

BOB GRAHAM GOVERNOR

JACOB D. VARN SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

September 23, 1980

Mr. William B. Lindler, V.P. Dickerson, Inc. P. O. Box 40949 Jacksonville, Florida

Dear Mr. Lindler:

			Number _	AC	16-33465		, d	ated	September	17,	1980
to	Dicke	rson, I	nc.								
issued	l purs	uant to	Section	4	03	_,	Florida	Stat	tutes.		

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

Steve Smallwood, Thief Bureau of Air Quality Management

The Florida Department of Environmental Regulation (DER) has received an application from and intends to issue a Construction Permit to Dickerson, Inc. for the Construction of an Asphalt Batch Plant to be located at U.S. Highway No. 1 and Shad Road, in Duval County, Florida. A determination of Best Available Control Technology was required. Copies of the Application's BACT determination, Technical Evaluation, and Departmental Intent are available for inspection at the following offices: Department of Environmental Regulation, Bureau of Air Quality Management, 2600 Blair Stone Road, Tallahassee, Florida 32301, Duval County Department of Health, Welfare and Bio-Environmental Services, Division of Bio-Env. Serv., 515 West 6th Street, Jacksonville, Florida Florida Department of Environmental Regulation, St. Johns River Subdistrict, 3426 Bills Road, Jacksonville, Florida 32207. on this action shall be submitted in writing to: John Syec of the Tallahassee Office, within 30 days of this notice.

To appear in Jacksonville Times-Union August 15 or 18, 1980.

31/16/0076



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

CONSTRUCTION

NO. AC 16-33465
DICKERSON, INC.
DUVAL COUNTY
ASPHALT BATCH PLANT

DATE OF ISSUANCE

17 TH SEPTEMBER 1980

DATE OF EXPIRATION

MARCH 31, 1981

JACOB D. VARN,

Final Determination

Dickerson, Inc.

Jacksonville, Florida

Construction Permit

Application Number

AC 16-33465

Florida Department of Environmental Regulation

Bureau of Air Quality Management

Central Air Permitting

September 17, 1980

Dickerson, Inc. Final Determination

Dickerson, Inc.'s Construction Permit Application for an Asphalt Batch Plant at U.S. Highway No. 1 and Shad Road in Duval County, Florida has been reviewed by the Bureau. Public notice of the Department's Intent to issue was published in the Jacksonville Times - Union on August 15, 1980. Copies of the preliminary determination were available for public inspection at the Duval County Bio-Environmental Services, FDER St. Johns River Subdistrict, and the Bureau of Air Quality Management.

No letters or comments were received as a result of the public comment period. Therefore, the final action of the Department should be to issue the permit as noticed in the public review process.



BOB GRAHAM GOVERNOR JACOB D. VARN SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICANT: Dickerson, Inc.
P. O. Box 40949

Jacksonville, Florida 32203

PERMIT/CERTIFICATION NO. AC 16-33465

COUNTY: Duval

PROJECT: Asphalt Batch Plant

For the construction of a 160 ton/hr. asphalt batch plant to be located at U.S. Highway No. 1 and Shad Road in Duval County, Florida.

The UTM coordinates are 445.320E, 333.9660N. Latitude and Longitude coordinates are 30°11'31" N and 81°34'01"W.

Construction shall be in accordance with the attached permit application, plans, and documents except as otherwise noted on page 3, "Specific Conditions".

Attachments are as follows:

1. Application to Construct Air Pollution Sources" DER form 17-1.122(16).

GENERAL CONDITIONS:

^{1.} The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions:, and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed

PERMIT NO.: APPLICANT:

on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, amployees, servants or representatives.

- 2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
- 3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue; and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
- 4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- 5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
- 6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
- 7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
- 9: This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
- 10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
- 11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
- 12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 13. This permit also constitutes:

□ Determination of Best Available Control Technology (BACT)

Determination of Prevention of Significant Deterioration (PSD)

[] Cartification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

PERMIT NO.: AC 16-33465 APPLICANT: Dickerson, Inc.

Specific Conditions

- 1. During the construction phase, quarterly reports on construction progress, commencing 3 months after construction, shall be submitted to the Bureau of Air Quality Management.
- 2. Maximum Allowable Emission Rates from the plant shall be:

Particulate Matter -

16 pounds per hour, not to exceed 0.04 grains per dry standard cubic foot.

- The plant shall not emit gases which exhibit 20 percent opacity or greater.
- 4. Sulfur content of the fuel used for the dryer will not exceed 0.24 percent.
- 5. Equipment operating time periods shall not exceed 5 hours/day, 5 days/week and 40 weeks a year. Total equipment operating hours shall not exceed 1,000 hours/year.
- 6. Production rate for the plant shall not exceed 160 tons/hour.
- 7. Testing methods used to determine compliance with the standards prescribed in 2. and 3. of the "Specific Conditions" shall be as stated in 40 C.F.R. 60.93.
- 8. The applicant shall provide the Department with 30 days notice prior to compliance testing. Upon approval of test results and prior to 90 days before expiration of this permit, a complete application for an Operating Permit shall be submitted to the DER, St. Johns River District or its designee. Full operation of the plant may then be conducted in compliance with the terms of this permit until expiration or receipt of an Operating Permit.

Jacob D. Varn, Secretary

Expiration Date: March 31, 1981

Issued this 17th day of SEPTEMBER, 19 80

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routin And/Or To Or	ng To District Offices ther Than The Addressee
То:	Loctn.:
То:	Loctn.: Loctn.: Date:
To:	Loctn.:
From:	Date:

SEP 17 1980

TO: Jacob D. Varn, Secretary, FDER

FROM: Steve Smallwood, Chief, BAQM

DATE: September 17, 1980

SUBJ: Approval and Signature of Attached Air Constant Secretary

Permit described below.

Attached please find one Air Construction Permit for which the applicant is Dickerson, Inc. The proposed construction is an Asphalt Batch Plant to be located at U.S. Highway No. 1 and Shad Road in Duval County, Florida.

Day 90, after which the permit would be issued by default is November 3, 1980.

The Bureau recommends your approval and signature.

SS:dav

-> P4/14

Company Name: Dicherson Asphalt Permit Number: AC 14-33465 Pounty: Permit Engineer: Others involved:
Application: Initial Application Incompleteness Letters Responses Final Application (if applicable) Waiver of Department Action Department Response
Intent: Intent to Issue Notice to Public Technical Evaluation BACT Determination
Attachments: Correspondence with: EPA Park Services County Other Proof of Publication Petitions - (Related to extensions, hearings, etc.)
Final Determination: Final Determination Signed Permit BACT Determination
Post Permit Correspondence: Extensions Amendments/Modifications Response from EPA Response from County Response from Park Services

DER AIR PERMIT INVENTORY SYSTEM POINT DATA

NAME: DI CIKIERSIOINI ING ISHAIDI RIDI BIATICIHI PILAINTI LILL DIST: 31 CNTY: 16 PLANT: LILL 8LOC: USI 12 - SHAIDI RIDI RIDI LILL CITY: 1960 ZIP: 32203 OWNR: P TYPE: L # OF PNTS: OIL
POINT #: O 1 TYPE: NUMBER OF SCC'S: NUMBER OF POLLUTANTS EMITTED: CONSTRUCT PATS:/ #AC 1 6 - 3 13 4 6 5 OPERATE PATS:/ #AO/ ISS: \$1009117 EXP: \$110331 INIT-CONST: \$1009117 ISSUED: \$1009117 EXPIRES: \$110:3131 (YYM)DD)
DESCRIPTION: 160 TPH ASPHALT BATCH PLANT W/ BAGHOUSE IPP: NEW/EXIST: Neshap: _ ECAP: _ COMMON POINTS: (64 spaces maximum)
STACK HT:, BLR-CAP:, TEMP:, ZI31ZF FLOW:, SI11195CFM PLUME:, BLR-CAP:, BLR-CAP:, OPERATING DATA: NORMAL CONDS. YOR: \$\frac{\mathbb{S}_1\mathbb{O}}{\mathbb{O}}\$ DEC-FEB: \$\frac{\mathbb{Z}_1\mathbb{S}_2}{\mathbb{S}}\$ MAR-MAY: \$\frac{\mathbb{Z}_1\mathbb{S}_2}{\mathbb{S}}\$ JUN-AUG: \$\frac{\mathbb{Z}_1\mathbb{S}_2}{\mathbb{S}}\$
PERMITTED SCHEDULE HRS/DAY: OLS DAYS/WK: SWKS/YR: 410 OPS REPTD: (YYMMDD) HRS/DAY: DAYS/WK: WKS/YR:
PROCESS RATES: RAW MATERIAL:3_2_0_0_0 UNITS:0_FUEL:1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
POINT COMMENTS: QRC:YR/MO: SCHEDULED: (YYMM) UPDT: (YYMMDD)
PERMIT:YOR: INSPECTED:(YYMMDD) NEXT-INSP:(YYMMDD) INSP-CMTS:(YYMMDD)
EDS:/I

DER Form PERM 12-7(b) (Jan 79)

DER AIR PERMIT INVENTORY SYSTEM PLANT DATA

NAME:	DICKERSION ING SHAD RD BATCH PLANT DIST: 31 CNTY: LLE PLANT
ßLOC:	US: 1 - 5 HAD RD RD CITY: 1960 ZIP: 32203 OWNR: P TYPE: 019 # OF PNTS: 011
	CONTACT: WIBILLINDILIER ADDR: PIO BIOX 40949
	CITY: SIAICIKISIONIVILICIEI III ST: FIL ZIP: 312121013
	AQCR: 49 SIC: 2951
	LAT: 30: 111:31 LON: 811:34:01
	UTM ZONE: 1.7 EAST: 4.4.5.3 NORTH: 3.3.3.9.6
COMME	NTS:

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To Distr And/Or To Other Than 1	ict Offices The Addressee
TO: Kile	Loctn.:
To:	Loctn.:
То:	Loctn.:
From:	Date:

TO: Dickerson, Inc. Jacksonville

Jacksonville Bio-Environmental Services

Doug Dutton, DER, St. Johns River Subdistrict

FROM: Steve Smallwood, Chief

Bureau of Air Quality Management

DATE: August 15, 1980

SUBJ: Proposed Department Action on Dickerson, Inc.

Application to Construct Asphalt Batch Plant at U.S. Highway No. 1 and Shad Road in Duval County, Florida.

Attached is one copy each of BACT, Preliminary Determination and Technical Evaluation, and the proposed Construction Permit for Dickerson, Inc. of Jacksonville, Florida.

Pursuant to 17-2.091 and 40 CFR 51.18, this information is to be maintained on file for public review for 30 days.

Comments are to be submitted to the Bureau of Air Quality Management.

SS: caa

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

F. And/	or Routing To District Offices Or To Other Than The Addressee
То:	Loctn.:
То:	Loctn.:
To:	Loctn.:
From:	Date:

TO: Jacob D. Varn

FROM: Steve Smallwood

DATE: August 14, 1980

SUBJ: BACT Determination for Asphalt Batch Plant - Dickerson

Inc. of Jacksonville

Facility: The proposed plant will manufacture asphaltic con-

crete at a rate of 160 tons per hour. The significant sources of air pollution are the dryer and other aggregate handling equipment which could potentially emit 3,600 tons/year of particulate matter without emission controls. The plant will be located within the Jack-

sonville nonattainment area of influence for par-

ticulate matter.

BACT Requested by Applicant:

Particulates:

0.04 grains/dscf

so₂:

0.24% sulfur fuel oil

Date of Receipt of a Complete BACT Application:

August 5, 1980

Date of Publication in the Florida Administrative Weekly:

August 15, 1980

EPA's New Source Performance Standards for Asphalt Concrete Plants:

Particulate Emission Limitation:

No greater than 0.04 grains per dry standard cubic foot

Opacity:

Less than 20 per cent

BACT Determination by Florida Department of Environmental Regulation:

Particulates:

No greater than 0.04 grains/dscf

Opacity:

Less than 20 per cent

Test Methods:

As given in Subpart I, 40 CFR 60.93

Jacob D. Varn August 14, 1980 Page Two

Justification of DER Determination:

Since potential particulate emissions will be over 250 tons per year, but allowable particulates emitted will be under 50 tons per year, the applicable limitation will be the Federal NSPS. This is consistant with the Florida Nonattainment Rule (17-2.17 F.A.C.) and also with previous FDER determinations for asphalt concrete plants. A more stringent standard is not justified, since there have been no significant improvements technically in controllong particulates for this type of facility.

There will be no sulfur dioxide BACT emission limitation since the company proposes to use 0.24% sulfur No. 2 Diesel Fuel to fire the dryer. The resulting $\mathrm{NO}_{\mathbf{X}}$ emissions will also not be great enough for BACT consideration.

Details of the Analysis May be Obtained by Contacting:

John Svec, Engineer
Florida Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Twin Towers Office Building
Tallahassee, Florida 32301

Recommendations from:

Bureau of Air Quality Management

Steve Smallwood

Date: Quantities

Jacob D. Varn

Date: <u>August 15, 1980</u>

Technical Evaluation and Preliminary Determination

Dickerson, Inc. Jacksonville, Florida

Construction Permit
Application Number:
AC 16-33465

Florida Department of Environmental Regulation

Bureau of Air Quality Management

Central Air Permitting

August 12, 1980

I. PROPOSED DEPARTMENT ACTION:

The Department intends to issue the requested permit to Dickerson, Inc. for the construction of an asphalt batch plant to be located at U.S. Highway No. 1 and Shad Road in Duval County, Florida, subject to public comment received as a result of this notice.

Any person wishing to file comments on this proposed action may do so by submitting such comments in writing to:

John Svec
Florida Department of Environmental
Regulation
Bureau of Air Quality Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Any comments received within thirty days after publication of this notice will be considered and noted in the Department's final determination.

Any person whose substantial interest would be affected by the issuance or denial of this permit may request an administrative hearing by filing a petition for hearing as set forth in Section 28-5.15, F.A.C. (copy attached). Such petition must be filed within 14 days of the date of this notice with:

Mary Clark
Florida Department of Environmental
Regulation
Office of General Counsel
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

II. SUMMARY OF EMISSIONS AND AIR QUALITY ANALYSIS:

- a. The proposed plant is to be located in the area of influence of the Jacksonville Nonattainment area for particulates.
- b. The significant sources of air pollution will be the rotary dryer and, to a lesser degree, the other dry aggregate processing and handling equipment which could in total potentially emit 3,600 tons/year of particulates.
- No. 2 Diesel Fuel with 0.24% sulfur content is the proposed fuel to be used in the drum, resulting in negligible combustion pollutants including sulfur dioxide.

III. SYNOPSIS OF APPLICATION:

a. Name and Address of Applicant:
Dickerson, Inc.
P. O. Box 40949
Jacksonville, Florida 32203

b. Description of Project and Controls:

The applicant will be constructing an asphalt batch plant which will produce roughly 160 tons per hour of asphalt concrete. Particulate emissions will be controlled by a baghouse collector.

IV. RULE APPLICABILITY:

The proposed plant is to be located within the area of influence of the Jacksonville Particulate Nonattainment Area, and in the Duval County Nonattainment Area for ozone. It is therefore subject to the nonattainment rule limitations for particulate emissions and hydrocarbon emissions in 17-2.17 F.A.C.). Since potential emissions of particulates are much greater than 250 tons/year, the plant is also subject to PSD review under 17-2.04, and BACT under 17-2.03.

V. FINDINGS:

Pollutant

1. Based on EPA emission factors published in AP-42 (Tables 1.3-1 and 8.1-1), uncontrolled emissions for the plant resulting from process and handling equipment, as well as combustion gases from the dryer, will be as follows:

Particulates SO ₂	7,200 (3,600) 7.5 (3.8)
NO_2^-	4.8 (2.4)
CO	1.1 (0.6)
Hydrocarbons	0.2 (0.1)

These emission figures are based on 1,000 operating hours per year, using .24 percent sulfur Diesel fuel for the dryer, and a production rate of 160 tons per hour, as given in the application.

- 2. The Federal New Source Performance Standard for this type facility is a maximum of 0.04 grains particulate per dry standard cubic foot, and less than 20 percent opacity. The plant has been determined exempt from Nonattainment limits according to 17-2.17(1)(c)2.c.
- 3. The maximum allowable emission limits, based on NSPS and test data from an identical unit operated by the applicant, are as follows:

Particulates:

16 lb./hr. not to exceed 0.04 grains/DSCF

Uncontrolled emissions, lb./hr. (ton/yr.)

Opacity:

Less than 20 percent

4. A modeling analysis of PSD and Nonattainment Area impact has been deemed unnecessary, given the minimal emission rate and the operating conditions.

- 5. Construction should commence and be completed within a reasonable time, based on projections included in the application.
- 6. Construction should reasonably conform to the plans submitted.
- 7. Testing methods used to determine compliance with the standards prescribed in the "Specific Conditions" of the permit shall be as given in $40\ C.F.R.\ 60.93.$

VI. PROPOSED ALLOWABLE EMISSIONS AND PERMIT CONDITIONS:

See Draft Permit

Attachment: Rule 28-5



BOB GRAHAM GOVERNOR

JACOB D. VARN SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICANT: Dickerson, Inc.

P. O. Box 40949

Jacksonville, Florida 32203

PERMIT/CERTIFICATION NO. AC 16-33465

COUNTY: Duval

PROJECT: Asphalt Batch Plant

For the construction of a 160 ton/hr. asphalt batch plant to be located at U.S. Highway No. 1 and Shad Road in Duval County, Florida.

The UTM coordinates are 445.320E, 333.9660N. Latitude and Longitude coordinates are $30^{\circ}11'31''$ N and $81^{\circ}34'01''W$.

Construction shall be in accordance with the attached permit application, plans, and documents except as otherwise noted on page 3, "Specific Conditions".

Attachments are as follows:

1. Application to Construct Air Pollution Sources" DER form 17-1.122(16).

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions:, and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed

DER FORM 17-1.122(63) Page 1 of 3

PERMIT NO.: APPLICANT:

on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

- 2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
- 3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
- 4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- 5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
- 6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
- 7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
- 9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
- 10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
- 11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
- 12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 13. This permit also constitutes:

Determination of Prevention of Significant Deterioration (PSD)

[] Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

PERMIT NO.: AC 16-33465 APPLICANT: Dickerson, Inc.

Specific Conditions

- During the construction phase, quarterly reports on construction progress, commencing 3 months after construction, shall be submitted to the Bureau of Air Quality Management.
- 2. Maximum Allowable Emission Rates from the plant shall be:

Particulate Matter -

16 pounds per hour, not to exceed 0.04 grains per dry standard cubic foot.

- 3. The plant shall not emit gases which exhibit 20 percent opacity or greater.
- 4. Sulfur content of the fuel used for the dryer will not exceed 0.24 percent.
- 5. Equipment operating time periods shall not exceed 5 hours/day, 5 days/week and 40 weeks a year. Total equipment operating hours shall not exceed 1,000 hours/year.
- 6. Production rate for the plant shall not exceed 160 tons/hour.
- 7. Testing methods used to determine compliance with the standards prescribed in 2. and 3. of the "Specific Conditions" shall be as stated in 40 C.F.R. 60.93.
- 8. The applicant shall provide the Department with 30 days notice prior to compliance testing. Upon approval of test results and prior to 90 days before expiration of this permit, a complete application for an Operating Permit shall be submitted to the DER, St. Johns River District or its designee. Full operation of the plant may then be conducted in compliance with the terms of this permit until expiration or receipt of an Operating Permit.

Expiration Date:	February	28,	1981	Issued this	_ day of	, 19
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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

DER FORM 17-1.122(63) Page: 3 of 3

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD FILE#000000033465 COE# DER PROCESSOR#SVEC DER OFFICE:TLH FILE NAME : DICKERSON, INC. DATE FIRST REC: 08/04/80 APPLICATION TYPE:AC APPL NAME: LINDLER, WILLIAM B., V.P. APPL PHONE: (904)786-1020 PROJECT COUNTY: 16 ADDR:P.O. BOX 40949 ST#FLZIP#32203 CITY:JACKSONVILLE AGNT NAME : POTTER, ALAN W., P.E. AGNT PHONE: (904)725-4522 ADDR:6957 LILLIAN RD. CITY:JACKSONVILLE ST#FLZIP#32244 ADDITIONAL INFO REG: / / / / REC: / / / / APPL COMPLETE DATE: / / COMMENTS NEC:Y DATE REQ: / / DATE REC: LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: HEARING REQUEST DATES: 1 HEARING WITHDRAWN/DENIED/ORDER -- DATES: 1 HEARING ORDER OR FINAL ACTION DUE DATE: MANUAL TRACKING DESIRED:N THIS RECORD HAS BEEN SUCESSFULLY ADDED 08/06/80 08:57:24 FEE PD DATE#4:08/04/80 \$0020 RECEIPT#00033543 REFUND DATE:08/04/80REFUND \$0000 FEE PD DATEMEN / / \$ RECEIPT# REFUND DATE: / / REFUND \$ APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:08/04/80 REMARKS: REFUNDS DATE ENTRY INVALID, COULD NOT ERASE, WILL NOT RETYPE! ASPHALT BATCH PLANT, LAT,/LON. = 30DEG, 11MIN, 31SEC, N. / 81DEG, 34MIN, 01SEC, W. UTM = 445.320 E. / 3339.660 N. STANDARD HAVEN'S INC., ALPHA/MARKIII. LOCATED SHAD RD. @ U

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 33543

MEGELPT FOR APPLIC	CATION FEES AND MISCELLA	NEODS REVENUE	
Received from A. W. TOTIFF FO	R DEFERSON INC.)	Date 5 AUGUST.	1380_
Address 6957 LILIAN R	D. I LACKSHVILLE FL.	2211 20°0	
Applicant Name & Address V.F. LIND	ER V.P. DICKERSON INC.	20.40949 Inchis	CHULLEF
•		(1.57.17)	3770
Source of Revenue	· · · · · · · · · · · · · · · · · · ·		
Revenue Code Olol	Application Number <u>\lambda</u> C	16-33465	
(" !!!!!	MGJ	lark-	

ALAN W. POTTER CONSULTING ENGINEER

6957 LILLIAN ROAD

JACKSONVILLE, FLORIDA 32211

PHONE 904/725-4522

August 1, 1980

Mr. Edmund Balducci Asst. Pollution Control Engineer City of Jacksonville Air and Water Pollution Control 515 West Sixth Street Jacksonville, Florida 32206

Re: Dickerson, Inc.

New Asphalt Manufacturing Plant at Shad Road & U.S. Hwy. No. 1

Jacksonville, Florida

Dear Mr. Balducci:

Please find enclosed, five (5) sets of Application to Construct, flow diagrams and check in the amount of \$20.00 on referenced.

Dickerson, Inc., plans to construct a new Asphalt Manufacturing Plant on U.S. Highway No. 1 approximately 0.8 miles south of the intersection with Sunbeam Road, Jacksonville, Florida.

The new plant is equipped with a Standard Haven's, Inc., Alpha/Mark III, Size 30, and incorporates the latest technology of the industry.

Air emissions control utilizes the Bag House principal. All captured dust is scavanged, then introduced into the liquid asphalt for use as filler material.

Your review and approval of this request for permit to construct is requested.

Sincerely,

HAE/bod

cc: Dickerson, Inc.







STATE OF FLORIDA CONTROL POLICION DEPARTMENT OF ENVIRONMENTAL REGULATION VILLE

APPLICATION TO OPERATE/CONSTRUCT **AIR POLLUTION SOURCES**

SOURCE TYPE:	[A] New' [] Existing'
APPLICATION TYPE: [X] Construction [] Operation [] N	
COMPANY NAME: Dickerson, Inc.	COUNTY:Duval
Identify the specific emission point source(s) addressed in this app No. 2, Gas Fired)Asphalt Manufacturing Plant	lication (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit with Baghouse
	ad Road CityJacksonville
UTM: East $\frac{4}{45320}$	North3339660
Latitude 30 0 11 , 31 "N	Longitude <u>81</u> o <u>34</u> ′ <u>01</u> ′w
APPLICANT NAME AND TITLE: William B. Lindler,	Vice President
APPLICANT ADDRESS: P.O. Box 40949, Jack	
SECTION I: STATEMENTS BY	APPLICANT AND ENGINEER
A. APPLICANT	
I am the undersigned owner or authorized representative of _	Dickerson, Inc.
I certify that the statements made in this application for a	Construction
pollution control source and pollution control facilities in Florida Statutes, and all the rules and regulations of the dep	nowledge and belief. Further, I agree to maintain and operate the such a manner as to comply with the provision of Chapter 403, partment and revisions thereof. I also understand that a permit, if II promptly notify the department upon sale or legal transfer of the
	William B. Lindler, Vice President
	Name and Title (Please Type)
	Date: <u>Aug. 1, 1980</u> Telephone No(904) 786-1020
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)
be in conformity with modern engineering principles application. There is reasonable assurance, in my proferly maintained and operated, will discharge an effluent that crules and regulations of the department. It is also agreed that	n control project have been designed/examined by me and found to ble to the treatment and disposal of pollutants characterized in the fessional judgment, that the pollution control facilities, when propomplies with all applicable statutes of the State of Florida and the the undersigned will furnish, if authorized by the owner, the appliation of the pollution control facilities and, if applicable, pollution
	Signed: Wholes
POPPE	Alan W. Potter, P.E. Name (Please Type)
(Affix, Seal)	Alan W. Potter, Consulting Engineer
(Afrix, Seal)	Company Name (Please Type)
34 446	6957 Lillian Road, Jacksonville, FL 3221
Flores	Mailing Address (Please Type)
Florida Registration No. 5438	Date: Aug. 1, 1980 Telephone No. (904) 725-4522

¹See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

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SECTION II: GENERAL PROJECT INFORMATION

formance as a result of installation. State whether the project will result in full compliance. A Construct New Asphalt Manufacturing Plant with Bag House.	•
will be equipted with Dry-Type Cyclone Dust Collector and	
in operation, Plant will be in full compliance with all F	ederal and State
Regulations.	
Schedule of project covered in this application (Construction Permit Application Only)	
Start of Construction <u>September, 1980</u> Completion of Construction	November, 1980
Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for project serving pollution control purposes. Information on actual costs shall be furnished permit.) Estimated cost of Bag House and installation: \$ 42,000	individual components/units of
Estimated Cost of Bay nouse and installation. 7 42,000	
	·
Indicate any previous DER permits, orders and notices associated with the emission point, in tion dates.	cluding permit issuance and e
Application Dated December 10, 1979, withdrawn by letter	of July 22, 1980.
Proposed plant will be CMI with Standard Haven's, Inc. Al	pha/Mark III,
Size 30 Bag House	
and Chapter 22F-2, Florida Administrative Code? YesX No	
Is this application associated with or part of a Development of Regional Impact (DRI) pursuar and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 if seasonal, describe:	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? YesX_ No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? Yes _X_ No Normal equipment operating time: hrs/day $_{-}5$; days/wk $_{-}5$; wks/yr $_{-}40$ if seasonal, describe:	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? Yes _X_ No Normal equipment operating time: hrs/day $_{}$ _5 ; wks/yr $_{}$ _40 if seasonal, describe:	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? Yes _X_ No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 if seasonal, describe:	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No)	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No)	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5; days/wk5; wks/yr40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant?	; if power plant, hrs/yr
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied?	NO N/A
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied?	NO N/A
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day 5; days/wk 5; wks/yr 40 if seasonal, describe:	NO N/A
And Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day 5; days/wk 5; wks/yr 40 If seasonal, describe:	NO N/A N/A
And Chapter 22F-2, Florida Administrative Code? Yes X No Normal equipment operating time: hrs/day 5; days/wk 5; wks/yr 40 If seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied? c. If yes, list non-attainment pollutants. 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. 3. Does the State "Prevention of Significant Deterioriation" (PSD) requirements apply to this source? If yes, see Sections VI and VII.	NO N/A N/A Yes
and Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day 5 ; days/wk 5 ; wks/yr 40 if seasonal, describe:	NO N/A N/A Yes NO

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SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contam	inants	Utilization		
Description	Type % Wt Rate - lbs/hr		Rate - Ibs/hr	Relate to Flow Diagram	
Aggregate	Particulate	0.004	298,000	Cold Feed Bins (1)	
Liquid Asphalt	None	None	22,000	Asphalt Storage (2)	
-			· 		
·			<u> </u>		
•					

_	D		(See Section V, Item 1	
~	Proces Hate	it anniicania.	ISON SACTION VITAM I	1
B.	riocess mate,	II applicable.	IDEE DECLION V, ILEM I	,

1. Total Process Input Rate (lbs/hr): 320,000

2. Product Weight (lbs/hr): _

319,987

C. Airborne Contaminants Emitted:

	Emiss	ion ¹	All	Allowed Emission ²		Allowable ³	Potential Emission ⁴		Relate	
Name of Contaminant	Maximum Actual Ibs/hr T/yr Rate per Ch. 17-2, F.A.C.		Emission lbs/hr	lbs/hr	s/hr T /yr bia					
Particulate	13.22	6.61*	NSPS	0.04	DSCE	38.99	7200**	3600	(1)	
				;						
		-								

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles ⁵ Size Collected (in microns)	Basis for Efficiency (Sec. V, It ⁵
Standard Haven's, Inc.	Particulate	99.82	500 or less	see ***
Alpha/Mark III, Size 30		•		
Bag House				
·			in the gradient	

¹See Section V, Item 2.

