Environmental Health

OCT 29 1973

FERRO CORPORATION

J. E. Trygg

4150 East 56th Street
Cleveland Ohio 44105 U.S.A.
Telephone (216) 641-8580
Telex 98-5230

October 25, 1973

OCT 29 1973
Parker
Engelhardt
Von Bodungen, R
Gatzke
Von Bodungen, G
Ibanez
Steno
File

Mr. Arthur W. Busch
Regional Administrator
U. S. Environmental Protection Agency
Region VI
1600 Patterson Street, Suite 1100
Dallas, Texas 75201

Dear Mr. Busch:

Enclosed are six OMB Forms, Sections I through VI, and a drawing covering data you requested from our plant in Baton Rouge, Louisiana. This information represents our present operation.

Our liquid combustibles are now being engineered to add to our liquid boiler fuel and this will be operative in sixty days. This will eliminate all open burning.

We are engineering a system by which our hydrocarbon emissions will be used as fuel. This work will take six months.

It is to the best of our knowledge that these hydrocarbons emitted are unreactive in the formation of oxidants.

If you have any questions regarding these forms, please feel free to contact me at (216) 641-8580.

Very truly yours,

FERRO CORPORATION

M. Bozsin

M. Bozsin
Manager, Environmental
Control Laboratory

MB/lmd
Enclosures

DIVISION OF AIR CONTROL
AND OCCUPATIONAL HEALTH
OCT 29 1973
AM PM
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RECEIVED
AIR CONTROL SECTION
OCT 30 '73
TECHNICAL ASSISTANCE
FIELD INVESTIGATION

Date Report Submitted: October 26, 1973

ENVIRONMENTAL PROTECTION AGENCY
AIR POLLUTANT EMISSIONS REPORT
SECTION I - GENERAL INFORMATION

FORM APPROVED
OMB NUMBER 158-R75

For Official Use Only:

Date Sent: _____

Date Returned: _____

UTM Grid Coordinates: _____

SIC No: _____

Source ID: _____

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

Plant, institution, or establishment address: P.O. Box 263 (Street or Box Number) Baton Rouge (City) Louisiana (State) 7082[illegible] (Zip)

Person to contact regarding this report: Edward D. Grant, Jr. Title: Division Manager Telephone: 504-654-6801

Mailing address: P.O. Box 263 (Street or Box Number) Baton Rouge (City) Louisiana (State) 70821 (Zip)

Approximate number of employees at plant, institution, or establishment location: [x] Less than 100 [ ] 100 or more.

Elevation of plant, institution, or establishment in relationship to mean sea level: 80 feet above mean sea level, _____ feet below mean sea level

Information is representative of calendar year: 1973

Land area at plant location: 12.7 acres. Enclose a sketch of layout if there is more than one building.

Plant location: (give nearest cross streets, describe by landmarks or enclose a map, engineering drawing, or sketch) Highway 61 north at Irene Road (West of and adjacent to Kansas City Southern Railroad right-of-way and fronting on Irene Road).

Map enclosed

[ ] Air pollutants of the type indicated in the instructions for the completion of this report, i.e., _____ are not emitted at this plant, institution or establishment. Therefore, no other Sections of the report need be completed.

J. H. Dollinger (Signed) Vice President (Title)

J. H. Dollinger

Please return all sections of this report to: _____

Additional forms may be obtained from the above address.

NOTE: Please read reverse side of this page. Use additional sheets if necessary. Retain last copy.

Date Report Submitted:_____

ENVIRONMENTAL PROTECTION AGENCY
AIR POLLUTANT EMISSIONS REPORT

FORM APPROVED
OMB NUMBER 158-R75

SECTION II - FUEL COMBUSTION FOR GENERATION OF HEAT, STEAM, AND POWER

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

Normal operating schedule for fuel use: 24 Hours per day 7 Days per week 50 Weeks per year 8400 Hours per year.

Dates of annually occurring shutdowns of operations: 1 day every two months. Additional operating information enclosed ☐.

Source[a,e] Code	Number of Combustion Sources[b,e] (Boilers)	Size of Unit (Input)[c,e] 10^6BTU/hr.	Type of Unit[d,e]	Installation Date[e]	Percent Excess Air Used In Combustion (Design)[e]	Power Output Megawatts[f]
II-A	2	4	1 02 006 03	1969	3%	NA
II-B	2	1.3	Dowtherm Heaters	1970	3%	NA
II-C	1	1.5	H_2O Heaters	1970	3%	NA

a. List a separate code number to represent each source (e.g., II-a, II-b, II-c, etc.), then enter the same code number and the required data on the continuation c this Section on Page 3, and in Sections V and VI.

b. Multiple sources may be grouped if units are similar in size and type, burn the same fuel, or are vented to the same stack.

c. Nameplate data are sufficient (give rated or maximum capacity, whichever is greater).

d. Hand-fired, underfeed, overfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary o gun type oil burner; etc.

e. List separately future equipment and expected date of installation.

f. Power generation only.

