

RADIAN CORPORATION

AN AIR POLLUTION COMPLIANCE
ANALYSIS REPORT ON NINE
INDUSTRIES

VOLUME VI
PHOSPHATE FERTILIZER INDUSTRY

FINAL REPORT

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FINAL REPORT

Presented to:

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This report is one of nine furnished to the Environmental Protection Agency in fulfillment of contracts 68-02-1319, Task 16 and 68-02-1383, Task 11. The Project Officer was Mr. Robert C. Marshall, Division of Stationary Source Enforcement. This report does not necessarily represent the views or policies of the Agency.

FOREWORD

This study of phosphate fertilizer plants is one of nine concurrently accomplished tasks to locate individual plants and production rates, analyze processes and air emissions, and present compliance status data for nine large industries. The remaining eight, presented in individual volumes, are ferroalloy, portland cement, sulfuric acid, nitric acid, primary aluminum, coal cleaning, gray iron, and asphalt concrete. In this study, Radian considered only the process emission points for which EPA has published emission factors. One study estimated totals for the emission points of these nine industries to be 1,975,000 tons of particulates and 600,000 tons of sulfur dioxide in 1967 (LE-125). Another study estimated 1968 particulate emissions from these nine to be 1,850,000 tons (VA-091).

Program Manager for the entire nine industry task was Mr. C. P. Bartosh. Mr. B. P. Cerepaka was Task Director. Other staff contributing to this study on phosphate fertilizer plants were Mr. T. D. Raye and Mr. L. T. Pless.

ABSTRACT

The following study involved the phosphate fertilizer industry in the United States. The goals of the study were to locate all production facilities, obtain all available process and emissions data, compute allowable particulate emissions from the SIPs, and determine the compliance status from the Compliance Data System (CDS) and, if needed, regional office files.

Radian located two-hundred sixty-one production facilities including a number of small normal superphosphate plants which are probably closed. In 1973 total United States production at 92 plants was 619,000 tons normal superphosphate, 1,693,000 tons triple (concentrated) superphosphate, and 2,919,000 tons of ammonium phosphates. Names and location of these 92 producing plants are not disclosed by the census bureau so Radian could not specify which of the 261 located in this study actually were producing in 1973. Allowable and potential emissions were not calculated due to incomplete process data for individual plants. Total actual emissions were also not available from the data gathered for individual plants. One study estimated particulate emissions from the phosphate fertilizer industry in 1968 to be 210,000 tons with a 80% control on rock pulverizing operations and 90% control on reactors, granulators, and dryers (VA-097). Another study estimated total particulate emissions in 1967 to be 260,000 tons with an overall control of 89% (LE-125).

For the two-hundred sixty-one existing plants, eighteen (7%) were reported to be in compliance, ten (4%) out of compliance, and two-hundred thirty-three (89%) unknown. These categories are subdivided, as follows: fourteen plants (5%) were in compliance with emission limitations as determined by source test, inspection, or state certification, four plants (2%) were in

compliance with the increments of progress of a schedule, six plants (2%) was out of compliance with emission limitations, four plants (2%) were out of compliance with the increments of progress of a compliance schedule, one-hundred ninety-seven plants (75%) had unknown status with respect to emission limitations, and thirty-six plants (14%) had unknown compliance with increments of progress of a schedule. Table 2.6-1a showing the compliance status breakdown by region follows this page for easy reference.

TABLE 6.2-1a.
EXISTING PHOSPHATE FERTILIZER PLANTS
CATEGORICAL SUMMARY OF COMPLIANCE STATUS BY REGION

MAY, 1975

<u>REGION</u>	<u>IN</u>	<u>OUT</u>	<u>UNKNOWN</u>	<u>TOTAL</u>
	<u>IN COMPLIANCE EMISSION LIMITATION</u>	<u>OUT OF COMPLIANCE EMISSION LIMITATION</u>	<u>UNKNOWN COMPLIANCE EMISSION LIMITATIONS</u>	
I	0	0	0	3
II	1	0	1	5
III	3	0	0	16
IV	0	0	0	117
V	3	1	1	53
VI	0	2	3	35
VII	4	0	0	15
VIII	0	0	0	3
IX	1	1	0	8
X	2	0	1	6
	<u>14</u>	<u>4</u>	<u>6</u>	<u>261</u>
<u>TOTAL</u>	<u>(5%)</u>	<u>(2%)</u>	<u>(2%)</u>	<u>(14%)</u>
<u>TOTAL</u>	18	10	233	261
	(7%)	(4%)	(89%)	

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INTRODUCTION

The major goals of this study of phosphate fertilizer producers were to (1) locate all phosphate fertilizer plants; (2) gather data on processes, production, and emissions; (3) calculate allowable emissions based on state implementation plans (SIPs); and (4) determine each source's compliance status as given in the Compliance Data System (CDS) or through contact with the regional offices. Obtaining plant sizes and location were the primary goals.

The format of this report is as follows:

- The remainder of this section presents a definition and characterization of the industry and future trends expected.
- Section 2 describes the production of the three types of phosphate fertilizer.
- Section 3 describes air pollutant emissions and control devices.
- Section 4 is a summary of the SIP regulations applicable to phosphate fertilizer plants.
- Section 6 presents the data gathered for individual plants and also summaries.

1.1

Industry Definition and Characterizations

This study is directed toward the domestic producers of the phosphate fertilizers: normal superphosphates, triple

(or concentrated) superphosphates, and ammonium phosphates. Establishments which only mix or blend fertilizer materials are not considered. There are differences both in the methods of manufacturing and the percent phosphate (P_2O_5) in the final products among these three classes of fertilizers. Normal superphosphates average 19 percent P_2O_5 content, triple superphosphates average 48 percent P_2O_5 , and ammonium phosphates average 46 percent P_2O_5 . All three are classified by the Standard Industrial Classification Manual 1972 by SIC code 2874: phosphatic fertilizers. The 1967 SIC code for phosphatic fertilizers was 2871.

1.2 Production and Capacity

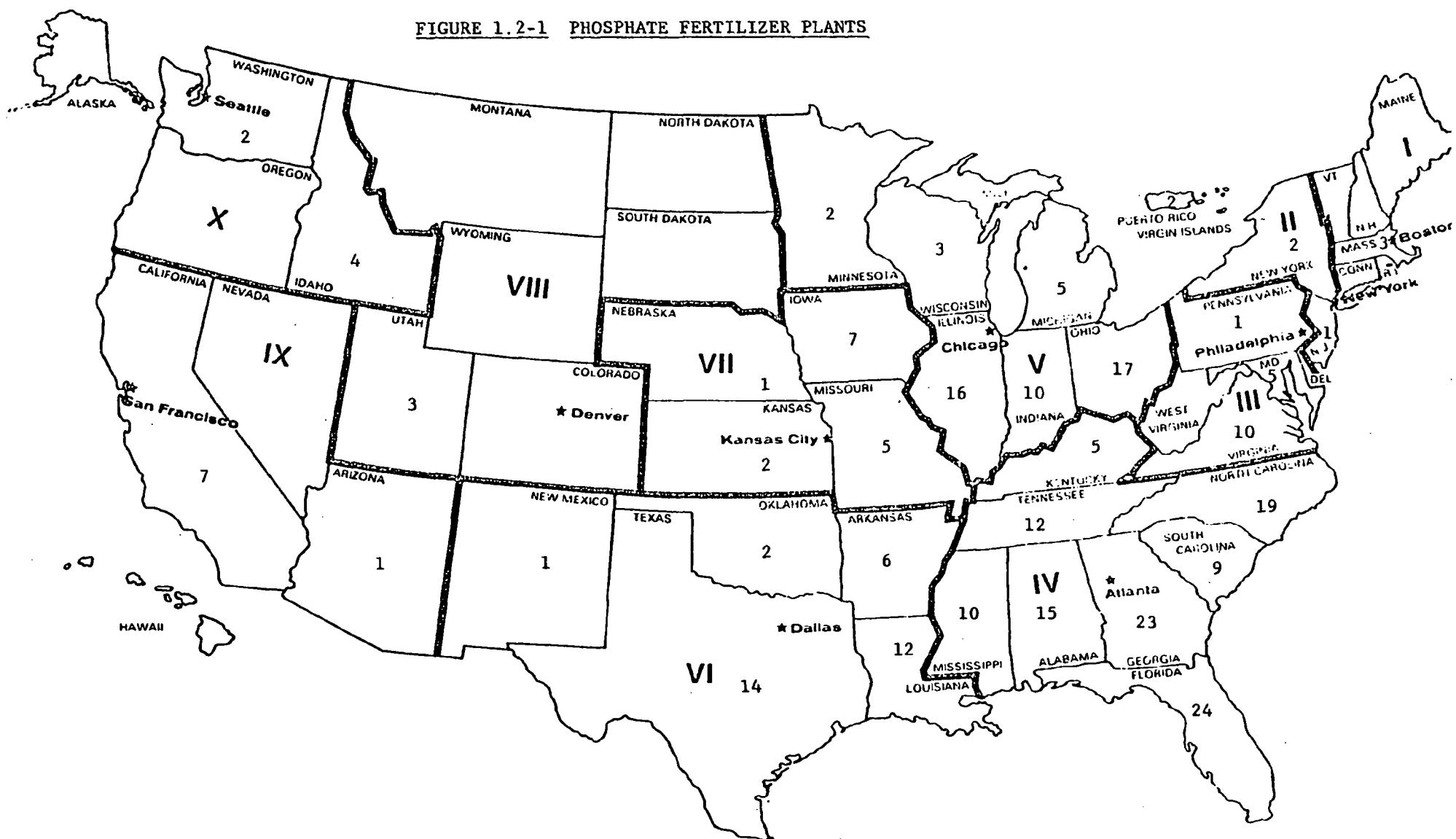
The raw material for all phosphate fertilizers is phosphate rock. Although this report deals strictly with phosphate fertilizer production plants, it is pertinent that in 1970 there were only four production areas of phosphate ores in the United States (KE-134). Table 1.2-1 lists the phosphate rock production capacity by company in the United States (HA-309). As would be expected the phosphate fertilizer plants are geographically located near these ore production areas to minimize transportation costs. The four ore producing areas are Florida, the western states (mainly Idaho and Montana), Tennessee, and North Carolina. Of the 261 plants located in this study, 117 were located in Region IV alone, thus indicating the importance of that area as a fertilizer producer. The geographical locations of all plants that were located are presented in Figure 1.2-1. The actual number of producing plants reported by the Bureau of Census for 1973 was only 92. Radian was unable to determine which of the 261 plants located in this study were actually operating in 1973 because the Census Bureau will not divulge the name and addresses of the plants in their survey. Many of the plants located in this study were small normal superphosphate plants which are probably now closed.

TABLE 1.2-1

PHOSPHATE ROCK PRODUCTION CAPACITY¹

<u>Company</u>	<u>Location</u>	1972	1973	1974	1975	1976
(thousands of short tons of material)						
Agrico Chemical Co.	Pierce, Fla.	6,100	6,100	6,100	8,600	9,100
American Cyanamid Co.	Brewster, Fla.	1,300	1,300	1,300	1,300	1,300
	Bradley, Fla.	1,500	1,500	1,500	1,500	1,500
Beker Industries	Dry Valley, Idaho	-	1,800	1,800	2,000	2,000
Borden Chemical Co.	Teneroc, Fla.	1,000	1,000	1,000	1,000	1,000
Cominco-American	Garrison, Mont.	750	750	750	750	750
Gardinier	Ft. Meade, Fla.	2,000	2,000	2,000	2,000	2,000
W.R. Grace & Co.	Bonny Lake, Fla.	2,300	2,300	2,300	2,300	2,300
Hooker Chemical Corp.	Columbia, Tenn.	750	750	750	750	750
IMC Corp.	Kingsford, Fla.	2,000	2,000	2,000	2,000	2,000
	Bonnie, Fla.	6,700	6,700	7,700	9,000	9,000
Mobil Chemical Co.	Mt. Pleasant, Tenn.	200	200	200	200	200
	Ft. Meade, Fla.	4,500	4,500	4,500	4,500	4,500
Monsanto Co.	Columbia, Tenn.	1,000	1,000	1,000	1,000	1,000
	Ballard, Idaho	1,000	1,000	1,000	1,000	1,000
Occidental Ag. Chem.	White Springs, Fla.	2,600	2,600	3,100	3,100	3,100
	Columbia, Tenn.	750	750	750	750	750
Presnell Phosphate	Cojumbia, Tenn.	700	700	700	700	700
George Relyea Co.	Garrison, Mont.	100	100	100	100	100
J.R. Simplot Co.	Conda, Idaho	1,000	1,000	1,000	1,000	1,000
	Fort Hall, Idaho	1,000	1,000	1,000	1,000	1,000
Stauffer Chemical	Mt. Pleasant, Tenn.	600	600	600	600	600
	Leefe, Wyo.	500	500	500	500	500
	Melrose, Mont.	600	600	600	600	600
	Cherokee, Utah	400	400	400	400	400
	Vernal, Utah	300	300	300	300	300
Swift and Co.	Watson, Fla.	3,000	3,000	3,000	3,000	3,000
Tenn. Valley Auth.	Franklin, Tenn.	200	200	200	200	200
TGS Inc.	Lee Creek, N.C.	3,000	3,000	3,000	3,000	4,000
U.S.S. Agri-Chem.	Ft. Meade, Fla.	2,800	2,800	2,800	2,800	2,800
Florida & N.C.		38,800	38,800	40,300	44,100	45,600
Tennessee		3,450	3,450	3,450	3,450	3,450
Western States		5,650	7,450	7,450	7,650	7,650
TOTAL		47,900	49,700	51,200	55,200	56,700

FIGURE 1.2-1 PHOSPHATE FERTILIZER PLANTS



In recent years the phosphate fertilizer industry has developed a favorable economic climate. Until six years ago there was an oversupply of phosphate fertilizer. Consequently, there was little expansion in the industry and when demand picked up around the early 1970's, a shortage resulted for phosphate fertilizers. This shortage along with the impetus of more exports has initiated a large-scale expansion. The consumption of phosphate fertilizer in the United States has increased from 2,572,348 tons P₂O₅ in 1960 to 4,873,053 tons in 1972 (See Table 1.2-2).

The phosphate fertilizer industry is also experiencing a shift in product distribution. The production and use of normal superphosphate is declining while production and use of concentrated superphosphate and ammonium phosphate has steadily increased. For example, normal superphosphate production has declined from 1,270,000 tons P₂O₅ in 1960 to 619,000 tons in 1973 while concentrated superphosphate production increased from 986,000 tons P₂O₅ in 1960 to 1,693,000 tons in 1973 and ammonium phosphate production increased from 269,000 tons P₂O₅ in 1960 to 2,919,000 tons in 1973. Table 1.2-3 presents the production data of phosphate fertilizers from 1960 to 1973 (HA-309).

Though the demand for phosphate fertilizers is expected to continue increasing, (especially ammonium phosphates) production capacity of these fertilizers may not increase as rapidly. This expansion has been hurt by environmental questions, equipment delays, fear of overcapacity if demand again declines, and the competition with other industries for raw materials, such as phosphate rock (HA-309).