* Based on 40 weeks/year

⁴Emission, if source operated without control (See Section V, Item 3)

** Based on 45 lbs/Ton (AP-42)

⁵If Applicable

$$\frac{7200 - 13.22}{7200}$$
 X 100 = 99.82%

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²Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. – 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard

-	-	
E.	Fue	
┗.	ı uc	

Type /Pe Specifie)	Cons	umption*	Maximum Heat Input	
Type (Be Specific)	avg/hr	max./hr	(MMBTU/hr)	
No. 2 Diesel Fuel	1434 Lb./Hr.	1578 Lb./Hr.	28.0	

		.]	L434 Lb./Hr	. 1578 L	o./Hr.	28.0	
e manufoli de a videro, _{de} las destarreça vide e e vides e e mel e e							,
	· 						
						•	
*Units Natural Gas	, MMCF/hr; Fue	l Oils, barrels/hr;	Coal, lbs/hr	·			
Fuel Analysis:			٠,			V	
Percent Sulfur:				Percent Ash:	0.0%		
Density:	7.171		lbs/gal	Typical Percent	Nitrogen:	-	
Heat Capacity:	19,520		BTU/lb		L40,000		BTU/g
Other Fuel Contain	inants (which m	ay cause air poll	ution):				
•			· · ·			·	
F. If applicable	, indicate the per	cent of fuel used	I for space heatin	ng. Annual Ave	erage N/A	Maximum	N/A
G. Indicate liqu	id or solid wastes	generated and n	nethod of dispos	sal.			
, 				N/A			·
	_						
H. Emission Sta	ck Geometry and	I Flow Character	ristics (Provide d				
	:					.50 X 3.50	
				Stack Diameter			
Gas Flow Ra	ate: 51,195	(Avg.)	ACFM	Gas Exit Tempo	erature: <u>232</u> (.	Avg.)	·o
Gas Flow Raw Water Vapor Not: Emis	ate: 51,195 Content:	(Avg.) 16.7 (Avg	ACFM) % nd Flow Cha	Gas Exit Tempo Velocity: aracteristi	70 (Avg.	Avg.)	o FI
Gas Flow Raw Water Vapor Not: Emis	Content: sion Stack	(Avg.) 16.7 (Avg Geometry a See TSI Rep	ACFM) % nd Flow Cha	Gas Exit Tempo Velocity: aracteristi March 18, 1	70 (Avg. cs derived	Avg.)	o FF
Gas Flow Raw Water Vapor Not: Emis Plar	Content: sion Stack	(Avg.) 16.7 (Avg Geometry a See TSI Rep	ACFM) % nd Flow Cha	Gas Exit Tempo Velocity: aracteristi March 18, 1	70 (Avg. cs derived	Avg.)	o F
Gas Flow Raw Water Vapor Not: Emis Plar	Content: sion Stack	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION	ACFM) % nd Flow Cha	Gas Exit Tempo Velocity: aracteristi March 18, 1	70 (Avg. 70 (Avg. cs derived 980.	Avg.)	o F
Gas Flow Raward Water Vapor Not: Emis Plar	Content:	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION	ACFM) % nd Flow Cha ort dated N N IV: INCINER	Gas Exit Tempor Velocity: aracteristi March 18, 1 ATOR INFORM	70 (Avg. 70 (Avg. cs derived 980.	Avg.)) from Dicker Type V (Lig & Gas	rson Type VI
Gas Flow Raward Water Vapor Not: Emis Plan Type of Waste Lbs/hr Incinerated	Type O (Plastics)	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION Type I (Rubbish)	ACFM) % nd Flow Cha ort dated N IV: INCINER Type II (Refuse)	Gas Exit Tempor Velocity: aracteristi March 18, 1 ATOR INFORM Type III (Garbage)	70 (Avg. 70 (Avg. cs derived. 980. IATION Type IV (Pathological)	Avg.)) from Dicker Type V (Liq & Gas By-prod.)	Type VI
Gas Flow Raward Water Vapor Not: Emis Plar Type of Waste Lbs/hr Incinerated Description of Was	Type O (Plastics)	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION Type I (Rubbish)	ACFM) % nd Flow Cha ort dated I	Gas Exit Tempor Velocity: aracteristi March 18, 1 ATOR INFORM Type III (Garbage)	70 (Avg. 70 (Avg. cs derived. 980. IATION Type IV (Pathological)	Avg.)) from Dicker Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Gas Flow Raward Water Vapor Not: Emis Plan Type of Waste Lbs/hr Incinerated Description of Was	Type O (Plastics)	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION Type I (Rubbish)	ACFM) % nd Flow Cha ort dated N IV: INCINER (Refuse)	Gas Exit Tempor Velocity: aracteristi March 18, 1 ATOR INFORM Type III (Garbage) Design Capacity	70 (Avg. 70 (Avg. cs derived 980. IATION Type IV (Pathological)	Avg.)) from Dicker Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Gas Flow Raward Water Vapor Not: Emis Plar Type of Waste Lbs/hr Incinerated Description of Was Total Weight Incinerate Num	Type O (Plastics) teerated (lbs/hr)erated (lbs/hr	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION Type I (Rubbish)	ACFM) % nd Flow Chacort dated Nort dated North Nor	Gas Exit Tempor Velocity: aracteristi March 18, 1 ATOR INFORM Type III (Garbage) Design Capacity	70 (Avg. 70 (Avg. cs derived. 980. IATION Type IV (Pathological)	Avg.)) from Dicker Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Gas Flow Raward Water Vapor Not: Emis Plan Type of Waste Lbs/hr Incinerated Description of Was	Type O (Plastics) te erated (lbs/hr)	(Avg.) 16.7 (Avg Geometry a See TSI Rep SECTION Type I (Rubbish)	ACFM) % nd Flow Chacort dated for the dat	Gas Exit Tempor Velocity: Design Capacity Type III (Garbage)	70 (Avq. 70 (Avq. cs derived 980. IATION Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)

	Volume Heat Release (ft) ³ (BTU/hr)		Fuel	Temperature	
		Туре	BTU/hr	(°F)	
Primary Chamber					
Secondary Chamber					
Stack Height:	. · 	ft. Stack Diameter	·	Stack Te	mp
Gas Flow Rate:	i	ACFM		DSCFM* Velocity	/ FPS
*If 50 or more tons per d cess air.	lay design capac	ity, submit the emiss	ions rate in grains p	per standard cubic fo	ot dry gas corrected to 50% ex
Type of pollution control	device: [] Cy	clone [] Wet Scru	ıbber [] Afterbu	urner [] Other (sp	ecify)
Brief description of operat	ing characteristi	cs of control devices:			
	•.				_ .
-		·			
	-				
Ultimate disposal of any ef			the stack (scrubber	water, ash, etc.):	
•				<u> </u>	
		· · · ·	· .	•	
				· -	

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight show derivation.
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.,) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.).
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8½" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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- 9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Contaminant Particulate Matter	Rate or Concentration 0.04 grams/ scf, Dry
Has EPA declared the best available control technology	for this class of sources (If yes, attach copy) [Yes No
Contaminant	Rate or Concentration
What emission levels do you propose as best available of	
Contaminant Particulate Matter	Rate or Concentration 0.04 Grains/DSCF*
SO ₂	0.24% Sulfer fuel oil
	,
Describe the opinion pointral and treatment technology	
Control Device/System: Bag House	(if any). New source - proposed control
	ped in fabric, jet cleaned, then mixed w/asph
3. Efficiency: * 99.82 (see page 3)	4. Capital Costs: \$ 42,000
	6. Operating Costs: \$ 2,500.
5. Useful Life: 10 years (Avg.)7. Energy: 18,650 kwh/Yr.	8. Maintenance Cost: \$ 6,000
9. Emissions: Particulate and SO ₂	St. J. Marittonanios South 1 System
Contaminant	Rate or Concentration
Particulate & SO ₂	Rate or Concentration Less than 0.04 grains/DSCF

fuel oil

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	10. Sta	CK + alailletei2				•	
,	, а.	Height: 32.5	ft.	b.	Diameter: 3.5 X	3.5	
	c.	Flow Rate: 51,195	ACFM	d.	Temperature: 232		
	e.	Velocity: 70	FPS		٠		-
Ξ. ι	Describ	e the control and treatment technology a	vailable (As i	many	types as applicable, use a	dditional pages if necessa	ary).
1	ı. 🤾						
	a.	Control Device:	·				
:	b.	Operating Principles:					
:							
	C.	Efficiency*:		d.	Capital Cost:		
	е,	Useful Life:		f,	Operating Cost:		
	g.	Energy *:		h.	Maintenance Cost:		
	i.	Availability of construction materials at	nd process ch	emic	als:		
	j.	Applicability to manufacturing process					
	k.	Ability to construct with control device	e, install in av	ailab	le space, and operate with	in proposed levels:	
	٠,						
	2.	0					•
	a.	Control Device:					
	b.	Operating Principles:					
		F#F-t		ند	Conital Costs		
	C.	Efficiency*: Useful Life:		d. r	Capital Cost: Operating Cost:		
	e.	Energy **:		f. h.	Maintenance Costs:		
	g. i.	Availability of construction materials a	nd proces ob				
	1.	Availability of construction materials at	id process cri	CITIC	ais.	÷	
	, j.	Applicability to manufacturing process	es:	4			
	k.	Ability to construct with control device	e, install in av	ailab	le space, and operate with	in proposed levels:	-
*Exp	lain me	ethod of determining efficiency.					
**Ene	rgy to	be reported in units of electrical power —	KWH design	rate.			
	3. .						
	a.	Control Device:					
	b.	Operating Principles:	:	•			
			-		•		
	Ċ.	Efficiency*:		d.	Capital Cost:		
	e.	Life:		f.	Operating Cost:		
	g.	Energy:		h.	Maintenance Cost:		

ft. o_F

 $^{{}^{*}}$ Explain method of determining efficiency above.

	j. Applicability to manufacturing processes:	
	k. Ability to construct with control device, install i	n available space and operate within proposed levels:
4	4. 	
	a. Control Device	·
	b. Operating Principles:	
	c. Efficiency*:	d. Capital Cost:
	e. Life:	f. Operating Cost:
	g. Energy:	h. Maintenance Cost:
	i. Availability of construction materials and proces	s chemicals:
	j. Applicability to manufacturing processes:	
	k. Ability to construct with control device, install in	n available space, and operate within proposed levels:
F. D	escribe the control technology selected:	
. 1	1. Control Device:	
2	2. Efficiency*:	3. Capital Cost:
. 4	1. Life:	5. Operating Cost:
6	3. Energy:	7. Maintenance Cost:
8	3. Manufacturer:	
ç	9. Other locations where employed on similar processes	:
	a.	
	(1) Company:	
,	(2) Mailing Address:	
	(3) City:	(4) State:
	(5) Environmental Manager:	
	(6) Telephone No.:	5
*Expla	ain method of determining efficiency above.	
	(7) Emissions*:	
	Contaminant	Rate or Concentration
		
_	(8) Process Rate*:	
	b.	
	(1) Company:	
	(2) Mailing Address: (3) City:	(4) State:
*Appl!-		
Applic	ant must provide this information when available. Sho	uld this information not be available, applicant must state the reason(

i. Availability of construction materials and process chemicals:

, (5)	Environmental manager.	
(6)	Telephone No.:	1
(7)	Emissions*:	
	Contaminant	Rate or Concentration
(8)	Process Rate*:	
(0)	110000 11000 1	·

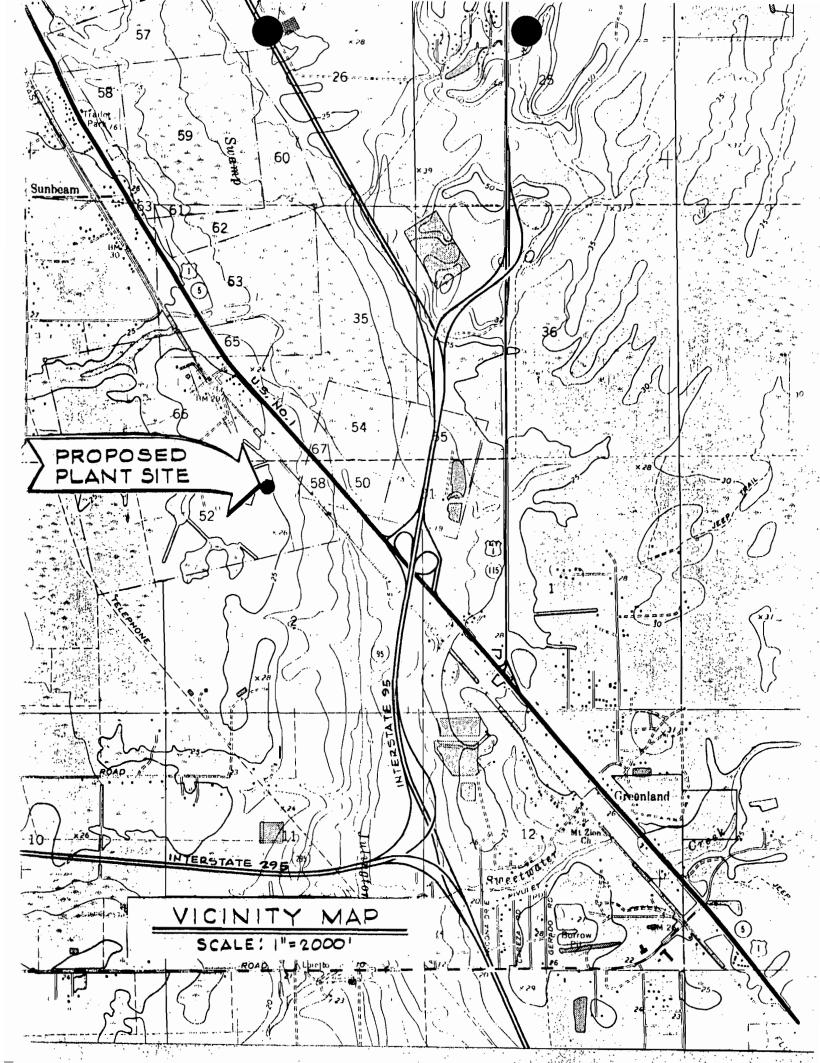
^{10.} Reason for selection and description of systems:

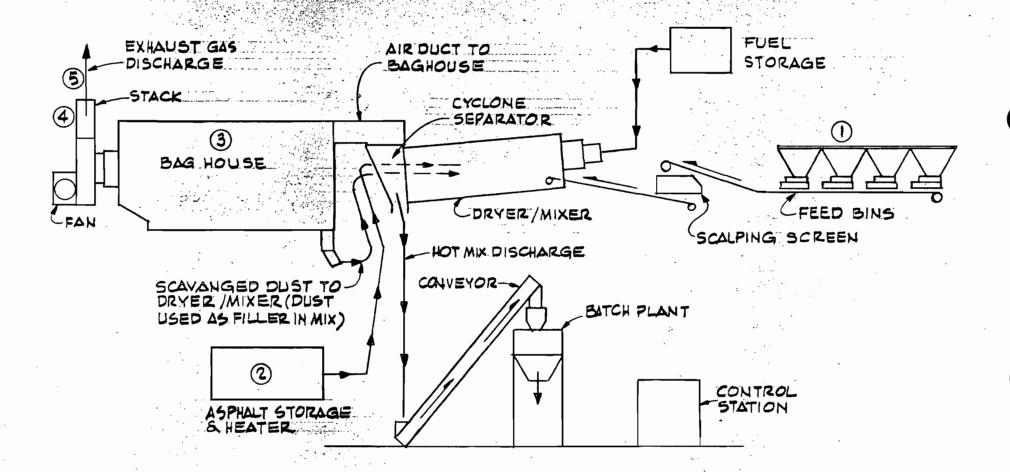
^{*}Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

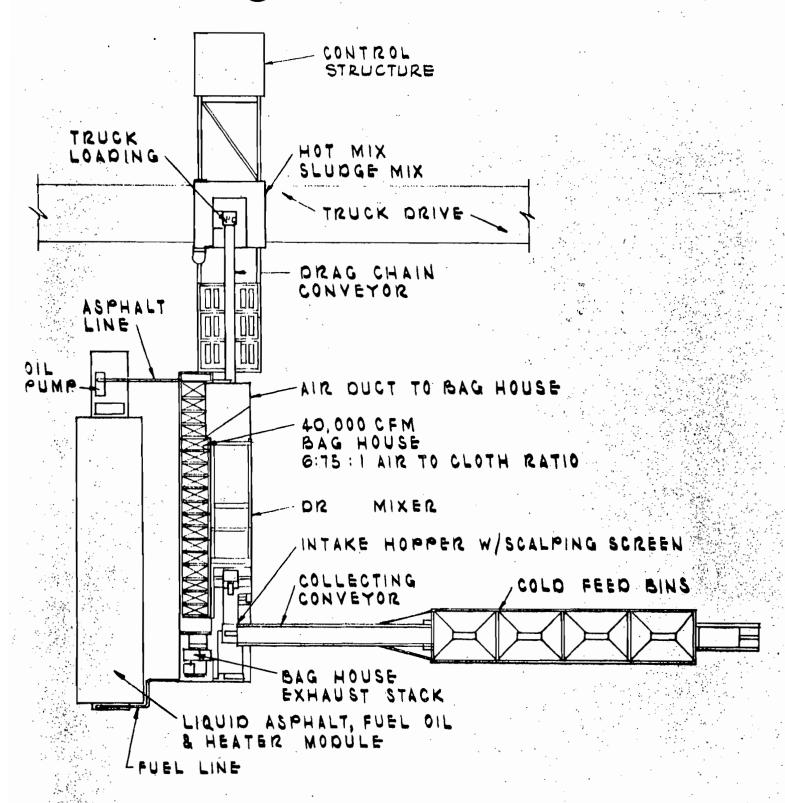
Α.	Company Monitores Data	
	1 no sites TSP () SO ² * V	Vind spd/dir
	Period of monitoring / / to / / month day year month day year	
	Other data recorded	<u> </u>
	Attach all data or statistical summaries to this application.	
	2. Instrumentation, Field and Laboratory	
	a) Was instrumentation EPA referenced or its equivalent? Yes No	·
	b) Was instrumentation calibrated in accordance with Department procedures?	Yes No Unknown
В.	Meteorological Data Used for Air Quality Modeling	
•	1 Year(s) of data from / / to / / month day year month day year	
	2. Surface data obtained from (location)	
	Upper air (mixing height) data obtained from (location)	
	4. Stability wind rose (STAR) data obtained from (location)	·
C.	Computer Models Used	• .
		. Modified? If yes, attach description.
	2.	Modified? If yes, attach description.
	3	Modified? If yes, attach description.
	4	. Modified? If yes, attach description.
	Attach copies of all final model runs showing input data, receptor locations, and principle	output tables.
D.	Applicants Maximum Allowable Emission Data	•
	Pollutant Emission Rat	re .
	TSP	grams/sec
	so ²	
E.	Emission Data Used in Modeling	grants/300
۲.	Attach list of emission sources. Emission data required is source name, description on p	cipt course (on NEDC point number)
	UTM coordinates, stack data, allowable emissions, and normal operating time.	onit source (on NEDS point number),
F.	Attach all other information supportive to the PSD review.	
*Spe	ecify bubbler (B) or continuous (C).	क
G.	Discuss the social and economic impact of the selected technology versus other applicate duction, taxes, energy, etc.). Include assessment of the environmental impact of the source	

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.





SCHEMATIC FLOW DIAGRAM

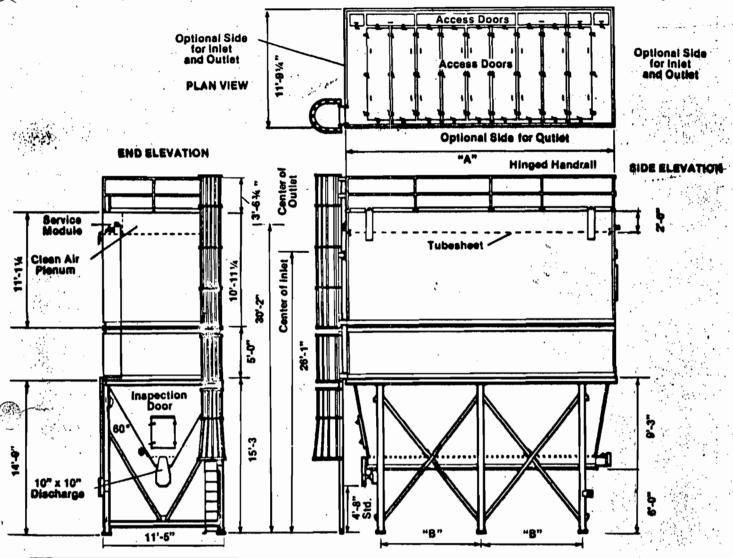


عرمها ويوروه

SCALE: 1'-0"

Alpha/Mark III Specifications.

Optional Side for Inlet



SIZE .	NO. OF	CLOTH AR.	NO. OF			COM	IP. AIR*
NO.	BAGS	8Q. FT.	VALVES	"A"	"B"	MAX.	NORM.
12	168	3,852	12	14'-0	1 at 10' ea.	48	27
15	210	4,815	15	16'-6	1 at 10' ea.	60	34
18	252	5,778	18	19'-0	1 at 10' ea.	70	40
21	294	6,741	21	21'-6	2 at 10 ca.	83	47
24	336	7,704	24	24'-0	2 at 10' ea.	96	55
27	378	8.667	27	26'-6	2 at 10 cea.	407	61
30	420	9,630	30	29'-0	2 at 10 ea.	117	68
33	462	10,593	33	31'-6	3 at 10' ea.	130	74
36	504	11,556	36	34'-0	3 at 10' ea.	143	82
39	546	12,519	39	36'-6	3 at 10' ea.	155	86
42	588	13,482	42	39'-0	3 at 10' ea.	165	94
45	630	14,445	45	41'-6	4 at 10' ea.	177	101
48	672	15,408	48	44'-0	4 at 10' ea.	187	107
51	714	16,371	51	46'-6	4 at 10' ea.	200	114
54	756	17,334	54	49'-0	4 at 10' ea.	212	121
57	798	18,297	57	51'-6	5 at 10' ea.	226	129
. 60	840	19,260	60	54'-0	5 at 10' ea.	235	135
63	882	20,223	63	56'-6	5 at 10' ea.	246	140
66	924	21,186	66	59'-0	5 at 10' ea.	259	148
69	968	22,149	69	61'-6	6 at 10' ea.	271	154
72	1,008	23,112	72	64'-0	6 at 10' ea.	282	161

DEPARTMENT OF HEALTH, WELFARE & BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control



July 25, 1980

Mr. Mark Hodges DER/BAQM Twin Towers office Building 2600 Blair Stone Road Tallahassee, Florida 32301



RE: Dickerson, Inc. - Shad Road Proposed Construction

Dear Mr. Hodges:

Please withdraw the captioned permit application from processing as per the applicant's enclosed July 22, 1980, letter.

Very truly yours,

E. P. Balducci

Assistant Air Pollution Engineer

EPB/sg

enclosure

ALAN W. POTTER

6957 LILLIAN ROAD

JACKSONVILLE, FLORIDA 32211

PHONE 904/725-4522

July 22, 1980

Mr. Edmund Balducci
Asst. Pollution Control Engineer
City of Jacksonville
Air & Water Pollution Control
515 West Sixth Street
Jacksonville, Florida 32206

Re: Dickerson, Inc.

Shad Road Asphalt Manufacturing Plant

Jacksonville, Florida

Dear Mr. Balducci:

Please be advised, Dickerson, Inc., wishes to withdraw Application to Construct Air Pollution Sources on referenced, dated December 10, 1979.

The make and model plant as submitted in the original application, is unavailable at this time.

Upon securing an Asphalt Plant of known make and model, Dickerson, Inc. will submit a new application.

Sincerely,

Howard A. Enniss

HAE/bod

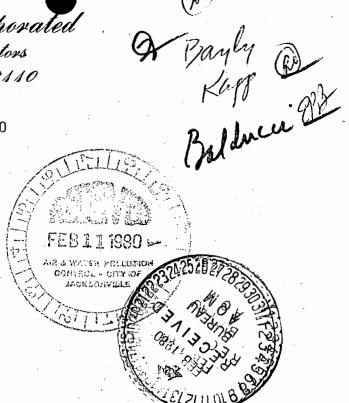
cc: Dickerson, Inc.

