M00263.AR.000013
MCRD PARRIS ISLAND
5090.3a

FINAL VOLATILE ORGANIC COMPOUND STUDY REPORT FOR NAVAL AIR POLLUTION SOURCE INFORMATION SYSTEM WITH TRANSMITTAL LETTER MCRD PARRIS ISLAND SC

1/15/1990

GEOMET TECHNOLOGIES INC

Volatile Organic Study

FINAL REPORT
MCRD PARRIS ISLAND, SC

Technical Report

for

GEOMET TECHNOLOGIES, INC.
20251 CENTURY BOULEVARD • GERMANTOWN, MARYLAND 20874 • 301/428-9898

GEOMET TECHNOLOGIES, INC. 301/428-9898

20251 Century Boulevard, Germantown, Maryland 20874

January 15, 1990
GM3577

Marine Corps Recruit Depot
A/C-SG-4
Attn: Johnsie Nabors
Parris Island, SC 29905

Reference: Contract N62467-87-D-0347
GEOMET Contract No. 88-05-001

Dear Ms. Nabors:

Enclosed is a copy of the Final Report for the MCRD Parris Island, S.C., that was prepared as a result of the recent NAPSIS update and VOC audit performed by GEOMET.

Copies of the report have been sent to David Porter at Southern Division NAVFACENGCOM.

Thank you for your assistance during the on-site visit last summer.

Sincerely,

Douglas J. Pelton

Douglas J. Pelton

DJP/rar

Enclosure

GEOMET Report Number EA-2091

December 1989

FINAL REPORT
MCRD PARRIS ISLAND, SC

Technical Report

for

Department of the Navy
Southern Division
Naval Facilities Engineering Command
Charleston, South Carolina 29411

under

Contract Number N62467-87D-0347

by

Douglas J. Pelton
Mark J. Stunder
GEOMET Technologies, Inc.
20251 Century Boulevard
Germantown, Maryland 20874-1192

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ABBREVIATIONS

MEASUREMENTS

bbls--barrels
Btu--British thermal units
°C--degrees Centigrade
gal--gallon
h--hour
h/d--hours per day
Kgal--thousand gallons
kW--kilowatt
lb--pound
lb/d--pounds per day
lb/gal--pounds per gallon
lb/in^2--pounds per square inch
lb/yr--pounds per year
MBtu--Million British thermal units
mm Hg--millimeters of mercury
psia--pounds per square inch absolute

ACRONYMS

ANSI--American National Standards Institute
ASTM--American Society for Testing Materials
DHEC--Department of Health and Environmental Control
MCRD--Marine Corps Recruit Depot
NAPSIS--Naval Air Pollution Source Information System
RACT--Reasonably Available Control Technology
VOC--Volatile Organic Compounds

EXECUTIVE SUMMARY

An audit of volatile organic compounds (VOC) sources was made at the Marine Corps Recruit Depot (MCRD), South Carolina in conjunction with a survey to update information to be entered into the Naval Air Pollution Source Information System (NAPSIS). The VOC emissions have been calculated based on data obtained during interviews with personnel on-site who were familiar with the operations and VOC-containing materials used there.

The results have been tabulated and applicable air pollution regulations have been reviewed to determine if the sources are in compliance with the regulations. The VOC emissions are below the limit that would cause emission-limiting regulations to be imposed. Separate reports have been prepared concerning the air pollution sources at Marine Corps Air Station and the Naval Hospital in Beaufort. All of the air pollution source data has been entered into the NAPSIS.

Section 1.0

INTRODUCTION

Section 1.0

INTRODUCTION

GEOMET Technlogies, Inc., is providing technical support to the Naval Facilities Engineering Command-Southern Division (NAVFACENGCOM) to update the Naval Air Pollution Source Information System (NAPSIS).

This update consists of two components:

- Standard NAPSIS update to include all air emission points
- Special Volatile Organic Compound (VOC) Audit information.

This NAPSIS update was conducted by gathering source information by both actual process inspections and by record inspections.

The Navy recognizes the need to maintain compliance with South Carolina air quality regulations and has requested that GEOMET include a VOC audit in conjunction with the NAPSIS update at the Naval activities in the Beaufort, South Carolina area. This report covers the MCRD Parris Island. Two other activities, MCAS and Naval Hospital, are included in separate reports.

Ozone, an oxidizing agent occurring as a gas, can cause health problems related to respiratory functions. Consequently, the U.S. Environmental Protection Agency has set air quality standards for ozone. Ozone is described as a secondary pollutant because it is not emitted directly by a source, but instead is formed in the atmosphere due to chem-

ical reactions involving precursor pollutants, volatile nonmethane organic compounds, and nitrogen oxides. Efforts to control ozone concentrations include control of emissions of the volatile nonmethane organic compounds, commonly referred to as VOCs. MCRD Parris Island is located in Beaufort County, an area that is an attainment area for all criteria pollutants.

This report identifies all VOC emission sources and identifies which portion of the regulation applies to each source.

Data to update the NAPSIS data base are obtained by visiting the activity and interviewing the person(s) in charge of the shops that operate the various air pollution emission sources. Data are gathered to the extent possible from existing data. No tests are made to determine pollutant emission rate. No measurements are made of flow rates or temperatures; therefore, if the data are not available in records or the information is not available from interviews, the data fields in NAPSIS are empty.

Providing input to NAPSIS regarding whether a permit is required for each source is frequently not a clearly defined response. The regulations are written to require that all sources of air pollution should have permits, but there are some sources that are exempt from the requirement. Exemptions are provided in the state regulations or in policy memos, and very few of the permitting engineers will declare whether a source requires a permit or not unless a permit application is submitted for review.

The prevailing guidance that is offered in response to the question as to whether a permit is required is 1) all sources should require a permit unless exempted and 2) if a source has been reviewed for purposes of granting a permit but has been determined as not requiring a permit, a letter stating that a permit is not required should be on file at the activity that would be affected. Using this guidance, many of the sources in NAPSIS indicate a permit is required (but may, in fact, be exempt from the permit requirement).

Determination as to whether a permit is required will depend on several considerations such as:

- the air pollution potential of the source
- whether the source is a new source or whether the source is "grandfathered" by virtue of its age relative to the applicable regulation
- whether the source is in an attainment or nonattainment area, etc.

The objective of the air pollution control authorities is to have a registry of all air pollution sources even though the source may not require a permit. Hence, a "no" entry in NAPSIS will have the Navy satisfied that everything is in order regarding permit requirements, but a "yes" response may trigger action for requesting permits for many sources that will not require permits.

Some information for several sources that are not in NAPSIS is noted below:

There are many emergency generators around the base at fixed locations to provide power for pumping stations when water draining pumps require use.

