February 7, 1997

MEMORANDUM

TO: Orville D. Green, Assistant Administrator
Air & Hazardous Waste

FROM: Martin Bauer, Chief
Air Quality Permitting Bureau

SUBJECT: Issuance of Tier II Operating Permit #777-00170 to POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1200

PURPOSE

The purpose for this memorandum is to satisfy the requirements of IDAPA 16.01.01 Sections 400 through 406 (Rules for the Control of Air Pollution in Idaho) for issuing Operating Permits.

PROJECT DESCRIPTION

This project is for an Operating Permit (OP) for the POE Asphalt Paving, Inc., portable Hot Plant Madsen #1200, Idaho. Emission sources existing at the facility are as follows: pre-dryer material handling; dryer and post-dryer material handling controlled by the cyclone and the baghouse in series; and fugitive dust from aggregate storage piles; paved and unpaved roads, and general maintenance.

SUMMARY OF EVENTS

On January 17, 1995, the Division of Environmental Quality (DEQ) received the facility's Tier II OP application. On December 4, 1995, the application was determined complete. On June 28, 1996, a proposed Tier II OP was issued for public comment. The public comment period was from July 11, 1996, through August 9, 1996. No comments were received.

RECOMMENDATIONS

Based on the review of the OP application and all applicable state rules and federal regulations concerning the permitting of air pollution sources, the Bureau staff recommends that POE Asphalt Paving, Inc., Idaho, be issued a Tier II OP for the portable Hot Plant Madsen #1200.

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cc: J. Bellatty, Lewiston Regional Office
OP File Manual
Source File
COF

June 28, 1996

MEMORANDUM

TO: Brian R. Monson, Chief
Operating Permits Bureau
Permits and Enforcement

FROM: Yihong Chen, Air Quality Engineer
Operating Permits Bureau
Darrin Mehr, Air Quality Engineer
Operating Permits Bureau
Mike Simon, Air Quality Engineer
Construction Permits Bureau

THROUGH: Susan J. Richards, Air Quality Permits Manager
Operating Permits Bureau

SUBJECT: Technical Analysis for Proposed Tier II Operating Permit #777-00170
POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1200

PURPOSE

The purpose for this memorandum is to satisfy the requirements of IDAPA 16.01.01 Sections 400 through 406 (Rules for the Control of Air Pollution in Idaho) for issuing Operating Permits.

FACILITY DESCRIPTION

The Poe Asphalt Paving, Inc., portable hot plant Madsen #1200, currently located at Lewiston, Idaho, is used to process raw materials of aggregate and asphalt emulsion into asphaltic concrete.

Aggregate is loaded from stockpiles into the hopper of the cold feed bins by front end loader; the aggregate is metered from the hoppers onto a conveyer belt and is transported into the rotary dryer, where a diesel fueled burner is used to dry and heat the aggregate; after being dried and heated, the aggregate is lifted via the hot elevator to the Symons screens which are located just above the pug mill; the particulate collected by both the cyclone and the baghouse is transported by covered auger to the hot elevator; after screening, the hot aggregate drops into hot bins according to size; to control aggregate size distribution in the final batch mix, the operator opens various hot bins over a weigh hopper until the desired mix and weight are obtained; the mix drops into a pug mill and is dry-mixed; the liquid asphalt cement is then transferred to the pug mill where it is mixed with the aggregate for an additional period of time; then the Hot Mix may be dropped into a waiting truck, or in the absence of a truck, may be conveyed to the surge bin via the hot mix elevator.

Emissions from the drum dryer, post-dryer material handling, pug mill screens, and pug mill are controlled by passing through a cyclone and a baghouse in series. Other emissions are generated from pre-dryer material transport, handling, and storage, and fugitive road dust.

The facility was installed in the 1960s. No modification occurred after June 11, 1973 per applicant's submittal. Therefore, the facility is not subject to the New Source Performance Standards (NSPS) in accordance with 40 CFR 60, Subpart I.

