

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.

AP42 Section:	9.13.2
Background Chapter	4
Reference:	9
Title:	Source Test Report For Volatile Organic Compounds And Carbon Monoxide Emissions From The Coffee Roaster 7D Thermal oxidizer At General Foods-Maxwell House Division, Hoboken, New Jersey, Air Consulting and Engineering, Inc., Gainesville, FL, May 9, 1991.

Emission Test Report Review Checklist--Short Form

Reviewer: TLAPP
Review Date: 8/21/94

A. Background Information

- Facility name: GENERAL FOODS CORP/ MAXWELL HOUSE DIV.
Location: Hoboken NJ
- Source category: COFFEE ROASTING
- Test date: MAY 9 1991
- Test sponsor: GENERAL FOODS
- Testing contractor: AIR CONSULTING & ENGINEERING INC.
- Purpose of test: COMPLIANCE TEST FOR VOC & CO
- Pollutants measured (include test method and indicate if valid):

<u>THC</u>	<u>EPA METHOD 25A</u>
<u>CO</u>	<u>" " 10</u>

APC PLANT
ID NO.
10082

- Process overview: Attach a process description and a block diagram. Identify processes tested with letters from the beginning of the alphabet (A, B, C, etc...) and APC systems with letters from the end of the alphabet (V, W, X, etc...). Also identify test locations with Arabic numerals (1,2,3, ...). Using the ID symbols from the diagram, complete the table below.

Test ID	Process	Process ID	Emissions tested		APCD (controlled emissions only)
			Uncontrolled	Controlled	
	COFFEE ROASTAL ID AFI00BURNER	NJ # 067			ID: Type: Model #:
					ID: Type: Model #:
					ID: Type: Model #:
					ID: Type: Model #:

B. Process Information

1. Provide a brief narrative description of the process and attach process flow diagram. (Note: If the process description provided in the test report is adequate, attach a copy here.)

See attached pages

Filename: COFFEE9.WQ1

D. Emission Data/Mass Flux Rates/Emission Factors

Test ID	Parameter	Units	Values reported			
			Run 2	Run 3	Run 4	AVG.
1	Stack temperature	Deg F	1593	1590	1586	
ROASTER-- AFTERBURNE OUTLET	Moisture	%	29.9	30.9	28.7	
	Oxygen	%	11.8	11.3	11.7	
	Volumetric flow, actual	acfm	16076	15612	15716	
	Volumetric flow, standard*	dscfm	2907	2786	2901	
	Isokinetic variation	%	NA	NA	NA	
Circle: Production or feed rate Capacity:		TPH	2.401	2.399	2.400	
	Pollutant concentrations:					
	THC as methane	ppmdv	1.29	3.48	2.52	
	CO	ppmdv	33.6	43.2	32.9	
	Pollutant mass flux rates:					
	THC as methane	lb/hr	0.00937	0.0242	0.0183	
	CO	lb/hr	0.426	0.525	0.416	
	Emission factors (ENGLISH UNITS):					AVERAGE
	THC as methane	lb/ton	0.00390	0.01010	0.00761	0.00720
	CO	lb/ton	0.177	0.219	0.173	0.190
	Emission factors (METRIC UNITS):					AVERAGE
	THC as methane	kg/Mg	0.00195	0.00505	0.00380	0.00360
	CO	kg/Mg	0.0887	0.109	0.0867	0.0950

D. Emission Data/Mass Flux Rates/Emission Factors

[illegible]

NO PROCESS DATA!
VOID

Section 4 Reference ☒
AP-42 Reference ☐

#10

Emission Test Report Review Checklist--Short Form

Reviewer: TLAPP
Review Date: 8/22/94

A. Background Information

1. Facility name: MELITTA USA INC. APC PLANT No. 50365
Location: CHERRY HILL
2. Source category: COFFEE ROASTING
3. Test date: OCTOBER 15 1991
4. Test sponsor: MELITTA
5. Testing contractor: AIR NOVA, INC
6. Purpose of test: COMPLIANCE TEST
7. Pollutants measured (include test method and indicate if valid):
TOTAL PARTICULATE NS TEST METHOD 1
THC NS TEST METHOD 3-7
CO EPA METHOD 10

8. Process overview: Attach a process description and a block diagram. Identify processes tested with letters from the beginning of the alphabet (A, B, C, etc...) and APC systems with letters from the end of the alphabet (V, W, X, etc...). Also identify test locations with Arabic numerals (1,2,3, ...). Using the ID symbols from the diagram, complete the table below.

Test ID	Process	Process ID	Emissions tested		APCD (controlled emissions only)
			Uncontrolled	Controlled	
	PROBAT CATALYZER (INLET/OUTLET)	NT STACK No. 020			ID: Type: Model #:
	↑ COFFEE ROASTING				ID: Type: Model #:
					ID: Type: Model #:
					ID: Type: Model #:

Process Description —
(see attached pages)

Control device is a catalytic incinerator

INLET/OUTLET

INLET/OUTLET

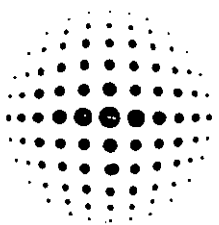
2.0 SITE INFORMATION

The emission control device under evaluation is a Probat catalyzer designed for the control of waste air from the roasting operation by catalytic post-combustion of the odorous gases. The catalyzer consists of a filter-like hollow cylinder made of an active substrate situated in a conical insulated casing. The catalytic reaction of the Volatile Organic Compounds (VOCs) takes place at a temperature which is available during the roasting process following the hot-air furnace. Following treatment, the exhaust gases are routed to atmosphere.