Two generators are larger than 150 kW. Two skid-mounted generators, 200 kW, maintained by the motor transportation division, are deployed to areas as required for temporary use. Generators are used very little; one was run 23 hours last year, the other ran for 35 hours last year. Both generators are identical 6-cylinder engines built in 1981 by Lima Manufacturing. The contact at Motor Transport is Tony Martinez, building 157, telephone 525-2233.

A small amount of vehicle painting--touch-up only--is done at Motor Transport. Whole vehicle painting is sent to private contractors. Minor amounts of VOCs will result from touch-up painting done in building 157 (Motor Transport building).

There are plans to install a paint booth in building 157 in two spaces previously used for painting. No definite installation date has been established, since money for the project has not been allocated.

Underground storage tanks at the Marine Corps Exchange station do not have a leak detection system yet, but plans are underway to have leak detectors installed.

Public Works Department

Contact Joe Sistare, telephone 525-2192, operates the carpentry,

paint, air conditioner, and sheet metal and machine shops. Only a small amount of painting is done--principally wood products produced in the carpentry shop. Of more concern in the future is the amount of chlorofluorocarbons used by the air conditioner repair shop. The principal CFC used is ISOTRON 22, ISOTRON 12, and ISOTRON 50. ISOTRON 22 is chlorodifluoromethane, ISOTON 12 is dichlorodifluoromethane. Approximately 4,480 lb of those CFCs are charged to the air conditioners per year, indicating 4,480 lb per year escape from the air conditioner.

The welding shop at Public Works building is not included as one point in NAPSIS. Welding includes steel and aluminum. The welder estimates 50 lb of welding rod is used per weld, but only 25 percent is done in the shop. Most of the welding is done in the field. There are two welding tables in the shop, each vents to a stack 22 ft high x 2 ft square.

The boilers at the Central Power Plant (building 160) have operating permits for 62.5 MBtu input capacity. The operators of the boilers and the most recent boiler inspection sheets show the boiler capacities to be 50,000 lbs of steam per hour. Data from records of operating the boilers indicate 1,200 to 1,300 Btu required to produce a pound of steam. Multiplying the Btu/lb of steam by 50,000 lb steam per hour yields heat input in the range of 62 to 65 MBtu per hour. Therefore the permits are for the correct range of heat input.

Section 2.0 includes an analysis of the VOC sources and compliance status of the sources with the applicable air quality regula-

tions. A list of all the NAPSIS points is presented in Appendix A. Calculations of VOC emissions are shown in Appendix B. A printout of the NAPSIS data is included as Appendix C.

The instructions for the work assigned for this task excluded data updates for underground storage tanks and above ground tanks used to store fuel oils No. 2 through 6.

Section 2.0

COMPLIANCE SUMMARY

Section 2.0

COMPLIANCE SUMMARY

2.1 BACKGROUND

The following steps are involved in completing the VOC audit:

1. Identify all NAPSIS points (a point is a term used by NAPSIS to define an air emitter)
2. Categorize all points into VOC/non-VOC classes
3. Perform emission calculations on each identified VOC point
4. Compare results against the South Carolina air regulations for VOCs.

The VOC audit will serve to identify what materials are used, where they are used, how much is used, and whether a point or series of points is in compliance with state and Federal regulations. With that information, the Navy can devise a plan to reduce or continue to monitor VOC emissions as necessary.

2.2 VOC REGULATION OVERVIEW

Regulations relating to air pollution are set forth in the South Carolina Air Pollution Control Regulations and Standards. Of specific interest to the concerns addressed in this report are the regulations applicable to operations at the MCRD.

Regulations for emissions of VOCs are included in Standard No. 5 of the regulations. The regulations apply statewide except to existing sources in Anderson, Bamberg, Barnwell, Chesterfield, Darlington and Hampton Counties. The MCRD Parris Island is located in Beaufort County.

Regulation No. 62.1, Section II, describes air pollution permit requirements. Part F describes which sources are exempt from requiring permits. Part F is reproduced below to show the complete list of exempt sources. Paragraphs 2.g and 2.h indicate some sources may not require permits but that is a judgment to be made after the relevant information is reviewed.

F. Exemptions

1. No permits shall be required for the following sources which burn virgin fuel and which were constructed prior to February 11, 1971:

   a. Natural gas boilers

   b. Oil-fired boilers of 50 x 10^6 Btu/hr-rated input capacity or smaller

   c. Coal-fired boilers of 20 x 10^6 Btu/hr-rated input capacity or smaller.

2. No permits shall be required for the following sources:

   a. Boilers and space heaters of less than 1.5 x 10^6 Btu/hr-rated input capacity which burn virgin fuel

   b. Comfort air conditioning or ventilation systems

   c. Motor vehicles

   d. Laboratory hoods

   e. Emergency power generators of less than 150 kW-rated capacity

   f. Sources emitting only steam, air, nitrogen, oxygen, carbon dioxide, or any physical combination of these

   g. Sources with an uncontrolled particulate emission rate of less than 1 lb/hr and/or uncontrolled VOC emission

rate of less than 1000 lbs/mo may not require permits. However, source information needs to be submitted to the Department and a determination on the need for permits will be made.

This determination will take into consideration, but will not be limited to, the nature and amount of the pollutants, location, proximity to residences and commercial establishments, etc.

h. Sources whose only emissions are fugitive must submit source information, and the need for permit(s) will be made by the Department on a case-by-case basis. This determination will take into consideration, but will not be limited to the nature and amount of the pollutants, location, proximity to residences and commercial establishments, etc.

Standard No. 5 (of Regulation No. 62.5) applies to all plants that have total potential emissions of VOC of more than 550 pounds in any one day or more than 150 pounds in any one hour. Parts of Standard No. 5 relevant to operations at the Navy activities included in this report are:

Part F -- Surface Coating of Miscellaneous Metal Parts and Products (applies to sources built before July 1, 1979). Sources built or modified after that date must use guidance for New Source Performance Standards or Prevention of Significant Deterioration for major sources.

Part N -- Solvent Metal Cleaning

Standard 5.1 applies to Volatile Organic Compounds--Lowest Achievable Emission Rate (LAER). Standard 5.1 applies to new, modified or altered sources that would increase emissions of VOCs when the net VOC emissions increase exceeds 100 tons per year.

2.3 COMPLIANCE REVIEW

Table 2-1 provides a list of the VOC sources that were noted at MCRD. South Carolina Air Pollution Control Regulations and Standards do not include emission regulations or controls for gas stations the main source of VOCs at the MCRD. The dry cleaning plant is the other main source of VOCs at Parris Island.

The VOC sources are below the level that requires sources to use emission limiting measures. A facility with total potential emissions of VOC more than 500 pounds in one day or more than 150 pounds in one hour requires the emission limiting measures described in Section II of Standard 5 (emissions from gas stations are not included).