PROJECT DESCRIPTION

This project is for a synthetic minor Operating Permit (OP) for the following process units and fugitive emission sources.

Process Units:

(1) Drum (Rotary) Dryer Burner - with a maximum rated heat input capacity of 100.05 Million British Thermal Unit per hour (MMBtu/hr), per applicant's submittal. The emissions from this source are controlled.

Drum Dryer Burner Specifications:

Manufacturer:	Gencore
Model:	#751
Fuel:	#1 or #2 fuel oil

(2) Drum (Rotary) Dryer - with a maximum rated process hourly rate of 200 ton of aggregate per hour (ton/hr), per applicant's submittal. The emissions from this source are controlled.

Drum Dryer Specifications:

Manufacturer:	Not Available
Model:	Not Available

(3) Pug Mill Screens - with a maximum rated process hourly rate of 200 ton of aggregate per hour (ton/hr), per applicant's submittal. The emissions from this source are controlled.

Pug Mill Screens Specifications:

Manufacturer:	Symons
Model:	Not Available

(4) Pug Mill - with a maximum rated process hourly rate of 210 ton of asphaltic concrete per hour (ton/hr), per applicant's submittal. The emissions from this source are controlled.

Pug Mill Specifications:

Manufacturer:	Madsen
Model:	Not Available

(5) Material handling - post-dryer material handling, transport, and storage. The emissions from this source are controlled.

(6) Cyclone - primary control device; captures particulate matter from the rotary dryer burner, rotary dryer, pug mill screens, post dryer material handling, and pug mill. The cyclone specifications are not available.

(7) Baghouse - secondary control device; captures particulate matter in the air stream from cyclone.

Baghouse Specification:

Manufacture:	Madsen
Model:	481
Inlet Flow Rate Range:	Not Available
Inlet Gas Flow Temperature:	Not Available
Pressure Drop Range:	Not Available
Air/cloth Ratio:	5.8:1
Efficiency:	98.8%

Stack Specification:

Height:	20 feet
Exit Diameter:	3 feet
Exit Gas Flow Rate:	21,250 acfm
Exit Temperature:	350°F

(8) Material handling - pre-dryer material handling, transport, and storage.

(9) Surge Bin - hot mix asphalt concrete storage; emissions of particulate matter are negligible.

Fugitive sources:

(1) Aggregates storage piles.
(2) Road dust.
(3) Screen changing and general maintenance.

A more detailed process description is found in the application materials.

SUMMARY OF EVENTS

On January 17, 1995, the Division of Environmental Quality (DEQ) received a Tier II Operating Permit (OP) application prepared by Spidell & Associates. On February 9, 1995, DEQ returned the submittal due to the lack of signatures on the cover letter and application forms. The application materials of Lewiston facility, Madsen #1200, were resubmitted on June 16, 1995. On July 17, 1995, DEQ determined the application incomplete.

On August 9, 1995, DEQ received a letter dated August 8, 1995, written by Cameron Houlgate of Spidell & Associates indicating that the application for the Tier II permit was withdrawn. On August 18, 1995, Mr. Houlgate was contacted by Darrin Mehr, Air Quality Engineer, to clarify POE Asphalt's permitting intentions. On August 25, 1995, a letter was sent out by DEQ indicating that a Tier II permit is the appropriate method to limit facility's potential to emit.

A Permit to Construct (PTC) application for the Lewiston facility, Madsen #1200 was submitted to the Construction Permits Bureau (CPB) by Spidell & Associates and received on September 19, 1994. The application was transferred and received by the Operating Permits Bureau (OPB) on November 3, 1995. Correspondence regarding the transfer of the PTC application to OPB by CPB was sent to POE Asphalt on November 3, 1995, and November 6, 1995. On December 4, 1995, DEQ determined the application complete.

On January 9, 1996, DEQ received a submittal regarding the installation or modification date of the facility. Based on the phone conversation between DEQ staff and Mr. Damon on February 1, 1996, and the letter received by DEQ on February 7, 1996, the facility voluntarily granted DEQ a forty-five (45) day extension period.

