

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THROUGHPUT

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<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>BOILER, NATURAL GAS FIRED</td>
<td></td>
<td>350.0000 MMBTU/H</td>
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PROCESS/COMPLIANCE NOTES:
SUPPLEMENTAL PLANT STEAM DURING PERIODS WHEN THE WASTE HEAT BO SULFURIC ACID PLANT IS NOT AVAILABLE. MANUFACTURED BY ZURN

COMPLIANCE METHOD (Y/N): STACK TEST: Y INSPECTION: N CALCULATION: N OTHER METHOD:

NOX
Capital Costs: $ 0
O & M Costs: $ 0 Costs are in DOLLARS.
Annualized Costs: $ 0 Costs are not verified by agency.
Cost Effectiveness ($/TON): 0
NOX
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

CO
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0

VOC
CAPITAL COSTS: $  0
O & M COSTS: $  0
ANNUALIZED COSTS: $  0
COST EFFECTIVENESS ($/TON):  0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY
5 SAND CREEK ROAD
LARAMIE, WY 82070-

PERMIT/FILE NO. CT-1137

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
CHAD SCHLICHTMEIER-DISTRICT 1
(AGENCY)
(AGENCY CONTACT PERSON)
(PHONE)

AIRS ID NO. 56-001-00002

PROCESSES SUBJECT TO THIS PERMIT
KILN, COAL FIRED

| THROUGHPUT | PM | 13.5900 LB/H |
| CAPACITY | CAS NO. | 0.3000 LB/T |
| PM | CAS NO. | CONTROL METHOD: ADD ELECTROSTATIC PRECIP |
| SO2 | CAS NO. 7446-09-5 | 406.0000 LB/H |
| NOX | CAS NO. 10102 | 208.8000 LB/H |

CONTROL METHOD: POLLUTION PREVENTION
COMBUSTION UNIT DESIGN (WELL DESIGNED PROCESS BURNER OPERATED IN DESIGN RANGE)
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED
**REPORT DATE: 06/24/1999**

**RBLG ID No. WY-0044**

**DATE ENTERED/UPDATED: 05/12/1999**

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<td>3.2000 LB/H</td>
<td>630-08-0</td>
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<td>VOC</td>
<td>7.3000 LB/H</td>
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<td>POLLUTION PREVENTION</td>
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<tr>
<td>VE</td>
<td>20.0000 % OP.</td>
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<td>NO CONTROLS FEASIBLE</td>
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**CONVEYOR, CLINKER**

PROCESS CODE 90.028
SCC CODE 30500616

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<td>0.0100 GR/ACF</td>
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**DUST RETURN ELEVATOR SYSTEM**

PROCESS CODE 90.028
SCC CODE 30500699

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REPORT DATE: 06/24/1999                                      DETAILED SOURCE LISTING (Part A)
RBLC ID No. WY-0044                                      DATE:

MILL, FINISH

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<tr>
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<td>VE</td>
<td>CAS NO. VE</td>
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COOLER, CLINKER

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TANKS, KILN FEED

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</table>

NOTES: MODIFY AND REACTIVATE #1 KILN, CLINKER COOLER AND ASSOCIATED EQUIPMENT
COMPANY NAME/SITE LOCATION: MOUNTAIN CEMENT COMPANY—LARAMIE FACILITY
5 SAND CREEK ROAD
LARAMIE, WY 82070—
ALBANY COUNTY

PERMIT/FILE NO. CT-1137

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA
AGENCY CONTACT PERSON: CHAD SCHLICHTMEIER—DISTRICT 1

SCHEDULING INFORMATION:
- RECEIVED APPLICATION: 05/16/1994 ACT
- PERMIT ISSUED: 03/06/1995 ACT
- START UP: 01/31/1996 ACT
- COMPLIANCE VERIFICATION: 04/24/1996 ACT

THROUGHPUT
- PROCESS NAME: KILN, COAL FIRED
- CAPACITY: 45.3000 T/H COAL

PROCESS/COMPLIANCE NOTES:
- KILN #1 FORMERLY WET PROCESS KILN MODIFIED TO A LONG DRY PROCESS KILN. 29 T/H CLINKER PRODUCTION. SPECIFIED COAL INPUT IS 7.3 T/H.

COMPLIANCE METHOD (Y/N):
- STACK TEST: Y
- INSPECTION: N

OTHER METHOD:
- PM CAPITAL COSTS: $ 0
- O & M COSTS: $ 0
- ANNUALIZED COSTS: $ 0

COST EFFECTIVENESS ($/TON): 0
**CONVEYOR, CLINKER**

PROCESS/COMPLIANCE NOTES: CONVEYOR FROM KILN #1 8000 ACFM BAGHOUSE

COMPLIANCE WAS NOT VERIFIED.

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<tr>
<th>Pollutant</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
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<tr>
<td>SO2</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>NOX</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>CO</td>
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<td>$0</td>
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<tr>
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<tr>
<td>VE</td>
<td>$0</td>
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<td>$0</td>
<td>$0</td>
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DUST RETURN ELEVATOR SYSTEM

PROCESS/COMPLIANCE NOTES:

ASSOCIATED WITH KILN #1 2000 ACFM BAGHOUSE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

MILL, FINISH

PROCESS/COMPLIANCE NOTES:

FINISH MILL "C" EXISTING GRINDING MILL USED IN OLD WET PROCESS WHICH WILL BE CONVERTED TO PROCESS CLINKER. 2000 ACFM BAGHOUSE
COOLER, CLINKER

PROCESS/COMPLIANCE NOTES:

ASSOCIATED WITH KILN #1 WILL VENT THROUGH EXISTING CLINKER COOL HOUSE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VE

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

COOLER, CLINKER

29.0000 T/H

COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:

ASSOCIATED WITH KILN #1 WILL VENT THROUGH EXISTING CLINKER COOL HOUSE

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VE

CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
**TANKS, KILN FEED**

**PROCESS/COMPLIANCE NOTES:**

**ASSOCIATED WITH KILN #1 7000 ACFM BAGHOUSE**

**COMPLIANCE WAS NOT VERIFIED.**

**STACK TEST:** N

**INSPECTION:** N

**CALCULATION:** N

<table>
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<tr>
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<tbody>
<tr>
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<tr>
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</table>
COMPANY NAME/SITE LOCATION: BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON U  
13151 HIGHWAY 51  
5 MILES EAST OF GILLETTE, WY 22716-  
CAMPBELL CO