JUL231380 > 10

ARA WATE POLLUTION
CONTROL - SITY OF
JACKSONVILLE

Dickerson, Incorporated General Contractors Monroe, N. C. 28110

February 7, 1980



Air Pollution Control 515 West Sixth Street Jacksonville, Florida 32206

Attention Mr. Ed Balducci

Dear Mr. Balducci:

As per our conversation, I am enclosing a copy of the curve sent to us by Standard Havens, Inc. The curve was determined by them on an in-house test. They requested that this information be kept in the strictest of confidence. If you need any more information, please call me at 704/289-3111, extension 363, anytime.

Sincerely,

DICKERSON, INC.

David J. Gordon, Ar.

Assistant to Executive Vice President

Asphalt Division

DJGJr:11 Enclosure

Proprietory Information

DESIGN SHEET

Project: SH DESIGN ENGRG TECHNICAL MANUAL

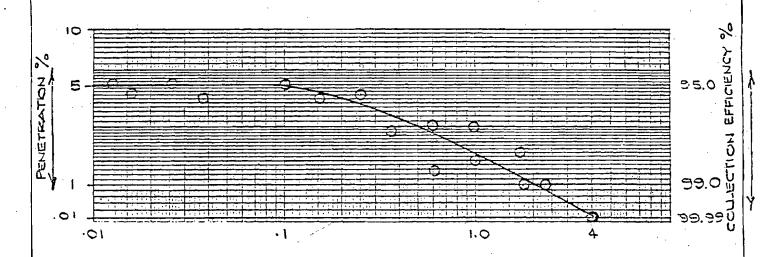
Project No.: PA 2100

Prep. By: SR

Subj.: FRACTIONAL EFF

CHART Date: 7/15/75

THIS MAT'L IS INTENDED FOR IN-HOUSE USE ONLY



PARTICLE DIAMETER - MICROMETERS

(FELT FILTER MEDIA - SPHERICAL PART,)

EXTRAPOLATED FRACTIONAL EFFICIENCY OF 5H FABRIC FILTERS (BAGHOUSE)

NOTE: MANY FACTORS CAN INFLUENCE COLLECTION EFFICIENCIES; SUCH AS AERODYNAMIC PARTICLE SHAFE, ETC

Dickerson, Incorporated General Contractors Jacksonville, Florida

REMOVE FROM SYSTEM.

January 31, 1980



Mr. Stephen Smallwood Department of Environmental Regulation Twin Tower Office Building 2600 Blair Stone Road Tallahassee, FL 32301

Re: Drum Mix Asphalt Batch Plant Duval County

Dear Sir:

I have recently been given a copy of your letter of August 24, 1979 to this writter. This letter apparently was lost in our files. After several telephone conversations with Mr. E. P. Balducci regarding the missing letter I visited his office and was given a copy.

The drum mix asphalt plant made reference to has since been moved to North Carolina. We are presently waiting for a construction permit to construct a Cedar Rapids "Batch Type" asphalt plant in Duval County instead of the drum mix plant which application was originally made for.

I trust the fact that the drum mix plant has moved to North Carolina will allow you to close your file regarding the questions you raised in your letter of August 24, 1979.

Please accept our apology for the inconvenience you may have incurred because of this late reply.

Yours truly,

DICKERSON, INCORPORATED

W. R. Lindler Vice President

WRL:sg

cc: Mr. E. P. Balducci

AC22392

:

 $\mathcal{A}_{i,j} = \{ (i,j) \mid i \in \mathbb{N} \mid i \in \mathbb{N} \mid i \in \mathbb{N} \}$

DEPARTMENT OF HEALTH, WELFARE & BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control



January 3, 1980



Mr. Steve Smallwood Acting Chief Bureau of Air Quality Management Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301

Re: Dickerson, Inc. Application for a Construction Permit.

Dear Mr. Smallwood:

We are currently processing the enclosed permit application according to our local program agreement with the State of Florida. The potential emissions data submitted in the application is incorrect. Using the data submitted under actual emissions along with the baghouse efficiency given, the potential emissions should equal 251 T/yr. A review of AP-42 shows an uncontrolled emissions factor of 45 lb/T which puts this plant's potential emissions at 6750 lb/hr. AP-40 gives a similar documentation. Since the potential emissions are greater than 250 T/yr, a BACT determination is necessary and we are hereby requesting such.

Additional information has been requested from Dickerson, (see enclosure) which will be forwarded to you upon receipt by this office.

Very truly yours,

E. P. Balducci Assistant Engineer

EPB/kdw

Enclosure



DEPARTMENT OF HEALTH, WELFARE & BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control



January 3, 1980

Mr. William B. Lindler Vice-President Dickerson, Inc. P.O. Box 40949 Jacksonville, Florida 32203

Re: Construction Permit Application, Proposed Shad Road Asphalt Plant.

Dear Mr. Lindler:

We have reviewed the captioned application and have determined that it is incomplete. We are therefore requesting that you submit the following additional, necessary information. Your permit application will be held in abeyance pending its receipt.

- 1. Section III.C. Please document your calculations for determining the potential emissions as the figures submitted appear to be incorrect. Our calculations show that the potential emissions exceed 250 T/yr and that Best Available Control Technology (BACT) must, therefore, be determined and applied as per Chapter 17-2, Florida Administrative Code. Also, please note that New Source Performance Standards apply as the Allowed Emission Rate and not Process Weight, therefore, please resubmit this information using 0.04 grains/DSCF.
- Section III.D. Submit manufacturer's specifications for control equipment efficiency with respect to particle sizes less than 500 microns.
- 3. Since this source will be a Major Emitting Facility (Chapter 17-2.02(bb)), BACT does apply. Section VI.B, C, E, and F must, therefore, be completely filled out for TSP and SO₂.
- 4. Section VII Fill out completely for PSD determination.
- 5. Submit a computer model showing;
 - a. the maximum Particulate impact in the Non-Attainment Area, and.
 - b. the maximum impact anywhere for determining PSD increment consumption.



Mr. William B. Lindler January 3, 1980 Page 2

Please submit the above as soon as possible, as your permit cannot be processed until this information has been received.

If you have questions, please call me at 633-3033.

Very truly yours,

E. P. Balducci Assistant Engineer

EPB/kdw



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION TO OPERATE/COMPANIES AIR POLICY OF THE PROPERTY OF THE POLICY OF THE PO APPLICATION TO OPERATE/CONSTRUCT

<u> </u>	· · · · · · · · · · · · · · · · · · ·	
SOURCE TYPE:	Air Pollution	[X] New ¹ [Existing ¹
	[X] Construction [] Operation []	
COMPANY NAME:	Dickerson, Inc.	COUNTY:Duval
Identify the specific em	oission point source(s) addressed in this ap phalt Manufacturing Plant wi	pplication (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit
SOURCE LOCATION:	Street U.S. Hwy. No. 1 & Sha	ad Road City Jacksonville
·	UTM: East 445320	North 3339660
		N Longitude 81 o 34 · 01 · w
APPLICANT NAME AN	ID TITLE: William B. Lindle	r, Vice President
APPLICANT ADDRESS	P.O. Box 40949, Ja	acksonville, Florida 32203
	SECTION I: STATEMENTS B	Y APPLICANT AND ENGINEER
A. APPLICANT		
I am the undersign	ned owner or authorized representative. of	Dickerson, Inc.
	tatements made in this application for a _	
permit are∶true, c pollution control Florida Statutes, :	correct and complete to the best of my source and pollution control facilities in and all the rules and regulations of the dipartment, will be non-transferable and I whent.	knowledge and belief. Further, I agree to maintain and operate the such a manner as to comply with the provision of Chapter 403, lepartment and revisions thereof. I also understand that a permit, if will promptly notify the department upon sale or legal transfer of the Signed:
		William B. Lindler, Vice President
·		Name and Title (Please Type)
		Date: Dec. 6, 1979 Telephone No. (904) 751-3820
This is to certify the in conformity permit application erly maintained arrules and regulation cant a set of instructions.	with modern engineering principles applic n. There is reasonable assurance, in my principle nd operated, will discharge an effluent that the partment. It is also agreed that	on control project have been designed/examined by me and found to cable to the treatment and disposal of pollutants characterized in the rofessional judgment, that the pollution control facilities, when proport complies with all applicable statutes of the State of Florida and the at the undersigned will furnish, if authorized by the owner, the application of the pollution control facilities and if applicable, pollution Signed:
Manual V. P. 7 a		Alan W. Potter, P.E.
AMIL CALL		/ Name (Please Type)
FULLIANIN Seath		Alán W. Potter, Consulting Engineer
∾ ୩୦.୭୬୫୪ ିଞ୍ଚ		Company Name (Please Type) 6957 Lillian Rd., Jacksonville, FL 3221
STATE OF		Mailing Address (Please Type)
Florida Registration	on No. 5438	Date: Dec. 7, 1979 Telephone No. (904) 725-4522

SECTION II: GENERAL PROJECT INFORMATION

New Asphalt Manufacturing Plant with Bag House. Proposed pequiped with dry type cyclone and Bag House. Upon complete		rugtion
operation plant will be in full compliance with all Federal	i.	
regulations.	I and State	
ichedule of project covered in this application (Construction Permit Application Only)		
agair of Construction desired y 2, 1900 Completion of Construction	Januagy JÖ,	1900
Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for i project serving pollution control purposes. Information on actual costs shall be furnished opermit.)	with the application	on for oper
Bag House: Estimate cost, \$22,000	·	
	<u> </u>	
Indicate any previous DER permits, orders and notices associated with the emission point, incidents.	cluding permit issu	ance and ex
None		•
	· · · · · · · · · · · · · · · · · · ·	
and Chapter 22F-2, Florida Administrative Code? Yes _X No		
and Chapter 22F-2, Florida Administrative Code?YesXNo Normal equipment operating time: hrs/day5; days/wk5; wks/yr40	. ; if power plant, h	rs/yr
and Chapter 22F-2, Florida Administrative Code?YesXNo Normal equipment operating time: hrs/day5; days/wk5; wks/yr40 if seasonal, describe:	.; if power plant, h	rs/yr
and Chapter 22F-2, Florida Administrative Code?YesXNo Normal equipment operating time: hrs/day5; days/wk5; wks/yr40 if seasonal, describe:	.; if power plant, h	rs/yr
and Chapter 22F-2, Florida Administrative Code?YesXNo Normal equipment operating time: hrs/day5; days/wk5; wks/yr40 if seasonal, describe:	; if power plant, h	rs/yr
and Chapter 22F-2, Florida Administrative Code?Yes _XNo Normal equipment operating time: hrs/day5; days/wk _5; wks/yr _40 if seasonal, describe:	; if power plant, h	rs/yr
And Chapter 22F-2, Florida Administrative Code? Yes X No Normal equipment operating time: hrs/day 5; days/wk 5; wks/yr 40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No)	; if power plant, h	rs/yr
	; if power plant, h	rs/yr
And Chapter 22F-2, Florida Administrative Code? Yes X No Normal equipment operating time: hrs/day 5; days/wk 5; wks/yr 40 if seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant?	; if power plant, h	rs/yr
And Chapter 22F-2, Florida Administrative Code? YesX No Normal equipment operating time: hrs/day5 ; days/wk5; wks/yr40 If seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied?	; if power plant, h	rs/yr
And Chapter 22F-2, Florida Administrative Code?YesXNo Normal equipment operating time: hrs/day5 ; days/wk5 ; wks/yr40 If seasonal, describe: If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied?	; if power plant, h	rs/yr
Normal equipment operating time: hrs/day	; if power plant, h	rs/yr
Normal equipment operating time: hrs/day	; if power plant, h	rs/yr
Normal equipment operating time: hrs/day	NO N/A N/A	rs/yr
Normal equipment operating time: hrs/day	No N/A N/A Yes	rs/yr

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contamii	nants	Utilization	
Description	Туре	% Wt	Rate - lbs/hr Average	Relate to Flow Diagram
Aggregates	Particulate A	pprox 6%	280,000	Feed Bins (1)
Liquid Asphalt			20,000	Asphalt Storage (2)
::				
	: 0]		• .	
	4			: 2

Process Rate, if applicable: (See Section V, Item 1)

300,000 Lbs/Hr. 1. Total Process Input Rate (lbs/hr): _

300,000 Lbs/Hr. 2. Product Weight (lbs/hr): .

Airborne Contai	minants Emitted:		97.4% ef	77	
Name of	Emission ¹	Allowed Emission ²	Allowable ³	Potential Emission ⁴	Relate
Contaminant	Maximum Actual Ibs/hr T/yr	Rate per Ch. 17-2, F.A.C.	Emission \ lbs/hr	lbs/hr T/yr	to Flow Diagram
Dust	(5.02) 2.51	38.29 Lbs/Hr.	5.02	(192) 96	(3) (4) (5
	1.92		<u> </u>	(251)	
	.,	1			
,.	: :	ļ ·	1		

D. Control Devices: (See Section V, Item 4)

	1 '	. , .	•	4.0	14 113/3
Name and Type (Model & Serial No.)	Contaminant	Efficiency	Size	of Particles ⁵ Collected microns)	Basis for Efficiency (Sec. V, 115
Baghouse H & B	Dust	99% <u>±</u>	500 Micro	ns or less	See *
Mod. No. DB7-8910					
5 Compartment				• .	
6.74:1 Cloth to Air Ra	tio		,	į ;	

¹See Section V, Item 2.

5_{If Applicable}

DER FORM 17-1.122(16) Page 3 of 10

PReference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. — 0.1 pounds per million BTU

³Calculated from operating rate and applicable standard

⁴Emission, if source operated without control (See Section V, Item 3)

^{*}Past performance from industry data.

Water Vapor Content: 18 % Velocity: 50 SECTION IV: INCINERATOR INFORMATION Type of Waste (Please) (Potential) (P					naumation*		3		
No. 2 Diesel Fuel 6.7 BBL/HR 8.5 BBL/HR 49.2 X 10 ⁶ BTU/HR Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr ruel Analysis: Percent Sulfur: 0.24% Percent Ash: 0% It applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum It applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum Indicate liquid or solid wastes generated and method of disposal. None H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack): Stack Height: 30.0 ft. Stack Diameter: 10.0 Gas Flow Rate: 40.000 ACFM Gas Exit Temperature: 15.0 Water Vapor Content: 18 Velocity: 50 SECTION IV: INCINERATOR INFORMATION Type of Waste Type 0 Type 1 Rubbish (Retuse) Garbage) (Pathological) (Liq & Gas By-prod.) Description of Waste Description of Waste Uniformerated (Description of Hours of Operation per day days/week				-	i	/br	Maximum Heat Input (MMBTU/hr)		
Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr uel Analysis: or 2.48								,	
Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, Ibs/hr uel Analysis: orcent Sulfur: 0.248 Percent Ash: 08 restity: 7.171 Ibs/gal Typical Percent Nitrogen: Istat Capacity: 19,520 BTU/lb 140,000 BTU None If applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum Indicate liquid or solid wastes generated and method of disposal. None It stack Height: 30.0 ft. Stack Diameter: 10.0 Gas Flow Rate: 40,000 ACFM Gas Exit Temperature: 50 Water Vapor Content: 18 SECTION IV: INCINERATOR INFORMATION Type of Waste Type O (Plastics) Type I (Rubbish) Type II (Garbage) Pathological) Type V Ty	No. 2 Diesel	Fuel		6.7 BBL/HR	8.5 BBI	L/HR 49.	2 х 10 ⁶ вті	I/HR	
Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr uel Analysis: ercent Sulfur: 0.24%							<u> </u>		
tercent Sulfur: 0.24%							,	· · · · · · · · · · · · · · · · · · ·	
tercent Sulfur: 0.24% Percent Ash: 0% ensity: 7.171 Ibs/gal Typical Percent Nitrogen: 98TU/Ib 140,000 8TU ther Fuel Contaminants (which may cause air pollution): None None Maximum If applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum Indicate liquid or solid wastes generated and method of disposal. None			1 1		<u>,</u>	\			
ercent Sulfur: 0.24% Percent Ash: 0% rensity: 7.171 lbs/gal gat Capacity: 19,520 BTU/lb ther Fuel Contaminants (which may cause air pollution): None If applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum Indicate liquid or solid wastes generated and method of disposal. None If applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum Ma	Units Natural Gas,	MMCF/hr; Fuel	Oils, barrels/	hr; Coal, lbs/hr		•			
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ther Fuel Contaminants (which may cause air pollution): If applicable, indicate the percent of fuel used for space heating. Annual Average None Maximum				lbs/gal	Typical Percent	Nitrogen:			
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Indicate liquid or solid wastes generated and method of disposal. None None									
None Emission Stack Geometry and Flow Characteristics (Provide data for each stack): Stack Height: 30.0 ft. Stack Diameter: 10.0 Gas Flow Rate: 40,000 ACFM Gas Exit Temperature: 150 Water Vapor Content: 18 % Velocity: 50 SECTION IV: INCINERATOR INFORMATION Type of Waste Type O (Plastics) (Rubbish) (Refuse) (Garbage) (Pathological) (Solid By-prod.) Lbs/hr Incinerated (Ibs/hr) Design Capacity (Ibs/hr) Agrocylmate Number of Hours of Operation per day days/week	. If applicable, i	indicate the perc	ent of fuel u	sed for space heati	ng. Annual Ave	erage <u>None</u>	Maximum .		
Emission Stack Geometry and Flow Characteristics (Provide data for each stack): Stack Height: 30.0 ft. Stack Diameter: 10.0 Gas Flow Rate: 40.000 ACFM Gas Exit Temperature: 150 Water Vapor Content: 18 % Velocity: 50 SECTION IV: INCINERATOR INFORMATION Type of Waste Type O (Plastics) (Rubbish) Type II (Refuse) (Garbage) (Pathological) (Solid By-prod.) Lbs/hr Incinerated (Ibs/hr) Design Capacity (Ibs/hr) pprox/mate Number of Hours of Operation per day days/week	. Indicate liquid	l or solid wastes	generated and	d method of dispo	sal.		,	, . ; . :	
Emission Stack Geometry and Flow Characteristics (Provide data for each stack): Stack Height: 30.0 ft. Stack Diameter: 10.0 Gas Flow Rate: 40.000 ACFM Gas Exit Temperature: 150 Water Vapor Content: 18 % Velocity: 50 SECTION IV: INCINERATOR INFORMATION Type of Waste Type O (Plastics) Type I (Rubbish) (Refuse) (Garbage) (Pathological) (Liq & Gas By-prod.) Lbs/hr Incinerated (Ibs/hr) Design Capacity (Ibs/hr) pprox/mate Number of Hours of Operation per day days/week	None								
Emission Stack Geometry and Flow Characteristics (Provide data for each stack): Stack Height: 30.0 ft. Stack Diameter: 10.0 Gas Flow Rate: 40.000 ACFM Gas Exit Temperature: 150 Water Vapor Content: 18 % Velocity: 50 SECTION IV: INCINERATOR INFORMATION Type of Waste Type O (Plastics) Type I (Rubbish) (Refuse) (Garbage) (Pathological) (Liq & Gas By-prod.) Lbs/hr Incinerated (Ibs/hr) Design Capacity (Ibs/hr) pprox/mate Number of Hours of Operation per day days/week			,						
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Type of Waste Type O (Plastics) Type II (Refuse) Type III (Garbage) Type IV (Liq & Gas By-prod.) Type V (Liq & Gas By-prod.) Secription of Waste Type III (Garbage) Design Capacity (Ibs/hr) Approximate Number of Hours of Operation per day Type III (Garbage) Type III (Pathological) Type IV (Liq & Gas By-prod.) Type V (Liq & Gas By-prod.) Solid By-prod.) Type V (Liq & Gas By-prod.) Solid By-prod.) Type III (Garbage) (Ibs/hr) Design Capacity (Ibs/hr) Approximate Number of Hours of Operation per day Manufacturer						¥ .			
Type of Waste Type O (Plastics) Type II (Refuse) Type III (Garbage) Type IV (Liq & Gas By-prod.) Type V (Liq & Gas By-prod.) Sescription of Waste Total Weight Incinerated (lbs/hr) Design Capacity (lbs/hr) Approximate Number of Hours of Operation per day Manufacturer		,	SECTI	ON IV. INCINER	RATOR INFORM	IATION			
Type of Waste Type O (Plastics) Type I (Rubbish) Type II (Garbage) Type III (Liq & Gas By-prod.) Type V (Liq & Gas By-prod.) Solid By-prod.) Lbs/hr Incinerated Ibs/hr Design Capacity (Ibs/hr) Design Capacity (Ibs/hr) days/week Incinerated Incinerated Incinerated Incinerated Incinerated Incinerated Ibs/hr Incinerate			02071					,	
Cold		Type O	Type I			Type IV	Type V		
Lbs/hr Incinerated Description of Waste	Type of Waste		(Rubbish)			(Pathological)	(Liq & Gas By-prod.)	(Solid By-prod.)	
escription of Waste									
escription of Waste		••							
otal Weight Incinerated (lbs/hr) Design Capacity (lbs/hr) days/week days/week days/week	The interval							,	
pproximate Number of Hours of Operation per day days/week anufacturer	escription of Waste	e					; 'i		
pproximate Number of Hours of Operation per day days/week days/week					Design Capacity	/ (lbs/hr)			
lanufacturer						•	1		
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14-1-14-	A CONTRACTOR OF THE CONTRACTOR								

DER FORM 17-1.122(16) Page 4 of 10

	Volume	Heat Release	É	uel	Temperature	
3	(ft)3	(BTU/hr)	Туре	BTU/hr	(°F)	
Primary Chamber	. :					
Secondary Chamber	;			·		
Stack Height:		ft. Stack Diameter _		Stack Tem	o	
Gas Flow Rate:		ACFM		_ DSCFM* Velocity _	FPS	
* 4	1.4 31			*	dry gas corrected to 50% ex-	
Type of pollution control	device: [] C	/clone 💡 [] Wet Scrubl	per [] Afterbu	rner [] Other (spec	ify)	
Brief description of operat	ing characteristi	cs of control devices: _				
	**		•			
	<i>i</i>					
	,et					
Ultimate disposal of any e		the second secon	atack /comphan	water ash etc.):		
	• •	an that emitted from the	·			
	:	4			,	
·.			4. · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
1		,				

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight show derivation.
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.,) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (é.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.).
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8%" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram:

DER FORM 17-1.122(16) Page 5 of 10

- 9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY.

[X] Yes No				
Contambra	mt ·		flate or Concentration	
Duit		****	Lens than 0.04 Grains/DSCF	,
	· · · · · · · · · · · · · · · · · · ·			
	<u> </u>			
The supplement is near the second of the sec				
Has EPA declared the best available	e control technology f		is class of sources (If yes, attach copy) Yes No	0
Contamina	mit .		Rate or Concentration	
	:	. ·		
		.		_
	:	_		
What emission levels do you propo	se as best available cor	trolte	technology?	
Contamina	int		Rate or Concentration	
,				·
· ;		_		÷
1				•
Describe the existing control and t	reatment technology (f any)	<i>(</i>).	
1. Control Device/System: B	ag House			
2. Operating Principles: Dust	trapped in fab	ric	, jet cleaned, then mixed w/asphalt	
3. Efficiency: * .99% +		4.	Capital Costs: \$22,000	٠
5. Useful Life: 5 - 10 yea	wa		Operating Costs: -	į.
, –	.13			1
7. Energy: -		о.	Maintenance Cost: \$ 5,000 annual	
9. Emissions: Dust				·
Contamina Dust	int .	 .	Rate or Concentration Less than 0.04 grains/DSCF	

Past performance from industry data

DER FORM 17-1.122(16) Page 6 of 10

	10.	Stat	K, Farameter	5	2.									
		a.	Height:	30 Ft				ft.	b.	Diameter:	10.0			
		c .	Flow Rate:	40,0	00		A	ACFM	d.	Temperature:	150			
		e.	Velocity:	50		: `		FPS	,					
E.	Des	cribe	the control	and trea	tment	technology	/ availab	le (As	many	types as applica	able, use	addition	al pages i	f necessary).
	1.	. ,			. •			٠.					- 1.0	•
	,	a.	Control Dev	vice.					. ; . ;					
			Operating P											
•		b.	Operating F	Tincipies	· .				į,			•		
		٠												
	:	C.	Efficiency*						d.	Capital Cost:				
		ė.	Useful Life:						. f.	Operating Cost	::			
:	··· .	g.	Energy*:		1.				h.,	Maintenance C	ost:			
		i.	Availability	of const	ructio	n materials	and pro	cess ch	emic	als:	. ;			
			. ' .					. ;						
		j .	Applicabilit	y to man	ufactı	ring proce	sses:	11.			,			
		k.	Ability to c	onstruct	्र with c	ontrol dev	ice, insta	all in av	/ailab	le space, and op	erate wit	hin prop	oosed leve	ls:
	٠.	•					,			3 }				
	2.													
		•	Control De	vico:						٠ .				
		a. L			Y L									
		b.	Operating P	rincipies	• :			•						
					•	:								
			Efficiency*						d.	Capital Cost:				
		e.	Useful Life						f.	Operating Cost	Eri:			
		g.	Energy **:		n No				h.	Maintenance C	osts:			
		i."	Availability	of const	ructio	n materials	and pro	cess, ch	nemic	als:				
			Annlindhilit			} 								
	:	j;	Applicabilit		3,		-			· · · · · · · · · · · · · · · · · · ·	; i			
		k.	Ability to c	onstruct	with c	ontrol dev	ice, insta	all in av	/ailab	le space, and op	erate wit	hin prop	osed leve	ls:
٠.							. 37		1	. * }	; (
*Ex	plair	n me	thod of dete	rmining e	fficie	ncy.	, }		1		1)			,
**En	ergy	to b	e reported i	n units of	electi	ical power	– KWH	design	rate.					
	3.													
,	. :.	a, ·	Control De	vice:							, .		•	
		b.	Operating F	rinciples	:		,							
			· · · · · · · · · · · · · · · · · · ·						• į	• 1				
	:	 C.	Efficiency*		٠.	i		:	d.	Capital Cost:				
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		е.	Life:	,	•				T,	Operating Cost				
		g.	Energy:		:				h.	Maintenance C	ost:			
			W.	i: . ;	.;									•
*E	kplaii	n me	thod of dete	rmining	efficie	ncy above.								