On March 15, 1996, DEQ sent a letter requesting additional information which was necessary in order to complete the technical analysis. On March 26, 1996, POE granted DEQ a forty-eight (48) day extension. On April 12, 1996, DEQ sent a second request letter requesting that POE submit the supplemental information addressed in the letter dated March 15, 1996, by April 19, 1996. On April 23, 1996, POE provided part of requested information by phone. On April 26, 1996, POE granted DEQ an extension for a proposed permit until May 10, 1996. On May 6, 1996, POE supplied information on its drum (rotary) dryer burner. On May 9, 1996, POE granted DEQ an extension for a proposed permit until May 17, 1996.

A public comment period has been scheduled for the proposed permit.

DISCUSSION

1. Emission Estimates

Emission estimates were provided by POE Asphalt Paving, Inc., as prepared by the facility's consultant, Spidell & Associates, and can be seen in the June 16, 1995, application and in the September 19, 1995, amended application. DEQ also estimated the PM, PM-10, SO_2, NO_x, CO, VOC, and HAPs emissions from process units using emission factors from AP-42, Section 11.1 (Hot Mix Asphalt Plants, 1/95), Section 13.2.4 (Aggregate Handling and Storage Piles, 1/95), Section 8.19.1 (Sand and Gravel Processing, 9/91), Section 1.3 (Fuel Oil Combustion, 1/95). The calculation spreadsheet of permitted emissions is in Appendix A.

PM-10 and SO_2 are the pollutants that trigger major source status for the POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1200, in accordance with DEQ policy for PM-10 (April 4, 1996). The potential to emit (PTE) of PM-10 is above 100 T/yr, which was calculated by adding PM-10 emissions from stack and that from process units at its design capacity and operated at 8760 hours per year. The PTE of SO_2 is also above 100 T/yr, and was calculated at the drum (rotary) dryer burner's design capacity and operated at 8760 hours per year. The calculation spreadsheet of PTE is in Appendix B (prior to permitting).

The applicant chose to net out of major source Tier I permitting requirements by limiting the PTE of PM-10 and SO_2 to less than 100 T/yr each. The applicant accepted enforceable limits as follows: 1) product rate of asphaltic concrete shall not exceed 1,839,600 tons per rolling year; 2) the hours of operation shall not exceed 6,700 hours on a rolling year. 3) the #1 or #2 fuel oil usage of entire facility shall not exceed 3,568,355 gallons per year; 4) primary (the cyclone) and secondary (the baghouse) control devices shall be used to control the emissions generated from rotary dryer burner, rotary dryer, post-dryer material handling, pug mill screens and pug mill, and the pressure drop across the cyclone and the baghouse shall be within the range of 5 - 7" water gauge; 5) fugitive dust generated from roads, storage piles, screen changing and general maintenance shall be reasonably controlled.

The applicant has been unable to supply manufacturer's specifications and operating recommendations for the control equipment. However, the pressure drop across the control equipment in series has been provided.

The applicant has been unable to supply the model for Drum Dryer, Pug Mill Screens, and Pug Mill. However, the design rated capacity was given for each equipment.

The summary of the emissions under permitted limits can be found in Appendix C.

Compliance determination with the proposed emission limits shall be based on the sections, OPERATING REQUIREMENTS and MONITORING AND RECORDKEEPING REQUIREMENTS, in the permit.

2. Area Classification

POE Asphalt Paving, Inc. Portable Hot Plant Madsen #1200., is permitted to be operated in areas classified as attainment or unclassifiable for all federal and state criteria air pollutants (i.e., PM, PM-10, CO, NO_x, and SO_2).

3. Facility Classification

The facility is not a designated facility as defined in IDAPA 16.01.01.006.25. The facility is classified as an A2 source because the actual emissions of PM-10 and SO_2 are less than 100 tons per year.