PERMIT/FILE NO. CT-1028

DATE OF PERMIT ISSUANCE-- 04/14/1993 ACT

START-UP DATE-- 08/01/1995 EST

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL  
RICH SCHRADER-DISTRICT 3 ENGIN  
AGENCY

(AGENCY CONTACT PERSON)

(PHONE)

AIRS ID NO. 56-005-00063

EMISSION LIMITS (P: S) THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

PROCESSES SUBJECT TO THIS PERMIT

BOILER, PULVERIZED COAL FIRED STEAM ELECTRIC POWER  80.00 MW

PROCESS CODE 11.002  
SCC CODE 101002

PM  0.0200 LB/MMBTU  BACT-PSD

CAS NO. PM

CONTROL METHOD: ADD EROSTATIC PRECIP

2/ 2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO  0.1500 LB/MMBTU  BACT-PSD

CAS NO. 630-08-0

CONTROL METHOD: POL COMBUSTION CONTROL

4/ 4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC  0.0150 LB/MMBTU  BACT-PSD

CAS NO. VOC

CONTROL METHOD: POL COMBUSTION CONTROL

4/ 4 CONTROL OPTIONS EXAMINED/OPTION SELECTED
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<tr>
<td>SO₂</td>
<td>0.2000</td>
<td>7446-09-5</td>
<td>ADD CIRCULATING DRY SCRUBBER</td>
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<td>NOₓ</td>
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<td>10102</td>
<td>POLLUTION PREVENTION COMBUSTION CONTROL</td>
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**BOILER, AUXILIARY, DISTILLATE OIL**

PROCESS CODE 11.006
SCC CODE 10100501

30.76 MMBTU/H
REPORT DATE: 06/24/1999

RBLC ID No. WY-0046

CO
CAS NO. 630-08-0
CONTROL METHOD: NO

VOC
CAS NO. VOC
CONTROL METHOD: NO

VE
CAS NO. VE
CONTROL METHOD: NO

SILO, COAL STORAGE, TOP

PROCESS CODE 90.011
SCC CODE 30510203

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE

VE
CAS NO. VE
CONTROL METHOD: NO

SILO, COAL STORAGE, BOTTOM

PROCESS CODE 90.011
SCC CODE 30510203

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE

VE
CAS NO. VE
CONTROL METHOD: NO
REPORT DATE: 06/24/1999

BOILER BUILDING

PROCESS CODE 90.011
SCC CODE 30599999

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE
VE
CAS NO. VE
CONTROL METHOD: NO

FLY ASH TRANSFER/HANDLING BUILDING

PROCESS CODE 90.999
SCC CODE 30510199

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE
VE
CAS NO. VE
CONTROL METHOD: NO

SILO, LIME STORAGE

PROCESS CODE 90.019
SCC CODE 30510205

PM
CAS NO. PM
CONTROL METHOD: ADD BAGHOUSE
VE
CAS NO. VE
CONTROL METHOD: NO
**REPORT DATE**: 06/24/1999  
**RBLC ID No.**: WY-0046  
**DATE ENTERED/UPDATED**: 04/13/1999

**MATERIAL HANDLING, FLY ASH AND FGD BYPRODUCT**: 0.00

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**CONTROL METHOD**: POLLUTION PREVENTION

TELESCOPING DISCHARGE CHUTE AND RECIRCULATION FAN AT SILO. ENCLOSED HAUL TRUCK. TREATED HAUL ROADS.

**WETTING WASTE BEFORE DISPOSAL.**
REPORT DATE: 06/24/1999                                   DETAILED SOURCE LISTING (Part B)                                                   PAGE H-  856

COMPANY NAME/SITE LOCATION: BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON U
13151 HIGHWAY 51
5 MILES EAST OF GILLETTE, WY 22716-                        CAMPBELL COUNTY

PERMIT/FILE NO. CT-1028                                DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA
AGENCY CONTACT PERSON: RICH SCHRADER-DISTRICT 3 ENGIN P.

SCHEDULING INFORMATION:                                             ESTIMATED/ACTUAL DATE
RECEIVED APPLICATION   08/06/1992  ACT
PERMIT ISSUED          04/14/1993  ACT
START UP               08/01/1995  EST
COMPLIANCE VERIFICATION 09/01/1995  EST

PROCESS NAME            POLLUTANT NAME     CAPACITY
BOILER, PULVERIZED COAL FIRED STEAM ELECTRIC POWER    80.0000 MW

THROUGHPUT

PM

COST EFFECTIVENESS ($/TON): 224

CO

COST EFFECTIVENESS ($/TON): 26
### VOC

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### SO2

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### SO2

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#### PROCESS/COMPLIANCE NOTES:

**BOILER, AUXILIARY, DISTILLATE OIL**

- **30.7600 MMBTU/H**
- Compliance was not verified.

**STEAM SUPPLY WHEN PULVERIZED COAL BOILER IS OUT OF SERVICE**

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<td>Inspection:</td>
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<td>Calculation:</td>
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<td>Other Method:</td>
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**PM**
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

**SO2**
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

**NOX**
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

**CO**
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

**VOC**
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

**VE**
- **Capital Costs:** $0
- **O & M Costs:** $0
- **Annualized Costs:** $0
- **Cost Effectiveness ($/Ton):** $0

**SILO, COAL STORAGE, TOP**

0.0000

**Compliance was verified.**

**Process/Compliance Notes:**

5475 ACFM Baghouse
REPORT DATE: 06/24/1999

DETAILS SOURCE LISTING (Part B)

RBLC ID No. WY-0046

PM

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VE

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

SILO, COAL STORAGE, BOTTOM

PROCESS/COMPLIANCE NOTES:
3750 ACFM BAGHOUSE

COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: Y
OTHER METHOD:

CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

COMPLIANCE WAS NOT VERIFIED.
REPORT DATE: 06/24/1999

BOILER BUILDING

PROCESS/COMPLIANCE NOTES: 11250 ACFM BAGHOUSE

COMPLIANCE WAS VERIFIED.
COMPLIANCE METHOD (Y/N):
STACK TEST: Y
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0

FLY ASH TRANSFER/HANDLING BUILDING

PROCESS/COMPLIANCE NOTES: 3925 ACFM BAGHOUSE

COMPLIANCE WAS NOT VERIFIED.
COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM
CAPITAL COSTS: $0
O & M COSTS: $0
ANNUALIZED COSTS: $0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

RBLC ID No. WY-0046

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

SILO, LIME STORAGE

COSTS ARE NOT VERIFIED BY AGENCY.