ft. o_F

: · i.	Availability of construction materials	and process chemic	als:		
j.	Applicability to manufacturing proce	esses:	. ,		
	Ability to construct with control dev		de space and opera	eta within prànagad law	olo
	Ability to construct with control dev	ice, ilistan ili avallac	ie space and opera	te within proposed lev	
4.	Observat Device				
•	Control Device				
b.	Operating Principles:				
	Efficiency*:	d.	Capital Cost:		
	Life:	τ.	Operating Cost:		
	Energy:	n.	Maintenance Cos	t:	
i.	Availability of construction materials	and process chemic	als:		
j.	Applicability to manufacturing proce	sses:			
	Ability to construct with control dev		le space, and oper	ate within proposed lev	/els:
• .	the control technology selected:	• • • • • • • • • • • • • • • • • • • •			
V 1997	trol Device:				
	ciency*:	3.	Capital Cost:		
4. Life		5.	Operating Cost:		
6. Ene			Maintenance Cos		a change of
	ufacturer:		;	• .	
	er locátions where employed on simila	ar processes			
	er locations where employed on simila	ii processes.			
a.					
,	(1) Company:				
	(2) Mailing Address:				
	(3) City:	(4)	Staté:		
	(5) Environmental Manager:				
	(6) Telephone No.:				
Explain met	hod of determining efficiency above.				
	(7) Emissions*:	**.	•.	·	
	Contaminant		,	Rate or Concentration	
			· · ·		
		<u> </u>			
	(8) Process Rate*:				
ъ.					
	(1) Company:				
	(2) Mailing Address:				
	(3) City:	(4)	State:		
,		(, ,			

(5)	Environmental Manager:	
(6)	Telephone No.:	
(7)	Emissions*:	
	Contaminant	Rate or Concentration
	<u> </u>	

(8) Process Rate*:

10. Reason for selection and description of systems:

*Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

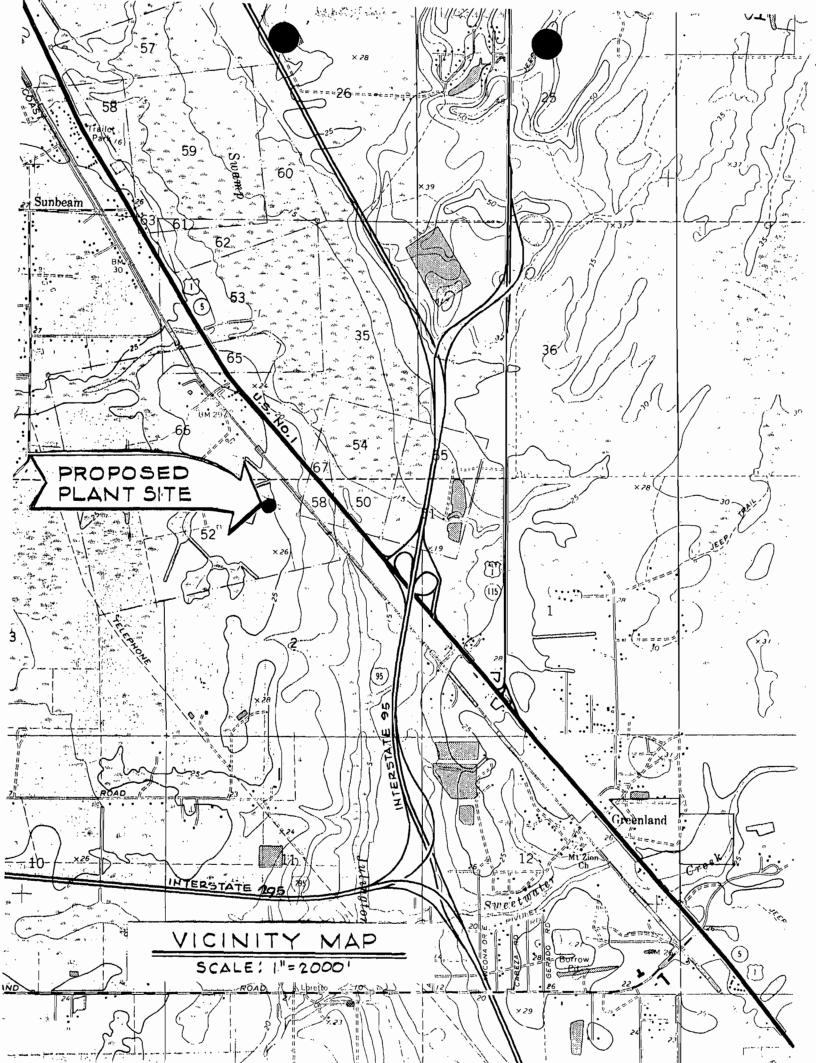
SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

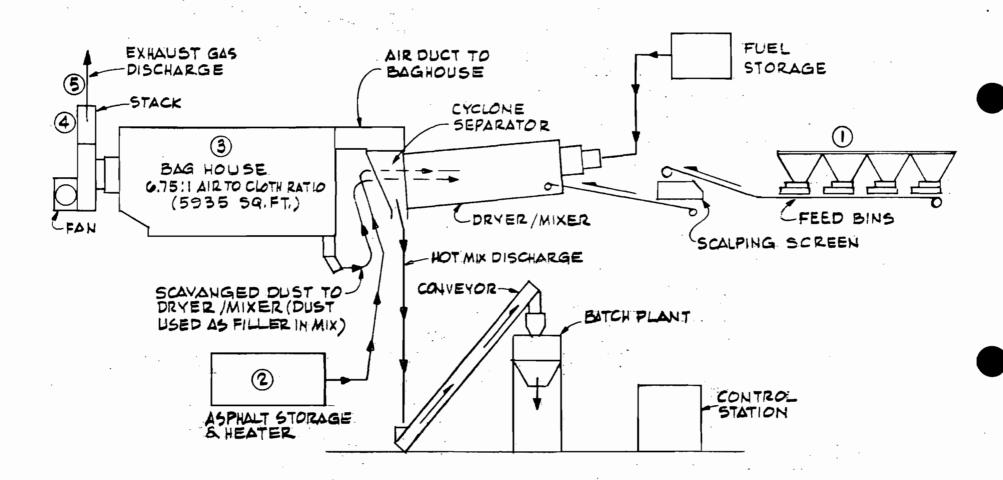
	1 no sites TSP () SO ² *	Wind spd/dir
	Period of monitoring / / / to / / month day year month day year	
	Other data recorded	
	Attach all data or statistical summaries to this application. 2. Instrumentation, Field and Laboratory	
	a) Was instrumentation EPA referenced or its equivalent? Yes No	
,	b) Was instrumentation calibrated in accordance with Department procedures?	
₿.	Meteorological Data Used for Air Quality Modeling	
	1. Year(s) of data from / / to / / month day year to month day year	
	2. Surface data obtained from (location)	
	3. Upper air (mixing height) data obtained from (location)	
	4. Stability wind rose (STAR) data obtained from (location)	
C.	Computer Models Used	
	•	Modified? If yes, attach description.
	2	
	3	 Modified? If yes, attach description.
	4	Modified? If yes, attach description.
	Attach copies of all final model runs showing input data, receptor locations, and principle	e output tables.
D.	Applicants Maximum Allowable Emission Data	
	Pollutant Emission R	ate
	TSP	grams/sec
	so ²	grams/sec
Ε.	Emission Data Used in Modeling	
	Attach list of emission sources. Emission data required is source name, description on UTM coordinates, stack data, allowable emissions, and normal operating time.	point source (on NEDS point number),
F.	Attach all other information supportive to the PSD review.	
*Sp	pecify bubbler (B) or continuous (C).	
G.	Discuss the social and economic impact of the selected technology versus other application, taxes, energy, etc.). Include assessment of the environmental impact of the sour	able technologies (i.e., jobs, payroll, proces.

Company Monitored Data

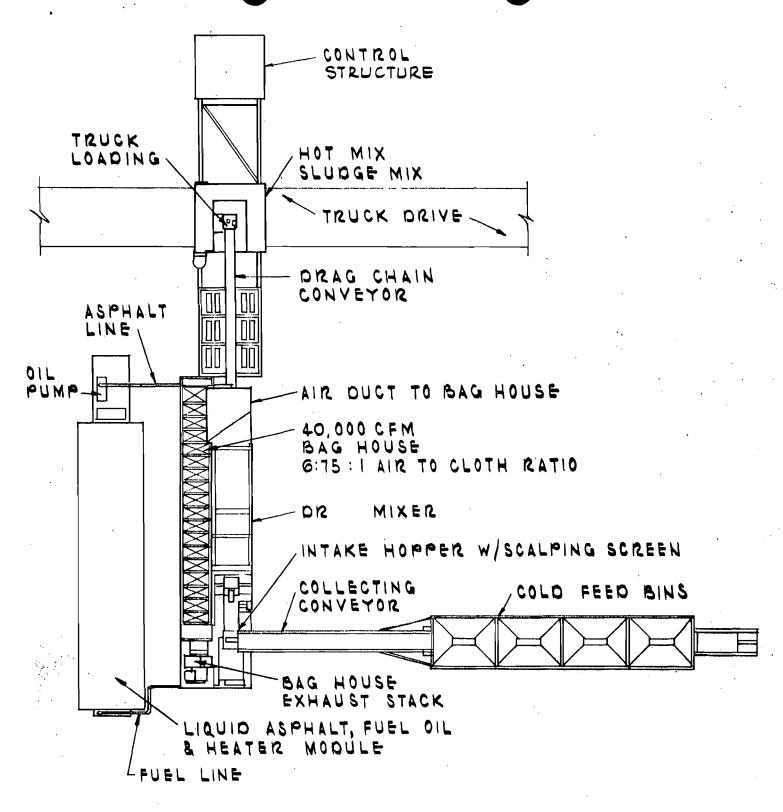
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H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.





SCHEMATIC FLOW DIAGRAM



SCALE: 1'-0"

January 3, 1980

Mr. William B. Lindler Vice-President Dickerson, Inc. P.O. Box 40949 Jacksonville, Florida 32203

Re: Construction Permit Application, Proposed Shad Road Asphalt Plant.

Dear Mr. Lindler:

We have reviewed the captioned application and have determined that it is incomplete. We are therefore requesting that you submit the following additional, necessary information. Your permit application will be held in abeyance pending its receipt.

1. Section III.C. Please document your calculations for determining the potential emissions as the figures submitted appear to be incorrect. Our calculations show that the potential emissions exceed 250 T/yr and that Best Available Control Technology (BACT) must, therefore, be determined and applied as per Chapter 17-2, Florida Administrative Code. Also, please note that New Source Performance Standards apply as the Allowed Emission Rate and not Process Weight, therefore, please resubmit this information using 0.04 grains/DSCF.

RECD - 2/11/80(2)
ALCONFIDENTIAL
FILE

......

Section III.D. Submit manufacturer's specifications for control equipment efficiency with respect to particle sizes less than 500 microns.

- 3. Since this source will be a Major Emitting Facility (Chapter 17-2.02(bb)), BACT does apply. Section VI.B.CC, E. and F must,, therefore, be completely filled out for TSP and SO₂.
- 4. Section VII Fill out completely for PSD determination.
- 5. Submit a computer model showing;
 - a. the maximum Particulate impact in the Non-Attainment Area, and.
 - b. the maximum impact anywhere for determining PSD increment consumption.

Mr. William B. Lindler January 3, 1080 Page 2

Please submit the above as soon as possible, as your permit cannot be processed until this information has been received.

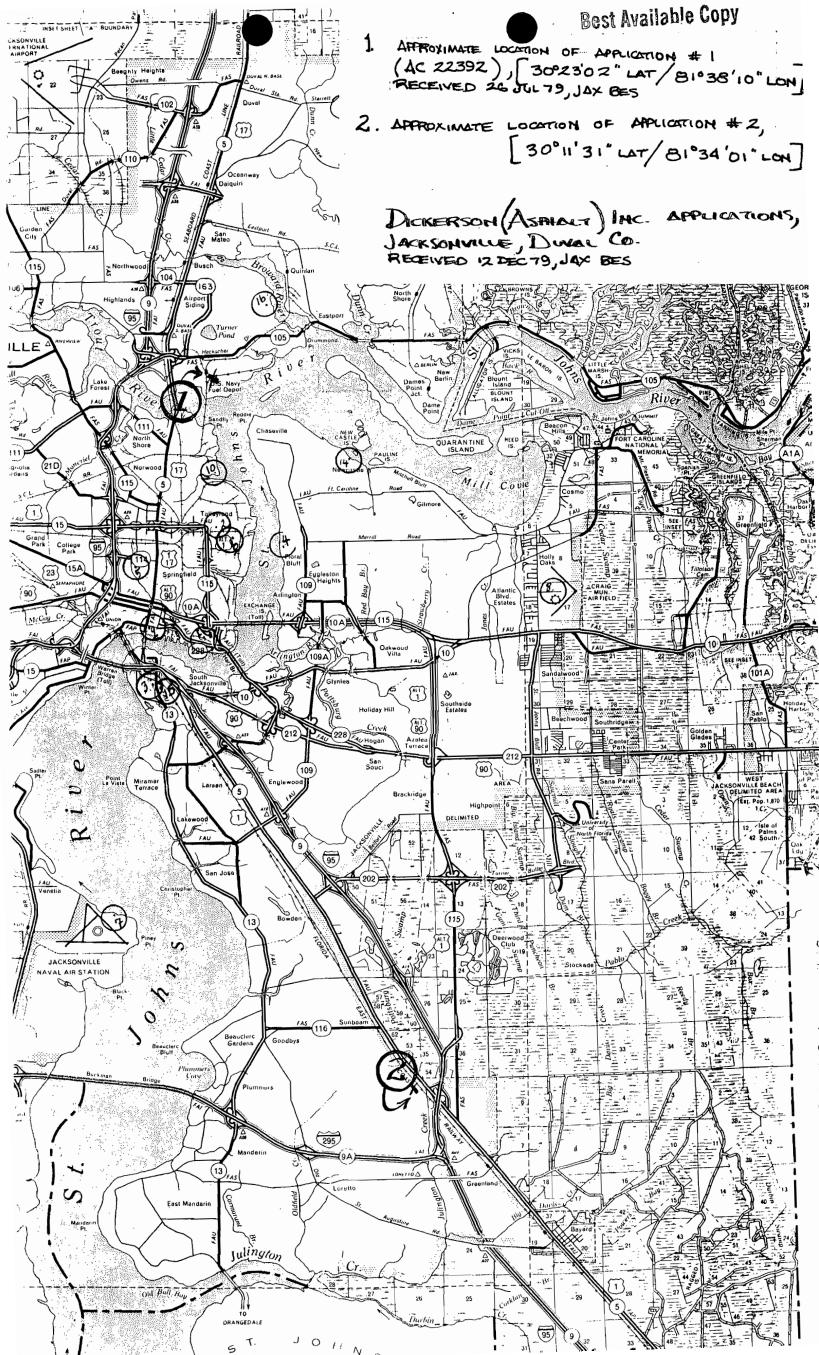
If you have questions, please call me at 633-3033.

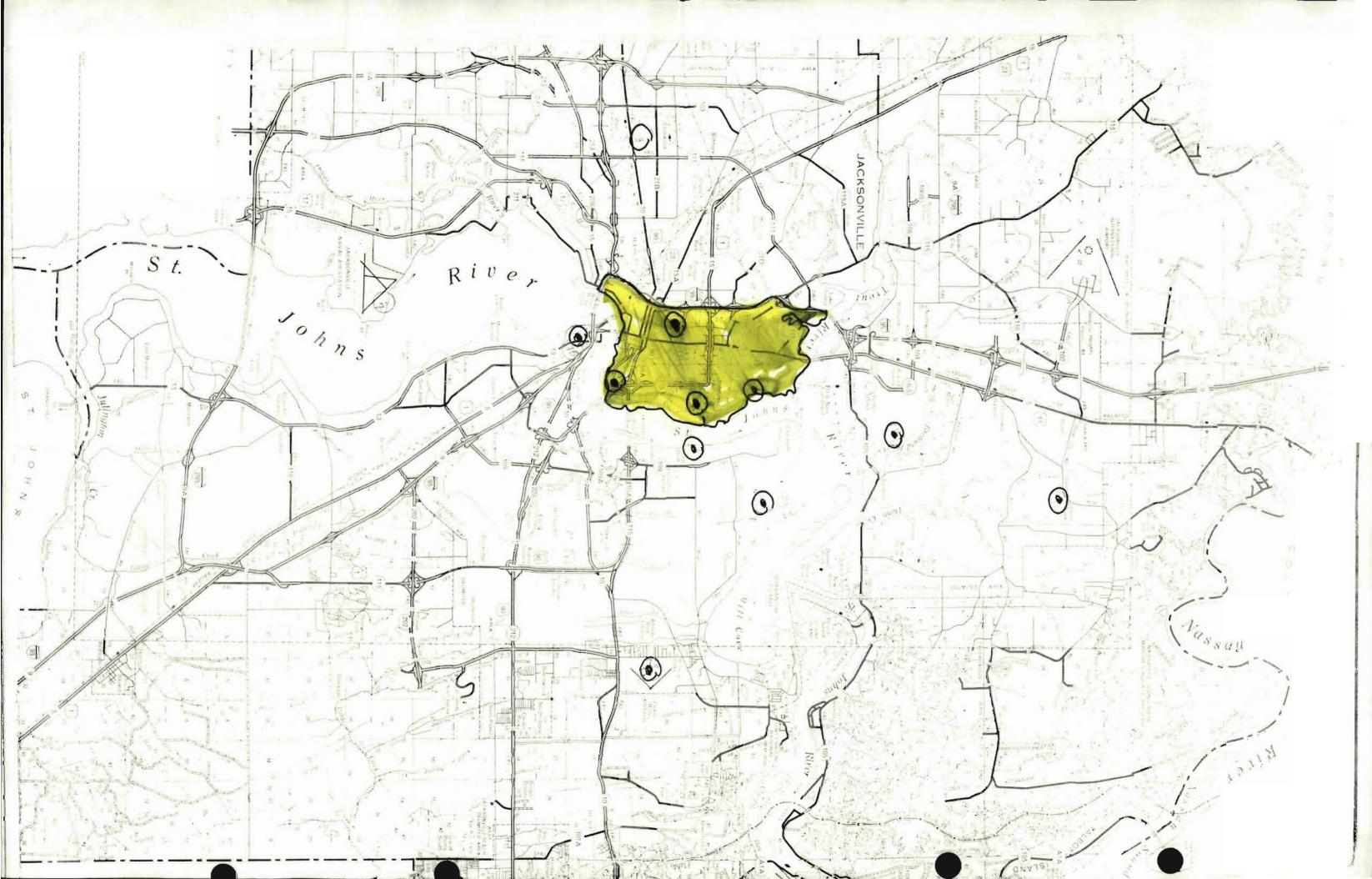
Very truly yours,

E. P. Balducci Assistant Engineer

EPB/kdw cc: DER ANATONG LETTER FROM BADDOCI, AND COMPLETENESS FOINTS FROM ENNS - 2/26/80

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AGNT NAME:POTTER, ALAN. W., P.E. AGNI PI	HONE:(904)/25-4522	
ADDR:US HIĞHWAY #1 & SHAD ROAD AGNT NAME:POTTER, ALAN. W., P.E. — AGNI PI ADDR:6957 LILLIAN ROAD	CITY:JACKSONVILLE	ST:FLZ1P:32244
ADDITIONAL INFO REO:04/03/80 / /	/ / REC: / /	/ / / / /
APPL COMPLETE DATE: / / COMMENTS NEC:	Y DATE REG: / /	DATE REC: / /
LETTER OF INTENT NEC:Y DATE WHEN INTENT	ISSUED: / /` &	AIVER DATE: / /
HEARING REQUEST DATES:	/ /	/ / /
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HEARING ORDER OR FINAL ACTION DUE DATE:	/ / MANUAL	. TRACKING DESIMED:N
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FEE PD DATE#1:12/13/79		
FEE PD DATER2: / / \$ RECEIPTR	REFUNI) DATE:	/ / REFUND \$
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KEMARKS:		





ALAN W. POTTER

CONSULTING ENGINEER

6957 LILLIAN ROAD

JACKSONVILLE, FLORIDA 32211

PHONE 904/725-4522

December 10, 1979

Mr. Edmund Balducci
Asst. Pollution Control Engineer
City of Jacksonville
Air and Water Pollution Control
515 West Sixth Street
Jacksonville, Florida 32206

Re: Dickerson, Inc.

New Asphalt Manufacturing Plant

Jacksonville, Florida

Dear Mr. Balducci:

Please find enclosed, five (5) sets of Application to Construct, flow diagrams and check in the amount of \$20.00 on referenced.

Dickerson, Inc., plans to construct a new Asphalt manufacturing Plant on U.S. Highway No. 1 approximately 0.8 miles south of the intersection with Sunbeam Road, Jacksonville, Florida.

The new plant is equipped with a Hetherington and Berner Baghouse Model No. DB7-8910, and incorporates the latest technology of the industry.

Air emissions control utilizes the Bag House principal (40,000 c.f.m. with 14 ounce woven Nomex bags, 6.74:1 air to cloth ratio). All captured dust is scavanged, then introduced into the liquid asphalt for use as filler material.

Your review and approval of this request for permit to construct is requested.

Sincerely,

Howard A. Enniss

HAE/bod

cc: Dickerson, Inc.

DECI 2 1979

AIR & WATER POLLUTION
CONTROL STYLOS

JASKSONVILLE

No. 643541.

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED.— NOT FOR INTERNATIONAL MAIL

(See Reverse)

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8		RES	TRICTED DELIVERY	¢		
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OSTWA		RECEIPT SERVICE	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢		
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SForn	SENDER: Complete items 1, 2, and 3, Add your address in the "RETURN TO" space on reverse.
Form 3811 AUG. 1978	
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ECEIPI, RE	3. ARTICLE DESCRIPTION: REGISTERED NO. CERTIFIED NO. INSURED NO.
9	(Always obtain signature of addressee or agent)
, בי	I have received the article described above. SIGNATURE
REGISTERED, INSORED PINE	DATE OF DELIGENCE 7 1979 AUG
	19/9
	6. UNABLE TO DELIVER BECAUSE:

☆ GPO: 1978-272-932

344222 No.

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lus postage	RECEIPT FOR CERTIFIED MAIL-304 (plus postage)

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RETURN

RECEIPT

Apr. 1971

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(See other side)

With delivery to addressee only 65¢

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P09 5474913

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED-

NOT FOR INTERNATIONAL MAIL

(See Reverse)

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No. 344223

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lus postage	RECEIPT FOR CERTIFIED MAIL-30¢ (plus postage)

RECEIPT FOR CERTIFIED MAIL-306 (plus postage)

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William Lindley	OR DATE
STREET AND NO.	•
P.O. Bor 40949	
P.O., STATE AND ZIP CODE	
Jacksonville Ila. 32203	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN 1. Shows to whom and date delivered	
2. Shows to whom, date and where delivered 354	
SERVICES With delivery to addressee only 85¢	
DELIVER TO ADDRESSEE ONLY50¢	
SPECIAL DELIVERY (extra fee required)	<u>.</u>

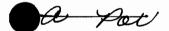
PS Form Apr. 1971 3800 MO INSURANCE COVERAGE PROVIDED— MOT FOR INTERNATIONAL MAIL

(See other side)

GPO: 1972 O - 460-743

No. 3442

20



TWIN TOWERS OF NICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301



BOB GRAHAM GOVERNOR JACOB D. VARN SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

August 24, 1979

CERTIFIED MAIL

Mr. William B. Lindler Vice President Dickerson, Inc. P. O. Box 40949 Jacksonville, Florida 32203

RE: Drum Mix Asphalt Batch Plant Duval County

Dear Mr. Lindler:

The application submitted by your company to construct a 150 Ton Drum Mix Asphalt Plant in Duval County has been received and reviewed for completeness.

The application as submitted has been found to be incomplete in several respects.

The attached report "Completeness Evaluation of Dickerson Drum Mix Asphalt Plant, Duval County, Number AC-16-22392" describes the additional information needed.

We will be available to meet with you or to assist you by phone in completing your application and to work with you in any way possible to expedite the processing of your application.

For your information, I have attached a copy of Chapter 17-2 FAC including the June 1979 nonattainment rule amendments.

Mr. William B. Lindler Page Two August 24, 1979

Should you have any questions, please contact me at (904) 488-1344.

Sincerely,

Stephen Smallwood / Bureau of Air Quality

Management

SS/es

Attachments

J. P. Subramani

W. Starnes

D. Dutton

M. DeGrove

A. Potter

R. Cunningham

COMPLETENESS EVALUATION

of

Application Number AC-16-22392

Dickerson Drum Mix Asphalt Batch Plant
Duval County

August 24, 1979

Bureau of Air Quality Management

Florida Department of Environmental Regulation

Determination of Applicable Rules

The proposed plant is to be located within the Duval County ozone nonattainment area, and within the area of influence of the Jacksonville particulate nonattainment area. (See 17-2.13, 17-2.16, and 17-2.17(1) FAC). The proposed plant is a major source with respect to particulate (17-2.02(6) FAC), and therefore is not exempt from the nonattainment rule for particulate unless reasonable assurance is provided that the particulate emission from the plant will not have a significant impact on the particulate nonattainment area (17-2.17(1) FAC).

The VOC emission from the proposed plant is subject to the nonattainment rule unless the VOC emission is to be less than 5 #/hr and 15 Ton/year. (17-2.17(3) FAC).

The proposed plant is a major emitting facility with respect to particulate emission (17-2.02(70) FAC) subjecting the particulate emission to control by BACT (17-2.03 FAC). Sufficient information has not been provided for VOC or NO₂ emission to determine if BACT applies to these emissions. The plant is not a major emitting facility with respect to suflur dioxide, therefore BACT does not apply to the emission of SO₂, however, the SO₂ emission is subject to a permit condition that will provide reasonable assurance that the ambient standards will not be violated.

Ambient Modeling and Monitoring Requirements

No additional modeling or monitoring data is required.

Information Needed

- Provide emission estimates in ton per year of NO₂
 (dryer) and VOC (dryer and on-site fuel or asphalt storage or handling).
- 2. Recommended BACT for each pollutant (NO_2 , VOC) that is to have potential emissions in excess of 250 tons per year.
- 3. Substantiate emission factor used for particulate emission. Supplement #8 of AP-42 give 4.9 #/ton as the uncontrolled emission factor for drum mix asphalt plants.
- 4. Identify, quantify and state control procedures for fugitive particulate emission pursuant to 17-2.05.
- 5. Specify any limitation on the hours of operation requested. The permitted hours of operation is a factor in the tons/year potential emissions calculations. If no additional specification is provided the operation times shown in Section II, F. Page 2, Form 17-1.122 will be applied both for potential emission calculations and as a permit condition.