TABLE 1.2-2
U.S. PHOSPHATE FERTILIZER CONSUMPTION, SHORT TONS OF P₂O₅

<u>YEAR</u>	<u>SUPERPHOSPHATES CONSUMPTION¹</u>	<u>AMMONIUM PHOSPHATE CONSUMPTION</u>	<u>TOTAL CONSUMPTION</u>
1960	2,365,741	206,607	2,572,348
1961	2,393,205	251,880	2,645,085
1962	2,492,197	314,842	2,807,039
1963	2,689,929	382,944	3,072,873
1964	2,917,966	459,875	3,377,841
1965	3,005,718	506,489	3,512,207
1966	3,258,403	638,729	3,897,132
1967	3,629,475	675,213	4,304,688
1968	3,616,396	835,584	4,451,980
1969	3,734,335	931,234	4,665,569
1970	3,663,584	910,174	4,573,758
1971	3,809,627	993,816	4,803,443
1972	3,814,981	1,058,072	4,873,053

¹ Includes both normal and triple superphosphates.

Source: (HA-309)

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TABLE 1.2-3
U.S. PRODUCTION OF PHOSPHATE FERTILIZERS⁴, K TONS P₂O₅

<u>YEAR</u>	<u>SUPERPHOSPHATE</u>		<u>AMMONIUM PHOSPHATES</u>	<u>TOTAL</u>
	<u>NORMAL</u>	<u>CONCENTRATED²</u>		
1960	1,270	986	269	2,525
1961	1,247	1,024	370	2,641
1962	1,213	960	536	2,709
1963	1,227	1,113	891 ¹	3,231
1964	1,206	1,225	1,034 ¹	3,465
1965	1,113	1,466	1,081	3,660
1966	1,138	1,696	1,376	4,210
1967	1,184	1,481	1,747	4,412
1968	914	1,389	1,633	3,936
1969	807	1,354	1,844	4,005
1970	670	1,474	2,092	4,236
1971	626	1,513	2,360	4,499
1972	677	1,659	2,577	4,913
1973 ³	619	1,693	2,919	5,231

¹ Includes other types of phosphates such as nitric phosphates, etc.

² Triple superphosphate

³ Current Industrial Reports, Bureau of the Census, July 1974

⁴ Source: (HA-309)

2.0

PHOSPHATE FERTILIZER PRODUCTION PROCESSES

Phosphate rock directly from a mine is not suitable for phosphate fertilizer production. Therefore, the ore usually undergoes preparation at the site to remove impurities (called beneficiation), drying to remove moisture, and grinding to improve reactivity. The commercially saleable compound is tricalcium phosphate, also called bone phosphate of lime (BPL). Beneficiation increases the BPL of the rock up to about 68% from less than 40% thus allowing some of the lower grade ores to be commercially used (SH-177).

This upgraded ore is then used as the raw material for phosphate fertilizer production. The manufacturer of superphosphate involved four steps: (1) preparation of phosphate rock, (2) mixing with acid (acidulation), (3) curing and drying of the original slurry by completion of the reactions, and (4) excavation, milling, and bagging of the final product.

If sulfuric acid is used during the acidulation step, then normal superphosphate which contains 16 - 22% phosphoric anhydride (P_2O_5) is the final product. Triple (or concentrated) superphosphate is the produce resulting from the reaction between phosphate rock and phosphoric acid. The product generally contains 44 - 52% P_2O_5 , which is about three times the P_2O_5 usually found in normal superphosphates (EN-071).

Ammonium phosphates are reaction products from combining phosphoric acid, sulfuric acid, and anhydrous ammonia. The ammonium phosphates that precipitate from this reaction must be dried, cooled, and ground to the proper size. Ammonium phosphates are starting to displace the production of other phosphate fertilizers because ammonium phosphates have a higher plant food content and a lower shipping cost per unit weight of P_2O_5 .

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The three types of phosphate fertilizers are produced by two distinct types of production processes, distinguished by the method used to complete the chemical reactions required.

2.1 Normal Superphosphate and Run-of-the-Pile Triple Superphosphate

The process used to produce these two superphosphates differs only in that the normal superphosphate uses sulfuric acid as a raw material and ROP triple superphosphate uses phosphoric acid. (See Figure 2.1-1) In both, the acid is first mixed with phosphate rock. Then, the resultant slurry is sent through a den where the chemical reactions begin to produce the superphosphate. The slurry begins to solidify, forming chunks of superphosphate. Time required in the den varies from 1-4 hours. The material exits the den and is transferred to a storage facility for curing, a process which requires several weeks. Then the final product is sized and bagged for shipment.

2.2 Granular Triple Superphosphate and Diammonium Phosphate

Production of these two fertilizer materials is very similar in that both utilize a dryer to hasten the chemical reaction of the raw materials, thus avoiding the long curing step in the production of normal and ROP triple superphosphate. (See Figures 2.2-1 and 2.2-2) Granular triple, like ROP triple uses phosphate rock for a raw material, while ammonium phosphate requires ammonia feed, either gaseous or liquid. Both granular triple and diammonium uses phosphoric acid. The product of this quick drying method is harder, more uniform, and easier to handle than that of normal super and ROP triple superphosphate.

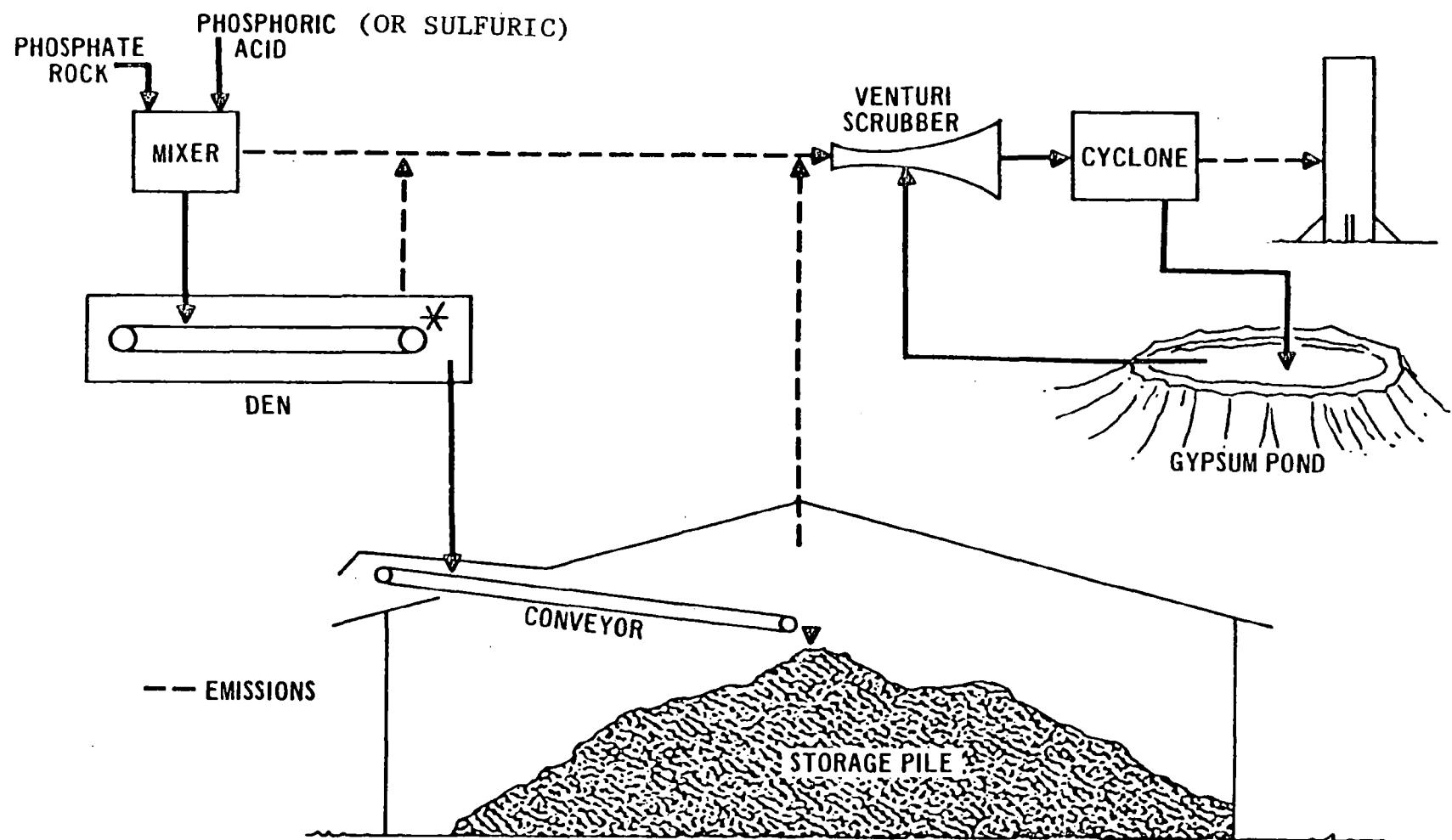


FIGURE 2.1-1

NORMAL SUPERPHOSPHATE OR RUN-OF-PILE TRIPLE SUPERPHOSPHATE PRODUCTION AND STORAGE

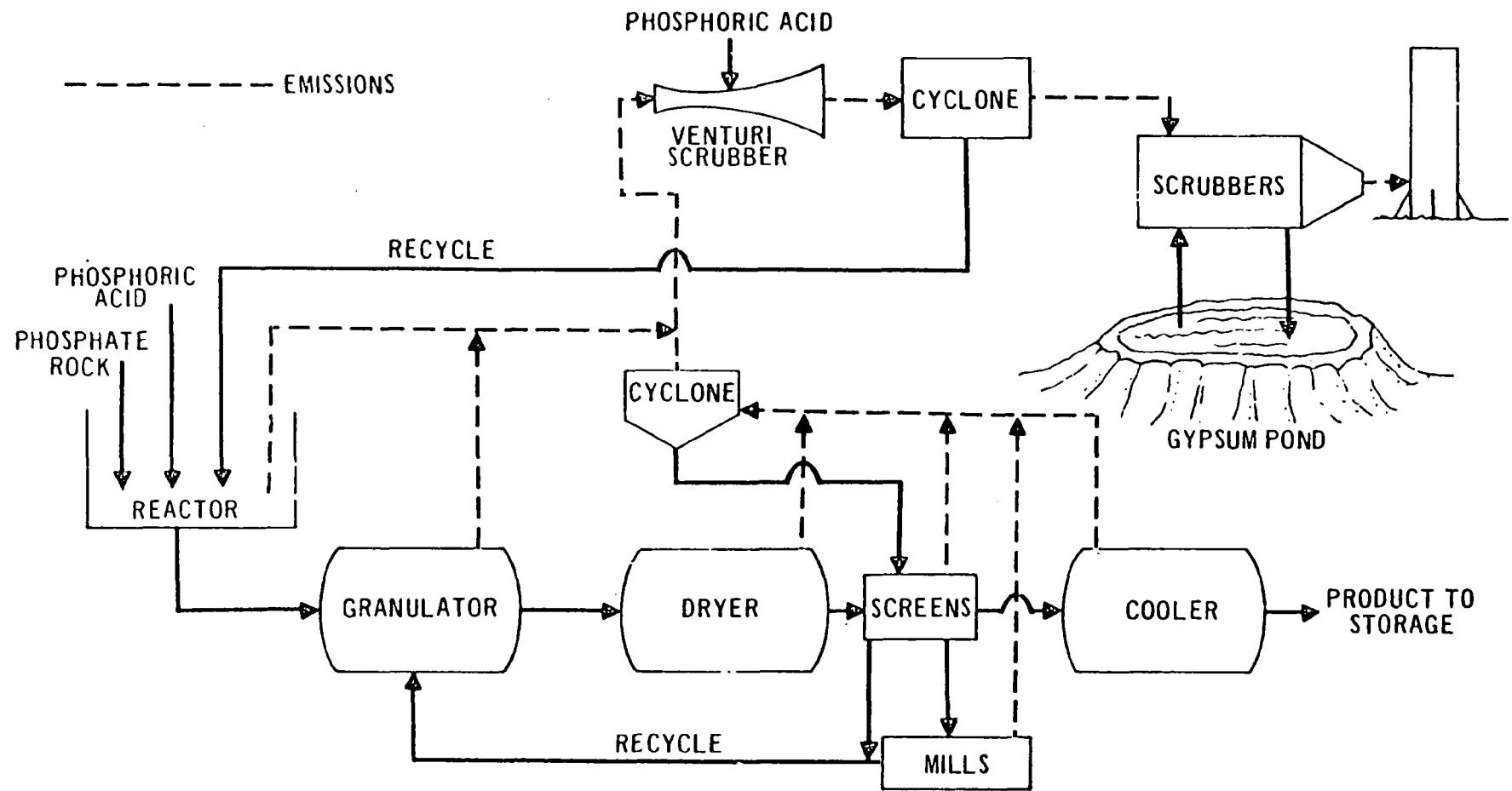


FIGURE 2.2-1
GRANULAR TRIPLE SUPERPHOSPHATE PRODUCTION
 (Source: EPA)

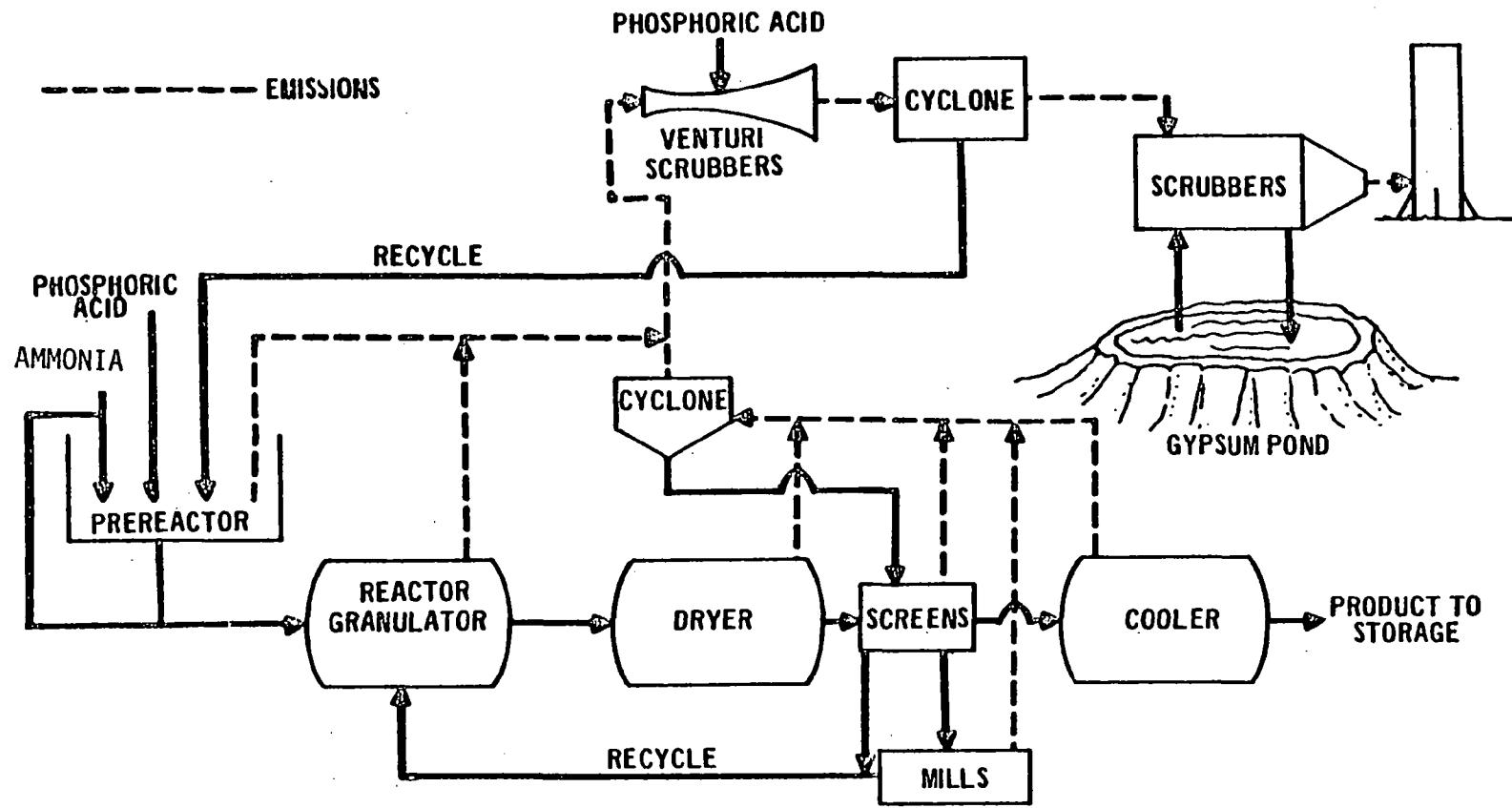


FIGURE 2.2-2
DIAMMONIUM PHOSPHATE PRODUCTION
(Source: EPA)

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3.0 EMISSIONS AND CONTROLS

3.1 Emission Sources

There are two direct sources of air pollution in the production of superphosphates. One source is the fumes emitted during the acidulation stage. The second source is the drying and grinding operation.