PROCESS/COMPLIANCE NOTES:
500 ACFM BAGHOUSE

COMPLIANCE WAS NOT VERIFIED.

STACK TEST: N
INSPECTION: N  CALCULATION: N
OTHER TEST: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0  COSTS ARE IN
ANNUALIZED COSTS: $ 0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

MATERIAL HANDLING, FLY ASH AND FGD BYPRODUCT

COSTS ARE NOT VERIFIED BY AGENCY.

PROCESS/COMPLIANCE NOTES:
UNLOADING DRY WASTE FROM SILO AND SUBSEQUENT LOADING INTO ENCLOSED TRUCK.
TRANSPORT OF WASTES TO DISPOSAL AREA. UNLOADING OF WASTES AT DISPOSAL SITE.

COMPLIANCE WAS NOT VERIFIED.

STACK TEST: N
INSPECTION: N  CALCULATION: N
OTHER TEST: N
OTHER METHOD:
VE

CAPITAL COSTS: $  0
O & M COSTS: $  0  COSTS ARE IN
ANNUALIZED COSTS: $  0  COSTS ARE NOT
COST EFFECTIVENESS ($/TON):  0
<table>
<thead>
<tr>
<th>Processes Subject to This Permit</th>
<th>Throughput</th>
<th>Capacity</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
<th>Emission Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler, Pulverized Coal Fired Power Generation Unit</td>
<td>240.00 MW</td>
<td>NOX</td>
<td>0.1500 LB/MMBTU</td>
<td>BACT-PSD</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CO</td>
<td>0.1500 LB/MMBTU</td>
<td></td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC</td>
<td>0.0500 LB/MMBTU</td>
<td></td>
<td>0.0000</td>
</tr>
<tr>
<td>Source Type</td>
<td>Description</td>
<td>Emissions</td>
<td>Method</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>-----------</td>
<td>--------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>LIQUIDS FROM COAL PLANT (3 MODULES PER PLANT)</td>
<td>1200.00 MMBTU/H</td>
<td>NOX 0.1700 LB/MMBTU</td>
<td>POLLUTION PREVENTION</td>
<td>LOW NOX BURNERS WITH FLUE GAS RECIRCULATION</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CO 0.1500 LB/MMBTU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC 0.0500 LB/MMBTU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO2 240.0000 LB/H</td>
<td>ADD-ON CONTROL EQUIPMENT</td>
<td>LIME SPRAY DRYER</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM 24.0000 LB/H</td>
<td>ADD-ON CONTROL EQUIPMENT</td>
<td>BAGHOUSE</td>
<td></td>
</tr>
<tr>
<td>BOILER, COAL FIRED, MAIN STACK</td>
<td>3960.00 MMBTU/H</td>
<td>SO2 0.2000 LB/MMBTU</td>
<td>ADD-ON CONTROL EQUIPMENT</td>
<td>LIME SPRAY DRYER</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM 0.0000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PM  
CAS NO. PM  
0.0200 LB/MMBTU  
0.0000  
CONTROL METHOD: ADD  
BAGHOUSE  
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOX  
CAS NO. 10102  
0.1600 LB/MMBTU  
0.0000  
CONTROL METHOD: POLLUTION PREVENTION  
LOW NOX BURNERS WITH

CO  
CAS NO. 630-08-0  
0.1500 LB/MMBTU  
0.0000  
CONTROL METHOD: NO

VOC  
CAS NO. VOC  
0.0500 LB/MMBTU  
0.0000  
CONTROL METHOD: NO

VE  
CAS NO. VE  
20.0000 %OPACITY  
0.0000  
CONTROL METHOD: NO

DRYER SURGE BIN  
0.00

PROCESS CODE 90.010  
SCC CODE 39000200

PM  
CAS NO. PM  
0.0100 GR/D.
0.0000  
CONTROL METHOD: ADD  
SRUBBER 20000 DSCFM  
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE  
CAS NO. VE  
20.0000 % OP.  
0.0000  
CONTROL METHOD: NO
COOLER, PROCESS DERIVED FUEL 0.00

PROCESS CODE 90.010
SCC CODE 39000200

PM 0.0100 GR/D.
CAS NO. PM 0.0000
CONTROL METHOD: ADD
SCRUBBER 20000 DSCFM
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VE 20.0000 % OP.
CAS NO. VE 0.0000
CONTROL METHOD: NO

EXHAUST, PLANT VAPOR FROM LIQUIDS FROM COAL PROCES 0.00

PROCESS CODE 90.010
SCC CODE 39000200

VOC 19.0000 LB/H
CAS NO. VOC 0.0000
CONTROL METHOD: NO

VE 20.0000 % OP.
CAS NO. VE 0.0000
CONTROL METHOD: NO

EXHAUST, PROCESS WATER VAPOR, 3 EACH 0.00

PROCESS CODE 90.010
SCC CODE 39000200

VOC 6.9000 LB/H
CAS NO. VOC 0.0000
CONTROL METHOD: NO

VE 20.0000 % OP.
CAS NO. VE 0.0000
CONTROL METHOD: NO

SILO, COAL STORAGE 0.00

PROCESS CODE 90.010
SCC CODE 30510203

PM 0.0100 GR/D.
CAS NO. PM 0.0000
CONTROL METHOD: ADD
SCRUBBER, 10000 DSCFM
1/1 CONTROL OPTIONS EXAMINED/OPTION SELECTED
<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>SCC CODE</th>
<th>PM</th>
<th>CAS NO. PM</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.019</td>
<td>30510205</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>VE</td>
</tr>
<tr>
<td>90.010</td>
<td>39000200</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>VE</td>
</tr>
<tr>
<td>90.011</td>
<td>30510299</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>VE</td>
</tr>
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</table>

**SILO, LIME STORAGE**

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>SCC CODE</th>
<th>PM</th>
<th>CAS NO. PM</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.019</td>
<td>30510205</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>VE</td>
</tr>
</tbody>
</table>

**SCRUBBER, FINISHING, 3 EACH**

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>SCC CODE</th>
<th>PM</th>
<th>CAS NO. PM</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.010</td>
<td>39000200</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>VE</td>
</tr>
</tbody>
</table>

**STORAGE, PROCESS DERIVED FUEL**

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>SCC CODE</th>
<th>PM</th>
<th>CAS NO. PM</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.011</td>
<td>30510299</td>
<td>0.0100 GR/D.</td>
<td>0.0000</td>
<td>VE</td>
</tr>
</tbody>
</table>
REPORT DATE: 06/24/1999

RBLC ID No. WY-0047

VE
0.00
CAS NO. VE
20.0000 % OP.

