FACILITY PERMIT REVIEW SHEET

DATE: 4/1/2011 **APPLICATION NUMBER:** 0310069-004-AO

FACILITY NAME: Packaging Corporation of America

FACILITY DESCRIPTION: Corrugated container manufacturing

PERMIT PROCESSOR: 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:** 001

MACT **EU NUMBER:** 001

RACT **EU NUMBER:** 001

NSPS **EU NUMBER:** 001

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM	1.8		
PM10			
SO2	3.9		
NOX	11.0		
CO	6.3		
VOC	0.4		
TOC			
PB			
TOTAL HAP	0.1		
SINGLE HAP (highest)	0.1		

COMMENTS: _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310069-004-AO **EU NUMBER:** 001 (#2 F.O.)

REFERENCES: AP-42, Section 1.3; 0310069-004-AO application

POLLUTANT: Nitrogen Oxides (NO_x)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

fuel usage (1000 gal/hr) x emission factor (lb/1000 gal) x (hr/yr) = PTE

0.125	20	8760	=	21900	lb/yr
			=	11.0	ton/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Carbon Monoxide (CO)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

fuel usage (1000 gal/hr) x emission factor (lb/1000 gal) x (hr/yr) = PTE

0.125	5	8760	=	5475	lb/yr
			=	2.7	ton/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Particulate Matter (PM)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
		20		

POTENTIAL EMISSION CALCULATIONS

fuel usage (1000 gal/hr) x emission factor (lb/1000 gal) x (hr/yr) = PTE

0.125	3.3	8760	=	3614	lb/yr
			=	1.8	ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.406	2.1101

COMMENTS: Emission factor is combined "Filterable PM" (=2) and "Condensable PM" (=1.3).

POLLUTANT: Sulfur Dioxide (SO_2)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

fuel usage (1000 gal/hr) x emission factor (lb/1000 gal) x weight % of sulfur x (hr/yr) = PTE

0.125	142	0.05	8760	=	7775	lb/yr
				=	3.9	ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.406	2.1101

COMMENTS: Maximum fuel oil sulfur content limited to 0.05% by weight.

POLLUTANT: Hazardous Air Pollutants (HAPs)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

fuel usage (1000 gal/hr) x emission factor (lb/1000 gal) x (hr/yr) = PTE

0.125	7.88E-02	8760	=	86.3	lb/yr
			=	0.0	ton/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS: Highest HAP, Formaldehyde (6.10E-2 lb/1000 gal) = 66.8 lb/yr.

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310069-004-AO **EU NUMBER:** 001 (NG)

REFERENCES: AP-42, Section 1.4; 0310069-004-AO application

POLLUTANT: Nitrogen Oxides (NO_x)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / heating value (Btu/ft^3) / (ft3/million ft^3) x emission factor (lb/million ft3) x (hr/yr) = PTE

1.75E+07	1030	1.00E+06	100	8760	=	14883	lb/yr
					=	7.4	ton/yr

RULE APPLICABILITY: **FEDERAL** **STATE** **LOCAL**

COMMENTS:

POLLUTANT: Carbon Monoxide (CO)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / heating value (Btu/ft^3) / (ft3/million ft^3) x emission factor (lb/million ft3) x (hr/yr) = PTE

1.75E+07	1030	1.00E+06	84	8760	=	12502	lb/yr
					=	6.3	ton/yr

RULE APPLICABILITY: **FEDERAL** **STATE** **LOCAL**

COMMENTS:

POLLUTANT: Particulate Matter (PM)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
		20		

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / heating value (Btu/ft^3) / (ft3/million ft^3) x emission factor (lb/million ft3) x (hr/yr) = PTE

1.75E+07	1030	1.00E+06	7.6	8760	=	1131	lb/yr
					=	0.6	ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.406	2.1101

COMMENTS: Emission factor is combined "Filterable PM" (=2) and "Condensable PM" (=1.3).

POLLUTANT: Sulfur Dioxide (SO_2)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / heating value (Btu/ft^3) / (ft3/million ft^3) x emission factor (lb/million ft3) x (hr/yr) = PTE

1.75E+07	1030	1.00E+06	0.6	8760	=	89.3	lb/yr
					=	0.04	ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.406	2.1101

COMMENTS:

POLLUTANT: Hazardous Air Pollutants (HAPs)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / heating value (Btu/ft^3) / (ft3/million ft^3) x emission factor (lb/million ft3) x (hr/yr) = PTE

1.75E+07	1030	1.00E+06	1.9	8760	=	281	lb/yr
					=	0.1	ton/yr

RULE APPLICABILITY: **FEDERAL** **STATE** **LOCAL**

COMMENTS: Highest HAP, Hexane (1.8 lb/million ft^3) = 268 lb/yr.

POLLUTANT: Volatile Organic Compounds (VOCs)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / heating value (Btu/ft^3) / (ft3/million ft^3) x emission factor (lb/million ft3) x (hr/yr) = PTE

1.75E+07	1030	1.00E+06	5.5	8760	=	819	lb/yr
					=	0.4	ton/yr

RULE APPLICABILITY: **FEDERAL** **STATE** **LOCAL**

COMMENTS:

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97