4. Regulatory Review

This operating permit is subject to the following permitting requirements:

a.	IDAPA 16.01.01.123	Certification of documents
b.	IDAPA 16.01.01.135	Excess Emissions Reports
c.	IDAPA 16.01.01.401	Tier II Operating Permit.
d.	IDAPA 16.01.01.403	Permit Requirements for Tier II Sources.
e.	IDAPA 16.01.01.404.01(c)	Opportunity for Public Comment.
f.	IDAPA 16.01.01.404.04	Authority to Revise Operating Permits.
g.	IDAPA 16.01.01.406	Obligation to Comply.
h.	IDAPA 16.01.01.470	Permit Application Fees for Tier II Permits.
i.	IDAPA 16.01.01.500	Registration Procedures and Requirements for Portable equipment.
j.	IDAPA 16.01.01.625	Visible Emission Limitation.
k.	IDAPA 16.01.01.650	General Rules for the Control of fugitive dust.
l	IDAPA 16.01.01.728	Distillate Fuel Oil
m.	IDAPA 16.01.01.805	Rules for Control of Hot-Mix Asphalt Plants.

5. Modeling

No modeling was performed for this project.

FEES

Fees apply to this facility in accordance with IDAPA 16.01.01.470. The facility is subject to permit application fee for Tier II permits of five hundred dollars ($500.00). IDAPA 16.01.01.470 became effective on March 7, 1995.

AIRS

AIRS data entry sheet can be found in Appendix D.

RECOMMENDATIONS

Based on the review of the Operating Permit application and applicable state and federal rules and regulations concerning the permitting of air pollution sources, the Bureau staff recommends that POE Asphalt Paving, Inc., be issued a Tier II Operating Permit for the Portable Hot Plant Madsen #1200. An opportunity for public comment shall be provided as required by IDAPA 16.01.01.404.01. Staff also recommends that the facility be notified of the Tier II permit fee requirement in writing. This fee will be applicable upon issuance of the permit.

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cc: G. Burr, NIRO Source File COF

APPENDIX A

Appendix A-1

Company Name:	POE Asphalt Paving, Inc. Madsen 1200, portable	Engineer:	Yihong
Project:	Permit limits (PM10) Estimation, Attainment Area Lewiston, ID	Date:	13-May-96

SUM(PM10, per, T/yr)=	97.29
SUM(SO2, per, T/yr)=	94.98
SUM(PM, per, T/yr)=	342.25