TWIN TOWE OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301



BOB GRAHAM,... GOVERNOR

JACOB D. VARN

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

August 3, 1979

Mr. William B. Lindler Dickerson Ashpalt Inc. UTM 438880 E/3361140N

Dear Mr. Lindler:

This letter is to inform you that the Florida Department of Environmental Regulation, Bureau of Air Quality Management has received and processed the following check(s) submitted by you:

REMITTER	CHECK NUMBER	CHECK AMOUNT	SOURCE CONSTRUCTION APPLICATION FOR:
Alan W. Potter (Dickerson Asphalt)	6449, American Arlington Bank, Jacksonville, Florida	\$20.00	Dickerson Asphalt (Duval County)

If the Department may be of further assistance to you, in the Permit Application Process, please contact Mark Hodges, at 904/488-1344.

Sincerely,

Mark Hodges
Bureau of Air Quality
Management

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

N? 33502

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

dress UTM 438860 E 3361140 N Dollars S 2000
Idress UTM 438880 E 3361140 N Dollars S 20°
pplicant Name & Address WILLIAM 3. LINDLER
urce of Revenue
venue Code Application Number AC 72392
By Made

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD FILE#000000022392 COE# DER PROCESSOR:STARNES DER OFFICE:TLH DATE FIRST REC: 07/26/79 APPLICATION TYPE:AC FILE NAME:DICKERSON INCORPORATED APPL NAME: LINDLER , WILLIAM B. APPL PHONE: (904)764-7771 PROJECT COUNTY: 16 ADDR:P.O.BOX 40949 CITY:JACKSONVILLE ST:FLZIP:32203 AGNT NAME: POTTER, ALAN W. AGNT PHONE: (904)725-4522 ADDR:6957 LILLIAN ROAD CITY:JACKSONVILLE ST#FLZIP#32244 ADDITIONAL INFO REQ:08/24/79 / / REC: / / / DATE REC: WAIVER DATE: APPL COMPLETE DATE: / / COMMENTS NEC:Y DATE REQ: / DATE WHEN INTENT ISSUED: / / LETTER OF INTENT NEC:Y **HEARING REQUEST DATES:** HEARING WITHDRAWN/DENIED/ORDER -- DATES: HEARING ORDER OR FINAL ACTION DUE DATE: MANUAL TRACKING DESIRED:N 08/24/79 *** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 14:01:29 FEE PD DATE#1:07/26/79 \$0020 RECEIPT#00033502 REFUND DATE: / / / REFUND DATE: / / REFUND \$ FEE PD DATE#2: / / \$ RECEIPT# APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:07/26/79 REMARKS:SOURCE LOCATION: UTM=438880E/3361140N, LAT/LON=30.23'02"N/81.38'10", JACKSONVILLE.

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD FILE#000000022392 COE# | DER PROCESSOR:STARNES DER OFFICE:TLA FILE NAME: DICKERSON INCORPORATED DATE FIRST REC: 07/26/79 APPLICATION TYPE:A(APPL NAME: LINULER , WILLIAM 8. PROJECT COUNTY: 18 APPL PHONE: (904)/64-7771 ADDR:P.O.BOX 40949 CITY:JACKSONVILLE ST:FLZIP:32203 AGNT NAME: POTTER, ALAN W. AGNT PHONE: (904)725-4522 CITY:JACKSONVILLE ADDR:6957 LILLIAN ROAD ST:FLZIP:3221 ADDITIONAL INFO RE0:08/24/79 REC: / / APPL COMPLETE DATE: / / COMMENTS NEC:Y DATE REQ: / / DATE REC: LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: HEARING REQUEST DATES: HEARING WITHDRAWN/DENIED/GROER -- DATES: HEARING ORDER OR FINAL ACTION DUE DATE: MANUAL TRACKING DESIRED: 02/14/80 *** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 09:42:38 PD DATE#1:07/26/79 \$0020 RECEIPTH00033502 REFUND DATE: / / REFUND \$ FEE PD DATE#2: / / \$ 1 1 RECEIPT# REFUND DATE: REFUND \$ APPL:ACTIVE/INACTIVE/DENIED/WII:DRAWN/TRANSFERRED/EXEMPT/18SUED:WI DATE:02/04/80 REMARKS:SOURCE LOCATION: UTM=438880E/3364140N, LAT/LON=30.23402"N/84.38440", JACKSONVILLE.



ALAN W. POTTER

CONSULTING ENGINEER

6957 LILLIAN ROAD

JACKSONVILLE 11, FLORIDA

PHONE 725-4522

July 26, 1979

Mr. Edmund Balducci
Assistant Pollution Control Engineer
City of Jacksonville
Air and Water Pollution Control
515 West Sixth Street
Jacksonville, Florida 32206

Re: DICKERSON, INC.

Jacksonville, Florida

New Portable Asphalt Batch Plant Jacksonville, Duval County, Florida

Dear Mr. Balducci:

Enclosed are five (5) copies of "Application to Construct", related "Test Reports", plant "Flow Diagrams, and, our check No. 6449 in the amount of Twenty Dollars as required "Application Fee" for referenced.

Dickerson, Inc. plans to utilize the new portable asphalt batch plant as an interim plant facility while their existing asphalt plant is being relocated from its present site to the new site (0.6 mile west).

The new portable asphalt batch plant was manufactured by Astec Industries, Inc., Chattanooga, Tennessee, and incorporates the latest technology of the industry.

Air emissions control utilizes the "bag house" principle (28,000 c.f.m. with 630 - 14 ounce woven Nomex bags, 5.75:1 air to cloth ratio). All captured dust is scavanged and then is introduced into the liquid asphalt for use as "filler material".

In accordance with the conference in your office this date, it is our understanding that the enclosed application and data constitutes a satisfactory response to your letter of July 24, 1979, and that no additional action or response is required until further notice from you.

Your review and approval of this submittal is requested.

Sincerely,

Howard A. Enniss

HAE/p

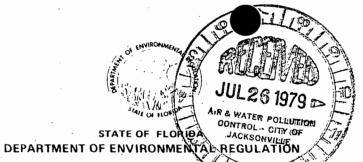
cc: Dickerson, Inc.
Jacksonville, Fla.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 335(

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

TEGET TO THE TEGET HOLD MISSELLANGES THE VEHICL
Received from DICKERSON (ASPLACT) INC. PORTABLE LATCH Date 26 JULY 1)7;
Address UTM 43880 E 3361140 N Dollars \$ 2000
Applicant Name & Address WILLIAM B. LINCLER
Source of Revenue
Revenue Code Application Number AC 72332
By Male



APPLICATION TO OPERATE/CONSTRUCT

SOUF	RCE TYPE:	Air Pollution	[X] New ¹ [] Existing ¹	
APPL	ICATION TYPE:	[X] Construction [] Operation []	Modification	
сом	PANY NAME:	Dickerson, Inc.		COUNTY: Duval
ldent No. 2	ify the specific emi	ssion point source(s) addressed in this a Portable Asphalt Batch Pla	pplication (i.e. Lime Kiln No.	
SOUF	RCE LOCATION:	Street	·	City Jacksonville
		UTM: East438880 ;	North	3361140
		Latitude 30 ° 23 ' 02 "		į.
ΔΡΡΙ	ICANT NAME AN	D TITLE: William B. Lind	ller, Vice President	
VDD 1	ICANT ADDRESS	P. O. Box 40949	, Jacksonville, Flr	oida 32203
APPL	ICANT ADDRESS		·	
		SECTION I: STATEMENTS	Y APPLICANT AND ENGIN	EER
Α.	APPLICANT	and the second second	•	
	Lam the undersign	ed owner or authorized representative* o	Dickerson, Inc.	
		tatements made in this application for a	•	and the state of t
*^ ***	pollution control Florida Statutes.	orrect and complete to the best of my source and pollution control facilities is and all the rules and regulations of the coartment, will be non-transferable and becoment.	n such a manner as to complepartment and revisions there	ly with the provision of Chapter 403, eof. I also understand that a permit, if tment upon sale or legal transfer of the
Atta	ach letter or author			indler, Vice President
		. •	Name an	d Title (Please Type)
			Date: July 26, 1979	d Title (Please Type) Telephone No. (904) 764-7771
В.	PROFESSIONAL	ENGINEER REGISTERED IN FLORIDA	(where required by Chapter	471, F.S.)
	be in conformity of permit application erly maintained ar rules and regulation	nat the engineering features of this pollut with modern engineering principles appli . There is reasonable assurance, in my p nd operated, will discharge an effluent that ons of the department. It is also agreed th ctions for the proper maintenance and or	cable to the treatment and dis rofessional judgment, that the it complies with all applicable at the undersigned will furnish	posal of pollutants characterized in the pollution control facilities, when propstatutes of the State of Florida and the policy if authorized by the owner, the appli-
			Alan W. Pot	ter, P.E.
				ne (Please Type)
	(Affix Seal)	2	Alan W. Potter,	Consulting Engineer
		A Comment of the Comm	Company	y Name (Please Type)
		0.6.00	6957 Lillian Road	, Jax., Fla. 32211
			Mailing A	Address (Please Type)
	Florida Registratio	on No 5438-	Date: July 26, 1979	Telephone No.(904) 725-4522
	Section 17-2.02(15	•	(F.A.C.)	·
DER	FORM 17-1.122(16) F	age 1 of 10 Consequents		

		-
be in full compliance with all applicable State and Federal	regulations.	:
		:
		· ·
Schedule of project covered in this application (Construction Permit Application Only)		•
Start of ConstructionAugust_1979 Completion of Construction	September 1979	9
Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for project serving pollution control purposes. Information on actual costs shall be furnished permit.)	with the application (s/units (for oper
Bag House, \$180,000.00		
Indicate any previous DER permits, orders and notices associated with the emission point, in tion dates. None		e and e
None		·
		•
Normal equipment operating time: hrs/day 5 ; days/wk 5 ; wks/yr 40	_; if power plant, hrs/	yr
if seasonal, describe:		:
if seasonal, describe:		:
if seasonal, describe:		:
if seasonal, describe:		:
If this is a new source or major modification, answer the following questions. (Yes or No)		:
If this is a new source or major modification, answer the following questions. (Yes or No)		· · · · · · · · · · · · · · · · · · ·
If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant?		:
If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied?		:
If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied? c. If yes, list non-attainment pollutants.	No	· · · · · · · · · · · · · · · · · · ·
If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied? c. If yes, list non-attainment pollutants. 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No	· · · · · · · · · · · · · · · · · · ·
If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied? c. If yes, list non-attainment pollutants. 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No	· · · · · · · · · · · · · · · · · · ·
If this is a new source or major modification, answer the following questions. (Yes or No) 1. Is this source in a non-attainment area for a particular pollutant? a. If yes, has "offset" been applied? b. If yes, has "Lowest Achievable Emission Rate" been applied? c. If yes, list non-attainment pollutants. 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. 3. Does the State "Prevention of Significant Deterioriation" (PSD) requirements	No	:

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contam	inants	Utilization	Butana Slavi Dianam
Description	Туре	% Wt	Rate : lbs/hr	Relate to Flow Diagram
Aggregate	Particulate	6%	280,000 lbs/hr	Cold Feed bins (1)
Liquid Asphalt	None	ţ	20,000 lbs/hr	Asphalt Storage (20)
		. (() () () () () () () () () ()
	·	y Ž		

В.	Process Rate,	if applicable:	(See Section	٧,	Item	1))
----	---------------	----------------	--------------	----	------	----	---

1. Total Process Input Rate (lbs/hr): 300,000 1bs/hr

2. Product Weight (lbs/hr): 300,000 1bs/hr

C. Airborne Contaminants Emitted:

N	Emiss	ion ¹	Allowed Emission ²	Allowable ³	Potential	Emission ⁴	Relate
Name of Contaminant	Maximum lbs/hr	Actual T/yr	Rate per Ch. 17-2, F.A.C.	Emission lbs/hr	lbs/hr	T/yr	to Flow Diagram
Particulate Matter	3.4	1.7	0.04 grains/SCF NSPS	5.02	2250	1125	(11)(13)(<u>G</u>
S0 ₂	12.3	6.15	BACT	12.3	12.3	6.15	(;6)(13) (G)
	*						
			4/4		:		1. 3. 2- 5

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles ⁵ Size Collected (in microns)	Basis for Efficiency (Sec. V, It5
Astec Bag House	Particulate	99.85%	- 200 mesh	mfg recommended
630 - 14 oz Nomex			\$ ± &	test data (see
bags: 5.75:1 Air to Clot	n ratio			attachment)
		•		
				·
,				

¹See Section V, Item 2.

51f Applicable

DER FORM 17-1.122(16) Page 3 of 10

²Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. + 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard

^{&#}x27;Emission, if source operated without control (See Section V, Item 3)

			Co.,.	sumption*			<u>:</u>
Туре	(Be Specific)			max.	<u>/</u>	Maximunt H (MMBT	leat Input U/hr)
	· · · · · · · · · · · · · · · · · · ·	•	avg/hr				
No. 2 Diese	l Fuel	6	.91 bb1/hr	8.5 bb1	/hr 50	.0 X 10 ⁶ B1	U/hr
-		÷ * *			-		
	· :	· ·				·	
		·		-			
'Units Natural Gas,	MMCF/hr; Fuel	Oils, barrels/hr;	Coal, lbs/hr		:		
∈uel Analysis:	•	1					
Percent Sulfur:	0.24 %			Percent Ash:	0%		
Density:	7.171		lbs/gal	Typical Percent			
Heat Capacity:		·		140.000			BTU/ga
Other Fuel Contam							<u> </u>
Other Fuel Contain	Highira failleir in	ay cause an pond	cioni. — innu-	······································			
					N/A		-
					rage	Maximur	n
	3.35	generated and m	ethod of dispos	al.			
<u>None</u>	<u>. </u>					<u> </u>	
						· · · · · · · · · · · · · · · · · · ·	
-			<u>.</u>	·····			· · · · · · · · · · · · · · · · · · ·
H. Emission Stag	ck Geometry and	f Flow Characteri	stics (Provide d	ata for each stack	k):	1 ;	
Stack Height:	15.5_		ft.	Stack Diameter:	2.8 x 1.	9 = 5.32 so	ftft
Gas Flow Ra	te: <u>28,000</u>)		Gas Exit Tempe			of
Water Vapor	Content:20		%	Velocity:	87.7		FPS
	*				•		
		SECTION	IV: INCINER.	ATOR INFORM	ATION	23.5	
		T			· ·	Type V	Type VI
Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type∄l (Réfuse)	Type III (Garbage)	Type IV (Pathological	Liq & Gas	(Solid
				1 '	-	By prod.)	By prod.)
Lbs/hr	1						
Incinerated			,				
				<u> </u>	<u> </u>		••• *
Description of Was							· · · · · · · · · · · · · · · · · · ·
Total Weight Incine	rated (lbs/hr) _		\$	Design Capacity	(lbs/hr)		· .
Approximate Numl	per of Hours of (Operation per day	·	,	day	s/week	
Manufacturer							
Date Constructed				Model No.		·	

	Volume			Fuel	Temperature	
	$(ft)^3$	(BTU/hr)	Туре	BTU/hr	(°F)	
Primary Chamber			*			
Secondary Chamber						
Stack Height:		ft. Stack Diameter		Stack Tem	p	
Gas Flow Rate:		ACFM		DSCFM* Velocity_	FPS	
cess air.			_		dry gas corrected to 50% ex	
Type of pollution control	device: [] Cy	yclone [] Wet Scrui	bber [] Afterbi	urner [] Other (spec	ify)	
Brief description of opera	ting characteristi	cs of control devices:				
					·	
	*					
,						
Ultimate disposal of any e	effluent other tha	an that emitted from t	he stack (scrubber	water, ash, etc.):		
		•	•		· · · · · · · · · · · · · · · · · · ·	
			K			
			\		,	

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight show derivation.
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.,) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.).
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8%" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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SECTION V SUPPLEMENTAL INFORMATION

1. PROCESS IMPUT RATE & PRODUCT WEIGHT

ASCREGRATE 280,000 16/40 INPUT: ASPHALTIC CENENT 20,000

TOTAL INPUT 300,000 15/40

OUTPUT: AIR EMISSIONS 299,997 PRODUCT

TOTAL OUTPUT 300,000 16/hr

- 2. SEE ATTACHMENTS
- 3. UNCONTROLLED EMISSION FACTOR SECT 8.1 - 15 16 PART /ton ASPHALT GM. AP-42 PRODUCTION RATE 300,000 15/hr 150 ton/hr

POTENTIAL EMISSIONS = 15 to x 150 to = 2250 16/4-

> = 1125 ton/yr based upon 1000 hr/yn openation

4. ASTEC PLANT AND BAGHOUSE

BACHOUSE: 630 - 14 OE, NOMEX. BAGS

AIR: CLOTH RATIO = 5.75:1

(SER ATTACHMENT 3)

5. EFFICIENCY OF CONTROL SYSTEM

POTENTIAL EMISSIONS = 2250 16/hr (V-3) ACTUAL EMISSIONS = 3.416/hr (V-2)

Efficiency = 2250-3.4 x 100 = 99.85 %

SECTION V (CONT)

- G. PROCESS FLOW DIAGRAM (SEE ATTACHMENT 4)
- 7. LOCATION MAP (SRE ATTACHMENT 5)
- 8. PLOT PLAN (SER ATTACHMENT 6)

- 9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Particulate Matter O.04 grains/SCF, dry Has EPA declared the best available control technology for this class of sources (If yes, attach copy) [] Yes [X] No Contaminant Rate of Concentration Particulate Matter O.04 Grains/DSCF* O.24% Sulfur fuel 0il Describe the existing control and treatment technology (if any), (New Source - proposed control) 1. Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99 85% 4. Capital Costs: \$1,000 annual 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and SO2 Contaminant Rate of Concentration Particulate Matter O.04 Grains/DSCF O.24% Sulfur fuel oil	Contaminant	Rate of Concentration
Has EPA declared the best available control technology for this class of sources (If yes, attach copy) [] Yes [X] No Contaminant Rate or Concentration What emission levels do you propose as best available control technology? Contaminant Rate or Concentration Particulate Matter 0.04 Grains/DSCF* S02 0.24% Sulfur fuel 0il Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99.85% 4. Capital Costs: \$180,000 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and S02 Contaminant Rate or Concentration 0.04 Grains/DSCF S02 0.24% Sulfur fuel oil		0.04 grains/SCF, dry
Contaminant What emission levels do you propose as best available control technology? Contaminant Particulate Matter O.04 Grains/DSCF* O.24% Sulfur fuel oil Describe the existing control and treatment technology (if any). (New Source - proposed control) 1. Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99.85% 4. Capital Costs: \$180,000 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and SO2 Contaminant Particulate Matter O.04 Grains/DSCF SO2 0.24% Sulfur fuel oil		
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Contaminant What emission levels do you propose as best available control technology? Contaminant Particulate Matter O.04 Grains/DSCF* O.24% Sulfur fuel oil Describe the existing control and treatment technology (if any). (New Source - proposed control) 1. Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99.85% 4. Capital Costs: \$180,000 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and SO2 Contaminant Particulate Matter O.04 Grains/DSCF SO2 O.24% Sulfur fuel oil		
What emission levels do you propose as best available control technology? Contaminant Particulate Matter: S02 Oescribe the existing control and treatment technology (if any). (New Source - proposed control) Control Device/System: Bag House Operating Principles: impaction on fabric cloth Efficiency: 99.85% Capital Costs: \$180,000 Useful Life: 10 years Operating Costs: \$1,000 annual Emissions: Particulate Matter and S02 Contaminant Particulate Matter O.04 Grains/DSCF O.24% Sulfur fuel 0il	Has EPA declared the best available control technology for thi	is class of sources (If yes, attach copy) [] Yes [X] No
What emission levels do you propose as best available control technology? Contaminant Particulate Matter O.04 Grains/DSCF* S02 O.24% Sulfur fuel 0il Describe the existing control and treatment technology (if any). (New Source - proposed control) 1. Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99.85% 4. Capital Costs: \$180,000. 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and S02 Contaminant Particulate Matter 0.04 Grains/DSCF S02 0.24% Sulfur fuel oil	Contaminant	Rate or Concentration
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Particulate Matter S02 0.04 Grains/DSCF* 0.24% Sulfur fuel 0il Describe the existing control and treatment technology (if any). (New source - proposed control) 1. Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99.85% 4. Capital Costs: \$180,000. 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and S02 Contaminant Particulate Matter 0.04 Grains/DSCF 0.24% Sulfur fuel oil	What emission levels do you propose as best available control	technology?
Describe the existing control and treatment technology (if any). (New source - proposed control) 1. Control Device/System: Bag House 2. Operating Principles: impaction on fabric cloth 3. Efficiency: 99.85% 4. Capital Costs: \$189,000. 5. Useful Life: 10 years 6. Operating Costs: \$1,000 annual 7. Energy: 18,650 kwh/yr 8. Mair tenance Cost: \$4,000 annual 9. Emissions: Particulate Matter and \$02 Contaminant Particulate Matter 0.04 Grains/DSCF S02 0.24% Sulfur fuel oil		t in the second of the second
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9. Emissions: Particulate Matter and SO ₂ Contaminant Rate or Concentration Particulate Matter 0.04 Grains/DSCF SO ₂ 0.24% Sulfur fuel oil	2. Operating Principles: impaction on fabric c 3. Efficiency: 99 85% 4.	Capital Costs: \$180,000.
Contaminant Rate or Concentration Particulate Matter 0.04 Grains/DSCF SO2 0.24% Sulfur fuel oil	 Operating Principles: impaction on fabric c Efficiency: 99.85% Useful Life: 10 years 6. 	Capital Costs: \$189,000. Operating Costs: \$1,000 annual
Particulate Matter 0.04 Grains/DSCF 0.24% Sulfur fuel oil	2. Operating Principles: impaction on fabric c 3. Efficiency: 99 85% 4. 5. Useful Life: 10 years 7. Energy: 18,650 kwh/yr 8.	Capital Costs: \$189,000. Operating Costs: \$1,000 annual
SO ₂ 0.24% Sulfur fuel oil	 Operating Principles: impaction on fabric c Efficiency: 99.85% Useful Life: 10 years Energy: 18,650 kwh/yr Emissions: Particulate Matter and SO2 	Capital Costs: \$189,000. Operating Costs: \$1,000 annual Mair tenance Cost: \$4,000 annual
	2. Operating Principles: impaction on fabric c 3. Efficiency: 99.85% 4. 5. Useful Life: 10 years 6. 7. Energy: 18,650 kwh/yr 8. 9. Emissions: Particulate Matter and SO ₂ Contaminant	Capital Costs: \$189,000. Operating Costs: \$1,000 annual Mair tenance Cost: \$4,000 annual Rate or Concentration
	2. Operating Principles: impaction on fabric c 3. Efficiency: 99.85% 4. 5. Useful Life: 10 years 6. 7. Energy: 18,650 kwh/yr 8. 9. Emissions: Particulate Matter and SO2 Contaminant Particulate Matter	Capital Costs: \$189,000. Operating Costs: \$1,000 annual Mair tenance Cost: \$4,000 annual Rate or Concentration 0.04 arains/DSCF
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*Explain method of determining D 3 above. (see Section V-5)

*DER has already determined BACT for Asphalt Plants to be: Bag House with 0.04 grains/SCF dry. 0.5% Sulfur fuel 0il.

DER FORM 17-1.122(16) Page 6 of 10

	۵.	ricignit. 15.5	٠	U.	Biblic(cr.	L.0 x 1.5	,
	c.	Flow Rate: 28,000	ACFM	d.	Temperature:	350	
	e.	Velocity: 87.7	FPS				
Ξ.	Describe	the control and treatment technology ava-	ilable (As r	many	types as applical	ble, use additional p	ages if necessary).
	1.						
	a.	Control Device: Bag House					
	b	Operating Principles: impaction	<i>(</i>	,		•	
	c .	Efficiency: 99.85% (see V-5)		ď.	Capital Cost:	\$180,000	
	e.	Useful Life: 10 yrs	•	f,	Operating Cost:	\$1,000/yea	r .
٠.	g,	Energy*: 18,650 KWH/yr		h.	•	ost: 4000/year	•
٠.		Availability of construction materials and	process ch	emic		;	
		Available		-			
	j.	Applicability to manufacturing processes:	appli	cab	le		•
	k.	Ability to construct with control device, i	nstall in av	ailab	le space, and ope	rate within propose	d levels:
		can be done					
	2.				•		•
	a.	Control Device: High Energy S	crubber				·
	b.	Operating Principles:			•		
•	•					·	
	c.	Efficiency*:		, d .	Capital Cost:		•
	e.	Useful Life:		f.	Operating Cost	:	
	· g.	Energy **:	٠	h.	Maintenance Co	osts:	
	i.	Availability of construction materials and	process ch	nemic	:als:		
						;	
	j.	Applicability to manufacturing processes:					
	k.	Ability to construct with control device, i	install in av	/ailab	ole space, and ope	erate within propose	ed levels:
• c .	يص مندام	ethod of determining efficiency.					
	٠,	thod of differinfing efficiency. De reported in units of electrical power – K	M/EL during		,		
+ E	3. iaida roʻi	be reported in quits or electrical bower - K	wri design	rate			
		Control 2s ion	٠.				
	a .	Control Device:				• W. Kan	
	b.	Operating Principles:					
		. Efficience *.	•	ı	Or wheel O		
	C.	Efficiency*:		gt.	Capital Cost:		
	્ છે.	Life:		f.	Operating Cost	:	•
	g.	Energy:		h.	Maintenance Co		

٥F

10. Stack Parameters

^{*}Explain method of determining efficiency above.

i. Availability of constitution materials and process of	nemicals:
j. Applicability to manufacturing processes:	
k. Ability to construct with control device, install in a	railable space and operate within proposed levels:
4.	
a. Control Device	
b. Operating Principles:	
c. Efficiency*	d. Capital Cost
e. Life:	f. Operating Cost:
g. Energy:	h. Maintenance Cost:
Availability of construction materials and process characters.	
1 2	
j. Applicability to manufacturing processes:	
k. Ability to construct with control device, install in a	railable space, and operate within proposed levels:
. Describe the control technology selected: (See E-1)	
1. Control Device	
2. Efficiency*:	3. Capital Cost:
4. Life:	5. Operating Cost:
6. Energy:	7. Maintenance Cost:
8. Manufacturer: Astec	
9. Other locations where employed on similar processes:	
a.	
(1) Company: Florida Asphalt Pav	ing Company
(2) Mailing Address:	
(3) City: Panama City	(4) State: Florida
(5) Environmental Manager:	
(6) Telephone No.:	$oldsymbol{\psi}_{i}$
*Explain method of determining efficiency above.	
(7) Emissions	
Contaminant	Rate or Concentration 3.51 1b/hr (0.016 grains/SCF, dry)
Particulate Matter	
	(see attached)
(8) Process Rate*: 150 Tons/hour	
b.	
(1) Company: Holland Construction	on Company
(2) Mailing Address:	
(3) City: Dublin	(4) State: Georgia
TO SHAPE DUDITIES	

ROBERT NO

*Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

F.

