FACILITY PERMIT REVIEW SHEET

DATE: 11/6/2012 **APPLICATION NUMBER:** 0310509-006-AC

FACILITY NAME: Dupuy Silo Facility

FACILITY DESCRIPTION: Coffee bean receiving, storage, mixing, and shipping facility

PERMIT PROCESSOR: C. Blane Johnson

MAJOR FOR CRITERIA POLLUTANTS AND/OR HAPs (Circle)

CO PB NO_x PM SO_2 VOC HAP

SUBJECT TO: (Circle)

NSR(PSD) PERMIT NUMBER: _____

NSR(NAA) PERMIT NUMBER: _____

BACT EU NUMBER: _____

MACT EU NUMBER: _____

RACT EU NUMBER: _____

NSPS EU NUMBER: _____

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM	99.4	22.68	99.4
PM_{10}	99.4	22.68	99.4
SO2			
NOX			
CO			
VOC			
TOC			
PB			
TOTAL HAP			
SINGLE HAP (highest)			

COMMENTS: All PM is PM_{10}.

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-005-AO **EU NUMBER:** 001

REFERENCES: Renewal application

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
2.27	9.9	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

0.03	8,830	60	7,000	=	2.27	lb/hr
				=	9.9	tons/yr

POTENTIAL EMISSION CALCULATIONS

potential emission rate (mg/m^3) / (mg/lb) / (ft^3/m^3) X flow rate (ft^3/min) X (min/hr) = PTE

20	453,592	35.3	8,830	60	=	0.661	lb/hr
					=	2.9	tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.711(2)	

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/7/2011

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-005-AO **EU NUMBER:** 002

REFERENCES: Renewal application

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
5.0	21.9	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

0.03	19,430	60	7,000	=	5.00	lb/hr
				=	21.9	tons/yr

POTENTIAL EMISSION CALCULATIONS

potential emission rate (mg/m^3) / (mg/lb) / (ft^3/m^3) X flow rate (ft^3/min) X (min/hr) = PTE

20	453,592	35.3	19,430	60	=	1.46	lb/hr
					=	6.4	tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.711(2)	

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/7/2011

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-005-AO **EU NUMBER:** 003

REFERENCES: Renewal application

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
2.27	9.9	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

0.03	8,830	60	7,000	=	2.27	lb/hr
				=	9.9	tons/yr

POTENTIAL EMISSION CALCULATIONS

potential emission rate (mg/m^3) / (mg/lb) / (ft^3/m^3) X flow rate (ft^3/min) X (min/hr) = PTE

20	453,592	35.3	8,830	60	=	0.661	lb/hr
					=	2.9	tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.711(2)	

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/7/2011

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-005-AO **EU NUMBER:** 004

REFERENCES: Renewal application

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
1.47	6.4	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

Shipping Lane #1

0.03	2,119	60	7,000	=	0.54	lb/hr
				=	2.4	tons/yr

Shipping Lane #2

0.03	1,483	60	7,000	=	0.38	lb/hr
				=	1.7	tons/yr

Shipping Lane #3

0.03	2,119	60	7,000	=	0.54	lb/hr
				=	2.4	tons/yr

Total Allowable Emissions

=	1.47	lb/hr
=	6.4	tons/yr

POTENTIAL EMISSION CALCULATIONS

potential emission rate (mg/m^3) / (mg/lb) / (ft^3/m^3) X flow rate (ft^3/min) X (min/hr) = PTE

Shipping Lane #1

20	453,592	35.3	2,119	60	=	0.159	lb/hr
					=	0.7	tons/yr

Shipping Lane #2

20	453,592	35.3	1,483	60	=	0.111	lb/hr
					=	0.5	tons/yr

Shipping Lane #3

20	453,592	35.3	2,119	60	=	0.159	lb/hr
					=	0.7	tons/yr

Total PTE

=	0.429	lb/hr
=	1.9	tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.711(2)	

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/7/2011

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-005-AO **EU NUMBER:** 005

REFERENCES: Renewal application

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
0.27	1.2	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

0.03	1,059	60	7,000	=	0.27	lb/hr
				=	1.2	tons/yr

POTENTIAL EMISSION CALCULATIONS

potential emission rate (mg/m^3) / (mg/lb) / (ft^3/m^3) X flow rate (ft^3/min) X (min/hr) = PTE

20	453,592	35.3	1,059	60	=	0.079	lb/hr
					=	0.3	tons/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL
	62-296.711(2)	

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/7/2011

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-006-AC **EU NUMBER:** 006

REFERENCES: Construction application, AP-42 Section 9.13.2

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
6.3	27.6	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

0.03	24,500	60	7,000	=	6.30	lb/hr
				=	27.6	tons/yr

POTENTIAL EMISSION CALCULATIONS

process rate (tons/hr) X emissions factor (lb/ton) = PTE

5	0.059	=	0.295	lb/hr
		=	1.3	tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.711(2)	2.1101

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/12/2012

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310509-006-AC **EU NUMBER:** 007

REFERENCES: Construction application, AP-42 Section 9.13.2

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
5.1	22.5	5	0.03gr/dscf	

allowable emission rate (gr/dscf) X flow rate (dscf/min) X (min/hr) / (gr/lb) = allowable emission (lb/hr PM)

0.03	20,000	60	7,000	=	5.1	lb/hr
				=	22.5	tons/yr

POTENTIAL EMISSION CALCULATIONS

process rate (tons/hr) X emissions factor (lb/ton) = PTE

5	0.059	=	0.295	lb/hr
		=	1.3	tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.711(2)	2.1101

COMMENTS:

PERMIT PROCESSOR: **DATE:** 9/12/2012

Effective 2/27/97