Operating hours per year= 6,700
Fuel oil sulfure content= 0.5 %

Reference	Process	Poll-tants	Procs. Rate	Unit	EFs	Unit	Unconti. Emis. (lb/hr)	Unconti. Emis. (T/yr)	Contl Eff.	Contl Emi lb/hr	Contl Emi T/yr	Remark
	Pre-dryer											Per application, aggregate= 95% of product
												E (lb/hr) = EF (lb/T) * pro.rate (T/hr)
												E(T/yr)=E(lb/hr)*Oper hour(hr/yr)/2000(lb/T)
AP-42,13.2.4(1/95)	loader -> cold aggregate bins	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	0.0%	0.21	0.70	Mean wind speed (U, mph)= 10
AP-42,13.2.4(1/95)	cold aggregate bins->conveyor	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	0.0%	0.21	0.70	Moisture content (M%)= 4 %
AP-42,13.2.4(1/95)	conveyor -> drum dryer	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	0.0%	0.21	0.70	Particle size multiplier(k)= 0.35 PM10 (< 10 microme
												E(lb/T)=k*(0.0032)*((U/5)^(1.3))/((M/2)^(1.4))
SUM(PM)	5.99	ton/yr	1.79	lb/hr								TofA= ton of aggragate
SUM(PM10)	2.10	ton/yr	0.63	lb/hr								
	Dryer											Per App. control efficiency of baghouse = 98.8%
AP-42,T11.1-2(1/95)		PM10	210	TofP/hr	4.5	lb/TofP	945.00	3165.75	98.8%	11.34	37.99	TofP= ton of product
AP-42,T11.1-2(1/95)		PM	210	TofP/hr	32	lb/TofP	6720.00	22512.00	98.8%	80.64	270.14	Default Value (MMBtu)=(M%*0.476+0.98*80(ton/yr))/10
AP-42,T1.3-2(1/95)		CO	532.4	Gal/hr	5	lb/10^3gal	2.66	8.92	0.0%	2.66	8.92	gal/hr=100.05 (MMBtu/hr)/0.14 (MMBtu/gal)*74.5%
AP-42,T1.3-2(1/95)		NOx			20	lb/10^3gal	10.65	35.67	0.0%	10.65	35.67	per information provided by applicant
AP-42,T1.3-2(1/95)		SO2			71	lb/10^3gal	37.80	126.63	25.0%	28.35	94.98	25.0% control efficiency per general permit spreadsheet
AP-42,T1.3-4(1/95)		VOC			0.2	lb/10^3gal	0.11	0.36	0.0%	0.11	0.36	
SUM(PM10)	37.99	ton/yr	11.34	lb/hr								
	Post-dryer											
AP-42,13.2.4(1/95)	dryer->slat conveyor	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	98.8%	0.00	0.01	
AP-42,13.2.4(1/95)	conveyor->pug mill screens	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	98.8%	0.00	0.01	
AP-42,8.19.1(9/91)	screening process	PM10	200	TofA/hr	0.12	lb/T	23.94	80.20	98.8%	0.29	57.16	
		PM	200	TofA/hr	0.16	lb/T	31.92	106.93	98.8%	0.38	65.97	
AP-42,13.2.4(1/95)	pug mill screens->elevator	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	98.8%	0.00	0.01	
AP-42,13.2.4(1/95)	elevator->hot bins	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	98.8%	0.00	0.01	
AP-42,13.2.4(1/95)	hot bins->weigh hopper	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	98.8%	0.00	0.01	
AP-42,13.2.4(1/95)	weigh hopper->pug mill	PM10	200	TofA/hr	0.001044	lb/T	0.21	0.70	98.8%	0.00	0.01	
	emissions after pug mill negligible											
SUM(PM-10)	57.21	ton/yr	0.30	lb/hr								
dryer,post-dryer(PM-10)	95.20	ton/yr	11.64	lb/hr								
dryer,post-dryer(PM)	336.26	ton/yr	81.06	lb/hr								

Appendix A-2

HAPs from Asphalt Plant

	CASRN											
AP-42,T11.1-9(1/95)	75070	210	TofP/hr	0.00064	lb/TofP	0.13	0.45	0.0%	0.13	0.45	Assume con. eff of fabric filter is	99%
	71432	210	TofP/hr	0.00035	lb/TofP	0.07	0.25	0.0%	0.07	0.25	EFs after fabric filter is converted to EFs w/o contl	
	100414	210	TofP/hr	0.0033	lb/TofP	0.69	2.32	0.0%	0.69	2.32	EFs(w/o contl)=EFs(w/ contl)/(1- contl. eff)	
	50000	210	TofP/hr	0.00086	lb/TofP	0.18	0.61	0.0%	0.18	0.61		
	91203(b)	210	TofP/hr	0.0042	lb/TofP	0.88	2.95	0.0%	0.88	2.95		
	106514	210	TofP/hr	0.00027	lb/TofP	0.06	0.19	0.0%	0.06	0.19		
	108883	210	TofP/hr	0.0018	lb/TofP	0.38	1.27	0.0%	0.38	1.27		
	1330207	210	TofP/hr	0.0043	lb/TofP	0.90	3.03	0.0%	0.90	3.03		
	91203(b)	210	TofP/hr	0.0045	lb/TofP	0.94	3.17	0.0%	0.94	3.17		
AP-42,T11.1-12(1/95)	Arsenic	210	TofP/hr	0.000066	lb/TofP	0.01	0.05	0.0%	0.01	0.05		
	Beryllium	210	TofP/hr	0.000022	lb/TofP	0.00	0.02	0.0%	0.00	0.02		
	Cadmium	210	TofP/hr	0.000084	lb/TofP	0.02	0.06	0.0%	0.02	0.06		
	Chromium	210	TofP/hr	0.000089	lb/TofP	0.02	0.06	0.0%	0.02	0.06		
	Hexavalent-Chromium	210	TofP/hr	0.000000	lb/TofP	0.00	0.00	0.0%	0.00	0.00		
	Lead	210	TofP/hr	0.000074	lb/TofP	0.02	0.05	0.0%	0.02	0.05		
	Manganese	210	TofP/hr	0.00099	lb/TofP	0.21	0.70	0.0%	0.21	0.70		
	Mercury	210	TofP/hr	0.000045	lb/TofP	0.01	0.03	0.0%	0.01	0.03		
	Nickel	210	TofP/hr	0.00042	lb/TofP	0.09	0.30	0.0%	0.09	0.30		
	Selenium	210	TofP/hr	0.000009	lb/TofP	0.00	0.01	0.0%	0.00	0.01		

