

TECHNICAL SUPPORT DOCUMENT (TSD)

I. GENERAL COMMENTS:

A. Company Information

Physical Address:

Catalina China, Inc.
D.B.A. HF Coors China Co.
1600 S. Cherrybell Stavenue,
Tucson, Arizona 85713

Mailing Address:

(Same as physical address)

B. Background

This facility previously operated under a one-year renewing air quality permit first issued in 1998. Since start-up the facility has operated as a manufacturer of ceramic goods and has not incurred any air quality violations.

This technical support document is a review of the permit renewal application dated January 12, 2006.

C. Attainment Classification

The facility is located in an area that is in attainment for all pollutants.

II. SOURCE DESCRIPTION

A. Process Description

Catalina China, Inc. (herein known as CCI) manufactures ceramic goods (plates, cups, mugs etc). The facility is permitted for operating a natural gas fired tunnel kiln. CCI requires a permit for operating fuel-burning equipment that is fired at a sustained rate of more than one million BTU per hour for more than eight hours per day (pursuant to PCC 17.12.140.B.3.c).

CCI is a true minor source for all regulated air pollutants.

B. Air Pollution Control Equipment

None.

III. REGULATORY HISTORY

A. Testing & Inspections

The facility has been permitted since 1990 and has undergone regular inspections to date. CCI has not incurred any past enforcement actions nor has there been any registered formal complaints.

The source is currently in compliance with their permit conditions.

B. Excess Emissions

The facility has submitted no reports of excess emissions.

IV. EMISSIONS ESTIMATES

The following emission rates are for reference purposes only and are not intended to be enforced by direct measurement unless otherwise noted in the Specific Conditions of the permit.

Pollutant	Potential Emissions Tons per Year
Nitrogen Oxides (NOx)	5.67
Carbon Monoxide (CO)	4.76
Volatile Organic Compounds (VOC)	0.31
Particulate Matter (as PM ₁₀)	0.43
Sulfur Oxides (SOx)	0.03
Hazardous Air Pollutants (HAPs – individual)	<0.1
Hazardous Air Pollutants (HAPs – total)	0.11

V. APPLICABLE REGULATIONS

Pima County Code (PCC) Title 17, Chapters:

- 17.12.190 Permits containing voluntarily accepted emissions limitations and standards
- 17.16.040 Standards and Applicability (Includes NESHAP)
- 17.16.165 Standards of performance for fossil-fuel fired industrial and commercial equipment.
- 17.20.010 Source Sampling, Monitoring, and Testing

VI. PERMIT CONTENTS

Specific Conditions

I. Applicability

II. Emission Limits and Standards

- A. Opacity Limitation PCC 17.16.040.A, PCC 17.16.040 & PCC 17.20.010
- B. Fuel Limitation PCC 17.12.190.B
- C. Facility Changes (when applicable): PCC 17.12.240, PCC 17.12.255 or PCC 17.12.260

Additional Permit Requirements

General applicable conditions required in all class II and III permits.

VII. ALTERNATE OPERATING SCENARIOS:

The applicant has not requested any alternate operating scenarios.

VII. IMPACTS TO AMBIENT AIR QUALITY

Not a major source thus no studies are required.

VIII. CONTROL TECHNOLOGY DETERMINATION

No control technologies needed to be determined; source is not subject to BACT or LAER. This is a ceramic goods manufacturing facility operating as a Class III, True Minor Stationary Source.

IX PREVIOUS PERMIT CONDITIONS

CCI is subject to PCC 17.16.165 (Standards of performance for fossil fuel fired industrial and commercial equipment), however this regulation has not been included in the Specific Conditions because none of the standards apply to the equipment. This regulation will only be included by reference in Attachment 1 of the permit as all applicable requirements have to be included in the permit.



CATALINA CHINA INC.
BRICESCO KILN CALCULATIONS

1-10-2007

Less than 100 million Btu - Small Boilers (AP-42 Table 1.4-1, 1.4-2, 1.4-3, 1.4-4)

Pollutants	(a) Maximum Capacity	(b) Emission Factor	(c) Emission Factor (b/1020)	(d) Conversion	(g) Emissions (axcxd)	Reviewer	Date
	(MMBtu/hr)	(lb/10 ⁶ SCF)	(lb/MMBtu)	(hrs/year) (lb/ton)	(tons/year)		
NOx	13.20	100.00	0.10	4.38	5.67	[Signature]	01-12-07
CO	13.20	84.00	0.08	4.38	4.76		
SOx	13.20	0.60	0.00	4.38	0.03		
VOC	13.20	5.50	0.01	4.38	0.31		
PM-10	13.20	7.60	0.01	4.38	0.43		
HAPS	13.20	1.88	0.00	4.38	0.11		

Total Emissions from all boilers

Pollutants	(e) Emissions from Large Wall Fired Boiler pre-NSPS	(f) Emissions from Large Wall Fired Boiler post-NSPS	(g) Emissions from Small Boilers	Total Emissions (e+f+g)	Reviewer	Date
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)		
NOx	0.00	0.00	5.67	5.67	[Signature]	01-12-07
CO	0.00	0.00	4.76	4.76		
SOx	0.00	0.00	0.03	0.03		
VOC	0.00	0.00	0.31	0.31		
PM-10	0.00	0.00	0.43	0.43		
HAPS	0.00	0.00	0.11	0.11		