

SAN BERNARDINO COUNTY
AIR POLLUTION CONTROL DISTRICT



172 WEST THIRD STREET • SAN BERNARDINO, CALIFORNIA 92401

Telephone: 383-1661
Extensions: 2676 x 486 x 889

Telephone: 383-1661

Note: This is a reference cited in AP 42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

PRESSURE SENSITIVE
TAPES AND LABELS
AP-42
Section 4.2.2.9
Reference Number
17

SOURCE TEST REPORT

conducted at

FASSON PRODUCTS
DIV. OF AVERY CORPORATION
CUCAMONGA, CALIFORNIA

on

January 26, 1972

Report on the No. 1 and No. 2 incinerators' conversion efficiency of hydro-carbon emissions from their respective adhesive coating machines.

by

ANTHONY F. SIDLOW

Senior Engineer

APPROVED

Donald M. Thomas MAR 16 1972
DONALD M. THOMAS
Acting Air Pollution Control Officer

INTRODUCTION

Fasson Products, a division of Avery Products Corporation, recently installed two incinerators to burn solvent emissions from their adhesive coating machines.

OBJECTIVE

This source test was made to determine hydrocarbon emissions from both incinerators and to assure that Fasson Products meets San Bernardino County Air Pollution Control District's Rules and Regulations, in particular Rule 66, F-1.

The results of this test will also be utilized for engineering data on emission control.

RESULTS

The tests for hydrocarbons at the inputs and outputs of incinerators No. 1 and No. 2 were run on January 26, 1972. The hydrocarbon input to No. 1 Incinerator was 7867 ppm. The output, with a controlled incinerator temperature of 1400°F, was 108 ppm. The conversion rate was calculated to be 97.5% (See following calculation sheet).

The hydrocarbon input to No. 2 Incinerator was 8400 ppm. The output with a controlled incinerator temperature of 1375°F, was 175 ppm. The conversion rate was calculated to be 96.2% (See following calculations sheet).

Both tests meet Rule 66, F-1 which requires a minimum of 90% conversion.

The hydrocarbon output by weight for No. 1 and No. 2 Incinerators was 1.90 lbs/hr and 4.15 lbs/hr, respectively.

RECOMMENDATIONS

The hydrocarbon conversion rates as stated in the test results were obtained with controlled incinerator temperatures of 1400°F and 1375°F, respectively. It is recommended that the incinerators be operated not less than 1300°F to assure continued compliance with Air Pollution Control District Rules.

DISCUSSION

Fasson Products, a division of Avery Corporation, applies adhesive coating to paper roll stock in a continuous feed-line operation. Immediately following this adhesive application the paper stock is fed through a dryer where the adhesive solvents are driven off and incinerated prior to emission.

A Beckman Hydrocarbon Analyzer, Model 109A, was used to determine input and output hydrocarbon concentrations in the incineration process. Controlled incinerator temperatures were varied to determine optimum operating points which were established at 1400°F and 1375°F for No. 1 and No. 2 coating lines, respectively.

This source test was conducted by Messrs. Sidlow, Gubay, Hilovsky, and Abatangelo of the Air Pollution Control District staff.

3/1/72

lb

SUMMARY: EMISSIONS TO ATMOSPHERE

Name of Firm: Fasson Products, Div. of Avery Corporation Date: 1/25/62
 Location: Cucamonga, California Test: 1
 Type of Operation: Paper Coating Process Process Weight: _____ lbs/hr
 Unit Tested: No. 1 Fume Incinerator
 Gas Flow Rate, SCFM: 6982 SCFM
 Gas Temperature, °F: 1400°F

	Measured Emissions	Allowable Emissions
Rule 52 Particulate Matter	_____ Grains per SCF	_____ Grains per SCF
Rule 53A Sulfur Compounds as SO ₂	_____ % by Vol. _____ lbs/hr	_____ % by Vol. _____ lbs/hr
Rule 53B Combustion Contaminants	_____ Grains per SCF @ 12% CO ₂	_____ Grains per SCF @ 12% CO ₂
Rule 54 Dust and Fumes	_____ lbs/hr	_____ lbs/hr
Rule 66 Solvents (Hydrocarbons measured as methane)	<u>7867</u> ppm inlet <u>108</u> ppm outlet <u>97.5</u> % Conversion <u>1.9</u> lbs/hr or _____ lbs/hr	<u>90</u> % Conversion _____ lbs/hr
CO ₂	_____ % by Vol.	
NO _x as NO ₂	_____ ppm by Vol.	
Other	_____	

 Comments:

SUMMARY: EMISSIONS TO ATMOSPHERE

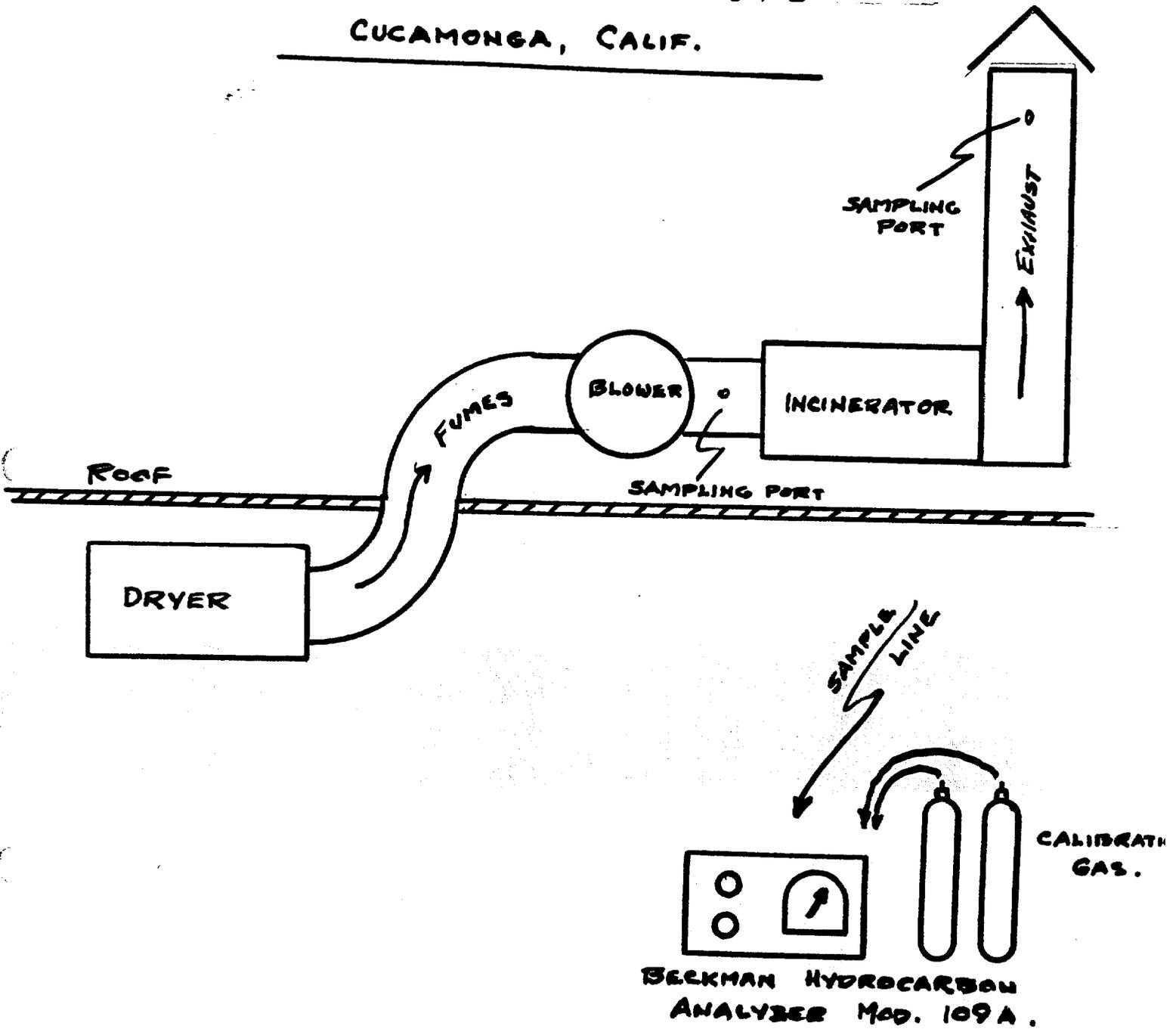
Name of Firm: Fasson Products, Div. of Avery Corporation Date: 1/26/72
 Location: Cucamonga, California Test: 1
 Type of Operation: Paper Coating Process Process Weight: _____ lbs/hr
 Unit Tested: No. 2 Fume Incinerator
 Gas Flow Rate, SCFM: 9261
 Gas Temperature, °F: 1375°F

	Measured Emissions	Allowable Emissions
Rule 52 Particulate Matter	_____ Grains per SCF	_____ Grains per SCF
Rule 53A Sulfur Compounds as SO ₂	_____ % by Vol.	_____ % by Vol
Rule 533 Combustion Contaminants	_____ lbs/hr	_____ lbs/hr
Rule 54 Dust and Fumes	_____ Grains per SCF @ 12% CO ₂	_____ Grains per SCF @ 12% C
Rule 66 Solvents (Hydrocarbons measured as methane)	_____ lbs/hr	_____ lbs/hr
	<u>8400</u> ppm inlet	
	<u>175</u> ppm outlet	
	<u>96.2</u> % Conversion	<u>90</u> % Conversion
	<u>4.15</u> lbs/hr	_____ lbs/hr
CO ₂	_____ % by Vol.	
NO _x as NO ₂	_____ ppm by Vol.	
Other	_____	

Comments: _____

FASSON PRODUCTS

CUCAMONGA, CALIF.



APCD TEST SET-UP

JAN 26 1972