During acidulation, gases are released from the action of the acid on the phosphate rock. These gases contain considerable quantities of silicon tetrafluoride and particulate matter. The production of normal superphosphate also yields sulfur dioxide as a pollutant since H_2SO_4 is the acid employed.

Usually drying and grinding are integrated into the production operation, thus giving rise to air emissions from these sources. Such emissions may include particulates, ammonia, silicon tetrafluoride, hydrofluoric acid, ammonium chloride, and fertilizer dust.

Emissions from the production of ammonium phosphates are fluorides, particulates, and ammonia. Particulate emissions are generated from grinding of oversized pellets. Ammonia is given off from the ammoniator tank vents, and fluorides are emitted from the reaction vessel since the phosphoric acid used is impure and contains traces of fluorine (EN-071).

3.2 Potential Emissions

EPA has published emission factors for the production of the three phosphate fertilizers considered in this study (See Table 3.2-1). Potential (uncontrolled) particulate emissions

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from normal superphosphate drying, grinding operations are reported to be 9 lb/ton product; from diammonium phosphate dryer, cooler operations - 80 lb/ton product; and from diammonium ammoniator - granulator operations - 2 lb/ton product. Although no particulate emission factors for triple superphosphate production are listed, because of the similarity of production processes, it can be assumed that the emission factor for normal superphosphate drying, grinding operations would also be applicable to ROP triple superphosphate production. Also it can be assumed that the emission factor for diammonium phosphate dryer, cooler operations would be applicable to granular triple superphosphate production.

EPA has published fluoride emission factors for phosphate fertilizer production only from controlled sources. Normal superphosphate production is reported to have controlled total fluoride emissions which average 0.15 lb/ton of product. ROP triple superphosphate fluoride emissions are 0.03 lb/ton product; granular triple superphosphate fluoride emissions are 0.10 lb/ton product, and diammonium phosphate fluoride emissions are 0.04 lb/ton product. Total fluoride emissions consist of both gaseous and particulate fluorides. The relative percentages of particulate and gaseous fluoride in the above factors was not given.

3.3 Control Equipment

Phosphate fertilizer plants emit both gaseous and particulate pollution. Fluorides are the main gaseous pollutants and are readily absorbed in water. Therefore most of the phosphate fertilizer plants use wet scrubbers as the primary control device although some have installed baghouse and electrostatic precipitators for secondary particulate control.

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For the primary control of particulate pollution on a normal superphosphate plant, a wet scrubber will remove 96% or a baghouse will remove 99% of the particulates from the grinding and drying operations. Both a wet scrubber or a baghouse have a 99% rated efficiency for removal of particulate fluorides from the main stack flue gas. The same equipment employed on a triple superphosphate plant would obtain the same high efficiencies (VA-101).

In the diammonium phosphate plant, control equipment is used on the dryers and coolers, and the ammoniator-granulator to control the particulate and fluoride emissions. Some typical equipment and efficiencies for the dryers and coolers are: wet scrubber - 97%, baghouse - 99%; for the ammoniator - granulator: wet scrubber - 81-97%, baghouse - 99% (VA-101).

RADIAN CORPORATIONTABLE 3.2-1EMISSION FACTORS FOR THE PRODUCTION
OF PHOSPHATE FERTILIZERS

(Source: EN-071)

Type of Product	Particulates ^a		Fluorides ^b	
	lb/ton	kg/MT	lb/ton	kg/MT
Normal superphosphate				
Grinding, drying	9	4.5	-	-
Main stack	-	-	0.15	0.075
Triple superphosphate				
Run-of-pile (ROP)	-	-	0.03	0.015
Granular	-	-	0.10	0.05
Diammonium phosphate				
Dryer, cooler	80	40	e	e
Ammoniator-granulator	2	1	0.04	0.02

^a Control efficiencies of 99 percent can be obtained with fabric filters.

^b Total fluorides, including particulate fluorides. Factors all represent outlet emissions following control devices, and should be used as typical only in the absence of specific plant information.

^e Included in ammoniator-granulator total.

4.0

STATE IMPLEMENTATION PLAN REGULATIONS

SIP regulations were obtained from DSSE files in December, 1974. A summary of applicable particulate emission regulations is presented in Table 4.0-1 for those states which have phosphate fertilizer producers. Compliance analysis in this report was restricted to those processes directly involved with three classes of phosphate fertilizer production, namely normal superphosphate, triple superphosphate, and ammonium phosphate production. Other fugitive emission points may be affected by the SIPs. Any compliance schedules for such emission points will appear in the data tables in Section 6.3.

Because of lack of detailed process data on each plant, calculations of allowable emissions were not made. The particulate regulations for phosphate fertilizer plants are generally the standard process weight table applicable to most process industries. These regulations usually require high efficiency control devices as described in Section 3.3 with efficiencies greater than 90%. In addition, Florida, Georgia, and Iowa were found to have regulations for total fluorides. Fluoride regulations are expressed as allowable fluorides (lbs/ton P₂O₅), ranging from 0.02 for wet process phosphoric acid production in Florida to 0.4 for the entire fertilizer plant in Georgia and Iowa.

Standards of performance for five catagories of sources at new phosphate fertilizer plants were promulgated on 6 August 1975, effective on 4 August 1975 (39 FR 33152). New wet process phosphoric acid plants will be allowed fluoride emissions up to 0.020 lb/ton P₂O₅ feed, new superphosphoric acid plants - 0.010 lb/ton, new diamonium phosphate plants - 0.060 lb/ton, new triple superphosphate plants - 0.20 lb/ton, and new granular triple superphosphate storage facilities - 5.0×10^{-4} lb/hr/ton of equivalent P₂O₅ stored. These emission limitations are comparable to the regulations for existing sources in Florida.

TABLE 4.0-1
SIP AIR EMISSION REGULATIONS
EXISTING PHOSPHATE FERTILIZER PLANTS

Government Entity	Particulate Regulation Number	Maximum Allowable Particulate Emissions	Fluoride Regulation Number	Maximum Allowable Fluoride Emissions
Alabama	4.4.1 Class 1 Counties:	E = $3.59P^{0.62}$ E = $17.31P^{0.16}$	P<30 ton/hr P>30 ton/hr	None
	4.4.2 Class 2 Counties:	E = $4.10P^{0.67}$ E = $55.0P^{0.11}-40$	P<30 ton/hr P>30 ton/hr	
Arizona	31E. Maricopa County	E = $4.10P^{0.67}$ E = $55.0P^{0.11}-40$	P<30 ton/hr P>30 ton/hr	None
	Arkansas	E = $3.59P^{0.62}$ E = $17.31P^{0.16}$	P<30 ton/hr P>30 ton/hr	None
California	6112.1, 6112.2 Contra Costa County	0.15 gr/scfd E = $4.10P^{0.67}$ E = 40.0 lb/hr		None
	406 Fresno County	E = $3.59P^{0.62}$ E = $17.31P^{0.16}$	P<30 ton/hr P>30 ton/hr	None
	405 Kern County	E = $3.59P^{0.62}$ E = $17.31P^{0.16}$	P<30 ton/hr P>30 ton/hr	None
	52, 54 Los Angeles County	0.3 gr/scf E = 40.0 lb/hr		None
	52, 54 San Bernadino County	0.3 gr/scf E = 40.0 lb/hr	P>30 ton/hr	

SIP AIR EMISSION REGULATIONS (Continued)

<u>Government Entity</u>	<u>Particulate Regulation Number</u>	<u>Maximum Allowable Particulate Emissions</u>		<u>Fluoride Regulation Number</u>	<u>Maximum Allowable Fluoride Emissions</u>
California (Continued)	404, 406 San Joaquin County	0.1 gr/scf $E = 3.59P^{0.62}$	$P \leq 30$ ton/hr		
		$E = 17.31P^{0.16}$	$P > 30$ ton/hr		
Florida	17-2.04(2)	$E = 3.59P^{0.62}$ $E = 17.31P^{0.16}$	$P \leq 30$ ton/hr $P > 30$ ton/hr	17-2.04(2)(C) a.1. - Wet Process a.2. - R-O-P TSP (Mixing Belt) a.3. - R-O-P TSP (Curing & Storage) a.4. - Granular TSP i. made by granulating R-O-P TSP ii. made from phosphoric acid and phosphate rock slurry a.5. - Granular TSP Storage a.6. - Production a.7. - Calcining or other thermal phosphate processing ex- cepting defluorination a.8. - Defluorinating phosphate rock thermal processing b.1.	0.02 lbs F/ton P ₂ O ₅ input 0.05 lbs F/ton P ₂ O ₅ 0.12 lbs F/ton P ₂ O ₅ 0.06 lbs F/ton P ₂ O ₅ 0.15 lbs F/ton P ₂ O ₅ 0.05 lbs F/ton P ₂ O ₅ 0.06 lbs F/ton P ₂ O ₅ 0.05 lbs F/ton P ₂ O ₅ 0.37 lbs F/ton P ₂ O ₅ 0.04 lbs F/ton P ₂ O ₅
Georgia	391-3-1.02 (2)(f)	Granular and Mixed Fert. Mfg.: $E = 3.59P^{0.62}$	$P \leq 30$ ton/hr	391-3-1.02(2)(f)	0.4 lb F/ton P ₂ O ₅ for sources in operation on or before 1/1/72. 0.2 lbs F/ton P ₂ O ₅ for all others
		$E = 17.31P^{0.16}$	$P > 30$ ton/hr		
Idaho	H-Section 2	$E = 4.10P^{0.67}$ $E = 55.0P^{0.11}-40$	$P \leq 30$ ton/hr $P > 450$ ton/hr	None	
Illinois	203(a)	New Sources (after 4/14/72) $E = 2.54P^{0.534}$	$P \leq 450$ ton/hr	None	
		$E = 24.8P^{0.16}$	$P > 450$ ton/hr		

SIP AIR EMISSION REGULATIONS (Continued)

<u>Government Entity</u>	<u>Particulate Regulation Number</u>	<u>Maximum Allowable Particulate Emissions</u>	<u>Fluoride Regulation Number</u>	<u>Maximum Allowable Fluoride Emissions</u>
Illinois (Continued)	203(b)	<u>Existing Sources</u> (before 4/14/72) E = $4.10P^{0.67}$ P \leq 30 ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr		
Iowa	4.3(2)a.	E = $4.10P^{0.67}$ P \leq 30 ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr	4.4(10)	0.4 lb F/ton P ₂ O ₅
Kansas	28-19-20	E = $4.10P^{0.67}$ P \leq 30 ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr	None	
Kentucky	AP3-3(b)	E = $4.10P^{0.67}$ P \leq 30 ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr	None	
Louisiana	19.5	E = $4.10P^{0.67}$ P \leq 30 ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr	None	
Maryland	10.03.38.03E	(1) 0.03 gr/scf, or (2) E = 0.24 lb hr P \leq 0.025 ton/hr E = $4.504P^{0.674}$ $0.025 \leq P \leq 0.65$ ton/hr E = $4.14P^{0.552}$ $0.65 < P \leq 5$ ton/hr E = $2.739P^{0.773}$ $5 < P \leq 30$ ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr whichever is more stringent.	None	
Massachusetts	2.5.2	<u>New Sources</u> (after 6/1/72) E = $\frac{1}{2}(4.504P^{0.674})$ $0.025 < P \leq 0.65$ ton/hr E = $\frac{1}{2}(4.14P^{0.552})$ $0.65 < P \leq 5$ ton/hr E = $\frac{1}{2}(2.739P^{0.773})$ $5 < P \leq 30$ ton/hr E = $\frac{1}{2}(55.0P^{0.11}-40)$ P>30 ton/hr	None	

SIP AIR EMISSION REGULATIONS (Continued)

<u>Government Entity</u>	<u>Particulate Regulation Number</u>	<u>Maximum Allowable Particulate Emissions</u>	<u>Fluoride Regulation Number</u>	<u>Maximum Allowable Fluoride Emissions</u>
Massachusetts (Continued)		<u>Existing Sources (before 6/1/72)</u> $E = 4.504P^{0.674}$ $0.025 < P \leq 0.65$ ton/hr $E = 4.14P^{0.552}$ $0.65 < P \leq 5$ ton/hr $E = 2.739P^{0.773}$ $5 < P \leq 30$ ton/hr $E = 55.0P^{0.11-40}$ $P > 30$ ton/hr		
Michigan	336.62-I	$E = 4.10P^{0.67}$ $P \leq 30$ ton/hr $E = 55.0P^{0.11-40}$ $P > 30$ ton/hr	None	
Mississippi	6.3(a)	$E = 4.10P$	None	
Missouri	S-V.0.1	$E = 4.10P^{0.67}$ $P \leq 30$ ton/hr $E = 55.0P^{0.11-40}$ $P > 30$ ton/hr	None	
New Jersey	7:27-6.2(a)	Allowable is 0.02 gr/scf	None	
North Carolina	1.50	$E = 9.025P^{0.312}$	None	
Ohio	AP 3-12a.	$E = 4.10P^{0.67}$ $P \leq 30$ ton/hr $E = 55.0P^{0.11-40}$ $P > 30$ ton/hr	None	
Toledo		$E = 4.10P^{0.67}$ $P \leq 30$ ton/hr $E = 40.0$ lb/hr $P > 30$ ton/hr		

SIP AIR EMISSION REGULATIONS (Continued)

<u>Government Entity</u>	<u>Particulate Regulation Number</u>	<u>Maximum Allowable Particulate Emissions</u>	<u>Fluoride Regulation Number</u>	<u>Maximum Allowable Fluoride Emissions</u>
Pennsylvania	123.13(c)(1)	0.04 gr/scfd E<150,000 dscf/min (2) A = $6000E^{-1}$ 150,000≤E<300,000 dscf/min (3) 0.02 gr/scfd E>300,000 dscf/min where: A = Allowable Emissions in grains/scfd E = Effluent Gas Volume (scf/min)	None	
South Carolina	VIII-B	E = $4.10P^{0.67}$ P≤30 ton/hr E = $55.0P^{0.11}-40$ P>30 ton/hr	None	
Tennessee	Chap. 7, Section 3	<u>Existing Sources</u> (before 4/3/72) E = $4.10P^{0.67}$ P≤30 ton/hr <u>New Sources</u> (after 4/3/72) E = $3.59P^{0.62}$ P≤30 ton/hr E = $17.31P^{0.16}$ P>30 ton/hr		
Texas	105.1	E = 0.048q E = Allowable Emissions (lb/hr) q = Stack Effluent Rate (acf m)	None	
Utah	3.5	85% or Better Control	None	
Virginia	4.0401(b)(3)	E = $4.10(\frac{2P}{3})^{0.67}$ P≤45 ton/hr E = $55.0(\frac{2P}{3})^{0.11}-40$ P>45 ton/hr	None	