BIN, ASH STORAGE

PROCESS CODE 90.999
SCC CODE 30510299

PM
0.0100 GR/D.
CAS NO. PM
0.0000

CONTROL METHOD: ADD
BAGHOUSE, 3500 DSCFM
1/1 CONTROL OPTI:

VE
0.00
CAS NO. VE
20.0000 % OP.

MATERIAL HANDLING, FLY ASH AND GAS DESULFURIZATION

PROCESS CODE 90.011
SCC CODE 30501000

VE
20.0000 % OP.
CAS NO. VE
0.0000

CONTROL METHOD: POLLUT
TELESCOPING DISCHARG
ENCLOSED HAUL TRUCKS
WASTE BEFORE DISPOSA

NOTES: LIQUIDS FROM COAL FACILITY AND ASSOCIATED 240 MW POWER GENERATION UNIT
COMPANY NAME/SITE LOCATION: ENCOAL CORPORATION-ENCOAL NORTH ROCHELLE FACILITY  
SECTION9, TOWNSHIP 42N, RANGE 15 MILES SOUTHEAST OF WRIGHT, WY  
CAMPBELL COUNTY

PERMIT/FILE NO. CT-1324  
DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA  
AGENCY CONTACT PERSON: RICH SCHRADER-DISTRICT 3 ENGIN  

SCHEDULING INFORMATION:  
RECEIVED APPLICATION 11/21/1996 ACT  
PERMIT ISSUED 10/10/1997 ACT  
START UP 01/01/1999 EST  
COMPLIANCE VERIFICATION 04/01/1999 EST

THROUGHPUT  
PROCESS NAME  
POLLUTANT NAME  
CAPACITY  
BOILER, PULVERIZED COAL FIRED POWER GENERATION UNI  
240.0000 MW  
COMPLIANCE WAS NOT VERIFIED.

NOX  
CAPITAL COSTS: $ 5,300,000  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 1,870,000  
COST EFFECTIVENESS ($/TON): 581

CO  
CAPITAL COSTS: $ 0  
O & M COSTS: $ 0  
ANNUALIZED COSTS: $ 0  
COST EFFECTIVENESS ($/TON): 0
**REPORT DATE:** 06/24/1999

**RBLC ID No. WY-0047**

**DATE ENTERED/UPDATED:** 06/16/1999

**LIQUIDS FROM COAL PLANT (3 MODULES PER PLANT) 1200.0000 MMBTU/H**

**PROCESS/COMPLIANCE NOTES:**

<table>
<thead>
<tr>
<th>Emission</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>$1,452,000</td>
<td>$0</td>
<td>$460,000</td>
<td>230</td>
</tr>
<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>SO2</td>
<td>$37,940,000</td>
<td>$0</td>
<td>$9,200,000</td>
<td>1,648</td>
</tr>
</tbody>
</table>

**COMPLIANCE WAS NOT VERIFIED.**

**TOTAL COAL PRODUCT FEED RATE 6MMTPY PRODUCES 3MMTPY PROCESS DERIVED FUEL AND 126 MMGAL/YR COAL DERIVED LIQUID.**

**COMPLIANCE METHOD (Y/N):**
- STACK TEST: N
- INSPECTION: N
- CALCULATION: N
- OTHER TEST: N
- OTHER METHOD: 

**COSTS ARE IN DOLLARS.**

**COSTS ARE NOT VERIFIED BY AGENCY.**
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Description</th>
<th>Process Code</th>
<th>Heat Input (MMBTU/H)</th>
<th>Compliance Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>Boiler, Coal Fired, Main Stack</td>
<td>3960.0000</td>
<td>COMPLIANCE WAS NOT VERIFIED.</td>
<td>EXHAUST GASES FROM LFC MODULES AND POWER GENERATING UNIT BOILER COMBINED INTO SINGLE GAS STREAM. TOTAL HEAT INPUT FOR ENTIRE F. 11.002 IS THE PROCESS CODE FOR LFC AND 90.010 IS FOR POWER GENERATING UNIT.</td>
</tr>
<tr>
<td>SO2</td>
<td>Capital Costs: $37,940,000</td>
<td>11.002</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>NOX</td>
<td>Capital Costs: $1,452,000</td>
<td>90.010</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>Capital Costs: $0</td>
<td></td>
<td>N</td>
<td></td>
</tr>
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COST EFFECTIVENESS ($/TON):

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>EFFECTIVENESS</th>
<th>CAPITAL COSTS:</th>
<th>O &amp; M COSTS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>$2,290,000</td>
<td>$14,470,000</td>
<td>$0</td>
</tr>
<tr>
<td>SO2</td>
<td>$9,200,000</td>
<td>$37,940,000</td>
<td>$0</td>
</tr>
<tr>
<td>NOX</td>
<td>$460,000</td>
<td>$1,452,000</td>
<td>$0</td>
</tr>
<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

COST ARE IN 1996 DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
DRYER SURGE BIN

PROCESS/COMPLIANCE NOTES: 20000 SCFM SCRUBBER

COMPLIANCE WAS NOT VERIFIED.