(3) Environmental Manager	(5)	Environmental	Manager
---------------------------	-----	---------------	---------

- (6) Telephone No.:
- (7) Emissions*:

Contaminant Particulate Matter

Rate or Concentration 3.2 1b/hr (0.025 grains/SCF, dry)

(see attached)

(8) Process Rate*: 224 tons/hour

10. Reason for selection and description of systems:

*Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

A.	Company Monitored Data N/A 1 no sites TSP() SO ²⁺	
		Wind spa/dir
	Period of monitoring / / to / / month day year month day	y year
	Other data recorded	
	Attach all data or statistical summaries to this application.	
	2, Instrumentation, Field and Laboratory	
	a) Was instrumentation EPA referenced or its equivalent? Yes	s No
	b) Was instrumentation calibrated in accordance with Department prod	cedures? Yes No Unknown
8.	Meteorological Data Used for Air Quality Modeling	
	1. 72 Year(s) of data from 1 / 1 / 72 to 12 / 30 month day year month day	0 / 72
	•	
. ,	2. Surface data obtained from (location) Valdosta	
	3. Upper air (mixing height) data obtained from (location) <u>Naycross</u>	
	4. Stability wind rose (STAR) data obtained from (location)Valdost	ta/Waycross
C.	Computer Models Used	
	1. CRSTER, unmodified (attachments 7 & 8)	
	2	
	3	, ,
	4	Modified? If yes, attach description.
	Attach copies of all final model runs showing input data, receptor locations,	and principle output tables.
D.	Applicants Maximum Allowable Emission Data	
	Pollutant	Emission Rate
	TSP	0.63 grams/sec
	so ²	1.54 grams/sec potential; the
E.	Emission Data Used in Modeling	is no emission limiting standard
	Attach list of emission sources. Emission data required is source name, des UTM coordinates, stack data, allowable emissions, and normal operating time	હ.
F.	Attach all other information supportive to the PSD review. The CRSTER proposed prop	R Model output shows the impact of the
*Spe G. ^{tl}	ecify bubbler (B) or continuous (C). than 12 percent of the allowing the impact of the proposed sources near the proposed sources near the proposed sources near the proposed sources near the proposed sources in social and economic impact of the selected fermology versus duction, taxes, energy, etc.). Include assessment of the environmental impact	Dwable PSD increments. Since there ar coposed site (i.e. good air quality) a ได้กลิ่มเป็นสิติโลโลโลโลโลโลโลโลโลโลโลโลโลโลโลโลโลโลโ
The soc	technology phoposed for this facility is Best Avail ial and economic impact on the applicant.	•

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

48878-02

PARTICULATE EMISSION RATE STUDY
ON AN ASPHALT DRUM MIX PLANT

Prepared For:

ASTEC INDUSTRIES, INC. POST OFFICE BOX 2787 CHATTANOOGA, TENNESSEE 37407

Prepared By;

HARMON ENGINEERING & TESTING AUBURN INDUSTRIAL PARK AUBURN, ALABAMA 36830

AUGUST 8, 1978

INTRODUCTION

This document reports the results of particulate emission rate tests performed for the Florida Asphalt Paving Company of Panama City, Florida, at the drum mix asphalt plant near Blountstown, Florida. The source tested was an Astec Baghouse system which controls emissions from the aggregate dryer.

The purpose of these tests, conducted on July 28 and August 1, 1978, was to determine the particulate emission rate to the atmosphere. The emission rate tests were performed in accordance with State and EPA testing procedures. Basically, EPA test Method No. 5 as described in the <u>Federal Register</u> (Vol. 42, Thursday, August 18, 1977) was used.

Field testing described herein was coordinated by Mr. Lynn Nance of Astec Industries, Inc., with Mr. Wayne Daughtry of Harmon Engineering & Testing. Mr. Steve Fendley assisted Mr. Daughtry with the testing.

The Florida Department of Environment Regulation was not present during testing procedures.

PROCESS DESCRIPTION AND OPERATION

Figure 1 is a schematic diagram of the Astec asphalt drum mix process and baghouse tested.

The maximum production rate of the plant is approximately 300 tons per hour. During the emission tests, the plant produced an average of 150 tons per hour.

No. 2 fuel oil was used for drying the aggregate, which consists of sand and asphalt with 7 percent fines. The plant was producing an S.A.H.M. surface mix at the time of testing.

TABLE I
PARTICULATE EMISSION TEST RESULTS

PARAMETE R	TEST NUMBER 1	TEST NUMBER 2	TEST NUMBER 3	AVERAGE
Date	7-28-78	8-1-78	8-1-78	
Time Began	9:50	7:45	12:30	
Time End	11:40	9:14	4:46	
Net Time of Test, Minutes	72	. 72	72	72
Volume of Gas Sampled @ STP, Cubic Feet	66.485	62.304	61.417	63.402
Stack Gas Temperature, °F	316.3	296.9	314.2	309.1
Stack Gas Moisture Content, % (Volume)	17.3	23.6	23.5	,21.5
Stack Gas Velocity, Feet per Second	83.1	79.6	76.3	79.7
Stack Gas Flow Rate @ Stack Conditions, Cubic Feet per Minute	55973.2	53629.4	51377.3	53650.0
Stack Gas Flow Rate: @ STP, Cubic Feet per Minute	31693.2	28802.1	27023.0	29172.8
Isokinetic Sampling Rate, %	97.9	103.3	105.0	102.1
Particulate Concentration @ STP, Grains per Cubic Foot	0.019	0.016	0.013	0.016
Particulate Emission Rate, Pounds per Hour	3.531	3.90	3.10	3.51
Particulate Emission Rate, Pounds/10 ⁶				
Coal Rinning Raite: X 106 BTU/Hour				
Allowable Particulate Emission Rate, Grains per Cubic Foot	0.040	0.040	0.040	0.040

STP (STANDARD CONDITION): Dry 68°F, 29.92" Hg

COMPLIANCE PARTICULATE EMISSION TESTING

ON

ASPHALT CONCRETE PLANT

ΑT

HOLLAND CONSTRUCTION COMPANY

DUBLIN, GEORGIA

Test Dates: August 29-30, 1978

Job Number: 1197

Submitted By:

Air Quality Testing & Design, Inc. 2691 McCollum Parkway

Kennesaw, Georgia 30144

Join J. Hallican, P.E. Engineering Consultant

Jimly P. Boen Testing Supervisor

I. INTRODUCTION

Compliance particulate emission testing was performed at Holland Construction Company's asphalt plant, Dublin, Georgia during August 29-30, 1978. The purpose of the tests was to determine if the particulate concentration discharge meets Environmental Protection Agency's regulation for asphalt plants.

The tests were performed by Jinmy P. Boen and James S. Dickey of Air Quality Testing & Design, Inc.

Air Quality Testing & Design would like to extend its appreciation to Mr. J. Lynn Nance of the Astec Industries, Inc., Mr. John Underwood of the Holland Construction Company, and plant personnel for their cooperation and assistance during the testing program. AQT&D would also like to give its apprecation to Mr. Bob Clark and Mr. Jimmy Kirkland with the Georgia Department of Natural Resources for their review of the testing procedures and plant operations.

II. SUMMARY OF RESULTS

The summary of results are shown in tabular form in Table I in the Appendix.

The particulate concentration, and allowable concentration for each test is shown below.

	t Number	Particulate Concentration (gr/dscf)	Allowable Concentration (gr/dscf)
	1	0.0357	0.0400
:	2	0.0212	0.0400
	.3	0.0226	0.0400
	4	0.0215	0.0400

The above allowable concentrations are based on standards described in the Federal Register, <u>Standards of Ferformance for New Stationary Sources</u>, dated December 23, 1971, Subpart I - Standards of Performance for Asphalt Concrete Plants.

III. PROCESS DESCRIPTION

A process flow diagram is shown after the written portion of this report.

The sized aggregate is proportioned into the desired mix by aggregate feed hoppers. A belt conveyor transfers the aggregate mix into a one deck screen to eliminate oversized aggregate. The aggregate mix is transfered from the screen to the concurrent flow rotary drum-mixer by another belt conveyor. The mixing of the asphalt oil and the drying of the aggregate takes place in the rotary drum. The product is then trasferred by a drag chain conveyor to a insulated storage bin for truck loading.

Process gases exhausted from the rotary drum-mixer, passes through a reverse air baghouse. The cleaned gases are extracted from the baghouse by an induced draft fan and discharged through a vertical stack. During the test program the rotary drum mixer was operated at an average of 224 tons per hour.

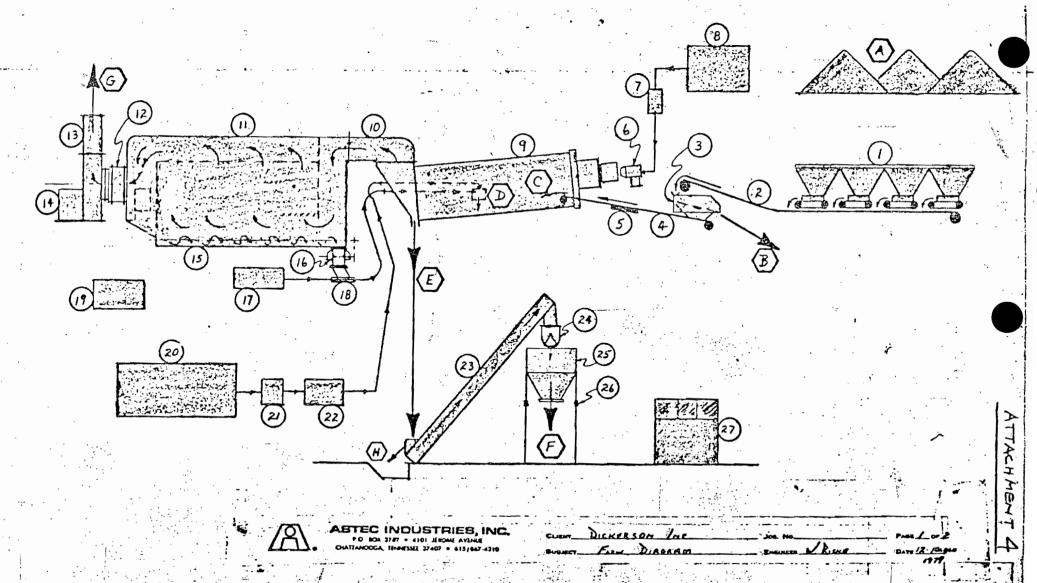
IV. SAMPLING AND ANALYTICAL PROCEDURES

The sampling train used for the execution of this testing was manufactured by GII Enterprises, Inc. of Elkland, Pennsylvania. The sampling train meets all specifications, as outlined by the Environmental Protection Agency. Enclosed is descriptive information of the equipment.

SUMMARY OF TEST RESULTS:

Test Number

	_1	_ 2	3	
Sampling Time (min)	60	60	60	60
Volume Sampled (dscf)	22.33	43.36	41.43	36.76
Volume Sampled (ACF)	49.05	95.03	93.38	82.77
Moisture (% by volume)	33.8	33.9	36.1	35.7
Volume Flow Rate (dscf/min)	14,456	15,884	14,458	14,719
Volume Flow Rate (ACF/min)	31,754	34,814	32,590	33,142
Total Sample Weight (mg)	51.7	59.7	60.6	51.3
Particulate Concentration (gr/dscf)	0.0357	0.0212	0.0226	0.0215
Particulate Concentration (gr/ACF)	0.0163	0.0097	0.0100	0.0096
Particulate Emission Rate (#/hr)	4.4	2.9	2.8	2.7
Allowable Particulate Emission Federal Standard, Subpart I(gr/dscf)	0.0400	0.0400	0.0400	0.0400
Process Input Weight Rate (TPH)	236	221	227	212
lsokinetic Value (I)	102.1	101.4	106.5	92.8



a four load biant that comes compiciely assembled with these outstanding features

drum miser E bachouse

The Drum Mixer-Baonouse combination is a completely portable unit that comes assembled with triple axis running pear Preparation for stanup consists of leveling on timber tootings power cable connections and hookup of asphalt and oust piping. This unit is equipped with the following features

Scalpine Screen-A 31-011 > 6 -0 high capacity rod deck scatter mounted over the singer feeder re-



moves all oversized material through a discharge chute over the

Slinger Feeder-A 20" wide slinger feeder equipped with a nigh temperature belt is used to charge the grum.



The aggregate weigh bridge with toad cell is mounted in the slinger feeder. A bett speed sensor is amounted on



Burner-A 52 000 000 BTU'by low temperature control and flame safeguards. A 25 HP high efficiency blower and a lightweight ceramic combustion chamber reduces the

Drum-The Drum is 6'-0" in diameter > 27"-0" fonc and is constructed of the" Tri-ten 60 steel plate Bolt on



seals on each endland a flog gate on the discharge chute. These unique design features lead to high mechanical reliability, high efficiency and result in very low maintenance. The Drum is driven by a 50-HP cradle chain drive. A unique spoke type tire mounting allows for thermal expansion of drum to prevent distortion. Trunnions are hardened to RC 50.

comes complete with 630-14 ounce woven Nomex bacs with a 5175:1



air-te-cloth ratio. Top bag removal provides for ease of replacement. Bag cleaning is accomplished by a

by a 30 HP screw compressor. The pressure oil burner has automatic bachouse is 100% seal weided to prevent outside air leaks. A 75 HP exhaust fan and automatically controlled multi-louvered opposed-brade



air damper controls the gas volume When an over temperature condition rexists, a by-pass camper system alflights form a specially engineered, lows by-passing the bag chamber design to create a proper material yell as completers. Fines are collected by a fowering stack temperatures and recommended conveyor exiting the hopper ducing flugt consumption. The drumn inthrough a rotary air lock and returned is totally sealed with mechanical dust. The the grum by a 12 TPH dust blower system. The dust is mixed with the liquic aspnalt as it re-enters the orum, preventing it from becoming re-entrained into the air stream (U.S. Patent No. 4,103,305).

surge bin **&**

The Surpe Bin and Control House is Baghouse -- A 28,000 CFM Baghouse - , self-erecting and comes with a trible axle assembly. In traveling position the drag chain and bin are lowered on the portable frame. Preparation for start-up consists of backing the unit into position, hookup of power cable connections and raising the bin and Grap Conveyor simultaneously into the operating position by a 3 HP



motor drives winch. The base of the trailer trame is plated piving a spread_doption - thereby ...eliminating the need for foundations.

Batcher-A 50 cu ft batcher with twin discharge gates is attached to the discharge end of the drad con-



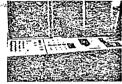
Drag Flight Conveyor-The 256-1944 wide drag fright conveyor" is self-supporting and is totally enclosed with hinged top covers for ease of service and respection. Convevor pont in and sides are lined with 3x" sectionalized N-Hard bott-in west plates. A seamented 28% chrome-iron head sprocket is designed for long life and ease of replacement



Surge Bin & Weigh System-The bin has a capacity of 50 tons (100 lb per ft³ material). The hopper is equipped with dual discharge dates 15" wipe and 4"-E" long for quick truck-loading. The entire bith is supported by four-load cells which weigh the entire bin and soments. A micro processor attached to the load cells automatically dispenses mix into the truck. The operator punches into the number, tons desired and hits a start if footings, power and control cable button. The unit closes the batcher. opens sito discharge, gates, dis- lecting belt conveyor from its accortruck and automatically closes the



Control House-The 10'-0 x 10'-O" contro! room offers a 350" commanding view of all operations from a seated position at the control panels The air conditioned and heater controt house contains the automatic burner control, stop-start station, cold feed controls, bachquist .controts and miero processor. The micro-



processor weighs appregates, plenos aggregate with proper amount at as- Collecting Conveyor-The 30" colphalt, compensates for moisture and miscons conveyor is driven by a 10 HP loads trucks. The control house is completely prewired. Power and control hookups between modules are the only preparation before start-up.

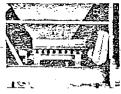


cold leed

The Cold Feed unit is mounted on a tandem axle. The only preparation for keyboard the account number, truck-seart-up is leveling the unit on timber connections and extending the colpenses requested amount into the dion folded traveling position to the operating position over the scalping screen. The targe 9'-0" x 11'-0

Bulkhead-The built in bulkhead allows you to immediately build your loading rame as soon as the unit is in place on the timber foundation.

Feeder Bells—Fach bin is equipped fuel bit air and bot oil book and with a 24 Teaper belt assembly-with Liss necessary before start-up accustable date and a 3 HP SCR prive unit which allows material flow Tank-The 18 000 paper aspi



solustments from 0 to 165 TPH, A contin system allows total and procomprai control of the material. Each belt feeder is equipped with a no-tion switch and alarm and also a bett speed sensor and indicator.



motor and tas deep 35° troughing lines is supplied by a scavencer liders. A nand-operated winch quickly oil system consisting extends the discrearce section from wind coils submerce its recommon folded position to the tank above the fire t operating position.

A completely possible comput fuel oil hourd asphalt storage and direct fired heater make up t module. Leveling on timber 1203 tions, plug-in of cable confection and honium of prescent at 14th

> storane tank or constant 12,000 gation tue c ble wall insulated buildself is also 100% nizes woniuncedation & tures include taxat in turators (sent temografilm (enetrors in several ghalf piping, assital putto and t INC. NO. INCRESED VE VAS is arranced so the Hould aschalt



never be lowered below the " and a safety time switch prevents burner from operating when valves are positioned to empty

Burner-A 1,500 000 810 tomatic oil burner cirect fires int-20" diameter two pass fire tube

Hot Dit System--- Hot oil for Jacks lation pump and exp



FINAL	PAGE	NUMBER	



STEC INDUSTRIES, INC.

P.O. BOX 2787 • 4101 JEROME AVENUE CHATTANOOGA, TENNESSEE 37407 • 615/867-4210

Jos. No			PAGE SOF S
CLIENT	ICKERSON	Inc.	- 1
SUBJECT	FLOW	DIAGRAN	И
ENGINEER	W. K.	5165	DATE 12 MAACH - 79
			.*

EQUIPMENT IDENTIFICATION

FOUR (4) COLD FEED BINS WITH BELT FLEDERS	
AGGREGATE GATHERING CONVEYOR	
SCALPING SCREEN - 2 DECK	
SLINGER CONVEYOR	
ABGREBATE WEIGH BRIDGE	A STATE OF THE STA
AUTOMATIC OIL BURNER	
FUEL OIL PUMP	
FUEL OIL STORAGE TANK	
6 Fr x 27 T DRUM MIXER.	
AIR DUCT - DRUM MIRER TO BAGHOUSE	And the second s
BAG HOUSE	
MODULATING AIR DAMPER.	· · · · · · · · · · · · · · · · · · ·
EXHAUST STACK	
EXHAUST FAM.	landa and a second a
BAGHOUSE HOPPER WIFH GATHERING SCREW.	
ROTARY FREDER - AIR LOCK	iā Perenda ar en
DUET BLOWER PACKAGE	e de la companya del companya de la companya de la companya del companya de la co
COLLECTED DUST & CONVEYING AIR RECUIVER.	
AIR COMPRESSOR	
ASPHALF HEATER - STORAGE TANK.	
ASPHALT SUPPLY PUMP	
ASPHALT METERING SYSTEM JI	
DRAG CHAIN CONVEYOR DISCHARGE & PRODU	ICT TRANSFER POINTS
DRAG DISCHARGE BATCHER	
	STOCK PLES
LOAD CELL- WEIGHOUT SYSTEM BY OVERSIZE	RESECT
CONTROL HOUSE C DRUM MIXE	en - AGGREGATE INLET

AGGREGATE STOCK PLES

OVERSIZE REJECT

DRUM MIXER - AGGREGATE INLET

DRUM MIXER - FINES & ASPHALT DISCHARGE

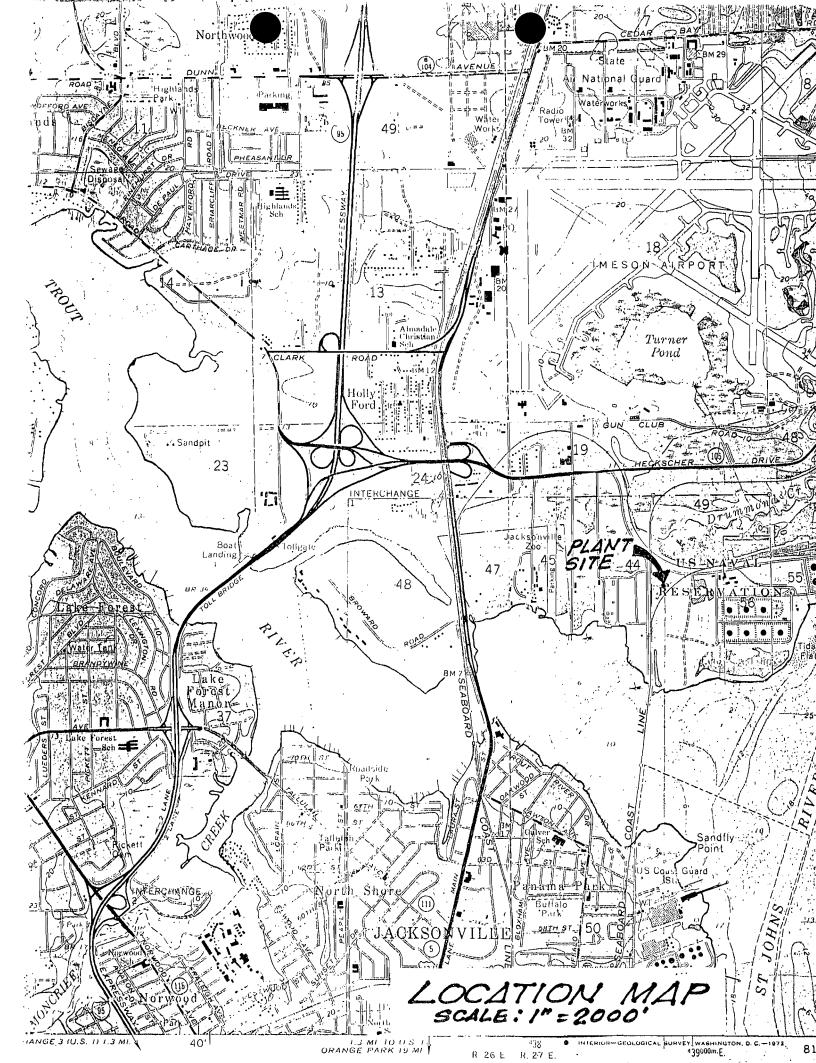
DRUM MIXER - HOT MIX DISCHARGE

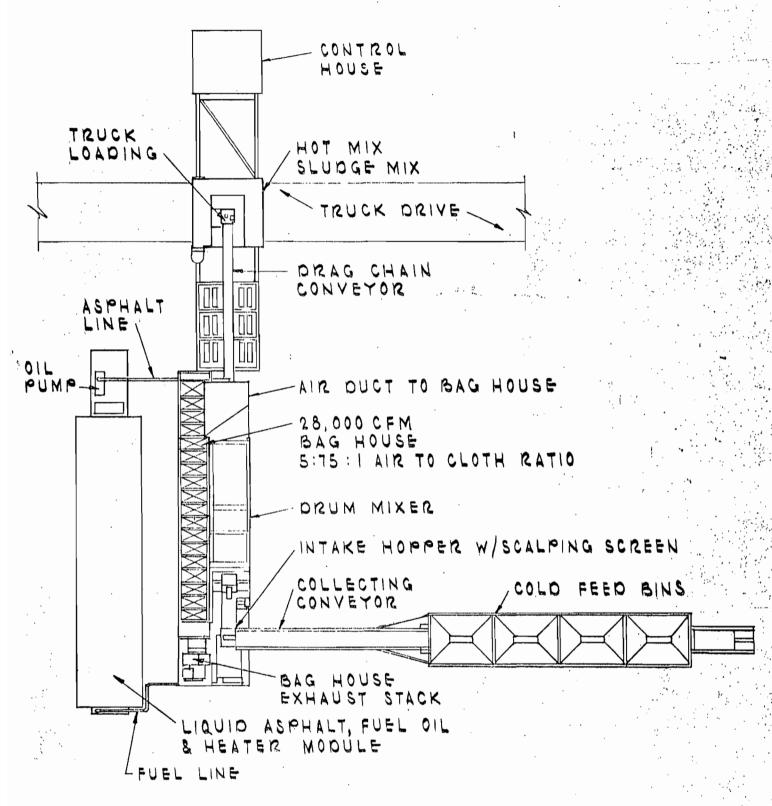
TRUCK LOADING

EXHAUET GAS DISCHARGE.

H. DRAG CONVEYOR BY-PASS

. .





SCALE: 1/6 = 1'-0"

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ALL TABLES. "INCLUDING SOURCE CONTRIBUTION. THAT CONTAIN "ANNUAL" IN THE HEADING ARE BASED ONLY ON THOSE BAYS

ATTACHHENT. 7 .