NOTE: Please read reverse side of this page. Use additional sheets if necessary. Retain last copy.

Date Report Submitted:_____

ENVIRONMENTAL PROTECTION AGENCY
AIR POLLUTANT EMISSIONS REPORT

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SECTION II - FUEL COMBUSTION FOR GENERATION OF HEAT, STEAM, AND POWER (continued)

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

Source Code[a]	Type of Fuel[b]	Annual Consumption[c]					Hourly Consumption[d]		Percent Used for Space Heat	Heat Content BTU/Quan.[e]	Percent Sulfur[f]	Percent Ash (Solid Fuel Only)[e,f]	Delivered Cost of Fuel $/Quantity	Futu Use.
		Quantity[d]	Percent Distribution by Season											
			Spring March/ May	Summer June/ Aug.	Fall Sept./ Nov.	Winter Dec./ Febr.	Maximum $MMFt^3$	Average $MMFt^3$						
II-A	Nat. Gas	29,500	NA	NA	NA	NA	4.0	3.5	NA	1000/MFt^3	0.01	NA	$0.32/$MFt^3$	NA
II-B	Nat. Gas	8,000	NA	NA	NA	NA	1.3	1	NA	1000/MFt^3	0.01	NA	$0.32/$MFt^3$	NA
II-C	Nat. Gas	8,000	NA	NA	NA	NA	1.5	1	NA	1000/MFt^3	0.01	NA	$0.32/$MFt^3$	NA

a. List code numbers corresponding to each source referred to on page 2, (e.g., II-a, II-b, II-c, etc.), then enter required data on this page, and for the same c number sources in Sections V and VI.
b. Coke, bituminous coal, anthracite coal, lignite; No. 1, 2, 4, 5 and 6 fuel oil; natural gas; LPG; refinery or coke oven gas; residual coke; wood; bark, sludg etc. (Note: Indicate if two or more fuels are burned in the same boiler and provide all data pertinent to each fuel type.)
c. Fuel data are to be reported on an "as burned" basis.
d. Solid fuel, tons; liquid fuel, gallons; gaseous fuel, 1000 cubic feet.
e. If unknown, please give name and address of fuel supplier.
f. Sulfur and ash content for each fuel should be a weighted average.
g. Estimated percent increase or decrease in fuel usage (by fuel type) per year for the five years after the calendar year for which this report is completed. If crease is due to new equipment, please list this equipment separately on page 2 and the expected fuel use on this page.

NOTE. Please read reverse side of this page. Use additional sheets if necessary. Retain last copy.

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ENVIRONMENTAL PROTECTION AGENCY
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SECTION III - COMBUSTIBLE SOLID AND LIQUID WASTES DISPOSAL

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

Combustible solid and liquid wastes disposed of [X] on site, [ ] off site, [ ] both on and off site. If off site, location of disposal site and/or name of hauler:_____ (If disposal of solid and liquid wastes is partly or wholly on site, complete remainder of this page a Sections IV, V and VI; otherwise, skip to Section IV.)

Normal on-site combustion operating schedule: NA Hours per day variable Days per week variable Weeks per year variable Hours per year.

Seasonal and/or peak operation period: (Specify) NA

Dates of annually occurring shutdowns of operations: NA. Additional operating information enclosed [ ].

Source Code[a]	Waste Material			Method of Disposal[d]	Installation Date	Hourly Burning Rate, lbs.		Auxiliary Fuel Used[e]	Percent Excess Air Used in Combustion (Design)	Future Disposal
	Type[b]	Amount Per Year[c]	Percent Combustible			Average	Maximum			
III-A	Liquid waste	235 tons	99%	Open Pit Burning	1970	NA	NA	NA	NA	Boiler Fuel

a. List a separate code number to represent each source (e.g., III-a, III-b, III-c, etc.), then enter required data on this page and for the same code number sourc in Section V and VI.
b. Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.
c. Tons, pounds, or gallons/year.
d. Open burning dump; incinerator, single chamber; etc. (See instructions for examples and use appropriate identification numbers; other non-listed methods, specify
e. Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.
f. Estimated increase or decrease in combustible solid and liquid wastes disposal rate for the five years after the calendar year for which this report is complete. If increase is due to new equipment, please list this equipment separately.