The VOC emissions shown in Table 2-1 are well below the level that requires sources to use emission limiting measures, and the sources are considered to be in compliance with the regulations.

Table 2-1. VOC Sources at MCRD--Parris Island, SC

NAPSIS Point	Bldg. No.	Description	VOC Emissions lb/h	lb/d	ton/yr
010	404	Exchange gas station		47.9(1)	8.7
011	170	Government vehicles gas station		9.5(2)	1.5
015	193	Dry cleaning plant		50.2(2)	6.5
021	450	Paint booth	1.9	3.8	0.1

(1) Annual rate divided by 365

(2) Annual rate divided by 312

APPENDIX A

NAPSIS Points at MCRD Parris Island

NAPSIS Points at MCRD Parris Island

NAPSIS Point No.	Building No.	Description	Action
001	160	Boiler #1 central power plant	Updated
002	160	Boiler #2 central power plant	Updated
003	160	Boiler #3 central power plant	Updated
004	160	Boiler #4 central power plant	Updated
005	302	#2 fuel storage tank	Not Updated
006	94	#6 fuel storage tank	Not Updated
007	95	#6 fuel storage tank	Not Updated
008	97	#6 fuel storage tank	Not Updated
009	1013	#6 fuel storage tank	Not Updated
010	404	Exchange service station	Updated
011	170	Government vehicle station	Updated
012	850		Deleted
015	193	Dry cleaning plant	Updated
016			Deleted
017	1012	Boiler (No. 11)	Updated
018	1012	Boiler (No. 12)	Updated
019	1012	Boiler (No. 13)	Updated
020	450	Carpentry shop	Added
021	450	Paint booth	Added

APPENDIX B

VOC Calculations

VOC CALCULATION WORKSHEET

GAS STATION

	Emission Factors (from AP-42) Gasoline lb/1,000 gal throughput
A. Storage Tank Filling	
Submerged fill	7.3
Splash fill	11.5
Balanced submerged fill	0.3
B. Underground Tank Breathing	1.0
C. Vehicle Refueling Operation	
Displacement loss--uncontrolled	11.0
Displacement loss--controlled	1.1
Spillage	0.7

Station throughput 874,531 gal/yr (from NAPSIS survey)

Emission factors $\underset{A}{\underline{7.3}}$ + $\underset{B}{\underline{1.0}}$ + $\underset{C}{\underline{11.7}}$ = 20 lb/1,000 gal

Sum of emission factors x throughput (10^3 gal) = 17,490 lb/yr

Activity MCRD Parris Island

Building 404

NAPSIS Point 010

VOC CALCULATION WORKSHEET

GAS STATION

	Emission Factors (from AP-42) Gasoline lb/1,000 gal throughput
A. Storage Tank Filling	
Submerged fill	7.3
Splash fill	11.5
Balanced submerged fill	0.3
B. Underground Tank Breathing	1.0
C. Vehicle Refueling Operation	
Displacement loss--uncontrolled	11.0
Displacement loss--controlled	1.1
Spillage	0.7

Station throughput 147,768 gal/yr (from NAPSIS survey)

Emission factors 7.3 (A) + 1.0 (B) + 11.7 (C) = 20 lb/1,000 gal

Sum of emission factors x throughput (10^3 gal) = 2,955 lb/yr

Activity MCRD Parris Island

Building 170

NAPSIS Point 011

VOC CALCULATION WORKSHEET

Source Type: Dry cleaning plant--Perchloroethylene

Emission estimate based on emission factors in Section 4.1, AP-42

Emission rates listed include:
(well-controlled system)

a)	washer/dryer/still/muck cooker	0.3 lb/100 lb clothes
	filter disposal	1.1 lb/100 lb clothes
	still residue disposal	1.6 lb/100 lb clothes
	miscellaneous	1.0 lb/100 lb clothes
	Emission rate total per 100 lb clothes	4.0

Dry cleaning with perchloroethylene processors 326,000 lb clothes/yr

Perchloroethylene emissions = 4.0 x 3,260 = 13,040 lb/yr

6.5 ton/yr

Activity MCRD Parris Island

Building 193

NAPSIS Point 015

VOC CALCULATION WORKSHEET

Activity MCRD - Beaufort Building 450 Point 021

Type of Point Paint booth

Material used--type and quantity (per unit-time) x time units/yr =

1. Alkyd enamel paint 1 gal/wk = 52 gal/yr
2.
3.
4.
5.
6.
7.
8.

Material 1	lb/gal	9.3 ;	VOC	3.8	lb/gal
Material 2	lb/gal	;	VOC		lb/gal
Material 3	lb/gal	;	VOC		lb/gal
Material 4	lb/gal	;	VOC		lb/gal
Material 5	lb/gal	;	VOC		lb/gal
Material 6	lb/can	;	VOC		lb/can
Material 7	lb/gal	;	VOC		lb/gal
Material 8	lb/gal	;	VOC		lb/gal

Time that process is operating 2 hours per (day, week, month)

Operating hours per year = 2 x 52 = 104

Activity MCRD - Beaufort Point 021

VOC emission rate = 1.91 lb/h

Material	VOC lb/gal	x	gal/yr	x	$\frac{1}{h/yr}$	=	VOC lb/h
1) Alkyd enamel	3.8		52		$\frac{1}{104}$		1.9

APPENDIX C

Computer Printout
NAPSIS Points

FACSO RPT/SYM NO. 9593/F5558R01

NAPSIS WORKING COPY
EFD....SOUTHDIV

DATE 20 DEC 89
UIC...M00263

--ACTIVITY INFORMATION--

UIC....M00263 MCRD/BEAUFORT PI, SC

EFD....SOUTHDIV

COUNTRY....US UNITED STATES
STATE.....45 SOUTH CAROLINA
COUNTY....013 BEAUFORT

MAJOR CLAIMANT....MARCORPS
EPA REGION.....04
AQCR NUMBER.....058

POLLUTANTS IN NON-ATTAINMENT..

ACTIVITY CONTACT....JOHNSIE NABORS
EFD CONTACT.....DAVE PORTER
UST CONTACT.....

ACTIVITY PHONE....803 525 2779
EFD PHONE.....A/V 563 0689
UST PHONE.....