APPENDIX B

Appendix B-1

Company Name:	POE Asphalt Paving, Inc. Madsen 1200, portable	Engineer:	Yihong
Project:	PTE (PM-10) Estimation Lewiston, ID	Date:	13-May-96

SUM(PM10, T/yr)=	4252.18	SUM(HAPs, T/yr)=	20.25	SUM(NOx, T/yr)=	62.60
SUM(SO2, T/yr)=	166.68	MAX(HAPs,T/yr)=	4.14	SUM(VOC,dryer,T/yr)=	0.63
SUM(PM, T/yr)=	29596.89	SUM(CO, T/yr)=	15.65		

Operating hours per year= 8760
Fuel oil sulfure content= 0.5 %

Reference	Process	Poll-tants	Proc. Rate	Unit	EFs	Unit	Uncontl. Emis. (lb/hr)	Uncontl. Emis. (T/yr)	Contl Eff.	Contl Emiss. T/yr	Remark
											Per application, aggregate= 95% of product
											E (lb/hr) = EF (lb/T) * pro.rate (T/hr)
											E(T/yr)=E(lb/hr)*Oper hour(hr/yr)/2000(lb/T)
	Pre Dryer										
AP 42,13.2.4(1/95)	loader -> cold aggregate bins	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	Mean wind speed (U, mph)= 10
same as above	cold aggregate bins->conveyor	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	Moisture content (M%)= 4 %
same as above	conveyor -> drum dryer	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	Particle size multiplier(k)= 0.35 PM10 (< 10 microme
											E(lb/T)=k*(0.0032)*((U/5)^(1.3))/((M/2)^(1.4))
											TofA= ton of aggregate
SUM(PM10, T/yr)	2.74										
	Dryer										
AP-42,T11.1-2(1/95)		PM10	210	TofP/hr	4.5	lb/TofP	945.00	4139.10	0.0%	4139.10	TofP= ton of product
same as above		PM	210	TofP/hr	32	lb/TofP	6720.00	29433.60	0.0%	29433.60	
AP-42,T1.3-2(1/95)		CO	714.6	Gal/hr	5	lb/10^3gal	3.57	15.65	0.0%	15.65	gal/hr = 100.05 (MMBtu/hr)/0.14 (MMBtu/gal)
same as above		NOx			20	lb/10^3gal	14.29	62.60	0.0%	62.60	
same as above		SO2			71	lb/10^3gal	50.74	222.24	25.0%	166.68	
AP-42,T1.3-4(1/95)		VOC			0.2	lb/10^3gal	0.14	0.63	0.0%	0.63	
	4139.10										
	Post-dryer										
AP-42,13.2.4(1/95)	dryer->slat conveyor	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	
	conveyor->pug mill screens	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	
AP-42,8.19.1(9/91)	screening process	PM10	200	TofA/hr	0.12	lb/T	23.94	104.86	0.0%	104.86	
		PM	200	TofA/hr	0.16	lb/T	31.92	139.81	0.0%	139.81	
	pug mill screens->elevator	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	
	elevator->hot bins	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	
	hot bins->weigh hopper	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	
	weigh hopper ->pug mill	PM10	200	TofA/hr	0.001	lb/T	0.21	0.91	0.0%	0.91	
	emissions after pug mill negligible										
SUM(PM10, T/yr)	110.34										
	HAPs from Asphalt Plant										
AP-42,T11.1-9(1/95)		CASRN									
		75070	210	TofP/hr	0.00064	lb/TofP	0.13	0.59	0.0%	0.59	Assume con. eff of fabric filter is 99%
		71432	210	TofP/hr	0.00035	lb/TofP	0.07	0.32	0.0%	0.32	EFs after fabric filter is converted to EFs w/o contl
		100414	210	TofP/hr	0.0033	lb/TofP	0.69	3.04	0.0%	3.04	EFs(w/o contl)=EFs(w/ contl)/(1-contl. eff)
		50000	210	TofP/hr	0.00086	lb/TofP	0.18	0.79	0.0%	0.79	
		91203(b)	210	TofP/hr	0.0042	lb/TofP	0.88	3.86	0.0%	3.86	
		106514	210	TofP/hr	0.00027	lb/TofP	0.06	0.25	0.0%	0.25	

