

CC:- GLF, HJN
3/21/80

WILLIAM C. HULS
SECRETARY

DEPARTMENT OF NATURAL RESOURCES
OFFICE OF ENVIRONMENTAL AFFAIRS
AIR QUALITY DIVISION

B. JIM PORTER
ASSISTANT SECRETARY

March 20, 1980

Conoco Chemical Company, VCM Plant
P. O. Box 605
Westlake, Louisiana 70669

Re: Modification of existing VCM facility

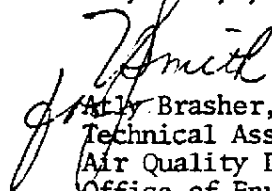
Dear Sir:

The above referenced permit request will be presented for public review at the Louisiana Environmental Control Commission Hearing. This hearing will be held at the Mineral Board Auditorium, Land and Natural Resources Building, 625 No. 4th. Street, Baton Rouge, Louisiana at 10:00 a.m.

Copies of the synopsis of the permit that will be presented to the Commission and will be a part of the certificate for approval of air emissions is included for your review. Any changes or corrections should be brought to the attention of the Technical Assistance Unit (568-5120) as soon as possible. A copy of the agenda is included.

We suggest that you or some other agency of your organization be present at this hearing to represent your organization's interests and to provide any additional information or answer questions which may be raised by the Commission members.

Very truly yours,


P. E. Brasher, P. E.
Technical Assistance Unit
Air Quality Division
Office of Environmental Affairs

AB/ys
encl.

VVC 000012940

LOUISIANA ENVIRONMENTAL CONTROL COMMISSION

AIR QUALITY DIVISION

CONOCO CHEMICAL COMPANY

LAKE CHARLES VCM PLANT
Westlake (Calcasieu)

This permit request by Conoco Chemicals Company, a Division of Conoco Inc., is for permission to modify its existing vinyl chloride monomer production facility located at Westlake in Calcasieu Parish to expand its production capacity from 700 million pounds per year to one billion pounds per year on an annualized basis.

The expansion will be accomplished by adding a parallel train to the VCM system and debottlenecking existing equipment. The technology will be based on a well proven system.

Process emissions will be controlled by recovering hydrocarbon as much as practical and then by incineration to meet the NESHAP Standard of less than 10 ppm VCM in any vent gas.

Process incinerators will be controlled with wet scrubbers and the new heater will use LoNO_x burners.

Sulphur oxide emissions will be controlled by using fuel of less than 0.7% sulfur content.

The debottlenecking techniques employed will result in hydrocarbon and CO being reduced by 4609 and 1768 tons per year respectively.

Dispersion modeling supplied by the company indicates that ambient air quality standards will not be violated.

Table I shows the effect of this plant expansion on emissions of the facility as a whole.

NSPS does not apply to this facility.

Recommendations - - - - - (See Approval)

JHS/ys

VVC 000012941

CONOCO CHEMICAL COMPANY

LAKE CHARLES VCM PLANT
Westlake (Calcasieu)

RECOMMENDATION:

Approval provided the following conditions are met.

- 1) The synopsis sheets and the attached data sheets establish the emission and operating limitations and are a part of the permit. The synopsis and data sheets are based on the application for approval of emissions dated February 5, 1980 with supplemental information submitted February 8, 1980. The application and supplemental information are also considered part of this permit by reference.
- 2) Construction must commence within two years after the date of approval.
- 3) The permittee will submit to the Technical Secretary semiannual reports of progress defining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect upon the emission rates or ambient air quality levels. Such reports shall continue to be submitted until such time as construction is certified as being complete.
- 4) Any emission testing performed for purposes of demonstrating compliance with the limitations set forth in Condition 1 shall be conducted in accordance with the methods described and referenced in Table 4 of the current Louisiana Air Control Commission Regulations.
- 5) The permittee shall, within 180 days after certifying the completion of construction prepare and submit to the Technical Secretary a report detailing the actual emission rates as compared to those limitations specified in Condition 1. The report shall also include, but not be limited to, malfunctions and upsets.

VVC 000012942

LOUISIANA ENVIRONMENTAL CONTROL COMMISSION

Air Quality Data Sheet

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CONOCO CHEMICAL COMPANY

Westlake (Calcasieu)

Location of plant: 15 UTM 472.9 Km E 3346.5 Km N

Description of location: 2 miles north, intersection of Truesdale Road and
Old Spanish Trail

Estimated starting date of construction: April 1981 Estimated date operation will begin: November 1982

Type of Dispersion Calculations Used: CRSTER

EFFECTS OF AMBIENT AIR

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Control Commission Standard
NOx	Annual	4 ug/M ³	100
SO ₂	Ann/24/8	1/6/14 ug/M ³	80/365/1300
CO	8/1	3/6 ug/M ³	10000/40,000
Part	Annual/24	3/24 ug/M ³	75/260

NEW ☐ OR MODIFIED ☒ EMISSION SOURCES

VCM Plant
(Type of Source)

Stack I.D. #	Description	Operating Rate (Maximum)	Operating Schedule		
			Hrs/Day	Days/Wk	Wks/Yr
IIA	Cracking Furnace	17607 CFM	24	7	49
IIB	Cracking Furnace	17607 CFM	24	7	49
IIC	Cracking Furnace	22375 CFM	24	7	48
IV-J	Dock EDC Tank	6 CFM	24	7	52
IV-K	Dock VCM Vent	316 CFM	3	1	52
V-A	Vent Incinerator	28817 CFM	24	7	52

VVC 000012943

LOUISIANA ENVIRONMENTAL CONTROL COMMISSION

Air Quality Data Sheet - Page 2

Conoco Chemical Company (Lake Charles VCM Plant)
(Company's Name)

Westlake
(Nearest Town)

Calcasieu
(Parish)

EMISSIONS ARE LISTED USING THE UNITS LBS/HR

STACK ID	P E R M I T T E D E M I S S I O N S					Feet	F°	CFM
	TSP	SO ₂	NO _x	HC	CO	Height	Temperature	Flow Rate
IIA	1	1.1	12.9	0.2	1.0	120	550	17607
IIB	1	1.1	12.9	0.2	1.0	120	550	17607
IIC	7.3	17.3	6.7	1.5	2.0	120	550	22375
IV-J	-	-	-	11.9	-	35	85	6
IV-K	-	-	-	<0.1	-	148	75	316
V-A	21.6	0.6	35.7	3.7	0.7	75	125	28817

VVC 000012944

Jim DeBernardi

CONOCO

To Joe Tedvina

Date 8/5/80

I recieved this greeting in the mail today. Can you fill me in on what its all about? Is this something happening to all in the industry or is one location just lucky in being picked? I assume its all legal, but maybe the lawyers need to pass judgement. Sure looks like alot of fun.

CC:- GLF, HJN, JJH

File
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VVC 000012945