TRANSPORTATION PLAN REQD.....NO
I AND M PLAN REQD.....NO
AIR EPISODE PLAN REQD.....NO

TRANSPORTATION PLAN COMPL.....N/A
I AND M PLAN COMPL.....N/A
AIR-EPISODE PLAN COMPL.....N/A

REMARKS:

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...001 SIC...4911 ELEC. POWER GENERATION BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....BABCOCK & WILCOX BOILER
DATE REVISED....25 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		160	

PERMIT/REGIS REQD...YES

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 BABCOCK & WILCOX BOILER #1 - ONE OF FOUR BOILERS
0011 LOCATED AT BUILDING 160 (CENTRAL POWER PLANT).
0015 BOILER MODEL #: SPL-F-19AB NO. 13
0016 DRAFT: FORCED AND INDUCED.
0020 THE FOLLOWING REMARKS ALSO APPLY TO NAPSIS POINTS
0021 002 THROUGH 004.
0025 AIR PERMIT 0360-0002 EXPIRES MAY 31, 1993.
0030 BOILERS USED FOR STEAM EXPORT AND ELECTRIC
0031 GENERATION. TYPICALLY TWO RUN AY A TIME. WITH
0032 INCREASED ELECTRIC DEMAND, MAINLY IN SUMMER,
0033 THREE OR FOUR MAY RUN.
0040 PRIMARY FUEL IS NATURAL GAS - ALTERNATE IS NO. 6
0041 OIL (NO. 6 OIL IS OCCASIONALLY USED IN WINTER).
0050 POINT OF CONTACT (POC): JOHN WHITE, X-3230.
0060 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10100602	NATURAL GAS	BOILER<100 MBTU

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1941			.0	.0

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
23	24	29	24	24.0	7	39

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY...B ANNUAL...BURNED
.050 KGALS KGALS 327.90 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.8	3 FACTOR TABLE
NOX	105.000		17.2	3 FACTOR TABLE
PART	13.000	S	2.1	3 FACTOR TABLE
SOX	159.000	S	26.1	3 FACTOR TABLE
THC	1.000		.2	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS BOILER<100 MBTU
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.025 MCF .051 MCF 165.55 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		1.4	3 FACTOR TABLE
NOX	180.000		14.9	3 FACTOR TABLE
PART	10.000		.8	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	1.000		.1	3 FACTOR TABLE

POINT ID...001 SIC...4911 ELEC. POWER GENERATION BOILER

CAPACITY..... 65.3 MBTU/HR

STACK HEIGHT..... 69 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....48.0 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE...

BURNER MFG....WEBSTER
BOILER MFG....BABCOCK & WILCOX
BOILER NUM....1
BOILER USE....ST

BURNER TYPE.....GAS RING
BOILER TYPE.....WATER TUBE
BOILER MODEL.....

SERIAL NUM....12328

NAT BOARD NUM.....

INSPECTION DATE....APR 87
FUEL ATOMIZATION...
OP PRESSURE.....450 PSI
FIRING TYPE.....

DESIGN PRESSURE...400 PSI
DRAFT.....

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10100602	NATURAL GAS	BOILER<100 MBTU	.00	.0	1000

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...002 SIC...4911 ELEC. POWER GENERATION BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....BABCOCK & WILCOX BOILER
DATE REVISED....25 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1 COMPLIANCE SCHEDULE BLDG# PROP REC#
IN COMPLIANCE 160

PERMIT/REGIS REQD...YES

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 BABCOCK & WILCOX BOILER #2 - ONE OF FOUR BOILERS
0011 LOCATED AT BUILDING 160 (CENTRAL POWER PLANT).
0015 BOILER MODEL #: SPL-F-19AB NO. 13
0016 DRAFT: FORCED AND INDUCED.
0020 SEE NAPSIS POINT 001 FOR ADDITIONAL REMARKS.
0030 POC: JOHN WHITE, X-3230.
0040 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10100602	NATURAL GAS	BOILER<100 MBTU

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1941			.0	.0

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
23	24	29	24	24.0	7	39

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY...B ANNUAL...BURNED
.050 KGALS KGALS 327.90 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.8	3 FACTOR TABLE
NOX	105.000		17.2	3 FACTOR TABLE
PART	13.000	S	2.1	3 FACTOR TABLE
SOX	159.000	S	26.1	3 FACTOR TABLE
THC	1.000		.2	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS BOILER<100 MBTU
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.025 MCF .051 MCF 165.55 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		1.4	3 FACTOR TABLE
NOX	180.000		14.9	3 FACTOR TABLE
PART	10.000		.8	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	1.000		.1	3 FACTOR TABLE

FM20F(2)MAR83

POINT ID...002 SIC...4911 ELEC. POWER GENERATION BOILER

CAPACITY..... 65.3 MBTU/HR

STACK HEIGHT..... 69 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....48.0 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE...

BURNER MFG....WEBSTER
BOILER MFG....BABCOCK & WILCOX
BOILER NUM....2
BOILER USE....ST

BURNER TYPE.....GAS RING
BOILER TYPE.....WATER TUBE
BOILER MODEL.....

SERIAL NUM....12329

NAT BOARD NUM.....

INSPECTION DATE....JUN 87
FUEL ATOMIZATION...
OP PRESSURE.....450 PSI
FIRING TYPE.....

DESIGN PRESSURE...400 PSI
DRAFT.....

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10100602	NATURAL GAS	BOILER<100 MBTU	.00	.0	1000

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...003 SIC...4911 ELEC. POWER GENERATION BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....BABCOCK & WILCOX BOILER
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		160	

PERMIT/REGIS REQD...YES

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 BABCOCK & WILCOX BOILER #3 - ONE OF FOUR BOILERS
0011 LOCATED AT BUILDING 160 (CENTRAL POWER PLANT).
0015 BOILER MODEL #: SPL-F-A9-AF13-19-AB NO.13
0016 DRAFT: FORCED AND INDUCED.
0020 SEE NAPSIS POINT 001 FOR ADDITIONAL REMARKS.
0030 POC: JOHN WHITE, X-3230.
0040 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10100602	NATURAL GAS	BOILER<100 MBTU

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1941				

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
23	24	29	24	24.0	7	39

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY...B ANNUAL...BURNED
.050 KGALS KGALS 327.90 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.8	3 FACTOR TABLE
NOX	105.000		17.2	3 FACTOR TABLE
PART	13.000	S	2.1	3 FACTOR TABLE
SOX	159.000	S	26.1	3 FACTOR TABLE
THC	1.000		.2	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS BOILER<100 MBTU
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.025 MCF MCF 165.55 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		1.4	3 FACTOR TABLE
NOX	180.000		14.9	3 FACTOR TABLE
PART	10.000		.8	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	1.000		.1	3 FACTOR TABLE

POINT ID...003 SIC...4911 ELEC. POWER GENERATION BOILER

CAPACITY..... 65.3 MBTU/HR

STACK HEIGHT..... 69 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....48.0 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE...

BURNER MFG....WEBSTER
BOILER MFG....BABCOK & WILCOX
BOILER NUM....3
BOILER USE....ST

BURNER TYPE.....GAS RING
BOILER TYPE.....WATER TUBE
BOILER MODEL.....

SERIAL NUM....12330

NAT BOARD NUM.....

INSPECTION DATE....NOV 87
FUEL ATOMIZATION...
OP PRESSURE.....450 PSI
FIRING TYPE.....