SIP AIR EMISSION REGULATIONS (Continued)

<u>Government Entity</u>	<u>Particulate Regulation Number</u>	<u>Maximum Allowable Particulate Emissions</u>	<u>Fluoride Regulation Number</u>	<u>Maximum Allowable Fluoride Emissions</u>
Washington	WAC 18-04-060	0.20 gr/scfd 0.1 gr/scfd after 6/1/75	None	
Pierce County 9.09c	$E = 4.12P^{0.668}$	$P < 50$ ton/hr		
	$E = 8.344P^{0.482}$	$50 \leq P \leq 90$ ton/hr		
	$E = 13.64P^{0.371}$	$90 \leq P \leq 130$ ton/hr		
	$E = 37.0P^{0.166}$	$130 \leq P \leq 150$ ton/hr		
	$E = 21.43P^{0.275}$	$150 \leq P \leq 400$ ton/hr		
	$E = 43.23P^{0.156}$	$400 \leq P \leq 1000$ ton/hr		
	$E = 64.21P^{0.100}$	$1000 \leq P \leq 5000$ ton/hr		

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5.0 BIBLIOGRAPHY

- EN-071 Environmental Protection Agency, Compilation of Air Pollutant Emission Factors, 2nd Ed., with supplements, AP-42, Research Triangle Park, N.C., 1973.
- HA-309 Harre, Edwin A., "Fertilizer Trends - 1973", Bulletin Y-77, National Fertilizer Development Center, Tennessee Valley Authority, Muscle Shoals, Alabama, June 1974.
- KE-134 Kent, James A., ed., Reigel's Handbook of Industrial Chemistry, 7th ed., N.Y., Van Nostrand Reinhold, 1974.
- SH-177 Shreve, R. Norris, Chemical Process Industries, 3rd ed., N.Y., McG.
- VA-101 Vatavuk, Wm. M., National Emissions Data System (NEDS) Control Device Workbook, Research Triangle Park, N.C., EPA, Nat'l. Air Data Branch, 1973.
- LE-125 LeSourd, D.A., and F. L. Bunyard, eds., Comprehensive Study of Specified Air Pollution Sources to Assess the Economic Impact of Air Quality Standards, Vol. 1, Research Triangle Park, N.C., Research Triangle Inst., 1972.
- VA-091 Vandergrift, A. E., et al., Particulate Pollutant System Study, Volume 1, Mass Emissions, PB 203 128, Contract No. CPA-22-69-104, Kansas City Missouri, Midwest Research Institute, 1971.

6.0 DATA SOURCES, SUMMARIES, AND TABLES OF INDIVIDUAL PLANTS

6.1 Sources of Data

6.1.1 Processes and Emissions

"Fertilizer Trends - 1973" (HA-309) and computer print-outs obtained from TVA were the only independent sources of process data. Types of equipment used at each plant were not delineated in these reports. However, production data for individual sources were given and were used to supplement the NEDS data. The NEDS data base was used to obtain some process information and emissions. Point Source Listings for SIC 2871 and 2874 created on December 6, 1974, were used. Only "Source Test" emissions listed in NEDS were recorded in our Master Lists.

6.1.2 Compliance Status

The following section presents the data used in each of the nine industries. Three data sources were used in common for all regions: (1) a CDS Quick Look Report (QL) of compliance status of all sources as of 8 May 1975, (2) a CDS QL report of all increments of progress scheduled beyond 1974, and (3) CDS Source Data Reports for SIC 2871 as of 24 August 1974 and SIC 2874 as of 19 December 1974.

All regional offices were contacted by phone to obtain compliance status information not in CDS. Some regions had data which was in the process of being added to CDS and was unavailable. The following supplementary data was available and was used in this study.

Region I - None

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Region II - CDS Source Data Reports for all sources as of 23 April 1975. Data was obtained by visit to Regional Office on 23 April 1975.

Region III - None

Region IV - CDS Source Data Reports for all sources and Semi-annual and Quarterly Reports from the states in Region IV. This data was available to Radian as a result of an on-going contract with Region IV to update CDS.

Region V - None

Region VI - CDS Source Data Reports for Louisiana and Oklahoma and data from Texas Air Control Board of compliance status of all sources in the EMS system as of 30 April 1975.

Region VII - Status of all sources was obtained by visit to RO on 21-23 April 1975.

Region VIII - Status of all sources as of 21 May 1975 was obtained by mail contact.

Region IX - The status of nine sources in neither NEDS nor CDS was obtained over the phone. Status was as of 23 May 1975.

Region X - None

6.2 Summary of Emissions and Compliance Status6.2.1 Emissions

Totals of potential and allowable emissions were not calculated due to lack of process data on individual plants. Total actual emissions were also not available from the data gathered for individual plants. One study estimated particulate emissions from the phosphate fertilizer industry in 1968 to be 210,000 tons with a 80% control on rock pulverizing operations and 90% control on reactors, granulators, and dryers (VA-097). Another study estimated total particulate emissions in 1967 to be 260,000 tons with an overall control of 89% (LE-125).

6.2.2 Compliance Status

A summary of compliance status by region is presented in Tables 6.2-1a and b according to current CDS compliance status codes as given in Table 6.2-2. As of May, 1975, eighteen plants (7%) were found to be compliance with SIP regulations, ten plants (4%) out of compliance, and two-hundred thirty-three (89%) unknown. These catagories are subdivided as follows: fourteen plants (5%) were in compliance with emission limitations as determined by source test, inspection, or state certification, four plants (2%) were in compliance with the increments of progress of a schedule, six plants (2%) were out of compliance with emission limitations, four plants (2%) were out fo compliance with the increments of progress of a compliance schedule, one-hundred ninety-seven plants (75%) had unknown status with respect to emission limitations, and thirty-six plants (14%) had unknown compliance with increments of progress of a schedule.

TABLE 6.2-1a
EXISTING PHOSPHATE FERTILIZER PLANTS
CATEGORICAL SUMMARY OF COMPLIANCE STATUS BY REGION
MAY, 1975

<u>REGION</u>	<u>IN</u>		<u>OUT</u>		<u>UNKNOWN</u>		<u>TOTAL</u>
	<u>IN COMPLIANCE</u>	<u>EMISSION LIMITATION</u>	<u>OUT OF COMPLIANCE</u>	<u>EMISSION LIMITATION</u>	<u>UNKNOWN COMPLIANCE</u>	<u>EMISSION LIMITATIONS</u>	
I	0	0	0	0	3	0	3
II	1	0	1	0	3	0	5
III	3	0	0	0	8	5	16
IV	0	0	0	0	88	29	117
V	3	1	1	0	48	0	53
VI	0	2	3	1	28	1	35
VII	4	0	0	1	9	1	15
VIII	0	0	0	0	3	0	3
IX	1	1	0	0	6	0	8
X	2	0	1	2	1	0	6
	<u>14</u>	<u>4</u>	<u>6</u>	<u>4</u>	<u>197</u>	<u>36</u>	<u>261</u>
<u>TOTAL</u>	<u>(5%)</u>	<u>(2%)</u>	<u>(2%)</u>	<u>(2%)</u>	<u>(75%)</u>	<u>(14%)</u>	
<u>TOTAL</u>	<u>18</u>		<u>10</u>		<u>233</u>		<u>261</u>
	<u>(7%)</u>		<u>(4%)</u>		<u>(89%)</u>		

TABLE 6.2-1b
EXISTING PHOSPHATE FERTILIZER PLANTS
SUMMARY OF COMPLIANCE STATUS BY REGION

ENTIRE SOURCE
COMPLIANCE STATUS CODE*
MAY 1975

REGION	0	1	2	3	4	5	6	7	8	9	TOTAL
I	3	0	0	0	0	0	0	0	0	0	3
II	3	1	0	0	1	0	0	0	0	0	5
III	7	0	0	0	4	0	0	5	0	0	16
IV	88	0	0	0	0	0	0	29	0	0	117
V	47	1	0	1	2	1	0	0	0	1	53
VI	28	3	0	0	0	2	1	1	0	0	35
VII	9	0	0	0	4	0	1	1	0	0	15
VIII	3	0	0	0	0	0	0	0	0	0	3
IX	6	0	0	0	1	1	0	0	0	0	8
X	1	1	0	0	1	0	2	0	1	0	6
<hr/>											
TOTALS	195	6	0	1	13	4	4	36	1	1	261

* Refer to Table 6.2-2

TABLE 6.2-2

COMPLIANCE STATUS CODES

<u>CODE</u>	<u>DESCRIPTION</u>
0	Unknown
1	Not in compliance - no schedule
2	In compliance - source test
3	In compliance - inspection
4	In compliance - certification
5	In compliance with increments of progress
6	Not in compliance with increments of progress
7	Unknown compliance with increments of progress
8	No applicable state regulation
9	Sources with potential emissions >100 TPY and <100 TPY actual emissions - compliance status unknown

6.3

Data Tables of Individual Sources

This section presents the data gathered for each phosphate fertilizer plant. The data for each source is presented in a three-page format described below. A referencing system is used to consecutively number the sources in each state according to AQCR and county SAROAD number. The reference numbering system starts at "1" for each state. The reference number is also used to identify the source on PG 2/3 and PG 3/3.

PG 1/3 is an entire source (plant) summary of company name, source location (city), AQCR and particulate priority, SAROAD numbers, NEDS, CDS, and state source identification numbers, design and operating source production rate in thousand tons of product per year, and entire source compliance status code (See Table 6.2-2). Data sources are referenced by superscript footnotes. Compliance status was extracted from CDS entire source compliance status unless footnoted otherwise. In those cases where the entire source compliance status was found to be inconsistent with the status of the individual points, the proper CDS code for the entire source was selected, entered, and footnoted. If the source was listed in CDS with an SIC code other than 2871 or 2874, that SIC is presented below the CDS source number.

PG 2/3 is a listing of point source processes (operations which have EPA emission factors), control equipment, operating (production) rate

from NEDS in thousand tons per year (KTPY), total particulate (PT) and total fluoride (FL) potential emissions (not calculated in this study) at design capacity and operating production rate, actual particulate emissions, and allowable emissions in pounds per hour (PPH) and tons per year (TPY) both for design and operating conditions. All data from NEDS is footnoted. Control equipment codes used are listed in Appendix 1.

PG 3/3 is a listing of compliance status for individual processes as found in CDS. Only compliance schedules are presented which have final compliance date of 1 January 1975 and beyond. Any CDS points with schedules due before 1 January 1975 are presented in this report with the designation "SCHEDULE EXPIRED BEFORE 1975." Some CDS points with schedules were listed with an improper compliance status code. In this report these points have compliance status code "7" with a footnote to show the actual code found in CDS. Any entire source listed as in compliance with emission limitations, i.e., codes 2, 3, or 4 will have all points in compliance be definition. Compliance schedule increments of progress are 01, plan submittal; 02, award contracts; 03, initiate construction; 04, complete construction; 05, final compliance.

Tables 6.3-1 to 6.3-16 are the tables of data for the two-hundred sixty-one phosphate fertilizer plants located in this study.

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REGION I
TABLE 6.3-1

TABLE 6.3-1

SOURCE SUMMARY - EXISTING SOURCES

REGION I		INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)		STATE	MASSACHUSETTS		PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	International Minerals Woburn	119/I	22	1274	2620				NS		0
2	Corenco Corp Tewksburg	121/I	22	1274	2252	0057				29NS	0
3	Lowell Rendering Co North Billerica	121/I	22	1274					NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-1 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>I</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>	SIC <u>2871</u> <u>(2874)</u>	STATE <u>MASSACHUSETTS</u>	PG 2/3							
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	Grinders & Dryers	PT FL	CYCL 70.0%	29							31	
3	No Data	PT FL										

FOOTNOTES ¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-1

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	I	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MASSACHUSETTS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								

FOOTNOTES:

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REGION II
TABLES 6.3-2 TO 6.3-4

TABLE 6.3-2

SOURCE SUMMARY - EXISTING SOURCES

REGION	II	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW JERSEY			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Agrico Chemical Carteret	043/I	31	3060	0820	0036	00055			27NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-2 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	II	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW JERSEY	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY					SIP ALLOWABLES			
					EMISSIONS - TPY			DESIGN		OPER		
					POTENTIAL	DESIGN	OPER ¹	ACTUAL ¹	PPH	TPY	PPH	TPY ¹
1	Grinders & Dryers	PT FL	BH 99.0%	27NS								

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-2

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>II</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW JERSEY	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							

FOOTNOTES:

TABLE 6-3-3

SOURCE SUMMARY - EXISTING SOURCES

REGION	II	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW YORK			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Agrico-Williams Buffalo	162/I	33	2000	0660		00015		289NS		0
2	International Minerals Buffalo	162/I	33	2000	0660				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6_3-3

POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>II</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> (2874)	STATE <u>NEW YORK</u>		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-3

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>II</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW YORK	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								

FOOTNOTES:

TABLE 6.3-4

SOURCE SUMMARY - EXISTING SOURCES

REGION	II	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871	STATE	PUERTO RICO		PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE COMPLIANCE STATUS	
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Super A Fertilizer Sabaneta	244/I	40	1700		0004	00006		18NS	1
2	Ochoa Fertilizer Carr. 333K71.8	244/I	40	1020		0002	00002			4

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-4

POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>II</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> (2874)	STATE <u>PUERTO RICO</u>		PG 2/3					
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	Grinders & Dryers	PT FL	None	18NS		81						
2	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-4

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>II</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	PUERTO RICO	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							
2			ALL	4				

FOOTNOTES:

REGION III
TABLES 6.3-5 TO 6.3-7

TABLE 6.3-5

SOURCE SUMMARY - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MARYLAND			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Central Chemical Hagerstown	113/I	21	1680	0860		00011 SIC 2874		NS			4
2	Agrico Chemicals Baltimore	115/I	21	0120	0120		0042	00042		58NS	43NS	7
3	Kerr-McGee Balitmore	115/I	21	0120	0120		0047	00047 SIC 2872		289NS		7
4	Royster Co Baltimore	115/I	21	0120	0120						NS	0
5	W. R. Grace & Co Baltimore	115/I	21	0120	0120		0057	00057 SIC 2874		368NS		7

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-5 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION III		INDUSTRY PHOSPHATE FERTILIZER	SIC 2871 (2874)	STATE MARYLAND	PG 2/3							
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	Grinding & Drying Main Stack	PT FL PT FL	None	43NS								
3	No Data	PT										
4	No Data	PT FL										
5	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-5

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MARYLAND	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1									
2	No Data								
3	No Data								
4	No Data								
5	No Data								

FOOTNOTES:

TABLE 6.3-6

SOURCE SUMMARY - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	PENNSYLVANIA			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹		
1	Kerr-McGee Chem Philadelphia	045/I	39	7160	7140		2028	02028		474NS	35TS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-6 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871	STATE	PENNSYLVANIA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY							
					EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	Granular	PT FL	WS 98.0%	35TS							

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-6

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	PENNSYLVANIA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							

FOOTNOTES:

TABLE 6.3-7

SOURCE SUMMARY - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	VIRGINIA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Farmers Guano Co Chesapeake	223/I	48	0710	0710				NS		0
2	Royster Co Chesapeake	223/I	48	0710	0710	0008	00008 SIC 2872		289NS		0
3	Smith Douglas Norfolk	223/I	48	2140	2140		00011				0
4	Swift Chemical Co Chesapeake	223/I	43	0710	0710	0007	00007		342NS	70NS	4
5	Swift Chemical Co Suffolk	223/I	48	2060	3080		00002 00015				0 4
6	Borden Chem Co Norfolk	223/I	48	2140	2140		00031		789NS		4

