FACILITY PERMIT REVIEW SHEET

DATE: 2/4/2011 APPLICATION NUMBER: 0310291-005-AO

FACILITY NAME: Exact Inc.

FACILITY DESCRIPTION: Metal finishing system

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: 001, 002, 003, 004 VOC's

NSPS EU NUMBER: _____

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM	0.04	5	15
PM10			
SO_2	0		
NO_X	0.49	3	2.34
CO	0.41		
VOC	11.83	4.73	14.14
TOC			
PB			
TOTAL HAP			
SINGLE HAP (highest)			

COMMENTS: EU 005 Visible Emissions (VE) shall not exceed 5% opacity.
Hours of operation = 16 hr/day, 6 days/week, 52 weeks/year, 312 days/year 4992 hr/yr.

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310291-005-AO **EU NUMBER:** 001, 002, 003, 004

REFERENCES: Permit 0310291-004-AO and application 0310291-005-AO

POLLUTANT: Volatile Organic Compounds (VOC's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
4.73	11.8		3.5 lb/gal	4992 hr/yr 6739.2 gal/y

POTENTIAL EMISSION CALCULATIONS

[application rate (gal/hr) x VOC concentration (lb/gal)] x operation time (hr/yr) = PTE

1.35	3.5	4992	=	23587 lb/yr
			=	11.8 ton/yr
			=	4.73 lb/hr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.513(2)(a)2	2.1101

COMMENTS: Maximum application rates as follows: EU 001, 002, and 003 = 0.36 gal/hr; EU 004 = 0.27 gal/hr. Therefore total capacity for facility is 1.35 gal/hr.

PERMIT PROCESSOR: C. Blanc **DATE:** 2/4/11

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310291-005-AO **EU NUMBER:** 005

REFERENCES: Permit 0310291-004-AO, application 0310291-005-AO, and AP-42

POLLUTANT: Nitrogen Oxides (NO_X)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
3	2.34			4992 hr/yr

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / natural gas heat capacity (Btu/scf) / conversion factor (scf/MMscf) x emission factor (lb/MMscf)

2.00E+06	1020	1.00E+06	100	=	0.20 lb/hr
				=	0.49 tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.500(3)(a)	2.1101

COMMENTS: Exempt from RACT, <15 lb/day and <3 lb/hr.
15 lb/day x 312 days/yr / 2000 lb/ton = 2.34 tons/yr

POLLUTANT: Carbon Monoxide (CO)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
				4992 hr/yr

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / natural gas heat capacity (Btu/scf) / conversion factor (scf/MMscf) x emission factor (lb/MMscf)

2.00E+06	1020	1.00E+06	84	=	0.16 lb/hr
				=	0.41 tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Particulate Matter - Total (PM_{total})

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
5	15	5		4992 hr/yr

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / natural gas heat capacity (Btu/scf) / conversion factor (scf/MMscf) x emission factor (lb/MMscf)

2.00E+06	1020	1.00E+06	7.6	=	0.01 lb/hr
				=	0.04 tons/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL
	62-296.320(4)(b)1 62-296.700(2)(a)	2.1101

COMMENTS: Exempt from RACT, <15 tons/yr and <5 lb/hr.

POLLUTANT: Sulfur Dioxide (SO_2)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
				4992 hr/yr

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / natural gas heat capacity (Btu/scf) / conversion factor (scf/MMscf) x emission factor (lb/MMscf)

2.00E+06	1020	1.00E+06	0.6	=	0.00 lb/hr
				=	0.00 tons/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Volatile Organic Compounds (VOC's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
3	2.34			4992 hr/yr

POTENTIAL EMISSION CALCULATIONS

heat input (Btu/hr) / natural gas heat capacity (Btu/scf) / conversion factor (scf/MMscf) x emission factor (lb/MMscf)

2.00E+06	1020	1.00E+06	5.5	=	0.01 lb/hr
				=	0.03 tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.500(3)(a)	2.1101

COMMENTS: Exempt from RACT, <15 lb/day and <3 lb/hr.
15 lb/day x 312 days/yr / 2000 lb/ton = 2.34 tons/yr

PERMIT PROCESSOR: C. Blanc Jr. **DATE:** 2/4/..

Effective 2/27/97