DESIGN PRESSURE...400 PSI
DRAFT.....

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10100602	NATURAL GAS	BOILER<100 MBTU			

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...004 SIC...4911 ELEC. POWER GENERATION BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....CLEAVER BROOKS BOILER
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1 COMPLIANCE SCHEDULE BLDG# PROP REC#
IN COMPLIANCE 160

PERMIT/REGIS REQD...YES

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 CLEAVER BROOKS BOILER #4 - ONE OF FOUR BOILERS
0011 LOCATED AT BUILDING 160 (CENTRAL POWER PLANT).
0020 SEE NAPSIS POINT 001 FOR ADDITIONAL REMARKS.
0030 POC: JOHN WHITE, X-3230.
0040 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10100602	NATURAL GAS	BOILER<100 MBTU

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1984			.0	.0

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
23	24	29	24	24.0	7	39

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY...B ANNUAL...BURNED
.050 KGALS KGALS 327.90 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.8	3 FACTOR TABLE
NOX	105.000		17.2	3 FACTOR TABLE
PART	13.000	S	2.1	3 FACTOR TABLE
SOX	159.000	S	26.1	3 FACTOR TABLE
THC	1.000		.2	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS BOILER<100 MBTU
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.025 MCF .051 MCF 165.55 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		1.4	3 FACTOR TABLE
NOX	180.000		14.9	3 FACTOR TABLE
PART	10.000		.8	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	1.000		.1	3 FACTOR TABLE

POINT ID...004 SIC...4911 ELEC. POWER GENERATION BOILER

CAPACITY..... 63.5 MBTU/HR

STACK HEIGHT..... 61 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....42.0 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE...

BURNER MFG....CLEAVER BROOKS
BOILER MFG....CLEAVER BROOKS
BOILER NUM....4
BOILER USE....ST

BURNER TYPE.....GAS RING
BOILER TYPE.....WATER WALL
BOILER MODEL.....DL-68E

SERIAL NUM....WL-3228

NAT BOARD NUM.....

INSPECTION DATE....OCT 87
FUEL ATOMIZATION...
OP PRESSURE.....125 PSI
FIRING TYPE.....

DESIGN PRESSURE...260 PSI
DRAFT.....

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10100602	NATURAL GAS	BOILER<100 MBTU	.00	.0	1000

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...005 SIC...5171 STORAGE TANK

DATE ENTERED....17 FEB 1983 SOURCE TYPE....
DATE REVISED....15 AUG 1984 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		302	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
40301019	FIXED ROOF	DIST FUEL #2

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES	
			HORIZONTAL	VERTICAL
JAN 1952				

% ANNUAL USE				NORMAL OPERATING HOURS		
DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	HRS/DAY	DAYS/WK	WKS/YR
00	00	00	00			

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....FIXED ROOF DIST FUEL #2
AVG HOURLY...* MAX HRLY...* ANNUAL...CAPACITY
******* ******* ********* KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
THC	1.400		.0	3 FACTOR TABLE

POINT ID...005 SIC...5171 STORAGE TANK

TANK TYPE...7 UNDERGROUND TANK SIZE.. 140.00 KGAL
VAPOR REC...
TK HEIGHT... FT TK DIAMETER.. FT TK SHAPE....

TK COLOR.... TK PNT COND... YR PAINTED..

TRUE VP..... PSIA REID VP..... PSI
AVE HT VAPOR SP.... FT LIQUID TEMP..... DEG F
FILL TYPE..... MAX FILL RATE..... KGAL/MIN

Larry Bunn
SCDHEC
734-4527

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...006 SIC...5171 STORAGE TANK

DATE ENTERED....17 FEB 1983 SOURCE TYPE....
DATE REVISED....15 AUG 1984 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		94	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1941				

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
50	50	00	00	24.0	7	26

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL

AVG HOURLY...*	MAX HRLY...*	ANNUAL...BURNED
*******	*******	******** KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.0	3 FACTOR TABLE
NOX	105.000		.0	3 FACTOR TABLE
PART	13.000	S	.0	3 FACTOR TABLE
SOX	159.000	S	.0	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

POINT ID...006 SIC...5171 STORAGE TANK

TANK TYPE...1 FIXED ROOF TANK SIZE.. 198.00 KGAL
VAPOR REC...
TK HEIGHT... FT TK DIAMETER.. FT TK SHAPE....

TK COLOR.... TK PNT COND... YR PAINTED..

TRUE VP..... PSIA REID VP..... PSI
AVE HT VAPOR SP.... FT LIQUID TEMP..... DEG F
FILL TYPE..... MAX FILL RATE..... KGAL/MIN

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...007 SIC...5171 STORAGE TANK

DATE ENTERED....17 FEB 1983 SOURCE TYPE....
DATE REVISED....15 AUG 1984 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		95	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1941				

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
50	50	00	00	24.0	7	26

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...* MAX HRLY...* ANNUAL...BURNED
******* ******* ******** KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.0	3 FACTOR TABLE
NOX	105.000		.0	3 FACTOR TABLE
PART	13.000	S	.0	3 FACTOR TABLE
SOX	159.000	S	.0	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

POINT ID...007 SIC...5171 STORAGE TANK

TANK TYPE...1 FIXED ROOF TANK SIZE.. 214.00 KGAL
VAPOR REC...
TK HEIGHT... FT TK DIAMETER.. FT TK SHAPE....

TK COLOR.... TK PNT COND... YR PAINTED..

TRUE VP..... PSIA REID VP..... PSI
AVE HT VAPOR SP.... FT LIQUID TEMP..... DEG F
FILL TYPE..... MAX FILL RATE..... KGAL/MIN

FM26P(27MAR83

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...008 SIC...5171 STORAGE TANK

DATE ENTERED....17 FEB 1983 SOURCE TYPE....
DATE REVISED....15 AUG 1984 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		97	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES	
JAN 1946			HORIZONTAL	VERTICAL

% ANNUAL USE				NORMAL OPERATING HOURS		
DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	HRS/DAY	DAYS/WK	WKS/YR
50	50	00	00	24.0	7	26

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL

AVG HOURLY...*	MAX HRLY...*	ANNUAL...BURNED
*******	*******	******** KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.0	3 FACTOR TABLE
NOX	105.000		.0	3 FACTOR TABLE
PART	13.000	S	.0	3 FACTOR TABLE
SOX	159.000	S	.0	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

POINT ID...008 SIC...5171 STORAGE TANK

TANK TYPE...1 FIXED ROOF TANK SIZE.. 198.00 KGAL
VAPOR REC...
TK HEIGHT... FT TK DIAMETER.. FT TK SHAPE....

TK COLOR.... TK PNT COND... YR PAINTED..