108883	210	TofP/hr	0.0018	lb/TofP	0.38	1.66	0.0%	1.66
1330207	210	TofP/hr	0.0043	lb/TofP	0.90	3.96	0.0%	3.96
91203(b)	210	TofP/hr	0.0045	lb/TofP	0.94	4.14	0.0%	4.14
Arsenic	210	TofP/hr	0.000066	lb/TofP	0.01	0.06	0.0%	0.06
Beryllium	210	TofP/hr	0.000022	lb/TofP	0.00	0.02	0.0%	0.02
Cadmium	210	TofP/hr	0.000084	lb/TofP	0.02	0.08	0.0%	0.08
Chromium	210	TofP/hr	0.000089	lb/TofP	0.02	0.08	0.0%	0.08
Hexavalent-Chromium	210	TofP/hr	0.000000	lb/TofP	0.00	0.00	0.0%	0.00
Lead	210	TofP/hr	0.000074	lb/TofP	0.02	0.07	0.0%	0.07
Manganese	210	TofP/hr	0.00099	lb/TofP	0.21	0.91	0.0%	0.91
Mercury	210	TofP/hr	0.000045	lb/TofP	0.01	0.04	0.0%	0.04
Nickel	210	TofP/hr	0.00042	lb/TofP	0.09	0.39	0.0%	0.39
Selenium	210	TofP/hr	0.000009	lb/TofP	0.00	0.01	0.0%	0.01

APPENDIX C

APPENDIX C

PERMITTING LIMITS FOR POE ASPHALT PAVING, INC. HOT PLANT MADSEN #1200

UNDER PERMITTED LIMITS	PM-10		PM		CO		NOX		SO2		VOC	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Pre-dryer material handling	0.63	2.10	1.79	5.99	---	---	---	---	---	---	---	---
Baghouse Stack	11.64	95.20	81.07	336.26	2.66	8.92	10.65	35.67	28.35	94.98	0.11	0.36

APPENDIX D

Appendix D

ABBREVIATED AIRS DATA ENTRY SHEET

Name of Facility: POE Asphalt Paving, Inc Portable Hot Plant

AIRS/Permit #: 777-80170 Madison #1280

Permit Issue Date:

*Source/Emissions Unit Name (25 spcs) (Please use name as indicated in permit)	SCC # (8 digit #)	Air Program (SIP/NESHAP/NSPS/PSD)
* Cold Aggregate Handling	30530206	SIP
+ Rotary Drum Dryer	30530201	SIP
+ Hot Elevator	30530202	SIP
+ Pugmill Screens	"	"
+ Hot Bins	"	"
+ Pugmill		"
Storage Piles	30530203	"
Plant Road	30530290	"
+ = controlled by the cyclone and baghouse in series.		

RETURN TO PAT RAYNE

AIRS-PT.LST (9/95)