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-7

POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	VIRGINIA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	No Data	PT FL									
4	Grinders & Dryers Main Stack	PT FL PT FL	None WS, WS-98% -	42NS 70NS		188 2					
5	No Data	PT FL									
6	No Data	PT FL									

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-7

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	VIRGINIA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4		ALL	4						
5		ALL	4						
6		ALL	4						

FOOTNOTES:

TABLE 6.3-7

SOURCE SUMMARY - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	VIRGINIA			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
7	Kerr-Mcgee Chem Norfolk	223/I	48	2140	2140					NS		0
8	Weaver Fertilizer Co Norfolk	223/I	48	2140	2140		0005	00005 SIC 2874		395NS	80NS	7 ³
9	Mobil Chemical Co Richmond	225/I	48	2660	2660					NS		0
10	Richmond Guano Richmond	225/I	48	2660	2660			00037 SIC 2874		316NS		7 ³

FOOTNOTES:

¹ TVA² NEDS data³ Listed as 0 in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-7 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871	STATE	VIRGINIA		PG 2/3		
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
7	No Data	PT FL										
8	Main Stack	PT FL	CYCL 80.0%	80NS								
9	No Data	PT FL										
10	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-7 POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	III	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	VIRGINIA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
7	No Data							
8	Rock Pulverizer Plant Fugitive Dust Amoniator Dryer-Cooler Superphosphate Mixer	PT	010 020 040 050 060	7 ¹ 7 ¹ 7 ¹ 7 ¹ 7 ¹				05/30/75 DO DO DO DO DO
9	No Data							
10	Dryer Cooler Granulator-Ammoniator Superphosphate Rock Mill	PT	010 020 030 040	7 ¹ 7 ¹ 7 ¹ 7 ¹				06/30/75 DO DO DO

FOOTNOTES: ¹Listed as 1 in CDS

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REGION IV
TABLES 6.3-8 TO 6.3-15

TABLE 6.3-8

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Centrala Farmers Co Selma	001/II	01	1000	3020				105NS		0
2	Agrico Chem Montgomery	002/I	01	2480	2460				63NS		0
3	Cities Services Montgomery	002/I	01	2480	2460						0
4	Royster Co Montgomery	002/I	01	2480	2460				NS		0
5	Centrala Farmers Coop Demopolis	004/I	01	1600	1060	0002	00002	4-05-0002		40NS 62.5AP	7 ³
6	Royster Co Bessemer	004/I	01	1980	0340				NS		0

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-8 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					EMISSIONS - TPY		SIP ALLOWABLES		DESIGN		OPER	
					POTENTIAL	ACTUAL ¹	DESIGN	OPER ¹	PPH	TPY	PPH	TPY ¹
1	No Data	PT FL										
2	No Data	PT FL										
3	No Data	PT FL										
4	No Data	PT FL										
5	Grinding, Drying Ammoniator - Granulator Main Stack Dryer-Coolers	PT FL PT FL PT FL PT FL	None None WS-85% CYCL+WS 90.0%	20NS 62.5AP 40NS 62.5AP							14 32 32	
6	No Data	PT FL										

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-8

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	Grinding Mill Acidulating Plant Granulating Plant Dryer & Cooler	PT PT PT PT	001 002 003 004	7 7 7 7	DO DO DO DO	SCHEDULE DO DO DO	EXPIRED DO DO DO	BEFORE 1975 DO DO DO	
6	No Data								

FOOTNOTES:

TABLE 6.3-8

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA				PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²
7	Swift Chem Co Birmingham	004/I	01	1980	0380				395NS		0
8	Hartford Phosphate Hartford	006/II	01	1520	1734				32NS		0
9	Home Guano Co Dothan	006/II	01	1820	1080				58NS		0
10	Swift Agriculture Dothan	006/II	01	1820	1080	0007	00007	6-07-0007		62NS 67.5AP	7 ³
11	TVA Muscle Shoals	007/I	01	0800	2560					43AP	0
12	U.S.S. Agri-Chemicals Cherokee	007/I	01	0800		0013	00013		165AP	262AP 230NS	7 ³

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-8 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE ALABAMA		PG 2/3					
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
7	No Data	PT FL										
8	No Data	PT FL										
9	No Data	PT FL										
10	Grinding, Drying	PT FL	WS-90%	62NS							32	
	Ammoniator - Granulator	PT FL	GC, WS-95.0%	67.9AP			32				47	
11	No Data	PT FL										
12	Ammoniator-Granulator	PT FL	WS, MIST ELIM-95%	146AP		146					169	
	Dryer, Cooler	PT FL	WS, CYCL 95%	146AP							169	
	Ammoniator-Granulator	PT FL	WS, Mist ELIM-95%	116AP							169	

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-8 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE ALABAMA		PG 2/3					
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					EMISSIONS - TPY		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
12 Cont	Dryer, Cooler	PT	WS, CYCL- 95%	116AP							163	
	Dryer, Cooler	FL		100AP							87	
	Grinding, Drying	PT		230NS							20	
	Grinding, Drying	FL		230NS							10	

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-8

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA	PG3/3		
REFERENCE NUMBER		CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	COMPLIANCE POINT STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
						01	02	03	04	05
7	No Data									
8	No Data									
9	No Data									
10	Super Phosphate Oper Granulation Plant		PT PT	001 003	7 0		SCHEDULE EXPIRED BEFORE 1975			
11	No Data									
12	No Data									

FOOTNOTES:

TABLE 6-3-8

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA	PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	
13	International Minerals & Chemicals Florence	007/I	01	2080	1400	0002			368NS	200AP 25NS
14	Centralia Farmers Co Forkland	001/II	01	2280						158NS
15	Alabama Farmers Coop Decatur	007/I	01	2520	1040				NS	

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-8 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
13	Ammoniator-Granulator Dryer, Cooler Main Stack Dryer, Cooler Dryer, Cooler	PT FL PT FL PT FL PT FL PT FL	None CYCL+WS 95.0% WS-98.9% None None	181AP 181AP 25NSP 75AP 200AP			11				54
							37				54
							2				0
											0
14	No Data	PT FL									
15	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-8

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ALABAMA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13	No Data								
14	No Data								
15	No Data								

FOOTNOTES:

TABLE 6.3-9

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Agrico Chem Pensacola	005/I	10	1160	3540	0001			184NS	146AP 109NS	0
2	Kerr McGee Chemical Cottondale	005/I	10	1940		0008			342NS	53.8TS 24.7NS	0
3	Kerr McGee Jacksonville	049/I	10	1080	1960	0049			500NS	78NS	0
4	Occidental Chemical Co White Springs	049/I	10	1660		0002	00002 SIC 3295		163TS 600AP 184NS	223TS	7 ³
5	Central Phosphates Plant City	052/I	10	1800	3660	0005				325TS	0
6	Cities Service Tampa	052/I	10	1800	4360	0054			100NS	400TS	0

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	Dryer, Cooler	PT FL	CYCL+WS 99.9%	146AP			68				206	
	Main Stack		WS-99.0%	109NS								
2	Granular	PT FL PT FL	CYCL+WS 99.8%	53.8TS			1				13	
	Grinding, Drying		WS-99.0%	24.7NS								
	Main Stack		WS-99.0%	24.7NS								
	Granulator		CYCL-94.0%	78NS								
3	Main Stack	PT FL PT FL	N.ne	50.6NS			23				44	
	Granular		WS-99.4%	223TS	8							
4	Storage & Shipping	PT FL PT FL	WS-99.7%	208TS			1	23.1	91.5		38	
	Granular		BH-99%	325TS								

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE FLORIDA		PG 2/3 Cont'd				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
6	Granular	PT FL	WS+WS 99.9%	400TS							

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-9

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
7	C.F. Industries Tampa	052/I	10	1800	4360	0051					0
8	C.F. Industries Plant City	052/I	10	1800	3660	0052	00051	73-40	890TS	325TS	7 ³
9	Gardiner Inc Tampa	052/I	10	1800	4360	0008	00008 SIC 2819		184NS 370AP 781TS	617AP 796TS	7 ³
10	Kaiser Agri. Chemical Tampa	052/I	10	1800	4360	0010	00025 SIC 2819			135.4NS 70.6AP 43.7TS	7 ³
11	Nitram Inc Tampa	052/I	10	1800	4360	0029	00029				7 ³
12	Super Fertilizer & Chemical Tampa	052/I	10	1800	4360	0073				0.004AP	0

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE FLORIDA		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	No Data	PT FL									
8	Granular	PT FL	None	325TS							
	Run-of-Pile	PT FL	None	325TS							
	Ammoniator-Granulator	PT FL	None								
9	Dryer, Cooler	PT FL	WS-90.0%	617AP	14,800			32.0	127		
	Ammoniator-Granulator	PT FL	WS-90.0%	617AP	370				5		
	Run-of-Pile	PT FL	WS-70.0%	796TS							
	Granular	PT FL	WS-20.0%	319TS	11.3				28.1		
	Run-of-Pile	PT FL	WS-65.0%	468TS							

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	FLORIDA		PG 2/3 Cont'd	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
10	Grinding, Drying	PT FL	CYCL-97.0%	87.4NS			393				35
	Ammoniator- Granulator	PT FL	None	70.6AP			317				
	Granular	PT FL		43.7TS							
	Grinding, Drying	PT FL	CYCL-75.0%	48NS			268				34
	Main Stack	PT FL		48NS							
11	No Data	PT FL									
12	Ammoniator- Granulator	PT FL	WS-98.0 %	0.004AP							
	Dryer Cooler	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
7	No Data							
8	Phosphate Plant	PT	004	7 ¹				05/04/75 07/01/75
9	Phosphate Chemical Comp	PT	001	7 ¹				05/04/75 07/01/75
10	Prill Tower	PT	001	7 ¹				05/04/75 07/01/75
11	No Data							
12	No Data							

FOOTNOTES:

¹ Listed as 1 in CDS

TABLE 6.3-9

SOURCE SUMMARY - EXISTING SOURCES

REGION		INDUSTRY	PHOSPHATE FERTILIZER SIC		2871 (2874)		STATE		FLORIDA		PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
13	Swift Agri Chemical Bartow	052/I	10	3680		0020	00012 SIC 2819			579NS	78NS	7 ³
14	U.S.S. Agri-Chem Bartow	052/I	10	1800	0180		00050 NO SIC			242TS 30AP		7 ³
15	W.R. Grace & Co Bartow	052/I	10	1800	0180		00021 SIC 4953 00046 NO SIC			667TS		7 ³
16	Borden Inc Piney Point	052/I	10	2540		0002	00002 SIC 2819			185AP 70TS	134AP 87.4TS	7 ³
17	Agrico Chem Co Pierce	052/I	10	3680			00054 NO SIC			575TS 237NS		7 ³
18	C.F. Industries Inc Bonnie	052/I	10	3680			00052 NO SIC			990AP		7 ³

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE FLORIDA		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
13	Grinding, Drying Main Stack	PT FL PT FL		78NS							
14	No Data	PT FL									
15	No Data	PT FL									
16	Dryer, Cooler Ammoniator- Granulator Granular Run-of-Pile	PT FL PT FL PT FL PT FL	CYCL+WS 99.6% CYCL+WS 99.0%	134AP 87.4TSP	7400 185 3.7			26.0 2.55	103		64

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA	PG 2/3 Cont'd				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
17	No Data	PT FL										
18	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13	Phosphate Drying Grinding	PT	002	7 ¹				05/04/75	07/01/75
	Raymond Mills	PT	004	7 ¹				DO	DO
	Raymond Mills	PT	005	7 ¹				DO	DO
	Raymond Mills	PT	006	7 ¹				DO	DO
	Single Super	PT	007	7 ¹				DO	DO
	Single Super Cure	PT	008	7 ¹				DO	DO
14	Phosphate Chem & Rock	PT	001	7 ¹				05/04/75	07/01/75
15	Phosphate Rock & Chem	PT	001	7 ¹				04/04/75	07/01/75
16	No Data								
17	Phosphate Complex	PT	001	7 ¹				05/04/75	07/01/75
18	No Data								

FOOTNOTES: ¹ Listed as 1 in CDS

TABLE 6.3-9 SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
19	Conserve Inc Nichols	052/I	10	3680						239AP		0
20	Farmland Industries Pierce	052/I	10	3680				00053 NO SIC		180TS 200AP		7 ³
21	IMC Corporation Mulberry	052/I	10	3680	2860			00027 SIC 3295		TS		7 ³
22	Mobil Chem Co Nichols	052/I	10	3680				00047 NO SIC		21NS		7 ³
23	Royster Company Mulberry	052/I	10	3680	2860			00048 NO SIC		200TS 100AP		7 ³
24	U.S.S. Agri-Chemicals Ft Meade	052/I	10	3680	1280			00051 NO SIC		252TS		7 ³

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE FLORIDA		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
19	No Data	PT FL									
20	No Data	PT FL									
21	No Data	PT FL									
22	No Data	PT FL									
23	No Data	PT FL									
24	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-9

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	FLORIDA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
19	No Data								
20	Phosphate Chem Processing	PT	001	7 ¹				04/04/75	07/01/75
21	Phos Dryers & Grinders Phos Rock Dryer 2	PT PT	001 002	7 ¹ 7 ¹				04/04/75 DO	06/01/75 DO
22	Phos Rock Calciner Phos Rock Calciner	PT PT	003 004	7 ¹ 7 ¹				05/04/75 DO	07/01/75 DO
23	Fert Chem Complex	PT	001	7 ¹				05/04/75	07/01/75
24	No Data								

FOOTNOTES:

¹ Listed as 1 in CDS

TABLE 6.3-10

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA				PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	International Mineral and Chemical Americus	002/I		11	4700	0100	0004			237NS	150NS	0
2	U.S.S. Agri-Chemicals Columbus	002/I		11	3860	1280		01002		211NS		0
3	Etheredge Guano Co Augusta	053/I		11	4320	0220				NS		0
4	International Mineral and Chemical Augusta	053/I		11	4320	0220	0015				70AP	0
5	Columbia Nitrogen Macon	054/I		11	0460	3440	0003				38AP	0
6	Royster Fertilizer Macon	054/I		11	0460	3440	0004			47NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE GEORGIA		PG 2/3					
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	Grinding, Drying Granulator	PT FL PT FL	WS, CYCL - 99.0% WS, CYCL - 99.0%	150NS 150NS			50				75 75	
2	No Data	PT FL					50					
3	No Data	PT FL										
4	Ammoniator - Granulator	PT FL	WS, CYCL - 90.0%	70AP							34	
5	Ammoniator - Granulator	PT FL	WS, CYCL - 99.0%	38AP							28	
6	Grinding, Drying	PT FL	CYCL-99.0%				15				27	

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							
2	No Data							
3	No Data							
4	No Data							
5	No Data							
6	No Data							

FOOTNOTES:

TABLE 6.3-10

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA				PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
7	Mobil Chem Co Rome	055/I	11	2140	4380				NS		0
8	Cities Service East Point	056/I	11	2260	1900				NS		0
9	Royster Co Athens	057/II	11	1060	0160				105NS		0
10	Mobil Chem Co Savannah	058/I	11	0980	4500				NS		0
11	Mutual Fertilizer Savannah	058/I	11	0980	4500				NS		0
12	Southern Fert & Chem Savannah	058/I	11	0980	4500				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION		IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA		PG 2/3		
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
7	No Data	PT FL										
8	No Data	PT FL										
9	No Data	PT FL										
10	No Data	PT FL										
11	No Data	PT FL										
12	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10 POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								
11	No Data								
12	No Data								