TRUE VP..... PSIA REID VP..... PSI
AVE HT VAPOR SP.... FT LIQUID TEMP..... DEG F
FILL TYPE..... MAX FILL RATE..... KGAL/MIN

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...009 SIC...5171 STORAGE TANK

DATE ENTERED....17 FEB 1983 SOURCE TYPE....
DATE REVISED....15 AUG 1984 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		1013	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL

FM24F/27MAR83

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES	
JAN 1957			HORIZONTAL	VERTICAL

% ANNUAL USE				NORMAL OPERATING HOURS		
DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	HRS/DAY	DAYS/WK	WKS/YR
50	50	00	00	24.0	7	26

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL

AVG HOURLY...*	MAX HRLY...*	ANNUAL...BURNED
*******	*******	******** KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.0	3 FACTOR TABLE
NOX	105.000		.0	3 FACTOR TABLE
PART	13.000	S	.0	3 FACTOR TABLE
SOX	159.000	S	.0	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

POINT ID...009 SIC...5171 STORAGE TANK

TANK TYPE...1 FIXED ROOF TANK SIZE.. 47.00 KGAL
VAPOR REC...
TK HEIGHT... FT TK DIAMETER.. FT TK SHAPE....

TK COLOR.... TK PNT COND... YR PAINTED..

TRUE VP..... PSIA REID VP..... PSI
AVE HT VAPOR SP.... FT LIQUID TEMP..... DEG F
FILL TYPE..... MAX FILL RATE..... KGAL/MIN

FM20P(27MARB3)

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...010 SIC...5541 GAS STATION

DATE ENTERED....17 FEB 1983 SOURCE TYPE....EXCHANGE GAS STATION
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		404	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 EXCHANGE GAS STATION LOCATED AT BUILDING 404.
0020 **** VOC SOURCE: IN COMPLIANCE, VOC EMISSION
0021 RATE - 8.7 TONS/YR. ****
0030 STATION DISPENSES REGULAR, REGULAR UNLEADED AND
0031 SUPER UNLEADED GASOLINE WHICH ARE STORED IN
0032 THREE 10,000 GALLON UNDERGROUND TANKS.
0040 LEAK DTECTION TO BE INSTALLED BY DECEMBER, 1989.
0050 TANKS HAVE CATHODIC PROTECTION AND ARE DOUBLE
0051 LINED.
0060 POC: PHONE, X-2248.
0070 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
40600302	GAS RETAIL OPER	SUBMERGED FILL

POINT ID...010 SIC...5541 GAS STATION

TYPE OF VAPOR RECOVERY....K NONE

NOZZLES	GASOLINE	QUANTITY
NUMBER..12	REGULAR.....	72 KGALS
MAKE....OPW	UNLEADED.....	453 KGALS
MODEL...11A	PREMIUM.....	350 KGALS
	DIESEL.....	KGALS

TANKS

NUMBER	SIZE	NUMBER	SIZE
3	10		

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1985				

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
25	25	25	25	15.0	7	52

EFD1....VOC EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....GAS RETAIL OPER SUBMERGED FILL

AVG HOURLY...B	MAX HRLY...B	ANNUAL...THROUGHPUT
.160 KGALS	KGALS	874.50 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
THC	18.000		7.9	3 FACTOR TABLE

FM24P/27MAR83

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...011 SIC...5541 GAS STATION

DATE ENTERED....17 FEB 1983 SOURCE TYPE....GOV'T VEHICLE GAS STATION
DATE REVISED....20 DEC 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		170	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 GOVERNMENT VEHICLE GAS STATION LOCATED AT
0011 BUILDING 170.
0020 **** VOC SOURCE: IN COMPLIANCE, VOC EMISSION
0021 RATE - 1.5 TONS/YR. ****
0025 THROUGHPUT SHOWN IN SCC DESCRIPTION FIELD ON PAGE
0026 2 IS FOR GASOLINE ONLY - DOES NOT INCLUDE
0027 DIESEL.
0030 DISPENSE DIESEL AND REGULAR UNLEADED FUEL STORED
0031 IN ABOVEGROUND TANKS LOCATED NEXT TO BUILDING
0032 176. TANKS ARE SURROUNDED BY 5 FT HIGH, CINDER
0033 BLOCK CONTAINMENT BERM (STRUCTURE NO.96).
0040 TANKS 1-4 STORE UNLEADED FUEL AND TANK 5 STORES
0041 DIESEL FUEL (ALL TANKS ARE BOTTOM FILL).
0050 STATION HAS THREE PUMPS: ONE FOR DIESEL AND TWO
0051 FOR UNLEADED - EACH HAS ONE NOZZLE. CURRENTLY
0052 ONE UNLEADED PUMP IS OUT OF SERVICE. BOTH
0053 UNLEADED PUMPS WILL BE REPLACED BEFORE JUNE 89.
0060 POC: MR. HAINES, X-2661.
0070 END NAPSIS UPDATE APRIL 1989.

FM24F(27MAR83)

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
40600302	GAS RETAIL OPER	SUBMERGED FILL

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES	
JAN 1941			HORIZONTAL	VERTICAL

% ANNUAL USE				NORMAL OPERATING HOURS		
DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	HRS/DAY	DAYS/WK	WKS/YR
25	25	25	25	10.0	6	52

EFD1....VOC EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....GAS RETAIL OPER SUBMERGED FILL

AVG HOURLY...B	MAX HRLY...B	ANNUAL...THROUGHPUT
.047 KGALS	KGALS	147.77 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
THC	18.000		1.3	3 FACTOR TABLE

POINT ID...011 SIC...5541 GAS STATION

TYPE OF VAPOR RECOVERY....K NONE

NOZZLES	GASOLINE	QUANTITY
NUMBER.. 3	REGULAR.....	KGALS
MAKE....OPW	UNLEADED.....	148 KGALS
MODEL...11A	PREMIUM.....	KGALS
	DIESEL.....	70 KGALS

TANKS

NUMBER	SIZE	NUMBER	SIZE
5	10		

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...015 SIC...7216 DRY CLEANING

DATE ENTERED....17 FEB 1983 SOURCE TYPE....DRY CLEANING PLANT
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1 COMPLIANCE SCHEDULE BLDG# PROP REC#
IN COMPLIANCE 193

PERMIT/REGIS REQD...NO

PCR# STATUS PCR# STATUS

REMARKS:

0010 DRY CLEANING PLANT LOCATED AT BUILDING 193.
0020 **** VOC SOURCE: IN COMPLIANCE, VOC EMISSION
0021 RATE - 6.5 TONS/YR. ****
0030 DRY CLEANERS OPEN SIX DAYS A WEEK BUT CLEANING
0031 MACHINES USED ONLY ON WEEKDAYS.
0040 COMPLETELY ENCLOSED CYCLE: DRYER - VAPOR ABSORBER
0041 RECYCLE PERCHLOROETHYLNE.
0050 DO SIXTEEN TO TWENTY 70 LB LOADS A DAY. USE
0060 APPROXIMATELY 400 GALLONS PERCHLOROETHYLNE
0061 EVERY TWO TO THREE MONTHS.
0070 POC: MR GOSWICK, X-2760.
0080 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
40100103	DRY CLEANING	PERCHLOROETHYLNE