Best Available Copy

RING DISTANCES(KM)= 0.25 0.50 0.75 1.00 42.0

1.5400 Sb

STACK # 1--STACK 1

STACK # 1--STACK I

STACK #ONTH SMISSION RATE HEIGHT DIAMETER EXIT VELOCITY TEMP VOLUMETRIC FLOW
(GMS/SEC) (METERS) (METERS) (M/SEC) (DEG.K) (M**3/SEC)

1 ALL C.6200 PARTHATTER 4.73 D.79 26.70 450.00 13.09

```
AIR QUALITY UNITS: 6H/M##3
PLANT NAME: DICKERSON ASPHALT
                                               POLLUTANT: PART
                                                                         EMISSION UNITS: GM/SEC
      MAXIMUM MEAN CONCE 2.55295-07 DIRECTION= 4 DISTANCE= 0.5 KM
                              = 0.26 mg/m3
                     ANNUAL MEAN CONCENTRATION AT EACH RECEPTOR

O .5 KM O .6 KM 1.6
                               1.384135-07
1.63965E-07
                                                 1.489375-07
                                                                    1.299945-07
             5.61062E-08
                                                 1.700885-07
                                                                    1.569285-37
             8.34527E-08
                               2.09503E-07
2.55284E-07
                                                  2_15496E-07
                                                                    2.037055-07
                                                                                      6.854C2E-09
             1.169675-07
                                                  2.445995-07
                                                                    2.233365-07
                                                                                      7.356695-09
                               2.08607E-07
1.93682E-07
                                                                                      4.57196E-09
             1.043505-07
                                                  1.95869E-07
                                                                    1.76010E-37
1.61271E-07
                                                 1.51381E-07
1.56475E-07
             9. 52338E- 0.B
             8.974305-08
                                                                                      2.14964E-05
             6.97156F-08
                                1.274505-07
                                                  1.193995-07
                                                                    9.807535-08
             5.91561F-CB
                                1.258805-07
                                                 1.125435-07
             6.015285-08
                                1.25881E-07
                                                  1.098935-07
                                                                    9-110395-08
             7.258435-98
                                                  1.318215-07
            7.54600E-08
6.27160F-08
5.28033E-08
5.30055F-08
                                                  1.461425-07
                                1.633526+57
                               1.40152E-07
1.24848E-07
                                                 1.294195-07
1.14341E-07
                                                                    1.142195-07
                                                                                      3.51177E-09
                                                                    9.771505-08
                                                 1.01311F-07
1.31080E-07
                                                                    8. 96 748 1-08
                                1-11514E-07
                                                                                      2.413375-09
                                                                    1-149675-37
             7.373345-08
                                1.745245-07
                                                  1.71089F-07
                                                                    1.509525-07
             6a.36276F-08
                                                  1.562755-07
          5.917425-08
                                1.401805-07
                                                  1.346845-07
                                                                    1.195695-07
                                                 1.63813E-07
1.74645E-07
1.85707E-07
2.21387E-07
            5.561985-08
                               1.570055-07
                                                                    1.510425-07
                               1.537315-07
                                                                    1.651785-07
                                                                                      3.501975-09
                               1.77850E-07
2.11502E-07
1.56680E-07
            6.650 12E-05
                                                                    1.714965-07
             7.543985-08
                                                                    2.052155-07
             7.422375-08
                                                  2.105025-07
             6.580225-08
                                1.62695E-07
                                                  1.656218-07
                                                                    1.57587E-07
                                                                                      4.16616E-09
                                1.636635-07
                                                  1.583561-07
                                                                    1.53513E-07
             6.03184E-08
                                1.023995-07
                                                  1.42606E-07
1.29195E-07
                                                                    1.318475-07
             £.292675-09
                                                                    1.190195-07
             6.218065-06
                                                  1.461485-07
                                1.462045-07
                                                                    1.350193-07
             4.38064F-08
                               9.68855E-05
7.08412E-08
                                                  9.59834E-08
7.09078E-08
                                                                    9.090495-08
             2.98956E-08
                                                                    7.156718-03
             2.476595-08
                                5.721345-08
                                                  5.820036-08
7.306295-08
                                                                    5.59954E-05
6.71052E-05
             2.675525- OF
                                7-266505-08
                                                                                      2.59181E-09
             3.642185-0R
                                9.460115-06
                                                  9.599925-08
                                                                    9-162165-08
                                                                                      5.33879E- C9
```

= 0.62 29/-3

PLANT	NAME: DI	CKERSON	'A SPHAL T	POLLUTAN	T: PART	EMISSIO	STINU NC	G₩/SEC	AIR' OUAL II	Y UNITS	5: GM/M**3
YEARLY	MEXICON S	4 -113UR -	CONC= 4.4961E	-56 DIRECT	10N= 24	DISTANCE=	0.8 KM	DAY= 311			
YEAR= 7	72		= 4.5mg/	_1							
								,			:
	,	HIGHEST :	24-HOUP CONCEN	TA NOLTARE	EACH RECE	PTGR					
DANGS	0.3	KM	0.5	KM	c	.5 KM		1.0 KM		42.0	KP
	09035-06	(212)	2.99415-06	(13)	3.1234E-	C6 (13)	2.7210	E-06 (13	3) 1.40	0095-07	(22)
2 1.	71245-06	(107)	3.9391F-06	(13)	3.7965F-	06 (13)	3.0499	F-06 (13	5. 85	5755-08	(57)
3 1.	16475-06	(2:1)	2.47245-06	(19)	2.6264E-	06 (10)	2.2247	E-06 (10	2.9	7175-37	(54)
4 %	14301-06	(107)	1.73425-06	(98)	3.1633F-	06 (105)	2.5534	E-C6 (105	1.30	6215-07	(348)
	400306		3.64075-26	(211)	2.76395-	05 (211)		E-06 (211		864E-08	(205)
	60275-06		1.27455-05		2.15385-			E-06 (177		1375-06	
7 1.	34795-06	(209)	1.69555-05	(239)	1.79535-			E-C4 (130		410E-CE	

DA	NG - 0.3	KM	0.5 KM	C.5 KM	1.0 Km	42.0 KP
-015						
1	1.09035-06	(212)	2.99415-06 (13)	3.1234E-06 (13)	2.721CE-06 (13)	1.40095-07 (22)
	1.7124= -06		3.9301F-96 (13)	3.7965F-06 (13)	3.04985-06 (13)	5.85755-08 (57)
7	1 - 1642 06		2.47245-06 (10)	2.6264E-06 (10)	2.32475-06 (10)	2.97175-07 (54)
4	7.14.50E-DU		1.73425-06 (98)	3.16335-06 (105)	2.55345-(6 (105)	1.36215-07 (348)
5	2.400306		3.64075-36 (211)	2.76395-05 (211)	2.0336 E- 06 (211)	7.26645-08 (205)
	1.60275-06		1.27455-05 (176)	2.15385-06 (177)	1.9634E-06 (177)	E.3137E-06 (86)
	1 - 34 795 - 06		1.69655-06 (209)	1.79535-06 (130)	1.6832E-C6 (130)	5.14105-06 (45)
	9.16565-67		1.43005-06 (351)	1.53925-06 (331)	1.29715-04 (331)	8.16555-08 (167)
	1.45295-04	(259)	1.70055-06 (259)	1.50315-06 (331)	1.92715-50 (331)	7.20135-65 (174)
1.0	1.08855-05	(255)	1 = 59535-00 (173)	1.3971 = 06 (173)	1.18915-0((331)	9.23275-06 (60)
3 1	1.53615-06	(137)	2.54135-35 (53)	2.28595-05 (50)	1.6774 2-05 (173)	2.14215-67 (289)
	1.54745-05		4.01345-05 (50)	4.03425-05 (50)	3.4397E-CL (50)	2.78685-67 (303)
13	1.30505-05	(50)	2.34705-05 (50)	1.83958-06 (50)	1.64735-00 (5)	1.50435-07 (316)
: 4	9. 206.1 E-07	(100)	1 • 7759= (6 (108)	1.57625-06 (35)	1.52268-06 (25)	9.89865-08 (20)
1.5	9,19935-07	(212)	1.91445-65 (313)	2.00175-06 (3131	1.63178-06 (3)3)	9.85575-08 (300)
1 €	1.59615-06	(194)	2.1261=-06 (194)	1,93055-06 (65)	1.55975-06 (65)	1.08825-07 (194)
17	1.69275-05	(1C A)	3.45047-05 (351)	4.02151-06 (351)	3.47235-06 (351)	6.42155-35 (65)
1 P.	2.17675-06	(193)	3.0252F-05 (193)	3.17155-06 (15)	2.95175-06 (15)	1.63695~07 (253)
1 3	1.6134=-06	(192)	2,1098F-(6 (193)	2.47975-06 (25)	2.27475-05 (25)	7.35875-08 (333)
20	1 - 10 745 - 06	(145)	2.28195-05 (189)	2.03195-05 (189)	1.56528-06 (189)	8.20195-08 (279)
21	90 0647= -07	(147)	2.98785-05 (147)	3.6754 =- 06 (147)	2.7575=- 25 (1-7)	1.74858-07 (363)
2.2	1.3301F-06	(230)	2.53755-06 (192)	2.13535-96 (294)	2.03458-6 (275)	(8.12525-JE (244)
~ 7	1.39955-05	(172)	2.08035-25 (172)	2.70155-96 (41)	2.48558-06 (41)	1.05515-07 (329)
24	1. 5526=-06	(203)	3.75105-04 (3111	4.49515-06 (311)	4.14631-36 (311)	E, €711E-08 (167)
2.5	1.40705-04	(203)	2.7252=- Go (132)	2.82635-06 (132)	2.55655-06 (112)	1,05375-07 (252)
26	1.37435-06	(255)	?• 2937F-05 (163)	2.70035-05 (163)	2.36515-Cf (103)	2·137;E-07 (345)
27	1.16275-06	(168)	2.3007F-05 (170)	2.4(535-06 (170)	2.26575-06 (169)	1.46915-07 (296)
3 6	1.15935-06	(164)	2.78765-06 (164)	2.31745-06 (164)	1.76485-06 (164)	5.47c1E-08 (257)
. 29	1 . 4! 81 - 06	(202)	1.73365-05 (127)	2.07025-06 (133)	1.93888-06 (173)	1.11515-37 (155)
3.0	1.48955-06	(119)	1.94295-06 (1191	1.57198-06 (268)	1.31466-04 (134)	1.70595-07 (161)
3 1	1.63905-06	(119)	2.23455-06 (128)	2.10305-06 (126)	1.677(E-C6 (125)	1.79855-27 (166)
	9.4407:-27	(166)	1.65305-06 (171)	1.2445=-06 (171)	1.02245-04 (311)	1.32585~07 (272)
7.7	9.0151=-07		1.6342=-00 (171)	1.20915-06 (171)	8.53P4E-07 (1711	1.65475-67 (21)
	1.31995-06		2.19685-06 (171)	1.5893E-06 (171)	1.1354E- Of (324)	1.60455-07 (354)
	7.1671F-C7		1.52355-05 (347)	1.75845-06 (347)	1.47(75-96 (347)	1.6755E-07 (E7)
36	1 - 17785-06	(214)	2.39345-06 (61)	2.23652-06 (61)	1.75385-06 (61)	1.74725-57 (102)

$$hax 24-HR 502 1HPACT = \frac{154}{0.63} \times 4.5$$

PLANT NAME: DICKERSON ASPHALT POLLUTANT: PART EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/N++3
YEARLY SECOND MAXIMUM 29-MOUR CONC.= 3-5262E-06 DIRECTION= 4 DISTANCE= 0-5 KM DAY=172
YEAR= 72

		and the second s						
	SECON	HIGHEST 24-HOUR	CONCE	NTRATION AT EACH	RECEPTOR	}		
PAN	5" 0.3 K4	າ. 5	K 4	8.0	K M	1 -0	KM	42.0 KM
210								
1	1. CE37 - O6 (214			1.87365-06		1.85205-05		1.00575-07 (214)
	1.04575-06 (13			3. 32545-06		2.91636-06		4.55645-08 (26)
	1.12775-06 (107			2.08335-06		1.94215-36		1.37378-07 (292)
	1.83645-06 (172					-2.3101E-06		1.32135-07 (349)
	1.50775-06 (176			2.29545-06		. 1.9404F-06		6.47225~08 (206)
	1.46585-96 (104			1.76745-06		1.69545-06		7.91555-08 (293)
	1.21295-06 (111			1.57165-06		1.5493E-36		4.3=375-08 (187)
	P.5327F-07 (210			1 - 14955-05		1.09068-06		7.40335-08 (260)
	9.77055-07 (182)			1.52265-06		1.5488E-C6		5.25715-09 (165)
	1.06577-05 (137			1 • 1 4 29 5 - 36		1-13015-06		B.9669E-08 (231)
	1.35145-06 (50			2.06325-06		1.67495-06		E. 4699E-08 (327)
	1.13275-06 (217			1.9377 =- 05		1.56768-05		1.93065-07 (304)
	1.08725-05 (108)			1.74565-06		1.4679E-Cb		9.55365-05 (327)
	7.511207 (243			1.51365-06		1.40775-06		9.09292-03 (7)
	8.76265-07 (184			1.27275-06		1 • 1 051 E- 0f		6.951JE-08 (51)
	1.01285-06 (142			1.65685+06		1.50198-06		8.5,8395-08 (309)
	1.22095-06 (193			2.15765-06		1.91.61.5-06		4.49375-08 (23)
	1.21155-06 (145			2.27295-06		1.27905-06		1.3293E+07 (254)
	1.07475-06 (140)			1.39181-06		2• C136E-05		5.9019E-08 (139)
	1.04635-06 (147			1.63935-06		1.37125-06		6. ECTIE-DE (353)
	P. 25135-07 (199			1.89545-06		1.70515-06		7.9652E-Jd (243)
	9.55547-07 (155			1.87555-05		1.9042E-06		6.71365-08 (251)
	1.00335-06 (155			2.11827-36		1.93255-06		9.2484E-09 (339)
	1.4617E-06 (132			2.66765-06		2.24905-06		7.80935-08 (121)
	1.3777 - 26 (191.			2.44555-06		2.45325-06		9.9623E-0E (17)
	1,7 925-36 (16R			2.23095-05		1 • 9593E-06		1.32975~07 (265)
	9.32425-07 (156			2.15245-06		1.99635-06		1.20565-07 (226)
	9.66195-07 (202)			1.94535-06		1.74585+06		8.51!CE-08 (347)
	9.72245-07 (123			1.73455-06		1.A585E-06		9.97755-08 (355)
	1-15155-06 (168			1.55922-06		1.30coF-06		1.14435-07 (2721
	1.00495-36 (165)			1.24275-06		9-13315-07		1.125CE-07 (21)
	P.6033F-07 (171			1-10175-05		e, 6765E-07		1.23375-07 (61)
	6. S127E-07 (166			7.91755-07		7.14175-07		1.10755-07 (20)
	6.17555-07 (110			1.44205-06		1.11465-06		9.86092-08 (113)
	5.83935-07 (101			:.4599E-Cò		1.1187E-06		
36	1.00215-05 (195	1 - 3 - 21 E - 0 6	(172)	1.76445-06	(318)	1.59495-06	(213)	1.15515-07 (231)

EMISSION UNITS: GM/SEC

AIR QUALITY UNITS: GM/M*= 2

6.18625-36 (265. 6) 5.57115-36 (155. 6) 4.65036-36 (20. 4) 3.65336-36 (4. 2)

5.59685-06 (324 4)

4.7369E-36 (347. 4)

9.92626-07 (160. 2) 7.36165-07 (61. 2)

6.5227E-07 (21. 1) 7.8862E-07 (113. 2)

1.2850F-05 (87. 2)

7.93095-37 (102. 1)