COOLER, PROCESS DERIVED FUEL

PROCESS/COMPLIANCE NOTES: 20000 SCFM SCRUBBER

COMPLIANCE WAS NOT VERIFIED.
EXHAUST, PLANT VAPOR FROM LIQUIDS FROM COAL PROCESSES

PROCESS/COMPLIANCE NOTES:

7511 SCFM

COMPLIANCE WAS NOT VERIFIED.
EXHAUST, PROCESS WATER VAPOR, 3 EACH

PROCESS/COMPLIANCE NOTES:

ASSOCIATED WITH LIQUIDS FROM COAL PROCESS 16104 SCFM EACH

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VE
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

SILO, COAL STORAGE

PROCESS/COMPLIANCE NOTES:

10000 SCFM SCRUBBER

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
SILO, LIME STORAGE

PROCESS/COMPLIANCE NOTES:
3500 SCFM BAGHOUSE

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

PM

PROCESS/COMPLIANCE NOTES:
30000 SCFM SCRUBBER (3 EACH)

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

RBLC ID No. WY-0047

) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) }
MATERIAL HANDLING, FLY ASH AND GAS DESULFURIZATION

PROCESS/COMPLIANCE NOTES:

UNLOADING DRY WASTE FROM SILO AND SUBSEQUENT LOADING INTO ENCLOSED TRUCKS. TRANSPORT OF WASTES TO DISPOSAL AREA. UNLOADING OF WASTES AT DISPOSAL SITE.

COMPLIANCE METHOD (Y/N): N
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N

PM

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

VE

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
COMPANY NAME/SITE LOCATION: WYGEN, INC. - WYGEN UNIT ONE
13151 HIGHWAY 51
5 MILES EAST OF GILLETTE, WY 82716–

PERMIT/FILE NO. CT-1236

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
RICH SCHRADER, DISTRICT 3 ENGI
(AGENCY)
(RICH SCHRADER, DISTRICT 3 ENGI)
(PHONE)

AIRS ID NO.

Emission Limits (P):

<table>
<thead>
<tr>
<th>Pollutant Name</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO2</td>
<td>0.2000 LB/MMBTU (2HR ROLLING BACT-PSD)</td>
<td>CAS NO. 7446-09-5</td>
<td>92.000</td>
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<tr>
<td>NOX</td>
<td>0.2200 LB/MMBTU (30DAY ROLLN BACT-PSD)</td>
<td>CAS NO. 10102</td>
<td>56.000</td>
</tr>
<tr>
<td>CO</td>
<td>0.1500 LB/MMBTU</td>
<td>CAS NO. 630-08-0</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

CONTROL METHOD: ADD CIRCULATING DRY SCRUBBER
3/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CONTROL METHOD: POLLUTION PREVENTION
4/4 CONTROL OPTIONS EXAMINED/OPTION SELECTED

DUE TO THE LNB/OFA STRATEGY TO CONTROL NOX IT WOULD BE COUNTER PRODUCTIVE TO LIMIT CO
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part A)                                                 PAGE H-  879
RBLC ID No. WY-0048                                        DATE ENTERED/UPDATED:  04/22/1999

VOC                              0.0150 LB/MMBTU                  OTHER
CAS NO. VOC                      0.0000                             0.000
CONTROL METHOD:  NO CONTROLS FEASIBLE
DUE TO THE LNB/OF A S' WOULD BE COUNTER PROI

PM                              0.0200 LB/MMBTU                  0.0200 LB/MMBTU
CAS NO. PM                       0.0200 LB/MMBTU                   99.000
CONTROL METHOD:  ADD
ELECTROSTATIC PRECIP
2/ 2 CONTROL OPTI:

VE                              20.0000 % OP.
CAS NO. VE                       0.0000                             0.000
CONTROL METHOD:  NO

BOILER BUILDING

PROCESS CODE 90.011
SCC CODE 30501000

PM                              0.0100 GR/D.
CAS NO. PM                       0.0100 GR/D.                   0.0000
CONTROL METHOD:  ADD
BAGHOUSE
1/ 1 CONTROL OPTI:

VE                              20.0000 % OP.
CAS NO. VE                       0.0000                             0.0000
CONTROL METHOD:  NO

FLY ASH HANDLING BUILDING

PROCESS CODE 90.011
SCC CODE 30510199

PM                              0.0100 GR/D.
CAS NO. PM                       0.0100 GR/D.                   0.0000
CONTROL METHOD:  ADD
BAGHOUSE
1/ 1 CONTROL OPTI:
REPORT DATE: 06/24/1999

DETAINED SOURCE LISTING (Part A)

RBLC ID No. WY-0048

VE
CAS NO. VE
CONTROL METHOD: NO

SILO, FLY ASH STORAGE

PROCESS CODE 90.999
SCC CODE 30510299

PM
CAS NO. PM
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTI:

VE
CAS NO. VE
CONTROL METHOD: NO

SILO, LIME STORAGE

PROCESS CODE 90.999
SCC CODE 30510299

PM
CAS NO. PM
CONTROL METHOD: ADD
BAGHOUSE
1/1 CONTROL OPTI:

VE
CAS NO. VE
CONTROL METHOD: NO

MATERIAL HANDLING, FLY ASH AND FLUE GAS DESULFURIZ

PROCESS CODE 90.011
SCC CODE 30510199

VE
CAS NO. VE
CONTROL METHOD: POL
TELESCOPING DISCHARG
AT SILO. ENCLOSED HA
WETTING WASTE BEFORE

NOTES:
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: WYGEN, INC. - WYGEN UNIT ONE
13151 HIGHWAY 51
5 MILES EAST OF GILLETTE, WY 82716 - CAMPBELL COUNTY

PERMIT/FILE NO. CT-1236

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA
AGENCY CONTACT PERSON: RICH SCHRADER, DISTRICT 3 ENGI

SCHEDULING INFORMATION:

<table>
<thead>
<tr>
<th>ESTIMATED/ACTION DATE</th>
<th>ACTUAL</th>
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<td>RECEIVED APPLICATION</td>
<td>02/15/1995</td>
</tr>
<tr>
<td>PERMIT ISSUED</td>
<td>09/06/1996</td>
</tr>
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<td>START UP</td>
<td>01/01/1998</td>
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<td>COMPLIANCE VERIFICATION</td>
<td>04/01/1998</td>
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THROUGHPUT

<table>
<thead>
<tr>
<th>PROCESS NAME</th>
<th>POLLUTANT NAME</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILER, PULVERIZED COAL FIRED, STEAM ELECTRIC POWER</td>
<td>1014 MMBTU/H HEAT INPUT, 66.71 T/H COAL FEED RATE.</td>
<td></td>
</tr>
<tr>
<td>PROCESS/COMPLIANCE NOTES:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SO2

<table>
<thead>
<tr>
<th>CAPITAL COSTS</th>
<th>O &amp; M COSTS</th>
<th>ANNUALIZED COSTS</th>
<th>COST EFFECTIVENESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$25,160,000</td>
<td>$0</td>
<td>$10,550,000</td>
<td>1,149</td>
</tr>
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COSTS ARE IN 1998 DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
<table>
<thead>
<tr>
<th>Compound</th>
<th>Capital Costs</th>
<th>O &amp; M Costs</th>
<th>Annualized Costs</th>
<th>Cost Effectiveness ($/Ton)</th>
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</thead>
<tbody>
<tr>
<td>NOx</td>
<td>$481,000</td>
<td>$0</td>
<td>$222,000</td>
<td>200</td>
</tr>
<tr>
<td>CO</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>PM</td>
<td>$15,170,000</td>
<td>$0</td>
<td>$3,630,000</td>
<td>238</td>
</tr>
<tr>
<td>VE</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
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</table>

**BOILER BUILDING**

Compliance was not verified.