FOOTNOTES:

TABLE 6.3-10 SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
13	Southern States Phos Savannah	058/I	11	0980	4500		09000	EPD-AQC-107	711NS		7 ³
14	Swift Agri-Chemical Savannah	058/I	11	0980	4500	0002	00002	EPD-AQC- 98	237NS		7 ³
15	Gold Kist Fertilizer Clyo	058/I	11	1960		0001	00001	EPD-AQC- 81	211NS	60AP	7 ³
16	Columbia Nitrogen Moultrie	059/II	11	1240	3820	0007			342NS		0
17	Gold Kist Cordele	059/II	11	1460	1360	0007			316NS		0
18	Kaiser Agri - Chem Bainbridge	059/II	11	1620	0260	0002	00002	EPD-AQC-102		140AP	7 ³

FOOTNOTES: ¹TVA²NEDS data³Listed as 0 in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA	PG 2/3		
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY						
					EMISSIONS - TPY			SIP ALLOWABLES		
					POTENTIAL		ACTUAL ¹	DESIGN	OPER	
					DESIGN	OPER ¹	PPH	TPY	PPH	TPY ¹
13	No Data	PT FL								
14	Grinding, Drying	PT FL	WS, CYCL - 90.0%	25NS						50
15	Grinding, Drying	PT FL	CYCL - 80.0%	60AP						25
16	Grinding, Drying	PT FL	WS, CYCL - 98.0%	50NS			10			20
17	Grinding, Drying	PT FL	WS, CYCL - 99.0%	140NS						68

FOOTNOTES ¹NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA	PG 2 / 3 Cont'd		
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY						
					EMISSIONS - TPY		SIP ALLOWABLES			
					POTENTIAL	ACTUAL ¹	DESIGN	OPER		
					DESIGN	OPER ¹	PPH	TPY	PPH	TPY ¹
18	Ammoniator - Granulator	PT FL	CYCL 95.0%	140AP						69

FOOTNOTES ¹NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13	Sulphuric Acid Plant	PT S2	001 101	7 ¹ 7 ¹					5-1-75 DO
14	Fertilizer Plant-Granual	PT FL N2 VE	001 101 201 301	7 ¹ 7 ¹ 7 ¹ 7 ¹					
15	Granular Fertiliz Plnt	PT	001	7 ¹					
16	No Data								
17	No Data								
18	Granular Fertilizer PT Ammonium Nitrate Neutrl	PT OD	800 900	7 ¹ 7 ¹					

FOOTNOTES: ¹ Listed as 1 in CDS

TABLE 6.3-10

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
19	Swift Agri-Chemical Albany	059/II	11	1760	0040	0008	00008			100AP	0
20	U.S.S. Agri-Chemical Albany	059/II	11	1760	0040	0007			184NS	62NS	0
21	Georgia Fertilizer Valoosta	059/II	11	3300	5220				500NS		0
22	Pelham Phosphate Pelham	059/II	11	3700	4060	0004			237NS	30AP	0
23	International Minerals Tifton	059/II	11	5000	5020				68NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE GEORGIA	PG 2/3						
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ²	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
19	Ammoniator-Granulator	PT FL	WS, CYCL - 85.0%	100AP							52	
20	Grinding, Drying	PT FL	WS, CYCL - 80.0%	62NS		37					49	
21	No Data	PT FL										
22	Ammoniator-Granulator	PT FL	WS, CYCL - 99.0%	30AP							15	
23	No Data	PT FL										

FOOTNOTES:

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-10

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	GEORGIA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
19	No Data								
20	No Data								
21	No Data								
22	No Data								
23	No Data								

FOOTNOTES:

TABLE 6.3-11

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	KENTUCKY			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Ohio Valley Fert London	101/II	18	2120	2360				474NS		0
2	Southeast Chem London	101/II	18	2120	2360				95NS		0
3	Southern States Coop Winchester	102/II	18	0720	4100				47NS		0
4	Borden Chem Co Russellville	105/III	18	2340	3600				84NS		0
5	Southern States Coop Russellville	105/II	18	23	3600	0007	00007	0-73-45	47.9AP	7 ³	

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-11 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	KENTUCKY	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	No Data	PT FL									
4	No Data	PT FL									
5	Ammoniator- Granulator Dryer, Cooler	PT FL PT FL	None CYCL-95.0%	47.9AP 47.9AP			4 190			35 35	

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-11

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	KENTUCKY	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							
2	No Data							
3	No Data							
4	No Data							
5	Fertilizer Mfg Fertilizer Dryer Fertilizer Cooler	PT PT PT	002 003 004	7 7 7	SCHEDULE DO DO	EXPIRED DO DO	BEFORE 1975 DO DO	DO DO

FOOTNOTES:

TABLE 6.3-12

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSISSIPPI			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Miss Chem Corp Nattiesburg	005/I	25	0800	1040		00037		100NS		7 ³
2	Royster Co Jackson	005/I	25	1080	1260				158NS		0
3	Mississippi Chemical Pascagoula	005/I	25	1280	2120	0044	00044		335AP 260TS	617AP 336TS	7 ³
4	Miss Chem Corp Meridian	005/I	25	1460	1800		00058		95NS		7 ³
5	Miss Chem Corp Canton	005/I	25	1720	0320		00021		95MS		7 ³
6	Gulf Oil Corp Vicksburg	005/I	25	2780	2740				79NS		0

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-12 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871	STATE	MISSISSIPPI	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY							
					EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN	OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	Ammoniator- Granulator Dryer, Cooler	PT FL	WS-50.0%	123AP							105
	Ammoniator- Granulator Dryer, Cooler	PT FL	WS+WS- 70.0%	123AP			5				
	Ammoniator- Granulator Dryer, Cooler	PT FL	WS-93.0%	179AP			27				134
	Ammoniator- Granulator Dryer, Cooler	PT FL	CYCL+WS 51.0%	179AP							
	Ammoniator- Granulator Dryer, Cooler	PT FL	WS+WS- 80.0%	315AP			45				197
	Granular	PT FL	WS+WS- 84.0%	315AP							
		PT FL	WS-96.0%	336TS							

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-12 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSISSIPPI	PG 2/3 Cont'd			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
4	No Data	PT FL									
5	No Data	PT FL									
6	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-12

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSISSIPPI	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	Fert Storage & Handling	PT	001	7		SCHEDULE	EXPIRED BEFORE 1975		
2	No Data								
3	#1 Mixed Fert Plt #2 Mixed Fert Plt #3 Mixed Fert Plt #1 & 2 Fert Storage #3 Fert Storage Fert Fert	PT PT PT PT PT PT PT	010 011 012 013 014 020 022	7 7 7 7 7 0 0	DO DO DO DO DO	SCHEDULE DO DO DO DO	EXPIRED BEFORE 1975 DO DO DO DO	03/01/75 DO DO DO DO	07/01/75
4	Plant #1 Plant #2	PT PT	001 002	7 7	DO	SCHEDULE DO	EXPIRED BEFORE 1975 DO	DO	DO
5		PT VE	001 101	7 7	DO	SCHEDULE DO	EXPIRED BEFORE 1975 DO	DO	
6	No Data								

FOOTNOTES:

TABLE 6.3-12

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSISSIPPI			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
7	Southern Ag Fertilizer Clarksdale	134/III	25	0540	0460				NS		0
8	Riverside Fertilizer Marks	134/III	25	2360	1760		00013		NS		0
9	Kinchin O'Keefe Greenville	134/III	25	2800	0880				NS		0
10	Miss Chem Co New Albany	135/II	25	2700			00002		95NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-12 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSISSIPPI	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	No Data	PT FL									
8	No Data	PT FL									
9	No Data	PT FL									
10	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-12 POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSISSIPPI	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								

FOOTNOTES:

TABLE 6.3-13

SOURCE SUMMARY - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER SIC	2871 (2874)			STATE NORTH CAROLINA			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	International Minerals Winston - Salem	136/I	34	1480	4460				NS		0
2	Kerr McGee Winston-Salem	136/I	34	1480	4460				NS		0
3	U.S.S. Agri Chemicals Greensboro	136/I	34	1780	1740	0002	00002		342NS	60AP	0
4	Mobil Chem Co Durham	166/I	34	1180	1160				263NS		0
5	Mobil Chem Co Selma	166/I	34	2120	3640				NS		0
6	Mobil Chem Co Charlotte	167/I	34	2580	0700				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6-3-13 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					EMISSIONS - TPY		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	No Data	PT FL										
3	Ammoniator - Granulator Dryer, Cooler	PT FL PT FL	WS-90.0% BH-99.5%	60AP 60AP			1 1					19 19
4	No Data	PT FL										
5	No Data	PT FL										
6	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-13

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							
2	No Data							
3	No Data							
4	No Data							
5	No Data							
6	No Data							

FOOTNOTES:

TABLE 6.3-13

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA		PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
7	Royster Co Charlotte	167/I	34	2580	0700	0577				68AP	0
8	TGS Inc Aurora	168/I	34	0280		0058 SIC 2819			328TS 222.2AP		0
9	Farmers Chemical Assoc Tunis	168/I	34	1940		0020			98AP		0
10	FCX Inc Lumberton	169/II	34	3380	2460	0003	00003			50AP	0
11	Dixie Guano Co Laurinburg	169/II	34	3600	2240					26NS	0
12	Mobil Chem Co Wilmington	170/II	34	0460	4400				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-13 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	NORTH CAROLINA		PG 2/3	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	Ammoniator - Granulator Dryer, Cooler	PT FL PT FL	WS-70.0% CYCL-99.5%	68AP							23
8	No Data	PT FL									23
9	No Data	PT FL									
10	Dryer, Cooler Ammoniator- Granulator	PT FL PT FL	CYCL+WS- 99.0% WS-99.0%	50AP							29
11	No Data	PT FL									
12	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6-3-13

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								
11	No Data								
12	No Data								

FOOTNOTES:

TABLE 6.3-13

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA		PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
13	Swift Agri Chemical Navassa	170/II	34	0460		0025				63NS	0
14	Swift Ag Chem Wilmington	170/II	34	0460	4400				342NS		0
15	U.S.S. Agri Chemicals Wilmington	170/II	34	0460	4400	0001				70AP 105TS	0
16	U.S.S. Agri Chemicals Navassa	170/II	34	0460					579NS		0
17	Kaiser Ag Chemicals Acme	170II	34	0880			00052		579NS		7 ³
18	W.R. Grace Wilmington	170/II	34	2880	4400	0014			NS		0

FOOTNOTES:

¹ TVA² NEDS data³ Listed as Blank in CDS

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-13 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	NORTH CAROLINA		PG 2/3	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
13	Grinding, Drying	PT FL	WS-80.0%	63NS			108				50
14	No Data	PT FL									
15	Ammoniator- Granulator Run-of-Pile	PT FL PT FL	None WS-98.0%	70AP 105TS			12				68
16	No Data	PT FL									
17	No Data	PT FL									
18	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-13 POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13	No Data								
14	No Data								
15	No Data								
16	No Data								
17	Process Operations Process Operations	PT S2	001 101	7 7	SCHEDULE DO	EXPIRED BEFORE DO	1975 DO	DO	
18	No Data								

FOOTNOTES:

TABLE 6.3-13

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
19	Kaiser Ag Chemicals Waynesville	171/I	34	1860	4300					58NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-13 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA		PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES				
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
19	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-13

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NORTH CAROLINA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
19	No Data							

FOOTNOTES:

TABLE 6.3-14

SOURCE SUMMARY - EXISTING SOURCES

REGION		IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	SOUTH CAROLINA		PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²
1	Agrico Chemicals Charleston	199/I	42	0560	0540	0010			237NS	80NS	0
2	Columbia Nitrogen Charleston	199/I	42	0560	0540				68NS		0
3	Planters Fertilizer Charleston	199/I	42	0560	0540				NS		0
4	Royster Charleston	199/I	42	0560	0540				NS		0
5	Swift Agri Chemicals Charleston	199/I	42	0560	0540	0017			237NS	125NS	0
6	W.R. Grace Charleston	199/I	42	0560	0540	0003			421NS	30NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-14 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	SOUTH CAROLINA		PG 2/3		
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	Grinding, Drying	PT FL	WS-99.0%	80NS			17				58
2	No Data	PT FL									
3	No Data	PT FL									
4	No Data	PT FL									
5	Grinding, Drying	PT FL	CYCL-90.0%	125NS							95
6	Grinding, Drying Main Stack	PT FL PT FL	CYCL-60.0% WS-98.5%	21.2NS 30NS							21

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-14

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	SOUTH CAROLINA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-14

SOURCE SUMMARY - EXISTING SOURCES

REGION IV		INDUSTRY PHOSPHATE FERTILIZER	SIC 2871 (2874)	STATE SOUTH CAROLINA		PG 1/3					
REFERENCE NUMBER	SOURCE LOCATION	AQCR/PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
7	International Minerals & Chemicals Hartsville	201/III	42	0820	1300	0003				80NS	0
8	Anderson Fertilizer Anderson	202/I	42	0200	0180				NS		0
9	International Minerals & Chemicals Spartanburg	202/I	42	2060	2040	0006			316NS	100NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-14

POINT EMISSIONS AND ALLOWABLES - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	SOUTH CAROLINA	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					EMISSIONS - TPY		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
7	Grinding, Drying Main Stack	PT FL PT FL	CYCL+WS- 99.6% WS-99.7%	80NS 41NS							63	
8	No Data	PT FL										
9	Grinding, Drying Main Stack	PT FL PT FL	CYCL+WS- 99.6% WS-99.7%	100NS 62NS							79	

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-14

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	SOUTH CAROLINA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
7	No Data							
8	No Data							
9	No Data							

FOOTNOTES:

TABLE 6.3-15

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TENNESSEE			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²
1	Swift Agri Chemical Memphis	018/I	44	3080	2340	0327			316NS	52.5AP	0
2	Tennessee Far Coop Memphis	018/I	44	3080	2340				NS		0
3	U.S.S. Agri Chemicals Memphis	018/I	44	3080	2340	0517				54.6AP	0
4	International Minerals Greenville	207/I	44	1200	1220				89NS		0
5	Agrico-Chem Knoxville	207/I	44	1720	1740				NS		0
6	Federal Chemical Nashville	208/I	44	0700	2540	0003				328NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-15 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TENNESSEE	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	Dryer, Cooler	PT FL	WS-98.5%	52.5AP			9			136	136
	Ammoniator- Granulator										
2	No Data	PT FL									
3	Ammoniator- Granulator	PT FL	None	54.6AP			12			96	96
	Dryer, Cooler										
4	No Data	PT FL									
5	No Data	PT FL									
6	Main Stack	PT FL	WS-98.0%	328NS							
	Grinding, Drying										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-15

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TENNESSEE	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							
2	No Data							
3	No Data							
4	No Data							
5	No Data							
6	No Data							

FOOTNOTES:

TABLE 6.3-15

SOURCE SUMMARY - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TENNESSEE			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²
7	Texaco Inc Nashville	208/I	44	0700	2540				84NS		0
8	U.S.S. Agri Chemicals Nashville	208/I	44	0700	2540	0004			368NS	219AP	0
9	W.R. Grace Nashville	208/I	44	0700	2540				395NS		0
10	Tennessee Far Coop Mt. Pleasant	208/I	44	2300	2500				NS		0
11	Tenn Far Coop La Vergne	208/I	44	2960	1810				316NS		0
12	Federal Chemical Humboldt	209/I	44	1120	1520	0026					0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-15 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION		IV	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	TENNESSEE		PG 2/3	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
7	No Data	PT FL										
8	Dryer, Cooler	PT FL	BH-99.0%	219AP			52					155
	Ammoniator- Granulator	PT FL	WS-95.0%	219AP			5					155
9	No Data	PT FL										
10	No Data	PT FL										
11	No Data	PT FL										
12	Dryer, Cooler	PT FL	WS									
	Ammoniator- Granulator	PT FL	WS									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-15