POLLUTANT : PART

3-HOUF CONC= 1.5128E-05 DIRECTION=

```
3-HOUR CONCENTRATION AT EACH RECEPTOR
  PANGE
                                                                                                                                                                                   7.85205-06 ( 10.4)
E.88835-06 ( 4.6)
E.67475-06 ( 10.7)
        4.9043E-06 (212. 4)
6.8642E-06 (107. 6)
0.109E-06 (211. 5)
                                                                  9.6900F-06 (214. 6)
1.0792E-05 (13. 4)
1.1160F-05 (67. 57
                                                                                                                           7.7737E-06 ( 15. 4)
1.0532E-05 ( 13. 4)
8.2913E-06 ( 87. 5)
1.0580E-05 ( 30. 6)
                                                                                                                                                                                                                                            3.5234E-37 ( 25. 6)
E.8192E-07 ( 54. 2)
         1.51238-05 (107. 4)
                                                                    1.36175-05 (172. 3)
                                                                                                                                                                                    5.5352E-05 ( 30, 6)
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                                                                   1.3617E-05 (172. 3)
1.2219E-05 (211. 6)
9.2746E-06 (221. 5)
8.5810E-05 (242. 4)
9.3319E-06 (731. 5)
6.3093E-06 (34. 5)
7.3675E-06 (50. 3)
 5 1.11285-05 (211. 4)
6 8.094:5-06 (221. 5)
7 7.34915-06 (104. 5)
8 6.21745-06 (210. 5)
                                                                                                                           1.0530E-C5 (211. 6)
7.1792E-06 ( 74. 5)
                                                                                                                                                                                    7.97228-06 (211, 6)
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                                                                                                                                                                                   6.9789E-06 (103, 1)
5.2562E-06 (105, 4)
6.2592E-06 (331, 5)
                                                                                                                                                                                                                                            6.5129E-07 ( EF. 7)
                                                                                                                           7-02965-06 (242-4)
1-00535-05 (331-5)
7-23655-06 (93-6)
                                                                                                                                                                                                                                            4.0275E+07.( 45. 3)
5.3232E-07 (260. 2)
         7.77455-05 (259. 4)
                                                                                                                                                                                   f.1338E-06 (361. 5)
5.0872E-06 ( 50, 3)
                                                                                                                                                                                                                                            4.7503F-07 (174.
7.3743F-07 ( 60.
        6.41727-06 (137. 5)
                                                                                                                            6.60932+06 ( 50. 3)
                                                                                                                            9.82695-96 ( 83. 6)
                                                                                                                                                                                    7.5957E-C6 ( 83. 6)
                                                                   1.1396F-05 ( 51. 1)

9.7322F-06 ( 50. 4)

7.5670F-06 ( 51. 5)

7.4630E-06 ( 55. 7)

6.1307F-06 ( 65. 6)
12 7.43835-06 (137, 4)
13 6.36905-06 (50, 4)
14 4.53745-06 (51, 5)
                                                                                                                                                                                                                                            1.34225-26 (303. 6)
9.67545-27 (316. 7)
6.05365-27 (20. 7)
                                                                                                                           1.06675-05 ( 50, 1)
                                                                                                                                                                                   5.3767E-06 ( 50. 1)
                                                                                                                          7.0855E-06 ( 50. 4)
6.7357E-06 ( 5. 4)
7.9236E-06 ( 55. 7)
7.6977E-06 ( 55. 5)
                                                                                                                                                                                   5.35455-06 ( 35. 1)
5.83655-06 ( 5. 4)
6.46575-06 ( 85. 7)
6.7085-06 ( 65. 6)
         5.23425-06 (327. 4)
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6.04665-(7 (354.
         7. 24845-26 (194. 5)
                                                                                                                                                                                   7.1778=-35 (351, 2)
7.6354=-36 (16, 3)
6.5546=-36 (91, 5)
        7.23115-06 (194. 5)
6.89375-06 (193. 5)
                                                                   8.99167-06 (261. 4)
9.19055-06 (193. 4)
                                                                                                                            F. 4595E-06 ( 16. 1)
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                                                                                                                            8.7975E-06 ( 16. 3)
                                                                                                                                                                                                                                            1.3110E-3/ (253, E)
10 6.7(795-06-(125-4)
20 6.2645-06-(125-4)
21 4.40927-06-(147-6)
6.5227-26-(127-5)
                                                                   8.3099-26 ( 15. 4)
1.05075-05 (159. 6)
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7.6230F-06 (199. 6)
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                                                                   1.0468E-05 (147. 6)

8.4169E-15 (285. 2)

9.7992E-06 (192. 4)

9.4850E-06 (132. 4)
                                                                                                                           6.9175E-06 (147. 6)
9.0195E-06 (285. 3)
                                                                                                                                                                                    7.07215405 (342, 3)
7.68258406 (285, 3)
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4.0593E-07 (251.
        7.63735-06 (757. 0)
7.63735-06 (192. 4)
9.76035-06 (132. 4)
9.14935-06 (168. 5)
                                                                                                                           5.0195a-06 (147. 2)

2.9235-06 (147. 2)

2.62748-06 (35. ()

1.14028-05 (171. 2)

6.76708-05 (1,63. 3)

1.11518-05 (171. 5)

5.85328-06 (165. 4)

5.36338-06 (147. 6)
                                                                                                                                                                                   6.22348-35 (147. 3)
7.59168-06 (35. 6)
9.65478-36 (17), 2)
6.21655-36 (163. 3)
8.77438-36 (171. 3)
                                                                                                                                                                                                                                            4.37536-07 (201.
                                                                                                                                                                                                                                            7.05275-07 (167.-2)
8.32855-07 (252. 7)
1.47965-06 (345. 1)
1.06505-06 (290. 3)
                                                                   1.1927E-05 (171, 2)
8.3350F-06 (201, 4)
         9. CF14F-05 (155.
                                                                    6.7390E-06 (202. 4)
6.1256E-06 (125. 4)
7.9160E-06 (119. 4)
                                                                                                                                                                                    5.5566E-06 ( 8. 5)
7.0516E-06 (167. 6)
         5.47745-06 (202, 4)
                                                                                                                                                                                                                                            8.9059E-17 (155. 2)
1.1669E-06 (161. 2)
        9.05765-06 (202, 4)
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6.8093E+06 (2A8, 6) 7.7152E+06 (155, 6)

6.1933E-06 (171. f) 4.2172E-06 (297. 4)

7.63095-06 (171, 8) 7.89625-06 (347, 4)

1.02285-05 (172. 1)

3- HR 502 IMPACT = 154 > 15.1

1.05715-05 (125, 5)

8.11125-06 (171, 6) 6.03905-06 (166, 4) 1.02705-05 (171, 8)

1.07525-05 (347, 4)

1.19545-05 (172. 1)

PLANT NAME: DICKERSON ASPHALT

9.5049--06 (119, 4)

5.64375-06 (119. 4)

6. FF2 FF - 06 (166. 4)

5.4:37=-06 (165, 4)

5.53915-06 (171, 8)

5.11045-06 (347. 4) 6.43675-26 (213. 4)

YCAP= 72

EMISSION WHITS: GMISEC

AIR SUALITY UNITS: GM/4** 3

SECOND PLOPEST 3-HOUR CONCENTRATION AT EACH RECEPTOR 6.77305-36 (214. () 5.17248-05 (13. 2) 7. 79905-05 (89. 5) 7.0974 =- 05 (214. 5) 6.03525-07 (22. 8) 1.0570=-05 (13. 5) 1.02695-05 (4. 5) 7.57015-06 (76. 5) 4.45375-25 (107. 6) 9.3945E-26 (13. 4) 5.1873E-06 (5. 2) 3.45598-07 (57. 1) 7. C9125-06 (87. 5) 5. 36675-05 (75. 6) 7.57935~07 (209, 1) 7.93935-36 (172. 3) 1. 7935-05 (95, 2) 1.00545-05 (172, 3) 6.1999 5-30 (7.73665-07 (53. 3) 8.15718-06 (221. 5) 6.5458--06 (104. 5) 1.1707E-05 (211. 4) 7.3960E-05 (175. 4) 7.3964E-06 (211, 41 5.7805E-06 (179, 2) 5.47765-00 (136. 11 4.53716-07 (25. 1) 5.75965-06 (10. 8) 6.1672E-07 (293. 1) 7.3503E-06 (209. 4) 7.3923F-76 (135. 6) £.4740F-06 (210. 5) 6.5553E-06 (105.4) 5.20756-36 (242, 4) 2.03455-07 (261. 1) 0.5553E-90 (105.4) 6.7927E-36 (185.4) 7.2104E-96 (44.5) 5.5114E-96 (473.7) 7.6454E-26 (50.4) 9.8707E-96 (50.7) 6. 19425-06 (93. 5) 5.1498E-06 (185. f) 3.03362-07 (232, 1) 1.66205-36 (223, 5) 8.78225-35 (232. 5) 4.64845-06 (250. 5) 4.0563E-07 (185. 1) 5.5438E-07 (231. E) 5.71215-36 (\$3. 6) 4.65057-06 (162. 1) 5.23645-06 (213. 5) 6.03365-16 (216. 4) 5.74995-06 (50. () 3. 1175=-06 (53. 61 7.25CZE - C7 (289. 2) 9. 49785- 35 (21/ . 4) 7.3732E-00 (E). 2) £.3495E-07 (303. A.77125-26 (52. 5) 5.54825-06 (104. 4) 5.15445-46 (357. 71 f. 9642E -07 (143. 2) 4. 33 545 - 06 (109, 4) 4.37635-26 (204, 4) 6.42315-06 (253. 6) 5.3439E-06 (280. 6) 5.5058E-07 (316. E) a. 21047 - 00 (178, 4) a.a.857-00 (193, 4) 5.5677-00 (290, 5) 6.2748-06 (281, 4) 6.3776-06 (145, 4) 5.6988-06 (145, 5) 5.5456E-07 (51.7) 5.5417E-07 (194. 6) 3.0252E-07 (194. 2) 1.3635E-36 (254. 1) 6.26885-26 (327, 4) 5. 41652-36 (313. 4) 4.53775-06 (309, 6) 7.16491-36 (194. 5) 4.593(5-16 (16. 1) 5.4349 - 25 (2. 6) 5.57645-36 (274, 5) 5.24536-06 (16. 2) 5.24536-06 (16. 1) 7.11235-06 (25. n) 6.68948-06 (225. 6) 7.14928-36 (16. Z) 7.47298-36 (59. I) 5-23645-36 (25. 6) 9.4319=-05 (145. 4) 7.0251=-06 (143. 5) 7.1767=-06 (121. 6) 5.31758-07 (139. 2) 4.45588-07 (154. 2) 5.2494 E-00 (189. 6) 4. 77077-56 (237, +) 7.73375-16 (69, 5) 7.55359-46 (342, 7) 6.7526E-00 (147. n) E.16405-07 (339. 7) 4, 77505-06 (246, 6) 7.5039=-16 (231, 4) 5.78236-06 (15). 41 5.85158-96 (275, 8) 3.868CE -07 (123. 2) 8.35795-35 (147. 3) 7.74665-35 (118. 4) 4.0521E-07 (364. 7) 5.1871E-07 (144. 7) 5. F508F-75 (110. a) -. 49625-26 (47. 1) 5.09935-06 (41. 7) 7.56405-05 (112. 0) h. 52425-06 (311 . 2) 7.40935-06 (254. 7) 9. 57725-76 (203. 6) 9. 01725-06 (165. 5) 1. 07245-05 (127. 5) 6. 56255-06 (154. 3) 4.03755-05 (147, E) 9.01325-06 (275, 1) 7.29135-06 (275. 4) 6.63568-07 (66. 7) 4.6435F-05 (124, 5) 4.6435F-05 (126, 5) 4.957F-05 (123, 6) 4.1075F-05 (125, 4) 6.71705-05 (155, 3) 6.37995-06 (150. 4) 9.09535-06 (127. 5) 5.06245-06 (163. 5) 1.02005-05 (265. 7) 7.3365E-06 (254. 7) 4.8511E-06 (165. 4) 5.63795-07 (225. 5.51 855-66 (254. 6) 7.53575-56 (127. 5) 6.62295-66 (134. 4) 6.60326-01 (341. 2) 7.65115-05 (203. 4) 7.98205-07 (355, 3) 6.17195-06 (171. 4) 7.64 C2E -06 (305. 4) 6.0535=-05 (134. 4) P. 98075-07 (272. 3) 9.96735-96 (159. 6) E.1032F-07 (161. 1) 7.6463=-06 (125, 51 5.2634E-06 (123. E) 5.85912-06 (365. 4) 4. 72952-06 (365. 4) 7,047/5-30 (:71, 6) 7.53375-36 (164. 4) 6.15ESE-07 1 1. 8) 3.5003F-CA (171. 7) 4. 35665-36 (17) , 6) 4.1332 5-36 (20. 41 3.53175-06 (199. 4) 7.6025E-27 (345. E) 4. 90715-01 (171. 7) A. PED7=-U6 (1. 6. 8P17E-00 (324. 4) 5.4195E-05 (171 . E) 7.7968E-07 (354, 7) 7.03905-06 (5/. 5) c.75557-06 (61. 4) 4. 75755-05 (57. 5) 1.06005-06 (332. 3) 5.83805-36 (301. 3) 5.19705-06 (301. 6) 5.67475-06 (52. 5) 9.4515=-36 (41. 4) 7.72922-06 (172. 1) 6.0413E-07 (102. 2)

3-FOUR CONCE 1-1707E-05 DIRECTIONS 5 DISTANCES 0.5 KM DAY=211

DLANT NAVE: DICKEPSON ASSEMBLT

YEARLY SECOND MAKINUM

Y= 47= 72

SUMMARY OF AIR QUALITY DICKERSON ASPHALT PLANT

POLLUTANT	FDER AIR QUALITY STD.	ALLOWABLE CLASS I	II IMP	.CULATED PACT OF PPOSED SC	OURCE
PARTICULATE MATTER					
ANNUAL	60 µg/m ³ ·	19 μα/m ³		0.3 բ	_{3/m} 3
24-H0UR*	150	37		4.5	
so ₂					
ANNUAL	60 :	20	1	0.6	
24-HOUR*	265	91		11.0	
3-HOUR*	1300	512		36.9	

^{*} Can be exceeded once per year

CONSOLIDATED CITY OF JACKSONVILLE STATE OF FLORIDA BIO-ENVIRONMENTAL SERVICES DIVISION AIR, WATER, NOISE POLLUTION CONTROL AND WATER CONSERVATION ACTIVITY 515 W. 6th STREET TEL: 633-3318

NOTICE TO CORRECT SOURCE OF POLLUTION/VIOLATION TO: Dickerson, Inc. P. O. Box 40949 Jacksonville, Florida 32203 This Notice Is to Inform You That On Or About The ______24 _ofJulv An Inspection Was Made By This Department And A Violation of Section(s) Chapter 17-4.21 XXX 并某种类类的 STATE RULES Was Found to be in Existence On or From Your Premises For the Following Reason(s) Failure to obtain Air Pollution Construction Permit for relocatable asphalt batch plant presently located on Heckscher Dr. You Are Hereby Notified To Correct This Violation No Later Than The _ of July , 19 79. Legal Action May Be Instituted Against You For Failure To Comply. * Please respond in writing by the above due date. Correction of This Source Of Pollution/Violation And Compliance With the Terms of This Notice Does Not Relieve You Of Any Liability To Civil Or Criminal Actions That May Accrue Or Have Accrued Against You For The Alleged Acts Sought To Be Corrected By This Notice. FOR THE CITY OF JACKSONVILLE, FLORIDA BIO-ENVIRONMENTAL SERVICES DIVISION AIR, WATER, NOISE POLLUTION CONTROL AND WATER CONSERVATION ACTIVITY

Ed Balducci - Engineer Assist.
Name and Title

Received by: _____ Date: July 24, 1979

Steve S.

DEPARTMENT OF HEALTH, WELFARE & BIO-ENVIRONMENTAL SERVICES Bio-Environmental Services Division Air and Water Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

July 24, 1979

Mr. William Lindler, Vice Pres. DICKERSON, INC. P. O. Box 40949
Jacksonville, Florida 32203

RE: CONSTRUCTION PERMIT APPLICATION

Dear Mr. Lindler:

The permit application for construction of the new asphalt batch plant located on Heckscher Drive is pending the results of a CRSTER computer model for an eight(8) hour average impact of total suspended particulates. When the computer run is received, you may publish a public notice in the newspaper. After thirty(30) days, the processing of the permit application will be resumed and completed shortly thereafter. However, before construction can begin, a PSD permit must be obtained from the Environmental Protection Agency as per Section 165 of the Clean Air Act as amended in August 1977.

A recent plant inspection revealed that a relocatable asphalt plant has been constructed on site and is in an operable condition. Please be advised that the same requirements apply to construction and PSD permits for this relocatable plant as well as the permanent plant.

To avoid further enforcement action being taken for the construction of the portable plant, submit a construction permit application by August 6, 1979.

If you have any questions, please call me at 633-3303.

Very truly yours,

E. P. Balducci, Pollution Control Assistant Engineer

EPB/jg

Enclosure: Notice to Correct

(July 30, 1979)



NORTH CAROLINA

BOARD OF WATER AND AIR RESOURCES

RALEIGH

APPLICATION FOR

A "PERMIT"

TO CONSTRUCT AND OPERATE AIR

POLLUTION ABATEMENT FACILITIES AND/OR EMISSION SOURCES

Filed By: Dickerson Inc Plant 17

(Name)

P.O. Box 400

(Address)

MONROE NC.

AQ-22 Rev. 11/73

AQ 4 / 13 JAN75 -

APPLICATION INSTRUCTIONS

THIS APPLICATION IS SUBJECT TO REJECTION UNLESS ALL REQUIRED

INFORMATION IS SUBMITTED

- ATTACH DETAILED ENGINEERING DRAWINGS OF SOURCE(S), PROCESS(ES) AND COLLECTION DEVICE(S) AS
 REQUESTED IN EACH SECTION. IF MULTIPLE SOURCES OR DEVICES, USE ADDENDUM SHEETS AS NECESSARY.
- Submit application, detailed engineering drawings, specifications and other supporting data and documents in TRIPLICATE.
- 3. Attach additional sheets as necessary to complete any portion of the application.
- 4. The application MUST BE SIGNED by the RESPONSIBLE INDIVIDUAL of the company that is to PURCHASE AND OPERATE the facilities for which a Permit is applied.
- 5. ALL APPLICANTS MUST COMPLETE THE FIRST PAGE AND SECTIONS I AND VI.
- 6. If an Incinerator, Fuel Burning Source, Wet Collection Device or Dry Collection Device is to be installed and operated, COMPLETE SECTIONS II, III, IV or V respectively.
- 7. All applications should be mailed to: North Carolina Department of Natural and Economic Resources
 Office of Water and Air Resources
 Air Quality Division
 P. D. Box 27687
 Raleigh, North Carolina 27611

NORTH CAROLINA BOARD OF WATER AND AIR RESOURCES Raleigh

APPLICATION FOR A "PERMIT"

To Construct and Operate Air Pollution Abatement Facilities and/or Emission Sources
Three Copies to be Submitted
Fourth Copy Should be Retained by Applicant

To:	Board of Water and Air Resources P. O. Box 27687 Raleigh, North Carolina 27611 Date: 13 Jan 75
In ac	ccordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, application
is h	ereby made by Dickerson Tive (Name of Company, Establishment, Town, Etc.) (Include Division or Plant Name in Addition to Parent
for	in the County of Unicon at Street and City or Town Address of Plant or Facility) issuance of a "Permit" to construct and operate air pollution abatement facilities and/or emissions sources at above tion as specified in the accompanying drawings, specifications, and other pertinent data:
1.	Nature of Operation Conducted at the Above Facility: Production of Asphalit Mix
	Description of Process(es) Whose Emission(s) is/are to be Controlled by the Facility or Source(s) Which is/are to be Constructed or Altered. (Complete Section I) PLANT IS EQUIPTED WITH A LYPE CYCLONE AND A BATHOUSE (PULSE TYPE)
3.	Furnish Type and Narrative Description of Proposed Control Device(s). (Complete Appropriate Supplemental Data Sneets for Control Device to be Installed and/or Operated. Include Make and Model Number of Control Device(s) and Number of Identical Units). Cyclone - Celar Rapids Baghouse - HAB Model DB 7-8910
-	Contaminant Weight Rate of Emissions (lb/hr): Emitted: Without Control Device With Control Device
5.	Name and Address of Engineering Firm that Prepared Plans: DICKERSON INC Monroe NC 25110
	Ultimate Disposition of Collected Pollutants: 7. Date on Which Facilities are to be Completed and in Operation:
(SED IN Process April, 1975
	Indicate Period of Time for Which Facilities 9. Estimate Cost of Air Pollution Control Device \$ \(\frac{100,000}{200} \) are Estimated to be Adequate: \(\frac{100,000}{200} \)
	10. Hours Facility is Operated Per Year: Z080
Name	(Responsible Individual of Company Purchasing/ Operating FacilityPLEASE PRINT) Mailing Address: PO. Box 400 Mowlee IVC
	7.6/10

Telephone Number: 104/282-3111

Signature and Title:

1. GENERAL DATA FOR PROCESSES

* * 2 W * * *

*Attach detailed process engineering drawings, equipment drawings and flow diagrams for the process(es) or source(e) being constructed or aftered.

Name of Process: Asphal Mix
Total Weight of Materials Entering this Process: _/o _ Tothr or ton/hr
Volume and Temperature of Air Flow Entering Control Device: \$\frac{10000}{000} \text{CFM @ 300 °F}\$ Volume and Temperature of Effluent at Discharge Point to Atmosphere: \$\frac{30,000\text{CFM @ 150 °F}}{30,000\text{CFM @ 150 °F}}\$ Pollutant(s) to be Controlled: \$\frac{1005}{20} \text{ft.} Inside area of Stack \$\frac{7}{150}\$ ft. Particulate Emission Rate (Before Control) \$\frac{1005}{150} \text{KNCWJ} b/hr\$
Particle Size Distribution: 0-5μ <u>«</u> , 5-10μ <u>«</u> , 10-20μ <u>«</u> , 20-30μ <u>«</u> , 30-40μ <u>«</u> , 40-50μ <u>«</u> , >50μ <u>«</u> Gaseous Emission(s): Name (Chemical Formula) μg/m³, PPM. <u>or 1b/hr</u>
Neg.
II. SUPPLEMENTARY DATA FOR INCINERATORS (Including Conical Incinerators)
Circle Type of Waste or Indicate Composition: Type O Type I Type II Type III Type IV
Combustible:% Non-Combustible:% Moisture:% Heat Value:BTU/lb
Total Waste Generated Per Day: b. Hours Incinerator will be Operated: hrs/day
Design Capacity for Above Waste:lbs/hr Manufacturer and Model Number; Approximate Cost:
Primary Chamber Volume:ft.3 Secondary Chamber Volume:ft.3
Air Requirements: Total Excess Air
Is there a Wet Scrubber?
Yes No Flow Rate of H ₂ O into Scrubbergal/min Temperature Before Scrubber°F
Aux. Fuel: 0il Gas Other Burner Rating: Primary Chamber Secondary Chamber Stack BTU/hrBTU/hr BTU/hr BTU/hr
Primary Burner: Is there a Preheat Timer? Yes No Preheating Time:min.
Secondary Burner or Afterburner: Is there a Timer? Yes No Length of Time Burner is Operatedmin.
Is the Timer Reset by Charging Door? Yes No Other Mode of Burner Control
Type of Feed: Manual Automatic If Automatic, Describe
Distance from Incinerator to Nearest Structure(s) in which People Live and/or Workft.
Signature: Title:

*Attack detailed dimensioned drawing or sketch showing internal features of dryers, wood or coal fired boilers, and recovery boilers.

Type of Fuel Burning Source Dryer. Stack Height Above Ground Level 30 ft. Inside Area of Stack 7/ ft2
Make and Model Number 10028EP Volume of Furnace ft3 Cedat Rigios
Coal lb/hr; Oil Grade Amount gal/hr, at 1381 BTU/gal and 7.4 lb/gal or 15/hr
Wood lb/hr; Natural Gas SCF/hr, at BTU/SCF; Other
(Specify type, amount and heating value)
Specify Maximum Rating for Each Fuel Burning Source:
Coal Oil Wood Natural Gas Other
Maximum Sulfur Content of Fuel % Specify Standby Fuel Maximum % Sulfur
Type of Solid Fuel Burning Equipment Used: Hand Fired Spreader Stoker Underfeed Stoker Chain Grate
· Traveling Grate Pulverizer Cyclone Furnace Other (Specify)
Ash Content of Fuel: Specify Method and Schedule of Tube Cleaning, if Applicable:
Coal % Wood % Other % Lancing Tube Blowing Schedule
Emission Control Equipment (Describe in Detail in Sections IV and V)
Collection Device: Wet Dry Steam Injection Air Injection Is Collected Flyash Reinjected? Draft on Boiler (Natural Induced)cfm at OF Total Number of Fuel Burning Sources Within Property Boundaries:
Maximum Capacity Rating, by Type, for All Fuel Burning Units Excluding that Itemized Above: (Total Like Units)
Coal lb/hr Wood lb/hr Oil gal/hr Natural Gas SCF/hr
IV. SUPPLEMENTARY DATA FOR WET COLLECTION DEVICES
*Attach detailed engineering drawings of the control device and particle size versus removal efficiency curves.
Liquid Scrubbing Medium and Additives:
Total Liquid Injection Rate (Include Recirculated and Make-up Rates) gal/min or gal/1000 ft ³
Operating Pressure Drop Across Device in H ₂ O
ANSWER FOLLOWING QUESTIONS FOR SPECIFIC DEVICE:
VENTURI SCURBBER: Inlet Area in ² Throat Area in ² Throat Velocity ft/sec
GRAVITY SPRAY CHAMBER: Number of Nozzles Liquid Droplet Size u Co-Current Countercurrent
WET CYCLONE: PACKED TOWER OR PLATE TOWER: Body Diameter in Length in Cross-Sectional Area ft ² Type of Plate
Inlet Area in ² Number of Nozzles Length ft Depth of Packing f
Outlet Area in ² Number of Plates Type of Packing
OTHER WET COLLECTION DEVICES: GIVE COMPLETE DESCRIPTION INCLUDING DESIGN PARAMETERS AND DETAILED ENGINEERING DRAWINGS.
Signature: Title:

- 3 -



*Attach detailed engineering drawings of the control device and particle size versus removal efficiency curves.

BAGHOUSES: C	Noth Area 57935 ft2	Bag Material 14 0Z.	Nonex
N	lumber of Compartments	Pressure - Drop Total 4	
	lethod of Cleaning Pulse	Air-to-Cloth Ratio	
	ime Between Cleaning 7 mins; hrs Scc.	The control was to the control of th	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
·			
ELECTROSTATIC	PRECIPITATORS:		
GENERAL:			
Effe	ective Area of Grounded Collector Plates ft ²		
Numb	per of Compartments or Chambers Number of Cell	s per Compartment	
Elec	trical Field Gradient at the Discharge or Emitting Elec	trodes . KV/in	
Aver	age Electrical Field Gradient at the the Grounded Colle	ecting Electrodes K	W/in
Fiel	ds of Treatment Potential Applied to Emittin	ng Wires KV	
SINGLE STA	•		
Dist	ance Between Emitting Wires and Collecting Plates	in.	
Numb	er of Isolatable Bus Sections Corona Power	Watts/1000 cfm	•
TWO STAGE	TYPE:		
Dist	ance Between First Stage Emitting Electrodes and Field	Receiver Electrodes (Ground)	in
Pote	ential Applied to Second Stage Emitting Plates	KV	
Dist	ance Between Second Stage Emitting Plates and Grounded	Collection Plates	in
CYCLONES/MULT	ICYCLONES:		
Simple Cyclon	e Multic	cyclone	
		Diameter	in
Inle	t Dimensions $4'x4'$ et Dimensions $4'x4'$	Inlet Dimensions of Individual	Cyclone
Outle	et Dimensions 4'X4'	Outlet Dimensions of Individua	1 Cyclone
Pres	sure Drop in H ₂ O F	Pressure Drop	in H ₂ O
Numbe	•	lumber of Cyclones	
OTHER DRY COL	LECTION DEVICES: GIVE COMPLETE DETAILED ENGINEERING DE	SCRIPTION AND DRAWINGS.	
Sionature:	1	Sitle:	

- 4 -

500

800

Owner DICKERSON Tive

Location Stallings IVC.

(Give Street Address)

INSTRUCTIONS:

- Show all surrounding buildings and roads within 1000 feet of subject equipment which is located at center of circles.
- Indicate location and type of building by the use of small numbered circles with the description below.
- Show roads as lines representing the road edges.
 Indicate street names and highway numbers.
- Show wooded or cleared areas by approximate boundary lines and the words "woods", "cleared", "cornfield", etc.
- 5. Indicate direction of north by arrow.

ODE DESCRIPTION

(1) Building - Storing Gambage trucks
(2) Road - S.R. 1368
(3) Open field
(4) Proposity owner by Dickerson
(5)
(6)
(7)
(8)

EXAMPLE

9

Rela

- 1) Church
- (2) Residence
- X Indicates location of equipment.

֊

NORTH CAROLINA DEPARTMENT OF WATER AND AIR RESOURCES

Air Quality Division

P. O. Box 27048

Raleigh, North Carolina .27611

(Three Copies To Be Submitted)
(Fourth Copy Should Be Retained By Applicant)

SUPPLEMENTAL DATA SHEET FOR GAS CLEANING EQUIPMENT

1.	DICKERSON INC. PLANT	17	
	Mailing Address MONROC N.C.	28110	UNICH
<u> </u>	City State	Zip Code	County
2.	Type of Gas Cleaning Equipment: Bagfilter Multicyclone Cyclone Control Electrostatic Precipitator Other	Scrubber [1]	Settling Charber
1		1 10 2 3 10 11 1	
3.	Name of Manufacturer H & B	Model Number DB 7	-8910
4.	/		
	Application for (boiler, cement kiln, etc.) Aggregate	Dryer	
		pecify	
5.	The following information shall be based upon conditions as they exist when the rated capacity. All volumes should be calculated at 70°F and 29.92 In. Hg.	gas cleaning equipment	is operated at
	Total Gas Volume through cleaning unit ~ 40, 000	cu. ft.	/min.
	Inlet Gas Temperature 300	o _F	
	Inlet Gas Pressure Approximately 10	in. of	water
	Inlet Dust Loading Not KNOW N	Gr./ft.	3
	Inlet Contaminant Gas Concentration 1401 KNOWN	lbs./hr	
	Outlet Gas Temperature	ot	
	Outlet Dust Loading .03	Gr./ft.	3
	Outlet Contaminant Gas Concentration Not KNOW N	lbs./hr	
	Water Flow Rate (Wet Scrubbers)	Gal./mi	n.
	Pressure Drop Across Cleaning Unit	in. of	water
	Efficiency of Unit 99	્	•
t.	Stack Sampling To Be Conducted Yes No By Whom Entropy Enu	i Roumentali.	st Date
7.	Particle Size Analysis		
	Size of Dust Particles Entering Cleaning Unit % of Total	l Dust % To	Re Collected
	O to 10 Microns		
	10 to 44 Microns		
	Larger than 44 Microns		
	Mines ZOO MATERIAL		99.97

- Buy house-EXhAUst-fa Dirty Air STACK

2-

NORTH CAROLINA DEPARTMENT OF NATURAL AND ECCNOMIC RESOURCES

Office of Water and Air Resources

Air Quality Division

P. O. Box 27687

Raleigh, North Carolina 27611

(Three Copies To Be Submitted)
(Fourth Copy Should Be Retained By Applicant)

REQUEST FOR REGISTRATION OF AIR CONTAMINANT SOURCES

applicatio	nce with provisions of regulations of the Board of w n is hereby made for the registration of equipment w utdoor atmosphere.	
1A. Di	CKERSON INC F Business License Name of Organization That Is	LANT #17
13.	(or Names) of Owner or Principal Partners Doing Tus	siness as Above Organization
2A. Mailing Address: PO. Number	Box 400 Monece. Street City	ZB Z\$// O
3A. Equipment location Outsing	Address: Stallings NC. Street Sity	UNION YOIVE G. Zio Sode County Phone
Fuel Burnin Incinerator Gas Cleanin Industrial	g Equipment	te number of different (nonidentical) units for each
5. Type Organization: Corporation———— Partnership———— Individual Cwmer Government Adency	DAVID GORDON	SB. Exec Vice Pres. Official Title of Signer 13 Jan 74 704/282-3111 Date Inone Number
Air Guality Division Use Only	Registration Number Date Received Regional Office Date Applications Forwarded to Applicant Date Applications Received From Applicant Comments:	Coordinates Date Received State Reviewed By Date Applications Processed

Office of Water and Air Resources

Air Cuality Division

P. C. Box 27667

Raleigh, North Carolina 27611

(Three Copies To Be Submitted)
(Fourth Copy Should Be Retained by Applicant)

APPLICATION FOR REGISTRATION OF PROCESSING OR MANUFACTURING EQUIPMENT

				· •	
1. Owner of Installation		Date of Applica	tion	DO NOT WRITE IN THIS SP	
DICKERSON TNE	Plant 17	13 JAN	74	Pate Rec. Reg. Date Res.	Etale
Meiling Address (F. C. or St.)		Telephone		koknowieugement:	
PO-Bux 400	7	104/28-2-3	111	DaiteBy:	
City	31818	210 0000	1,	Reviewed By:	
MONROE-	1VC	28110	 	Name	Date 1
2. Applicant or Authorized Agent		Telephone	<u></u> —	State	į
DICKERSON TINC		104/289-311	/	Application Ret. to Applica	ET:
1		Zip Code		DateBy:	
Same As Abd 3. Location of Plant Operation City	ve			Registration Number:	
1		Zip Code		R-	
4. Installer or Contractor (If New or Replace	05 NC				_
	-	,	ш	Coordinates	
DICKERCON IN	V.C	704/289-	3111		
				Class	
P.O. Bay 400 /	noukoe. N	1.C. 2811	0		
	Completion D	ate:		isting Installation Places	in
20 JAN 75	1/2	15	Cperatio	on:	
6. Signature of Owner or Authorized Company	Official Titl		or Type Name		Title
		LA	VID 6	ORDON V	. <i>Р</i>
7. Type of Registration (Check One)					
Existing Installation	New Installation		eplacement-	Filteration	
Addition	Change of Ownership-	o	ther		
		_		Specify	
6. Major Activity at this Location (Food, Lo	umber or Wood Products	. Primary Metals, P	rinting, Par	per. etc.)	
Production of	Asola 1	$M \sim 10^{-1}$	3,		
- TEGECITER OF	Specify	////		Sic. No	,
9. Total Number of Employees at this Location	on (Cneck Range)				
Less Than 10 10-19		0-49	50-	-9¢	
100-249 250-499-	500	0-999	1,000	or More	
10. Total Day: Installation Being Registered	Se translati Openia		1.00	Number of Chiffs	<u></u>
_			10,	. Number of Shifts	
Days Fer Week	ys Per Year 200			Shifts Per Day	
11. Type of Installation Being Registereo:	(Examples: Kiln, Cem	ent, Lime or Calcin	er);	11A. Number of Identical	Units
(Tank: Galvanizing, Dip, etc.) (Furnar	ce: Cupola, Crucible,	Electric Induction	, etc.)	2	
1				115. Location in Flant	./.
Agonos sto de	1100			Stalling	NC
Aggregate de	rveR Specify			- /	NC

12.	Frincipal Materials and Quant	ities Used or Consumed	in the Installat	ion Being Registered	:	
	Principal Materials	Process Weight (L	os./Hr.)	Quantity Per Year	Units of Consumption	n
	Aggregate	6000	Lbs./	30000/4	- Tons	
	Principal Materials Aggregate Asplant	300	lbs./F.	15-00	tons	
	- Garage		Lbs./Hr.			
13.	Frincipal Products and Quanti	ties Produced by the In	stallation Being	Registered:		
	Pr	incipal Products		Quantity Year	Units of Productio	ת
	Asphalt.	mil		•	,	
	- V Dp min-					
					·	
14	Stack Information for Install	ation Reina Penisteradi			<u> </u>	
14.						
	Height Above Ground Level (Ch				_	
					X 50-99 feet□	
					250 feet or More	
	Inside Diameter at Top /	ZO Inches.	Exit Temperatur	e <u>/57</u> °F. (as Velocity 40,000 Ft./M	in.
	Stack Use: Fuel Combustion P	roducts Pr	ocess Emissions-	Combin	ed Use	
	Nearest Building or Obstructi	on Beyond Property Line	(Example: Tree	s, Bridges, etc.)		
	Type Obstruction Builo	ling Distance	e 1000	feet Height	20 feet Direction	[E
15.	Stack Emissions Control Equip For Gas Cleaning Equipment" F				Utilized, "Supplemental Date She	et
				_	·	
	Gas Cleaning Device: Yes	X	1ype	BKG 110	pecify	
lć.	Type of Fuel Used (Frocess Us	e Only - Do Not Include	Fuels Used for	Indirect Heating:		
• • •	CoalTo			-1		
	0il <i>90,000</i> Ga			s Percent	. Ash	
	•					
	Natural GasCu			Other_	Specify Kind and Amount	
	WoodTo	ns/Yr.				
17	Samuela Calvanta Mari an Bari		0.1			
17.	Organic Solvents Used or Prod				_ >-	
	Are Organic Solvents Used? Y	es	Are Organic S	olvents Produced? Y	es <u>V</u>	
	Specify Type	Princip	al ‼se	Quant Consumed	ity Per Day (Gallons) Produced	
						

le. Impsions From This installation by:		
• Pollutant (Specify Type) Example: H ₂ S, SO ₂ , Cl ₂ Hydrocarbons, Dust, Etc.	Actual Emissions (With Existing Controls)	Potential Emissions (Without Control)
	Los./Hr.	Not KNOWN ISS./Hr.
	Lbs./Hr.	
	Lbs./Hr.	
	Lbs./Hr.	
	Lbs./Hr.	lbs./Hr.
All Quantities Should Be Determined at	Maximum Production or Capacity.	
including any intermediate products whi Show all quantities under Items 12, 13 production. Aggregate is then conveyed Dryez materials. Is transferred.	quipment or machinery, chemical formulas. (Will chemy be formed.) and 16. Also, show flow diagram when it will depend to process to Aggregate dryer Lis heaten to 300. the batch plant of batch plant of sphalt to produce Batch plant of the produce Bat	by feeders, Duce in the This material by an elevator s blender e the Asphalt Mix

PLANT CYCLOUS CONVEYER feeders

Aggregate Dryer 1 2 3 4

A draft is pulled through the dryer by AN Exhaust fan; which pulls aggregate fines from the material. These fines; first go through a enchonce collector; then the other fines are collected at bay house.

DO NOT WRITE SELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Farniculate Sulfur Dioxide	W THIS LIME	·
DO MOT WRITE BRICW THIS Emissions in Pounds Per Hour and Pounds Per Day from this installation: Pounds per Hour Particulate	W THIS LIME	
DO MOT WRITE BRICW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LIME	
DO NOT WRITE BELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LIME	
DO NOT WRITE BRICW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LIME	
DO MOT WRITE BELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LINE	
DO NOT WRITE BELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LINE	
DO NOT WRITE BELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this installation: Pounds per Hour Particulate	W THIS LIME	
DO NOT WRITE BELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LIME	
DO NOT WRITE BELOW THIS Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LIME	
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Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LINE	
Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LINE	
Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	W THIS LIME	
Emissions in Pounds Per Hour and Pounds Per Day from this Installation: Pounds per Hour Particulate	lon:	
Particulate		1000
Sulfur Dioxide	Pounds per Day	Annual (Pounds)
Oxides of Nitrogen		
Oxides of Nitrogen		
Carten Monoxide		

Description of Installation (Continued)