**PROCESS/COMPLIANCE NOTES:**

7763 SCFM BAGHOUSE
<table>
<thead>
<tr>
<th>Source Type</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fly Ash Handling Building</td>
<td>0.0000</td>
<td></td>
<td></td>
<td></td>
<td>Compliance was not verified</td>
</tr>
<tr>
<td>Process/Compliance Notes:</td>
<td>2925 SCFM Baghouse</td>
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</table>

<table>
<thead>
<tr>
<th>Source Type</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo, Fly Ash Storage</td>
<td>0.0000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process/Compliance Notes:</td>
<td>1970 SCFM Baghouse</td>
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<table>
<thead>
<tr>
<th>Source Type</th>
<th>Capital Costs ($)</th>
<th>O &amp; M Costs ($)</th>
<th>Annualized Costs ($)</th>
<th>Cost Effectiveness ($/Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This document includes detailed source listing information for a Fly Ash Handling Building and a Silo, Fly Ash Storage. The compliance methods and notes are also provided.
COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

PM
CAPITAL COSTS:  $0
O & M COSTS:  $0
ANNUALIZED COSTS:  $0
COST EFFECTIVENESS ($/TON):  0

VE
CAPITAL COSTS:  $0
O & M COSTS:  $0
ANNUALIZED COSTS:  $0
COST EFFECTIVENESS ($/TON):  0

SILO, LIME STORAGE

0.0000
COMPLIANCE WAS NOT VERIFIED

PROCESS/COMPLIANCE NOTES:
1350 SCFM BAGHOUSE

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

PM
CAPITAL COSTS:  $0
O & M COSTS:  $0
ANNUALIZED COSTS:  $0
COST EFFECTIVENESS ($/TON):  0

VE
CAPITAL COSTS:  $0
O & M COSTS:  $0
ANNUALIZED COSTS:  $0
COST EFFECTIVENESS ($/TON):  0
MATERIAL HANDLING, FLY ASH AND FLUE GAS DESULFURIZATION

PROCESS/COMPLIANCE NOTES:

UNLOADING DRY WASTE FROM SILO AND SUBSEQUENT LOADING INTO ENCLOSED TRUCKS.
TRANSPORT OF WASTES TO DISPOSAL AREA. UNLOADING OF WASTES AT DISPOSAL SITE.

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

VE

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

COSTS ARE IN DOLLARS.
COSTS ARE NOT VERIFIED BY AGENCY.
COMPANY NAME/SITE LOCATION: WESTERN GAS RESOURCES - HILIGHT GAS PLANT
464 HILIGHT ROAD
GILLETTE, WY 82718-
CAMPBELL COUNTY

PERMIT/FILE NO. MD-378

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
RICH SCHRADER - DIST 3 ENGINER
(AGENCY)

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)

PROCESSES SUBJECT TO THIS PERMIT

ENGINE(S), COMPRESSOR, 2 EA

PROCESS CODE 15.004
SCC CODE 20200202

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF

ENGINES, COMPRESSOR, 2 EA 1650.00 HP

NOX 1.0000 G/HP-H 0.0000
CONTROL METHOD: ADD 3 - WAY CATALYST SYS LLER.
1/ 1 CONTROL OPTION

CO 2.0000 G/HP-H 0.0000
CONTROL METHOD: ADD 3 - WAY CATALYST SYS LLER.
1/ 1 CONTROL OPTION

VOC 1.0000 G/HP-H 0.0000
CONTROL METHOD: ADD 3 - WAY CATALYST SYS LLER
1/ 1 CONTROL OPTION
NOTES: CONSTRUCT 2 ADDITIONAL COMPRESSOR ENGINES. INCREASE OPERATING HOURS OF TWO COMPRESSOR ENGINES PERMITTED UNDER CT-1294 ON 03/31/97, TO ALLOW SIMULATION OPERATION.
COMPANY NAME/SITE LOCATION: WESTERN GAS RESOURCES - HILIGHT GAS PLANT
464 HILIGHT ROAD
GILLETTE, WY 82718-

campbell county

PERMIT/FILE NO. MD-378

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA

AGENCY CONTACT PERSON: RICH SCHRADER - DIST 3 ENGINEER P.

SCHEDULING INFORMATION:

RECEIVED APPLICATION  11/20/1997  ACT
PERMIT ISSUED            10/14/1998  ACT
START UP                 12/02/1998  ACT
COMPLIANCE VERIFICATION  03/02/1999  EST

THROUGHPUT

ENGINES, COMPRESSOR, 2 EA

PROCESS/COMPLIANCE NOTES:

WAUKESHA 7044 GSI TURBO CHARGED COMPRESSOR ENGINES.