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IV</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TENNESSEE	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								
11	No Data								
12	No Data								

FOOTNOTES:

RAD AN CORPORATION

REGION V
TABLES 6.3-16 TO 6.3-21

TABLE 6.3-16

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS			PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	
1	Occidental Agri Chem Ashkum	066/III	14	3540					184NS	0
2	International Minerals Chicago Heights	067/I	14	1540	1240	0087			316NS	403AP
3	U.S.S. Agri-Chemicals Chicago Heights	067/I	14	1540	1240	0089	00089 SIC 2871		474NS	482NS
4	Gilchrist Plant Food Morris	067/I	14	3060	5260				105NS	0
5	Olin Corp Joliet	067/I	14	8320	3760	0008	00008			96TS
6	H & H Farm Chem Warren	068/I	14	3700		0005				3AP

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-16 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	Drying & Cooling Ammoniator & Granulator	PT FL PT FL	CYCL 80.0%	403AP			404		1000		
3	Grinding & Drying Main Stack	PT FL PT FL	WS 92.0% CYCL 60.0%	482NS 482NS							
4	No Data	PT FL									
5	Drying	PT FL	BH 94.5%	96TS			24				

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-16 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY					SIP ALLOWABLES			
					EMISSIONS - TPY			DESIGN		OPER		
					POTENTIAL	ACTUAL ¹		PPH	TPY	PPH	TPY ¹	
6	Drying, Cooling Ammoniator- Granulator	PT FL PT FL		3AP		123						
				3AP		3						

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-16

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3		ALL		4					
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-16

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER SIC	2871 (2874)	STATE	ILLINOIS			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	
7	Agrico Chemical Co Fulton	069/I	14	8300	2660		0005	01002		632NS
8	American Phosphate Granite City	070/I	14	4680	2960					NS
9	Agrico Chemical Co E. St. Louis	070/I	14	6900	2120					42NS
10	F S Services Inc E. St. Louis	070/I	14	6900	2120					NS
11	Mobil Chemical Co E. St. Louis	070/I	14	6900	2120					NS
12	Swift Chemical Co E. St. Louis	070/I	14	6900	2120					526NS

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-16 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	No Data	PT FL									
8	No Data	PT FL									
9	No Data	PT FL									
10	No Data	PT FL									
11	No Data	PT FL									
12	No Data	PT FL									

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-16

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7			ALL	4					
8	No Data								
9	No Data								
10	No Data								
11	No Data								
12	No Data								

FOOTNOTES:

TABLE 6.3-16

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER SIC	2871 (2874)	STATE	ILLINOIS			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
13	Beker Indust Marseilles	071/II	14	4100	4800						0
14	Borden Chem Co Streator	071/II	14	4100	7480				947NS		0
15	Grace & Co Henry	071/II	14	4840		0002	00002 SIC 2871				9
16	Mobil Chemical Depue	071/II	14	0680							0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-16 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871	STATE	ILLINOIS	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY							
					EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN	OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
13	No Data	PT FL									
14	No Data	PT FL									
15	No Data	PT FL									
16	No Data	PT FL									

FOOTNOTES ¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-16

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ILLINOIS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13	No Data								
14	No Data								
15	No Data								
16	No Data								

FOOTNOTES:

TABLE 6.3-17

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	INDIANA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN	
1	Indiana Farm Bureau Schererville	067/I	15	2360	3740				63NS		0
2	Cities Service New Albany	078/I	15	1360	2980				NS		0
3	Indiana Farm Bureau Jeffersonville	078/I	15	1360	2160				63NS		0
4	W. R. Grace & Co New Albany	078/I	15	1360	2980				NS		0
5	Borden Chem Co Indianapolis	080/I	15	2640	2040				63NS		0
6	Indiana Farm Bureau Indianapolis	080/I	15	2640	2040				368NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-17 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871	STATE	INDIANA		PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES				
					POTENTIAL		ACTUAL ¹	DESIGN		OPER			
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹		
1	No Data	PT FL											
2	No Data	PT FL											
3	No Data	PT FL											
4	No Data	PT FL											
5	No Data	PT FL											
6	No Data	PT FL											

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-17

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	INDIANA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-17

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	INDIANA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
7	International Minerals Indianapolis	080/I	15	2640	2040				53NS		0
8	Royster Company Indianapolis	080/I	15	2640	2040				NS		0
9	International Minerals Ft. Wayne	081/II	15	0060	1380				53NS		0
10	Mobil Chem Co Ft. Wayne	081/II	15	0060	1380				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-17 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	INDIANA	PG 2/3					
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES				
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		DESIGN	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹		
7	No Data	PT FL											
8	No Data	PT FL											
9	No Data	PT FL											
10	No Data	PT FL											

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-17

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	INDIANA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								

FOOTNOTES:

TABLE 6.3-18

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MICHIGAN			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Agrico Chem Co Saginaw	122/II	23	4780	4760	0001			316NS		0
2	Borden Chem Co Saginaw	122/II	23	4780	4760	0014			NS	37AP	0
3	Farm Bureau Coop Saginaw	122/II	23	4780	4760	0008			37NS		0
4	Ford Motor Co Dearborn	123/I	23	5320	1140						0
5	W. R. Grace & Co Lansing	125/II	23	2360	2840				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-18 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MICHIGAN	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	Ammoniator - Granulator	PT FL		37		37						
3	No Data	PT FL										
4	No Data	PT FL										
5	No Data	PT FL										

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-18

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MICHIGAN	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	No Data								

FOOTNOTES:

TABLE 6.3-19

SOURCE SUMMARY - EXISTING SOURCES

REGION		V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MINNESOTA		PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Northwest Coop Mills Winona	128/III	24	4200	4180					NS	0
2	Howe Inc Minneapolis	131/I	24	1480			0053	00053 SIC 2819			0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-19 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>V</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> <u>(2874)</u>	STATE <u>MINNESOTA</u>		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-19

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MINNESOTA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								

FOOTNOTES:

TABLE 6.3-20

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OHIO			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Cities Service Cincinnati	079/I	36	2720	1220					NS		0
2	International Minerals Cincinnati	079/I	36	2720	1220					NS		0
3	Mobil Chemical Co Cincinnati	079/I	36	2720	1220					53NS		0
4	Allied Chem Corp Ironton	103/I	36	3380	3080	0001	00001 SIC 2871			NS		1
5	Royster Co Toledo	124/I	36	3720	6600	0048				95MS		0
6	Farm Bureau Coop Dayton	173/I	36	4500	1660					NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-20 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	OHIO		PG 2/3		
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		DESIGN		OPER
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	No Data	PT FL										
3	No Data	PT FL										
4	No Data	PT FL										
5	Ammoniator- Granulator Ammoniator- Granulator Drying & Cooling Drying & Cooling	PT FL PT FL PT FL PT FL	BH-99.8% CYCL-90.0% CYCL-90.0% CYCL-90.0%	55 55 55 55			5					
							189					
							133					
							55					

FOOTNOTES¹
NEDS data

NS - Normal Superphosphate
TS - Triple Superphosphate
AP - Ammonium Phosphate

TABLE 6.3-20 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OHIO	PG 2/3 cont'd			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
6	No Data	PT FL									

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-20

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OHIO	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-20

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER SIC	2871 (2874)		STATE	OHIO			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
7	Eaton Fertilizer Eaton	173/I	36	5640	1940	0001				12AP	0
8	Swift Chem Co Cleveland	174/I	36	1600	1300				53NS		0
9	Borden Chem Co Columbus	176/I	36	2220	1460				NS		0
10	Federal Chemical Columbus	176/I	36	2220	1460	0022				6NS	0
11	Texaco, Inc Columbus	176/I	36	2220	1460				84NS		0
12	W.R. Grace & Co Columbus	176/I	36	2220	1460				79NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-20 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION V		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE OHIO		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	Ammoniator-Granulator	PT FL		12AP		12					
8	No Data	PT FL									
9	No Data	PT FL									
10	Main Stack	PT FL	WS 99.0%	6NS							
11	No Data	PT FL									
12	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-20

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OHIO	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								
11	No Data								
12	No Data								

FOOTNOTES:

TABLE 6.3-20

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OHIO			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²
13	D.M. Scott & Son Marysville	176/I	36	6780	4000	0007				39TS 56NS	0
14	Agrico Chem Co Cairo	177/II	36	0080		0016			289NS		0
15	Kerr-McGee Fostoria	177/II	36	2740	2180	0010					0
16	Agrico Chem Co Washington Court House	182/III	36	2140	7080				79NS		0
17	Agrico Chem Co Cleveland	174/I	36	1600	1300				NS		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-20 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>V</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> (2874)	STATE <u>OHIO</u>		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
13	Run of Pile	PT FL	BH 99.0%	39TS			1				
	Run of Pile				39TS						
	Run of Pile				39TS		1				
14	No Data	PT FL									
15	No Data										
16	No Data	PT FL									
17	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6-3-20

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OHIO	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13	No Data								
14	No Data								
15	No Data								
16	No Data								
17	No Data								

FOOTNOTES:

TABLE 6.3-21

SOURCE SUMMARY - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER SIC	2871 (2874)	STATE	WISCONSIN			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	
1	FS Services Praire De Chien	128/I	51	0640	2840	0001	00001 SIC 2874		AP	75AP
2	Northwest Coop Mills Green Bay	237/II	51	0360	1180				NS	0
3	Royster Co Madison	240/II	51	0680	1860				63NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-21 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	WISCONSIN	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	Drying & Cooling Ammoniator & Granulator	PT FL PT FL	BH 98.0%	75AP			60					
2	No Data	PT FL		75AP			75					
3	No Data	PT FL										

FOOTNOTES¹:

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-21

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	V	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	WISCONSIN	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1			ALL	3					
2	No Data								
3	No Data								

FOOTNOTES:

RADIAN CORPORATION

REGION VI
TABLES 6.3-22 TO 6.3-27

TABLE 6.3-22

SOURCE SUMMARY - EXISTING SOURCES

REGION VI		INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)		STATE	ARKANSAS		PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Miss Chem Corp N. Little Rock	016/II	04	2220	1880					NS		0
2	Olin Corp N. Little Rock	016/II	04	2220	1880		00014			NS		0
3	Agrico Chem Co Walnut Ridge	020/III	04	1380	2660					158NS		0
4	Gulf Oil Corp Walunt Ridge	020/III	04	1380	2660		00003 SIC 2911			NS		0
5	Arkla Chemical Helena	020/III	04	2000	1080	0001				110AP	183AP	0
6	Farmers Fertilizer Texarkana	022/II	04	1680	2560							0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-22 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION VI		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE ARKANSAS		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	No Data	PT FL									
4	No Data	PT FL									
5	Dryer, Cooler	PT FL	CYCL 98.0%	183AP			74				
6	No Data	PT FL									

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-22

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ARKANSAS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-23

SOURCE SUMMARY - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	LOUISIANA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Mobil Chem Co Shreveport	022/II	19	0500	2740				263NS		0
2	Swift Chemical Co Shreveport	022/II	19	0500	2740	None	00027 SIC 2871		184NS		1
3	Agrico Chemical Donaldsville	106/II	19	0180	0820	0015	00015 SIC 2873		708.4AP		1
4	Allied Chemical Geismar	106/II	19	0180		0003	00003 SIC 2819		297AP	920AP	6
5	Borden Chem Co Geismar	106/II	19	0180		0008	00008 SIC 2873		1184NS		7
6	Brewster Geismar	106/II	19	0180					110AP		1

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-23 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	LOUISIANA	PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	No Data	PT FL										
3	No Data	PT FL										
4	Ammoniator & Granulator	PT FL	WS	920AP							238	
5	No Data	PT FL										
6	No Data	PT FL										

FOOTNOTES¹
NEDS data

NS - Normal Superphosphate
TS - Triple Superphosphate
AP - Ammonium Phosphate

TABLE 6.3-23 POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	LOUISIANA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	Entire Source	PT		1					
	Entire Source	FL		1					
3	Boilers	N2	001	4					
	Reforming Furnace	PT	002	4					
	Fume Scrubber	N2	003	4					
	Fume Scrubber	PT	004	4					
	Area Evaporator Scrubber	PT	009	4					
	Area Drill Tower	PT	006	1					
4	Phosphate Dryer	PT	004	7					
	Rock Fluid Bed Clcnr	PT	009	7					
	Phosphate Rock Grinders	PT	006	4					
5	Area Drill Tower	PT	009	1					
	Area Dryer	PT	010	4					
6	No Data								

FOOTNOTES:

TABLE 6.3-24

SOURCE SUMMARY - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	LOUISIANA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
7	Kelly Weber & Co Lake Charles	106/II	19	0520	1600				105NS		0
8	Louisiana-Agri Supply Baton Rouge	106/II	19	0840	0280				NS		0
9	Brewster Luling	106/II	19	2520	1750				330AP		0
10	Monsanto Luling	106/II	19	2520			0005			534AP	0
11	National Phosphate Corp Hahnville	106/II	19	2520			0006			298AP	0
12	Berker Taft		19						475.2AP		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-24 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	LOUISIANA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY							
					EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL	DESIGN	OPER ¹	DESIGN	OPER		
					DESIGN			PPH	TPY	PPH	TPY ¹
7	No Data	PT FL									
8	No Data	PT FL									
9	No Data	PT FL									
10	Dryer, Cooler Ammoniator- Granulator	PT FL PT FL	WS & CYCL	534AP							101
11	Dryer, Cooler Ammoniator- Granulator	PT FL PT FL	BH-99.0%	298AP							122
12	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6 3-24

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>VI</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	LOUISIANA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								
8	No Data								
9	No Data								
10	No Data								
11	No Data								
12	No Data								

FOOTNOTES:

TABLE 6.3-25

SOURCE SUMMARY - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW MEXICO			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	International Minerals Carlsbad	155/III	32	0360	0160					NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-25 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION VI		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE NEW MEXICO		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									

FOOTNOTES ¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-25

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEW MEXICO	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							

FOOTNOTES:

TABLE 6.3-26

SOURCE SUMMARY - EXISTING SOURCES

REGION VI		INDUSTRY	PHOSPHATE FERTILIZER SIC		2871 (2874)		STATE		OKLAHOMA		PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Farmland Industries Muskogee	186/I	37	2000	1980					NS	0
2	Nipak, Inc Tulsa	186/I	37	3020	3000					NS	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-26 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION VI		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE OKLAHOMA		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-26

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	OKLAHOMA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							
2	No Data							

FOOTNOTES:

TABLE 6.3-27

SOURCE SUMMARY - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Farmers Fertilizer Texarkana	022/II	45	0520	5160				263NS		0
2	Farmland Industries Sulphur Springs	022/II	45	2550	5000				NS		0
3	Lone Star Fertilizer Co Nacogodoches	106/II	45	3800	3790				132NS		0
4	W. R. Grace & Co El Paso	153/I	45	1710	1700				NS		0
5	Central Texas Fertilizer Comanche	210/II	45	1090	1080				NS		0
6	Occidental Ag. Chem Plainview	211/II	45	2220	4150		00001 SIC 0000		NS		5

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-27 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY		SIP ALLOWABLES				
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	No Data	PT FL									
4	No Data	PT FL									
5	No Data	PT FL									
6	No Data	PT FL									