FM2SP127MAR83

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES	
JAN 1955			HORIZONTAL	VERTICAL

% ANNUAL USE				NORMAL OPERATING HOURS		
DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	HRS/DAY	DAYS/WK	WKS/YR
25	25	25	25	8.0	5	52

EFD1....VOC EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....DRY CLEANING PERCHLOROETHYLNE

AVG HOURLY...A	MAX HRLY...A	ANNUAL...CONSUMED
.001 TONS	.025 TONS	2.00 TONS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
PART	.000		.0	3 FACTOR TABLE
THC	2000.000		2.0	3 FACTOR TABLE

POINT ID...015 SIC...7216 DRY CLEANING

TRUE VP.....*** PSIA

FM2RP/27MARB1

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...017 SIC...4961 HEAT & STEAM PLANT BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....KEELER BOILER
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		1012	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 KEELER BOILER #11 - ONE OF THREE LOCATED AT
0011 BUILDING 1012 (RIFLE RANGE).
0020 PROPERTY NO. 11.
0030 THE FOLLOWING REMARKS ALSO APPLY TO NAPSIS POINTS
0031 018 AND 019.
0040 AIR PERMIT #: 0360-0002 (EXPIRES MAY 31, 1993).
0050 RUN ONE BOILER IN SUMMER AND TWO IN WINTER. USED
0051 FOR HEATING AND COOKING ONLY.
0060 PRIMARY FUEL IS NATURAL GAS - ALTERNATE IS NO.6
0061 FUEL OIL.
0070 POC: JOHN WHITE, X-3230.
0080 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10300602	NATURAL GAS	10-100 MBTU/HR

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1957			.0	.0

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
34	27	14	25	24.0	7	24

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY... ANNUAL...BURNED
.021 KGALS 84.00 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.2	3 FACTOR TABLE
NOX	105.000		4.4	3 FACTOR TABLE
PART	13.000	S	.5	3 FACTOR TABLE
SOX	159.000	S	6.7	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS 10-100 MBTU/HR
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.006 MCF .020 MCF 26.81 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		.2	3 FACTOR TABLE
NOX	180.000		2.4	3 FACTOR TABLE
PART	10.000		.1	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	3.000		.0	3 FACTOR TABLE

POINT ID...017 SIC...4961 HEAT & STEAM PLANT BOILER

CAPACITY.... 20.0 MBTU

STACK HEIGHT..... 35 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....27.6 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE.....

BURNER MFG.....COEN
BOILER MFG.....KEELER
BOILER NUM.....11
BOILER USE.....ST

BURNER TYPE...GAS RING
BOILER TYPE...WATER TUBE
BOILER MODEL..DK-9-6

SERIAL NUM.....1335103

NAT BOARD NUM.....

INSPECTION DATE....
FUEL ATOMIZATION...B STEAM
OP PRESSURE.....125 PSI
FIRING TYPE.....

DESIGN PRESSURE.....200 PSI
DRAFT.....D FORCED

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10300602	NATURAL GAS	10-100 MBTU/HR	.00	.0	1000

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...018 SIC...4961 HEAT & STEAM PLANT BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....CLEAVER BROOKS BOILER
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		1012	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 CLEAVER BROOKS BOILER #12 - ONE OF THREE BOILERS
0011 LOCATED AT BUILDING 1012 (RIFLE RANGE).
0020 PROPERTY NO. 12.
0030 SEE NAPSIS POINT 017 FOR ADDITIONAL REMARKS.
0040 POC: JOHN WHITE, X-3230.
0050 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10300602	NATURAL GAS	10-100 MBTU/HR

-SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1983			.0	.0

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
34	27	14	25	24.0	7	24

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY... ANNUAL...BURNED
.021 KGALS 84.00 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.2	3 FACTOR TABLE
NOX	105.000		4.4	3 FACTOR TABLE
PART	13.000	S	.5	3 FACTOR TABLE
SOX	159.000	S	6.7	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS 10-100 MBTU/HR
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.006 MCF .020 MCF 26.81 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		.2	3 FACTOR TABLE
NOX	180.000		2.4	3 FACTOR TABLE
PART	10.000		.1	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	3.000		.0	3 FACTOR TABLE

POINT ID...018 SIC...4961 HEAT & STEAM PLANT BOILER

CAPACITY.... 20.0 MBTU

STACK HEIGHT..... 35 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....27.6 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE.....

BURNER MFG.....CLEAVER BROOKS
BOILER MFG.....CLEAVER BROOKS
BOILER NUM.....12
BOILER USE.....ST

BURNER TYPE...GAS RING
BOILER TYPE...WATER TUBE
BOILER MODEL..D-34

SERIAL NUM.....WL 3179

NAT BOARD NUM.....

INSPECTION DATE....
FUEL ATOMIZATION...B STEAM
OP PRESSURE.....125 PSI
FIRING TYPE.....

DESIGN PRESSURE.....260 PSI
DRAFT.....D FORCED

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10300602	NATURAL GAS	10-100 MBTU/HR	.00	.0	1000

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...019 SIC...4961 HEAT & STEAM PLANT BOILER

DATE ENTERED....17 FEB 1983 SOURCE TYPE....CLEAVER BROOKS BOILER
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		1012	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 CLEAVER BROOKS BOILER #13 - ONE OF THREE BOILERS
0011 LOCATED AT BUILDING 1012 (RIFLE RANGE).
0020 PROPERTY NO. 13.
0030 SEE NAPSIS POINT 017 FOR ADDITIONAL REMARKS.
0040 POC: JOHN WHITE, X-3230.
0050 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
10100401	RESIDUAL OIL	GRADE 6, NORMAL
10300602	NATURAL GAS	10-100 MBTU/HR

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL
JAN 1983			.0	.0

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
34	27	14	25	24.0	7	24

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....RESIDUAL OIL GRADE 6, NORMAL
AVG HOURLY...B MAX HRLY... ANNUAL...BURNED
.021 KGALS 84.00 KGALS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	5.000		.2	3 FACTOR TABLE
NOX	105.000		4.4	3 FACTOR TABLE
PART	13.000	S	.5	3 FACTOR TABLE
SOX	159.000	S	6.7	3 FACTOR TABLE
THC	1.000		.0	3 FACTOR TABLE

SCC DESCRIPTION....NATURAL GAS 10-100 MBTU/HR
AVG HOURLY...C MAX HRLY...C ANNUAL...BURNED
.006 MCF .020 MCF 26.81 MCF

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	17.000		.2	3 FACTOR TABLE
NOX	180.000		2.4	3 FACTOR TABLE
PART	10.000		.1	3 FACTOR TABLE
SOX	.600		.0	3 FACTOR TABLE
THC	3.000		.0	3 FACTOR TABLE

FM2/6/27MAR83

POINT ID...019 SIC...4961 HEAT & STEAM PLANT BOILER

CAPACITY.... 20.0 MBTU

STACK HEIGHT..... 35 FT
STACK TEMP..... 425 DEG F
STACK VELOCITY.... FT/MIN
% EXCESS AIR.....