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST:  N
INSPECTION:  N       CALCULATION:  N        OTHER TEST:  N

NOX

CAPITAL COSTS:  $            0
O & M COSTS:  $            0       COSTS ARE IN DOLLARS.
ANNUALIZED COSTS:  $            0      COSTS ARE NOT VERIFIED BY AGENCY.
COST EFFECTIVENESS ($/TON):               0
REPORT DATE: 06/24/1999

RBLC ID No. WY-0049

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0

VOC
CAPITAL COSTS: $ 0
O & M COSTS: $ 0 COSTS ARE IN
ANNUALIZED COSTS: $ 0 COSTS ARE NOT
COST EFFECTIVENESS ($/TON): 0
### Processes Subject to This Permit

<table>
<thead>
<tr>
<th>Stack, Ventilation, Phosphoric Acid Plant</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Code 61.009</td>
<td>39000.00 ACFM</td>
<td>Fluoride, Total</td>
<td>0.0135 LB/T</td>
</tr>
<tr>
<td>SCC Code 30103099</td>
<td></td>
<td>CAS No. 16984488</td>
<td>0.0135 LB/T</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: ADD FILTER VACUUM PUMP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tower, Cooling, Phosphoric Acid</th>
<th>Throughput</th>
<th>Pollutant Name</th>
<th>Ranking Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Code 61.009</td>
<td>17500.00 GAL/M</td>
<td>Fluoride, Total</td>
<td>3.3800 LB/H</td>
</tr>
<tr>
<td>SCC Code 30103001</td>
<td></td>
<td>CAS No. 16984488</td>
<td>0.0000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTROL METHOD: NO</td>
<td></td>
</tr>
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**Notes:** Increase phosphate production (measured as P2O5) by the construction of an additional phosphoric acid evaporator, filter, and support equipment.
REPORT DATE: 06/24/1999                                DETAILED SOURCE LISTING (Part B)                                                 PAGE H-  891
RBLC ID No. WY-0050                                        DATE ENTERED/UPDATED:  06/08/1999

COMPANY NAME/SITE LOCATION:  SF PHOSPHATES LIMITED CO - FERTILIZER COMPLEX
P.O. BOX 1789                                             SWEETWATER COUNTY
ROCK SPRINGS, WY 82902-

PERMIT/FILE NO. MD-384                                    DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUA
AGENCY CONTACT PERSON:   LEE GRIBOVICZ - DIST 5 ENGINEER P.

SCHEDULING INFORMATION:                                   ESTIMATED/ACTION DATE

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<tr>
<th>Event Description</th>
<th>Date</th>
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<tr>
<td>Received Application</td>
<td>04/28/1998</td>
<td>ACT</td>
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<td>Permit Issued</td>
<td>12/22/1998</td>
<td>ACT</td>
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<tr>
<td>Start Up</td>
<td>01/31/2000</td>
<td>EST</td>
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<tr>
<td>Compliance Verification</td>
<td>03/31/2000</td>
<td>EST</td>
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THROUGHPUT

<table>
<thead>
<tr>
<th>Process Name</th>
<th>Pollutant Name</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>STACK, VENTILLATION, PHOSPHORIC ACID PLANT</td>
<td>39000.0000 ACFM</td>
<td>COMPLIANCE WAS NOT VERIFIED.</td>
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PROCESS/COMPLIANCE NOTES:

ONE NEW STACK.

FLUORIDE, TOTAL

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Capital Costs</td>
<td>$</td>
<td>0</td>
</tr>
<tr>
<td>O &amp; M Costs</td>
<td>$</td>
<td>0</td>
</tr>
<tr>
<td>Annualized Costs</td>
<td>$</td>
<td>0</td>
</tr>
<tr>
<td>Cost Effectiveness ($/TON)</td>
<td>$</td>
<td>0</td>
</tr>
</tbody>
</table>

COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

RBLC ID No. WY-0050

TOWER, COOLING, PHOSPHORIC ACID

17500.0000 GAL/M

PROCESS/COMPLIANCE NOTES:

EXISTING EQUIPMENT.

COMPLIANCE WAS NOT VERIFIED.

STACK TEST:  N
INSPECTION:  N
CALCULATION:  N
OTHER TEST:  N
OTHER METHOD:

FLUORIDE, TOTAL

CAPITAL COSTS:  $  0
O & M COSTS:  $  0
ANNUALIZED COSTS:  $  0
COST EFFECTIVENESS ($/TON):  0

COSTS ARE IN
DOLLARS.
COSTS ARE NOT
VERIFIED BY AGENCY.
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: UNION PACIFIC RESOURCES - PATRICK DRAW GAS PLANT
SE QUART, SECT 25, TOWN 19 N
36 MILE N OF ROCK SPRINGS, WY

PERMIT/FILE NO. MD-357

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
LEE GRIBOVICZ - DIST 5 ENGINEER

AIRS ID NO. 03700036

EMISSION LIMITS (P: S)
PROCESS CODE 15.004
SCC CODE 20200202

THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION EST % EFF
COMPRESSOR, ENGINES, 2 EA 1200.00 HP

NOX 0.9000 G/HP 0.0000
CAS NO. 10102
CONTROL METHOD: POLLUTION PREVENTION
ULTRA LOW NOX LEAN BURN TECHNOLOGY.
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO 2.8000 G/HP 0.0000
CAS NO. 630080
CONTROL METHOD: POLLUTION PREVENTION
ULTRA LOW NOX LEAN BURN TECHNOLOGY.
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC 0.5000 G/HP 0.0000
CAS NO. VOC
CONTROL METHOD: POLLUTION PREVENTION
ULTRA LOW NOX LEAN BURN TECHNOLOGY.
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED
ENGINE, COMPRESSOR, 9 EA

PROCESS CODE 15.004
SCC CODE 20200202

3200.00 HP

NOX
CAS NO. 10102
0.5000 G/HP
0.0000
CONTROL METHOD: POLLUTION PREVENTION
ULTRA LOW NOX LEAN BURN TECHNOLOGY
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630080
0.5000 G/HP
0.0000
CONTROL METHOD: POLLUTION PREVENTION
ULTRA LOW NOX LEAN BURN TECHNOLOGY AND CATALYTIC CRACKING.
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

VOC
CAS NO. VOC
0.3000 G/HP
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICE.
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

HEATER, 2 EA

PROCESS CODE 11.005
SCC CODE 31000404

45.00 MMBTU/H

NOX
CAS NO. 10102
0.0300 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION
ULTRA LOW NOX LEAN BURN TECHNOLOGY
4/3 CONTROL OPTIONS EXAMINED/OPTION SELECTED

CO
CAS NO. 630080
0.0400 LB/MMBTU
0.0000
CONTROL METHOD: POLLUTION PREVENTION
GOOD COMBUSTION PRACTICE
2/2 CONTROL OPTIONS EXAMINED/OPTION SELECTED

NOTES: CONSTRUCT AN ADDITIONAL 120 MMSCFD NATURAL GAS PROCESSING PLANT TO EXISTING FACILITY.
REPORT DATE: 06/24/1999

DETAILED SOURCE LISTING (Part B)

COMPANY NAME/SITE LOCATION: UNION PACIFIC RESOURCES - PATRICK DRAW GAS PLANT
SE QUART, SECT 25, TOWN 19 N
36 MILE N OF ROCK SPRINGS, WY
SWEETWATER COUNTY

PERMIT/FILE NO. MD-357

DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QA
AGENCY CONTACT PERSON: LEE GRIBOVICZ - DIST 5 ENGINEER

SCHEDULING INFORMATION:

RECEIVED APPLICATION 10/28/1997 ACT
PERMIT ISSUED 05/18/1998 ACT
START UP 12/31/1999 EST

THROUGHPUT

PROCESS NAME POLLUTANT NAME CAPACITY

COMPRESSOR, ENGINES, 2 EA 1200.0000 HP

COMPLIANCE WAS NOT VERIFIED.

