FACILITY PERMIT REVIEW SHEET

DATE: 7/26/2012 **APPLICATION NUMBER:** 0310572-002-AO

FACILITY NAME: SAFT America Inc.

FACILITY DESCRIPTION: Lithium Ion Battery Manufacturing Facility

PERMIT PROCESSOR: C. Blane Johnson

MAJOR FOR CRITERIA POLLUTANTS AND/OR HAP's (Circle)

PM SO_2 NO_X CO PB O_3 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	0.47	5	15
SO_2	0.04		
NO_X	5.81		
CO	2.47		
CO_2	7420		
O_3			
PB			
VOC	2.36		10
TOTAL HAP			
SINGLE HAP (highest)			

COMMENTS: _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310572-002-AO **EU NUMBER:** 001

REFERENCES: 0310572-002-AO application

POLLUTANT: VOC

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	10			

POTENTIAL UNCONTROLLED EMISSION CALCULATIONS

(ppmv) X (g/mole) of NMP / temperature in (°K) X conversion factor(mole-°K-mg/ppmv-g-$m^{3)}$ X (ft^3/min) / (ft^3/m^3) / (g/lb) / (mg/g) X (min/hr) = PTE

200	99.13	294.260	12.187	3000	35.30	454	1000	60

= 9.22 lb/hr
= 40.39 tpy

POTENTIAL EMISSION CALCULATIONS

(ppmv) X (g/mole) of NMP / temperature in (°K) X conversion factor(mole-°K-mg/ppmv-g-$m^{3)}$ X (ft^3/min) / (ft^3/m^3) / (g/lb) / (mg/g) X

10	99.13	294.260	12.187	3000	35.30	454	1000	60

= 0.46 lb/hr
= 2.02 tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL
	62-4.070(3)	2.1401

COMMENTS: Potential uncontrolled emissions are based on expected condenser outlet conditions and potential emissions are based on expected wet scrubber outlet conditions.

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310572-002-AO **EU NUMBER:** 002

REFERENCES: 0310572-002-AO application and AP-42 Section 1.4

POLLUTANT: Particulate Matter

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
5	15	5		

POTENTIAL EMISSION CALCULATIONS

heat input (MMBtu/hr) / (MMBtuU/MMft3) X AP-42 EF (lb/MMft^3) = PTE

14.4	1020	7.6	=	0.11	lb/hr
			=	0.47	tpy

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.700(2)(a)	2.1101
		62.296.320(4)(b)1	

COMMENTS:

POLLUTANT: Sulfur Dioxide (SO_2)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (MMBtu/hr) / (MMBtuU/MMft3) X AP-42 EF (lb/MMft^3) = PTE

14.4	1020	0.60	=	0.01	lb/hr
				0.04	tpy

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Nitrogen Oxides (NO_X)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (MMBtu/hr) / (MMBtuU/MMft3) X AP-42 EF (lb/MMft^3) = PTE

14.4	1020	94 =	1.33	lb/hr
			5.81	tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Carbon Monoxide (CO)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (MMBtu/hr) / (MMBtuU/MMft3) X AP-42 EF (lb/MMft^3) = PTE

14.4	1020	40 =	0.56	lb/hr
			2.47	tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Carbon Dioxide (CO_2)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (MMBtu/hr) / (MMBtuU/MMft3) X AP-42 EF (lb/MMft^3) = PTE

14.4	1020	120000	=	1694	lb/hr
				7420	tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: VOC

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

heat input (MMBtu/hr) / (MMBtuU/MMft3) X AP-42 EF (lb/MMft^3) = PTE

14.4	1020	5.50	=	0.08	lb/hr
				0.34	tpy

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97