Outlet emission sampling was conducted in a vertical section of 14 inch ID exhaust ducting. Two sample ports situated 90° apart were used for sampling traverses. The ports were situated 10.9 duct diameters downstream and 1.1 duct diameters upstream from any flow disturbance.

Inlet sampling was conducted in a vertical section of 13 inch ID ducting located 1 duct diameter downstream and 1 duct diameter upstream from the nearest flow disturbance. Two sample ports situated 90° apart were utilized for all sampling.

A system diagram, indicating the test locations is presented in Figure 2-1.



AirNova, Inc.

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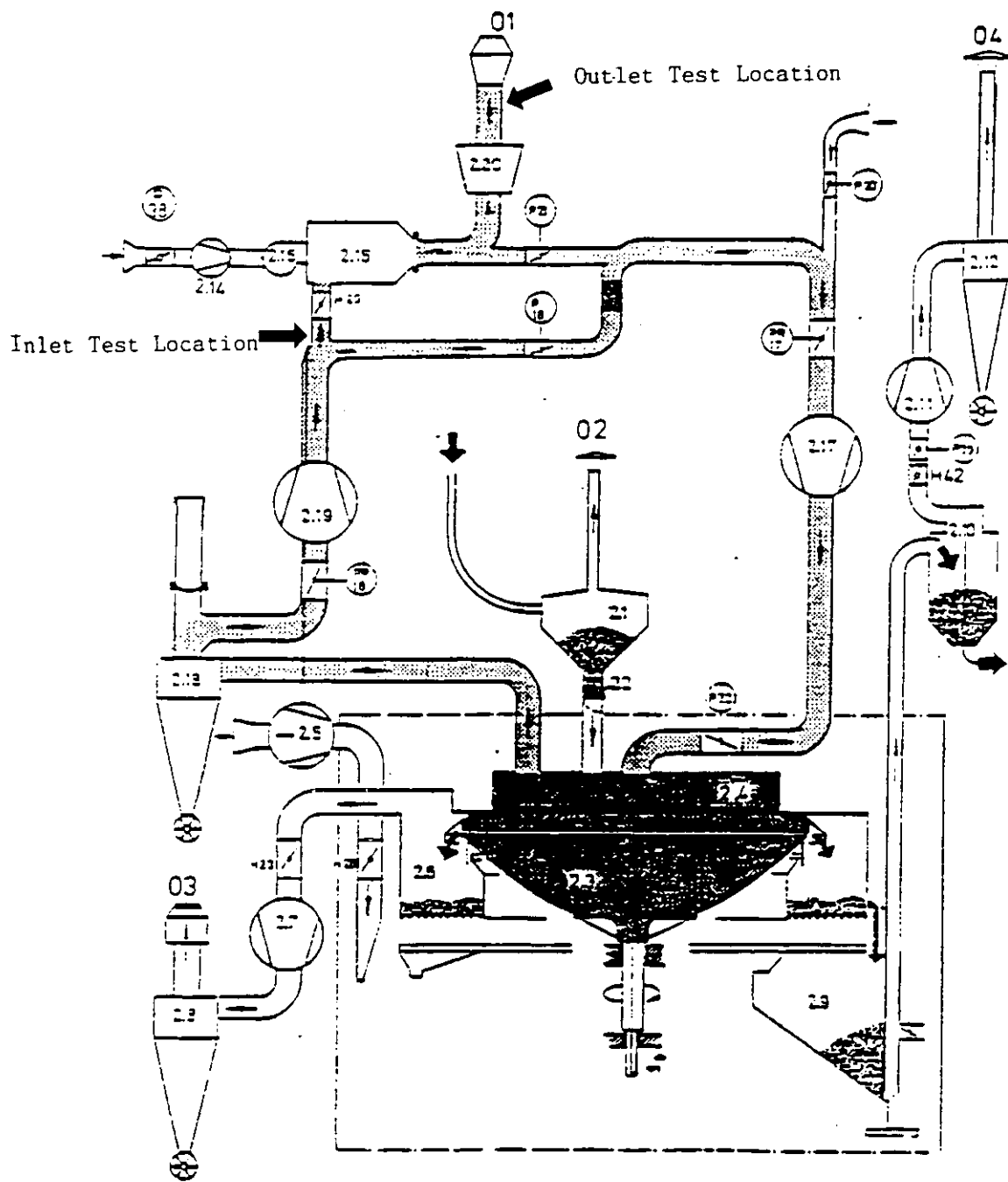


Figure 2-1 Emission Test Locations