PROCESS/COMPLIANCE NOTES:

WHITE SUPERIOR 2408G ENGINES.

NOX
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
ENGINE, COMPRESSOR, 9 EA
3200.0000 HP
WHITE SUPERIOR 2416G ENGINES.

PROCESS/COMPLIANCE NOTES:
HEATER, 2 EA

45.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER METHOD:

NOX

CAPITAL COSTS: $ 90,195
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 16,483
COST EFFECTIVENESS ($/TON): 760

CO

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0
REPORT DATE: 06/24/1999

COMPANY NAME/SITE LOCATION: UNION PACIFIC RESOURCES - PATRICK DRAW GAS PLANT
SE QUART, SECT 25, TOWN 19N
36 M EAST OF ROCK SPRINGS, WY 82336-
SWEETWATER

PERMIT/FILE NO. MD-357
DETERMINATION MADE BY: WYOMING AIR QUAL DIV, DEPT OF ENV QUAL
LEE GRIEIVICZ- DIST 5 ENGINEER
(AGENCY) LEE GRIEIVICZ- DIST 5 ENGINEER
(AGENCY CONTACT PERSON)
(PHONE) (307) 332-6755

AIRS ID NO.

EMISSION LIMITS (P: STANDARDIZED)
PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT CAPACITY POLLUTANT NAME RANKING INFORMATION % EFF

ENGINES, COMPRESSOR, 2 EA 1200.00 HP

<table>
<thead>
<tr>
<th>PROCESS CODE</th>
<th>CAPITAL</th>
<th>POLUTANT NAME</th>
<th>RANKING INFORMATION</th>
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</thead>
<tbody>
<tr>
<td>15.004</td>
<td>10102</td>
<td>NOX</td>
<td>0.9000 (B-HP-H)</td>
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<tr>
<td>20200202</td>
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<td>CO</td>
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<tr>
<td></td>
<td></td>
<td>VOC</td>
<td>0.5000 (B-HP-H)</td>
</tr>
</tbody>
</table>
ENGINES, COMPRESSOR, 9 EA

PROCESS CODE 15.004
SCC CODE 20200202

3200.00 HP

NOX
CAS NO. 10102
0.9000 G/B-
0.9000 G/B-
CONTROL METHOD: POL
ULTRA LOW NOX LEAN B-
2/2 CONTROL OPTI-

CO
CAS NO. 630-08-0
0.5000 G/B-
0.5000 G/B-
CONTROL METHOD: BOT
ULTRA LOW NOX LEAN B-
CONVERTER.
2/1 CONTROL OPTI-

VOC
CAS NO. VOC
0.3000 G/B-
0.3000 G/B-
CONTROL METHOD: BOT
ULTRA LOW NOX LEAN B-
CONVERTER.
2/1 CONTROL OPTI-

NOTES: CONSTRUCT AN ADDITIONAL 120 MMSCFD NATURAL GAS PROCESSING PLANT TO THE EXISTING FACILITY.
**REPORT DATE:** 06/24/1999  
**COMPANY NAME/SITE LOCATION:** UNION PACIFIC RESOURCES - PATRICK DRAW GAS PLANT  
36 M EAST OF ROCK SPRINGS, WY 82336-  
SE QUART, SECT 25, TOWN 19N  
SWEETWATER COUNTY  
**PERMIT/FILE NO.** MD-357  
**DETERMINATION MADE BY:** WYOMING AIR QUAL DIV, DEPT OF ENV QUA  
**AGENCY CONTACT PERSON:** LEE GRIBIVICZ- DIST 5 ENGINEER  
**PHONE #** (307) 332-6755  
**SCHEDULING INFORMATION:**  
RECEIVED APPLICATION 10/28/1997 ACT  
PERMIT ISSUED 05/18/1998 ACT  
START UP 12/31/1999 EST  
COMPLIANCE VERIFICATION / /  
**PROCESS NAME**  
**POLLUTANT NAME**  
**CAPACITY**  
**ENGINE, COMPRESSOR, 2 EA**  
1200.0000 HP  
COMPLIANCE WAS NOT VERIFIED.  
**PROCESS/COMPLIANCE NOTES:**  
WHITE SUPERIOR 2408G ENGINES.  
**COMPLIANCE METHOD (Y/N):**  
STACK TEST: N  
INSPECTION: N  
CALCULATION: N  
OTHER METHOD:  
**NOX**  
**CAPITAL COSTS:** $ 0  
**O & M COSTS:** $ 0  
**ANNUALIZED COSTS:** $ 0  
**COST EFFECTIVENESS ($/TON):** 0
REPORT DATE: 06/24/1999

RBLC ID No. WY-0052

ENGINES, COMPRESSOR, 9 EA

3200.0000 HP

WHITE SUPERIOR 2416G ENGINES.

PROCESS/COMPLIANCE NOTES:

COMPLIANCE WAS NOT VERIFIED.

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

NOX

CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0

CO

COST EFFECTIVENESS ($/TON): 1,761

VOC

COST EFFECTIVENESS ($/TON): 0
HEATER, 2 EA

45.0000 MMBTU/H

COMPLIANCE WAS NOT VERIFIED.

COMPLIANCE METHOD (Y/N):
STACK TEST: N
INSPECTION: N
CALCULATION: N
OTHER TEST: N
OTHER METHOD:

NOX
CAPITAL COSTS: $ 90,195
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 16,483
COST EFFECTIVENESS ($/TON): 760

CO
CAPITAL COSTS: $ 0
O & M COSTS: $ 0
ANNUALIZED COSTS: $ 0
COST EFFECTIVENESS ($/TON): 0