# 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**