RD STACK DIAM.....27.6 INCHES
REC STACK DIM..... BY FT
EX FLOW RATE..... ACFM
COMMON STK SRCE.....

BURNER MFG.....CLEAVER BROOKS
BOILER MFG.....CLEAVER BROOKS
BOILER NUM.....13
BOILER USE.....ST

BURNER TYPE...GAS RING
BOILER TYPE...WATER TUBE
BOILER MODEL..D-34

SERIAL NUM.....WL 3178

NAT BOARD NUM.....

INSPECTION DATE....
FUEL ATOMIZATION...B STEAM
OP PRESSURE.....125 PSI
FIRING TYPE.....

DESIGN PRESSURE.....260 PSI
DRAFT.....D FORCED

SCC	SCC DESC-1	SCC DESC-2	% SULFUR	% ASH	HEAT CONTENT
10100401	RESIDUAL OIL	GRADE 6, NORMAL			
10300602	NATURAL GAS	10-100 MBTU/HR	.00	.0	1000

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...020 SIC...9999 MISC. SOURCE

DATE ENTERED....26 JUL 1989 SOURCE TYPE....CARPENTRY SHOP
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		450	

PERMIT/REGIS REQD...NO

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 PUBLIC WORKS CARPENTRY SHOP LOCATED AT
0011 BUILDING 450.
0020 MATERIALS USED:
0021 150 SHEETS PLYWOOD
0022 12,000 LINEAR FEET 2 X 4
0023 2,400 LINEAR FEET 5 1/4 X 1/2
0030 CYCLONE DUST COLLECTOR. HOPPER: 6 FT 8 IN X
0031 5 FT 6 IN X 5 FT. HOPPER EMPTIED ONCE A WEEK
0032 (ONLY 1/3 TO 1/2 FULL).
0040 EQUIPMENT OPERATING ABOUT 5 HOURS/DAY.
0050 VENTED EQUIPMENT: TABLE SAW, RADIAL ARM SAW,
0051 2 BAND SAWS, PLANER, SQUARE HOLE DRILL,
0052 AND BELT SANDER.
0055 STACK DIMENSIONS: 30 FT X 72 IN DIAMETER.
0060 POC: JOE SISTARE, 525-2192.
0070 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
30702099	FURN. MFG.	OTHER

FM28P27MAR83

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	UTM COORDINATES VERTICAL

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
25	25	25	25	8.0	5	52

EFD1.... EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....FURN. MFG.
AVG HOURLY...* MAX HRLY...* OTHER ANNUAL...PROCESSED
******* ******* ******** TONS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
CO	.000		.0	3 FACTOR TABLE
NOX	.000		.0	3 FACTOR TABLE
PART	.000		.0	3 FACTOR TABLE
SOX	.000		.0	3 FACTOR TABLE
THC	.000		.0	3 FACTOR TABLE

POINT ID...020 SIC...9999 MISC. SOURCE

% VOC MAT.....**

% VOC PHOTO CHEM CORP....**

--SOURCE INFORMATION REQUIRED--

UIC....M00263 MCRD/BEAUFORT PI, SC

POINT ID...021 SIC...3479 MISC. INDUST. PROCESS

DATE ENTERED....26 JUL 1989 SOURCE TYPE....PAINT BOOTH
DATE REVISED....26 JUL 1989 EMITTER TYPE...MINOR

SOURCE OWNER....M00263 MCRD/BEAUFORT PI, SC

COMPLIANCE STATUS...1	COMPLIANCE SCHEDULE	BLDG#	PROP REC#
IN COMPLIANCE		450	

PERMIT/REGIS REQD...

PCR#	STATUS	PCR#	STATUS

REMARKS:

0010 PUBLIC WORKS CARPENTRY SHOP PAINT BOOTH LOCATED
0011 AT BUILDING 450.
0020 **** VOC SOURCE: IN COMPLIANCE, VOC EMISSION
0021 RATE - 0.1 TON/YR. ****
0030 BOOTH SIZE: 10 FT X 10 FT X 6.5 FT HIGH.
0031 TYPE: WATER WASH.
0040 USE DEVILBISS PAINT GUNS.
0050 END NAPSIS UPDATE APRIL 1989.

--SOURCE PROCESS INFORMATION REQUIRED--

SCC	DESC-1	DESC-2
40200501	COAT APPL-GEN	ENAMEL

SIC 1792

--SOURCE INFORMATION OPTIONAL--

DATE CONST	EPA/STATE INSPEC	BLDG COL#	UTM COORDINATES HORIZONTAL	VERTICAL

% ANNUAL USE DEC/FEB	MAR/MAY	JUN/AUG	SEP/NOV	NORMAL OPERATING HOURS HRS/DAY	DAYS/WK	WKS/YR
25	25	25	25	2.0	1	52

EFD1....VOC EFD2.... EFD3....

--CONTROL EQUIP INFO OPTIONAL--

--MEASURED EMISSIONS OPTIONAL--

--PROCESS INFORMATION OPTIONAL--

SCC DESCRIPTION....COAT APPL-GEN ENAMEL
AVG HOURLY...A MAX HRLY...A ANNUAL...APPLIED
.002 TONS TONS .24 TONS

POLLUTANT	EMISS FAC	A/S	EST EMISS TONS/YR	EMISS/METHOD
PART	.000		.0	3 FACTOR TABLE
THC	840.000		.1	3 FACTOR TABLE

FM2&F27MAR83

POINT ID...021 SIC...3479 MISC. INDUST. PROCESS

STACK HEIGHT..... 24 FT
STACK TEMP..... 70 DEG F
STACK VELOCITY.... FT/MIN
NBR OF STACKS..... 1
% VOC MATERIAL....
SURFACE AREA VAPOR DEGREASER.... FT2

RD STACK DIAM.... INCHES
REC STACK DIM.... 1 BY 2 FT
EX FLOW RATE..... ACFM
%SOLID PAINT.....
%VOC PHOTO CHEM COMP....

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F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
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F55HOJ58   (V)  FORM=S240   18232JKL   END   JOB 3789   PRT /813   LINES=   1,196   3.02.13 PM 2
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