FOOTNOTES¹
NEDS data

NS - Normal Superphosphate
TS - Triple Superphosphate
AP - Ammonium Phosphate

TABLE 6-3-27

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1			ALL	0 ¹					
2			ALL	0 ¹					
3			ALL	0 ¹					
4			ALL	0 ¹					
5			ALL	0 ¹					
6			ALL	5 ¹					

FOOTNOTES: ¹ State Office

TABLE 6 3-27

SOURCE SUMMARY - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS			PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	
7	Nipak Inc Littlefield	211/II	45	3080	3260	0002				20.6AP
8	International Minerals Ft. Worth	215/II	45	5070	1880				368NS	0
9	Borden Chem Co Texas City	216/I	45	1990	5170				NS	0
10	American Plant Food Houston	216/I	45	2330	2560				263NS	0
11	Occidental Ag. Chem Houston	216/I	45	2330	2560				NS	0
12	Olin Corp Pasadena	216/I	45	2330	4060	0029	00029 SIC 0000		435.6AP	687.9AP

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-27 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IV	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	TEXAS		PG 2/3	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES		
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	Ammoniator- Granulator	PT FL	CYCL	20.6AP							
8	No Data	PT FL									
9	No Data	PT FL									
10	No Data	PT FL									
11	No Data	PT FL									
12	Dryer, Cooler Ammoniator- Granulator	PT FL PT FL	WS & BH WS & BH	30.9AP 30.9AP							

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-27 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION VI		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE TEXAS		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
12 Cont	Dryer, Cooler	PT	CYCL & BH	169AP							
	Ammoniator-Granulator	FL	CYCL & BH	169AP							
	Dryer, Cooler	PT	WS & BH	119AP							
	Ammoniator-Granulator	FL	WS & BH	119AP							
	Dryer, Cooler	PT	WS+CYCL	222AP							
	Ammoniator-Granulator	FL	WS+CYCL	222AP							
	Ammoniator-Granulator	PT	WS	92AP							
	Ammoniator-Granulator	FL	WS+CYCL	55AP							
	Ammoniator-Granulator	PT	WS+CYCL	147AP							
	Dryer, Cooler	FL									

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-27

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	Ammoniator- Granulator		ALL	0 ¹					
8			ALL	0 ¹					
9			ALL	0 ¹					
10			ALL	0 ¹					
11			ALL	0 ¹					
12	Dryer, Cooler		ALL	5 ¹					

FOOTNOTES: ¹ State Office

TABLE 6.3-27

SOURCE SUMMARY - EXISTING SOURCES

REGION VI		INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
13	Phosphate Chemicals Pasadena	216/I	45	2330	4060					110AP		0
14	Nipak Kerens		45					00001 SIC 0000		72.6AP		0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-27 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
13	No Data	PT FL									
14	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-27

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VI	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	TEXAS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
13			ALL	0 ¹					
14			ALL	0 ¹					

FOOTNOTES: ¹ State Office

RADIAN CORPORATION

REGION VII
TABLES 6.3-28 TO 6.3-31

TABLE 6.3-28

SOURCE SUMMARY - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER SIC	2871 (2874)	STATE	IOWA			PG 1/3			
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Chevron Chemical Ft. Madison	065/I	16	2240	1540	0030	00001 00002 SIC 2873			66AP		4 4
2	First Mississippi Ft. Madison	065/I	16	1540						374AP		4 ³
3	International Minerals Dubuque ⁴	068/I	16	1280	1260					NS		0
4	Mobil Chemical Co Dubuque ⁴	068/I	16	1280	1260					63NS		0
5	International Minerals Mason City ⁴	089/I	16	0680	2520					NS		0
6	Agrico Chem Co Humboldt ⁴	089/I	16	1900	1880					89NS		0

FOOTNOTES:

¹ TVA² NEDS data³ State Information⁴ Not Operating

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-28 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	IOWA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	No Data	PT FL									
4	No Data	PT FL									
5	No Data	PT FL									
6	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-28

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	IOWA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1			ALL	4					
2			ALL	4 ¹					
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

¹ State Information

TABLE 6.3-28

SOURCE SUMMARY - EXISTING SOURCES

REGION <u>VII</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u> SIC <u>2871</u> <u>(2874)</u>	STATE <u>IOWA</u>						PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
7	Farmland Industries Eagle Grove ⁴	089/I	16	4060	1320				NS	0

FOOTNOTES:

¹ TVA² NEDS data³ State Information⁴ Not Operating

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-28 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	IOWA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	No Data	PT FL									

FOOTNOTES :

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-28

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	IOWA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
7	No Data							

FOOTNOTES:

TABLE 6.3-29

SOURCE SUMMARY - EXISTING SOURCES

REGION VII		INDUSTRY PHOSPHATE FERTILIZER	SIC 2871 (2874)	STATE KANSAS				PG 1/3			
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Farmland Ind. Lawrence	095/I	17	0860	1960				134AP		6 ³
2	Farmland Ind Inc Dodge City	100	17	1080			00044				4

FOOTNOTES:

¹ TVA² NEDS data³ State information

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-29 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION VII		INDUSTRY PHOSPHATE FERTILIZER		SIC 2871 (2874)	STATE KANSAS		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT P	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-29

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	KANSAS	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2			ALL	4					

FOOTNOTES:

TABLE 6.3-30

SOURCE SUMMARY - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSOURI	PG 1/3			
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS	
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²	
1	Lange Brothers St. Louis	070/I	26	4300	4280				94TS		0
2	Farmland Industries St. Joseph	094/I	26	0520	4260				NS		7 ³
3	Missouri Farmers Palmyra ⁴	137/II	26	2940	3580				NS		0
4	Farmland Industries Joplin ⁴	139/I	26	2260	2360				53NS		0
5	W.R. Grace & Co Joplin	139/I	26	2260	2360				395NS		4 ³

FOOTNOTES:

¹ TVA² NEDS data³ State information⁴ Not operating

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-31 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>VII</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> <u>(2874)</u>	STATE <u>MISSOURI</u>						PG 2/3	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT P	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES				
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹		
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	No Data	PT FL										
3	No Data	PT FL										
4	No Data	PT FL										
5	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-30

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	MISSOURI	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4	No Data								
5		ALL	4 ¹						

FOOTNOTES:

¹ State Information

TABLE 6.3-31

SOURCE SUMMARY - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEBRASKA			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Texaco, Inc S. Omaha ³	085/I	28	0780	1880					316NS	0

FOOTNOTES:

¹ TVA² NEDS data³ Not operating

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-31 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>VII</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>	SIC <u>2871</u> (2874)	STATE <u>NEBRASKA</u>	PG 2/3						
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-31

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	NEBRASKA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								

FOOTNOTES:

RADIAN CORPORATION

REGION VIII
TABLE 6.3-32

TABLE 6.3-32

SOURCE SUMMARY - EXISTING SOURCES

REGION VIII		INDUSTRY	PHOSPHATE FERTILIZER SIC		2871 (2874)		STATE UTAH				PG 1/3
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Mineral Fertilizer Woods Cross	220/I	46	0220				10002-SIC 2874			0
2	Mineral Fertilizer Midvale	220/I	46	0900	0540				15NS		0
3	Stauffer Chemical Salt Lake City	220/I	46	0900	0920	0059	00059-SIC 2874			58NS 20TS 40AP	0

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-32 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	VIII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	UTAH	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	No Data	PT FL									
2	No Data	PT FL									
3	Grinding & Drying Granular Drying & Cooling	PT FL PT FL PT FL	WS 96.7% WS 95.0% WS 99.6%			58NS 20TS 40AP					

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-32

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	VIII	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	UTAH	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								

FOOTNOTES:

RADIAN CORPORATION

REGION IX
TABLES 6.3-33 TO 6.3-34

TABLE 6.3-33

SOURCE SUMMARY - EXISTING SOURCES

REGION	IX	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ARIZONA			PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS	
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹		
1	AZ Agrochemical Co Chandler ³	015/I	03	0440	0120	0163				26.4AP	14.3AP	0

FOOTNOTES:

¹ TVA² NEDS data³ Also produces sulfuric acid

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-33 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IX	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ARIZONA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	Dryer, Cooler Ammoniator- Granulator	PT FL PT FL	WS-98.9% None	14.3AP 14.3AP							13 13

FOOTNOTES

¹ NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-33

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IX</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	ARIZONA	PG3/3
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS			
					01	02	03	04
1	No Data							

FOOTNOTES:

TABLE 6.3-34

SOURCE SUMMARY - EXISTING SOURCES

REGION	IX	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871		STATE	CALIFORNIA		PG 1/3	
					(2874)			SOURCE ID NUMBERS			
REFERENCE NUMBER	SOURCE LOCATION	AQCR/PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	OPER ²
1	Collier Carbon & Chemical Pittsburg	030/II	05	1620		0009	00505		55AP		0
2	Chevron Richmond ⁴	030/II	05	1620	6300				37.4AP		4 ³
3	Occidental Lathrop	030/II	05	6960			00011		39.6AP		0
4	Valley Nitrogen Prod. Helm ⁵	031/I	05	2820		0039	00001		77AP	350AP	0
5	AFC Inc, Bakersfield	031/I	05	3480	0520	0007	00504		NS AP	56.8TS 584AP	0
6	Kaiser Fontana	033/I	05	6700	2680				33AP		5 ³

FOOTNOTES:

¹ TVA² NEDS data³ Regional office data⁴ Also produces nitric acid

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

⁵ Also produces sulfuric acid

TABLE 6.3-34 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	IX	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	CALIFORNIA	PG 2/3			
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					EMISSIONS - TPY		SIP ALLOWABLES				
					POTENTIAL	ACTUAL ¹	DESIGN	OPER ¹	PPH	TPY	PPH
1	Grinding, Drying	PT FL	WS								
2	No Data	PT FL									
3	No Data	PT FL									
4	Dryer, Cooler	PT FL	CYCL+WS	350AP							136
5	Dryer, Cooler Granular Ammoniator-	PT FL PT FL PT FL	CYCL+WS 98.2% WS-50.0% WS-50.0%	56.8TS 56.8TS 584AP							41
6	No Data	PT FL									15

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-34

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IX</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	CALIFORNIA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2			ALL	4					
3	No Data								
4	No Data								
5	No Data								
6	No Data								

FOOTNOTES:

TABLE 6.3-34

SOURCE SUMMARY - EXISTING SOURCES

REGION	IX	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	CALIFORNIA		PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	
7	Stauffer Chem Martinez ³	030/II	05	1620	3600		00019 SIC 2819		442NS	0

FOOTNOTES:

¹ TVA² NEDS data³ Also produces sulfuric acid

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-34 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>IX</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> (2874)	STATE <u>CALIFORNIA</u>		PG 2/3				
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER ¹	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
7	No Data	PT FL									

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-34

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	<u>IX</u>	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	CALIFORNIA	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
7	No Data								

FOOTNOTES:

RADIAN CORPORATION

REGION X
TABLES 6.3-35 TO 6.3-36

TABLE 6.3-35

SOURCE SUMMARY - EXISTING SOURCES

REGION	X	INDUSTRY	PHOSPHATE FERTILIZER SIC	2871 (2874)		STATE	IDAHO		PG 1/3		
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY PT	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer	SOURCE COMPLIANCE STATUS	
			STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹		
1	Beker Industries Agricult Prod Conda	061/I	13	0420		0003	00003 00006		323AP 312TS	50AP	1
2	J.R. Simplot Pocatello	061/I	13	1260		0006	00006 00007		233AP 110TS	67NS 193AP 100TS	6
3	Bunker Hill Chemical Kellogg	062/I	13	1420	0840	0001	00001 SIC 3332				6
4	North Idaho Phosphate Kellogg	062/I	13	1420	0840	0002	00002 SIC 2874		46AP	40AP	4

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-35 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION	X	INDUSTRY	PHOSPHATE FERTILIZER		SIC	2871 (2874)	STATE	IDAHO		PG 2/3	
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT	CONTROL EQUIPMENT-EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY			SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		OPER	
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹
1	Ammoniator-Granulator	PT FL	None	50AP							
2	Grinding, Drying Dryer, Cooler Granular Run-of-Pile Dryer, Cooler Ammoniator-Granulator	PT FL PT FL PT FL PT FL PT FL	BH-99.9% WS-90.0% None None CYCL-80.0% None	67NS 73AP 100TS 100TS 120AP 120AP			2				260 320 103
3	No Data	PT FL					300				
4	Dryer, Cooler Ammoniator-Granulator	PT FL PT FL	WS-98.0% WS-98.0%	40AP 40AP							66 66

FOOTNOTES:

¹ NEDS data

NS - Normal Superphosphate
 TS - Triple Superphosphate
 AP - Ammonium Phosphate

TABLE 6.3-35

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	X	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	IDAHo	PG 3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								
3	No Data								
4		ALL	4						

FOOTNOTES:

TABLE 6.3-36

SOURCE SUMMARY - EXISTING SOURCES

REGION	X	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	WASHINGTON			PG 1/3	
REFERENCE NUMBER	SOURCE LOCATION	AQCR/ PRIORITY	SAROAD CODING NUMBERS			SOURCE ID NUMBERS			SOURCE PRODUCTION RATE-KTPY Fertilizer		SOURCE COMPLIANCE STATUS
			PT	STATE	COUNTY	CITY	NEDS	CDS	STATE	DESIGN ¹	
1	Stauffer Chemical Tacoma	229/I	49	1560	2140					289NS	0
2	Chevron Chemical Kennewick	230/I	49	0160	0940	0002	00002 SIC 2873			28.6AP	8

FOOTNOTES:

¹ TVA² NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-36 POINT EMISSIONS AND ALLOWABLE - EXISTING SOURCES

REGION <u>X</u>		INDUSTRY <u>PHOSPHATE FERTILIZER</u>		SIC <u>2871</u> (2874)	STATE <u>WASHINGTON</u>		PG 2/3					
REFERENCE NUMBER	POINT SOURCE DESCRIPTION ¹	POLLUTANT POW	CONTROL EQUIPMENT- EFFICIENCY ¹	NEDS POINT SOURCE OPER RATE KTPY	EMISSIONS - TPY				SIP ALLOWABLES			
					POTENTIAL		ACTUAL ¹	DESIGN		DESIGN		OPER
					DESIGN	OPER ¹		PPH	TPY	PPH	TPY ¹	
1	No Data	PT FL										
2	No Data	PT FL										

FOOTNOTES¹

NEDS data

NS - Normal Superphosphate

TS - Triple Superphosphate

AP - Ammonium Phosphate

TABLE 6.3-36

POINT COMPLIANCE STATUS - EXISTING SOURCES

REGION	X	INDUSTRY	PHOSPHATE FERTILIZER	SIC	2871 (2874)	STATE	WASHINGTON	PG3/3	
REFERENCE NUMBER	CDS POINT DESCRIPTION	POLLUTANT	CDS POINT	POINT COMPLIANCE STATUS	COMPLIANCE SCHEDULE INCREMENTS OF PROGRESS				
					01	02	03	04	05
1	No Data								
2	No Data								

FOOTNOTES:

RADIAN CORPORATION

APPENDIX I

CONTROL EQUIPMENT IDENTIFICATION CODES

RADIAN CORPORATIONCONTROL EQUIPMENT IDENTIFICATION CODES

<u>Codes</u>	<u>Equipment</u>
WS	Wet Scrubber
GC	Gravity Collector
CYCL	Centrifugal Collector
ESP	Electrostatic Precipitator
GS	Gas Scrubber
MIST ELIM	Mist Eliminator
BH	Fabric Filter
CAT	Catalytic Afterburner
INCIN	Direct Flame Afterburner
HES	High Energy Scrubber