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ENVIRONMENTAL PROTECTION AGENCY
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SECTION IV - PROCESS/OPERATIONS EMISSIONS

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

Normal operating schedule 24 Hours per day 7 Days per week 48 Weeks per year 8000 Hours per year.

Seasonal and/or peak operation period. _____

Dates of annually occuring shutdowns of operations: 2 Days every month. Additional operating information enclosed ☐.

Source Code[a]	Processes or Operations Releasing Pollutants to the Atmosphere[c]	Date Installation Went on Line	Raw Materials Used for Processes or Operations				Products of Processes or Operations				Intermittent Operation Only: Average Hours/week[h]	Future Increase Decrease in Process Rate
			Type	Quantity			Type	Annual Average[g] MM Lbs.	Quantity			
				Annual Average[g] MM Lbs.	Hourly Process Rate, lbs.				Hourly Process Rate, lbs.			
					Design	Maximum			Design	Maximum		
IV-A	Packed Tower	1969	Hydro	3.4	430	430	1,4 Dioxane	3.4	430	430	NA	NA
IV-B	Packed Tower	1970	Car-	3.7	210	210	2 Methyl 1,3 dioxolane	1.7	210	210	NA	NA
IV-C	Packed Tower	1972	bons	0.026	20	20	Vinyl Crotonate	0.026	20	20	NA	NA

a. List a separate code number to represent each source (e.g., IV-a, IV-b, IV-c, etc.) then enter required data on this page and for the same code number source in Sections V and VI.
b. Multiple sources may be grouped if similar in size and type.
c. Sulfuric acid-contact; aluminum smelting-crucible furnace; cement manufacturing-dry process; etc. (See instruction for examples and use appropriate identification numbers; other non-listed processes and operations, specify.)
d. The pollutants to be covered in this report are listed in the accompanying instructions.
e. Sulfur burned; pig, foundry returns, or scrap aluminum melted; limestone, cement rock, clay, iron ore used; etc.
f. Pounds, tons, gallons, barrels, etc.
g. Sulfuric acid produced; aluminum ingots produced; cement produced; etc.
h. For intermittent processes, indicate average number of hours per week of operation so that estimates of yearly emissions may be obtained.
j. Estimated percent increase or decrease in process rate on a total plant basis for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately.

NOTE. Please read reverse side of this page. Use additional sheets if necessary. Return last copy

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SECTION V - AIR CLEANING EQUIPMENT

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

Source Codes	Type of Air Cleaning Equipment[b,c]	Installation Date[c]	Pollutant Removed[c,d]	Efficiency[e]		Inlet Gas Temperature, °F	Inlet Gas Flow Rate,[f] CFM	Exit Gas Pressure, PSI
				Design Percent	Operating Percent			
NA	NA	NA	NA	NA	NA	NA	NA	NA

a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.

b. Wet scrubber, electrostatic precipitator, fabric filter, etc. (See instructions for examples and use appropriate identification numbers; other non-listed type, specif

c. Please list future equipment separately.

d. The pollutants to be covered in this survey are specified in the accompanying instructions.

e. Give efficiency in terms of pollutant removed.

f. At actual flow conditions.

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SECTION VI - STACK AND POLLUTANT EMISSIONS DATA

Plant, institution, or establishment name: Grant Chemical Division of Ferro Corporation

STACK DATA							ESTIMATE OF POLLUTANT EMISSIONS[e]			
Source Codes[a]	Height Above Grade ft.	Inside Diameter at Top, ft.	Exit Gas Velocity,[b] ft./sec.	Exit Gas Temperature,[b] °F	Exit Gas Flow Rate, CFM[c]		Pollutants[d]	Quantity		
					Average	Maximum		Tons Per Year	Lbs. Per Hour	
									Average	Maximum
II-A, B, C	Approp. 20 ft.	1	NA	350°F	NA	NA	None n	-	-	-
III-A	2 ft.	6	NA	NA	NA	NA	Particulates	0.5	0.1	0.2
IV-A, B, C	40 ft.	0.1	NA	Ambient	NA	NA	Hydrocarbons	48	11.4	17

a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.

b. Values should be representative of average flow conditions for hours of operation.

c. At actual flow conditions.

d. The pollutants to be covered in this survey are specified in the accompanying instructions.

e. Give stack test data if available (indicate stack sampling method used), otherwise, specify basis used. If unknown, please do not complete these columns.

NOTE: Please read reverse side of this page. Use additional sheets if necessary. Retain last copy.

Reference Sheet

REF+120522

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