AP42 Section:	9.13.2
Background Chapter	4
Reference:	11
Title:	Melitta USA, Inc., Blaw Knox Roaster Emission Compliance Test Program, AirNova, Inc., Pennsauken, NJ, February 1992.

(#11)

Section 4 Reference ✓
AP-42 Reference ___

Emission Test Report Review Checklist--Short Form

Reviewer: T. RAPP
Review Date: 8/22/94

A. Background Information

1. Facility name: MELITTA INC. APC PLANT ID NO. 50365
   Location: CHERRY HILL NJ
2. Source category: COFFEE ROASTING
3. Test date: JANUARY 7, 1992
4. Test sponsor: MELITTA
5. Testing contractor: AIRNOVA, INC.
6. Purpose of test: COMPLIANCE FOR TOTAL PARTICULATE THC and CO
7. Pollutants measured (include test method and indicate if valid):

TOTAL PARTICULATE	NJ TEST METHOD 1
THC (AS METHANE)	NJ TEST METHOD 3-7
CO	EPA METHOD 10
INLET CO_2	" " 3 (ORSAT)
INLET CO_2	" " 3A

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: Uncontrolled	Emissions tested: Controlled	APCD (controlled emissions only)
	O_2 AFTERBURNER	NJ STACK NO. 019			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: COFFEE11.WQ1

D. Emission Data/Mass Flux Rates/Emission Factors

Test ID	Parameter	Units	Values reported			
			Run 1	Run 2	Run 3	Run 4
1	Stack temperature	Deg F	500	661	665	
ROASTER--AFTERBURNE INLET	Moisture	%	17.9	18.1	18.1	
	Oxygen	%	16.5	14.8	15.1	
	Volumetric flow, actual	acfm	ND	ND	ND	
	Volumetric flow, standard*	dscfm	873	575	607	
	Isokinetic variation	%	NA	NA	NA	
Circle: Production or feed rate Capacity:		TPH	0.93	0.93	0.54	
	Pollutant concentrations:					
	THC as methane	ppmdv	433	344	369	
	CO2	% vol.	2.3	3.3	3.3	
	Pollutant mass flux rates:					
	THC as methane	lb/hr	0.944	0.494	0.560	
	CO2	lb/hr	138	130	137	
	Emission factors (ENGLISH UNITS):					AVERAGE
	THC as methane	lb/ton	1.02	0.531	1.04	0.861
	CO2	lb/ton	148	140	254	181
	Emission factors (METRIC UNITS):					AVERAGE
	THC as methane	kg/Mg	0.508	0.266	0.518	0.430
	CO2	kg/Mg	74.0	69.9	127	90.3

Filename: COFFE11A.WQ1

D. Emission Data/Mass Flux Rates/Emission Factors

Test ID	Parameter	Units	Values reported			
			Run 1	Run 2	Run 3	Run 4
2	Stack temperature	Deg F	1165	1216	1173	
ROASTER--AFTERBURNE OUTLET	Moisture	%	17.4	15.3	16.7	
	Oxygen	%	13.3	13.6	13.4	
	Volumetric flow, actual	acfm	ND	ND	ND	
	Volumetric flow, standard*	dscfm	1347	1564	1533	
	Isokinetic variation	%	109	102	108	
Circle: Production or feed rate Capacity:		TPH	0.93	0.93	0.54	
	Pollutant concentrations:					
	Filterable PM	G/dscf	0.001	0.002	0.006	
	THC as methane	ppmdv	25.1	14	15.5	
	CO	ppmdv	90.6	84.8	92.1	
	CO2	%	4.14	3.93	4.23	
	Pollutant mass flux rates:					
	Filterable PM	lb/hr	0.0115	0.0268	0.0788	
	THC as methane	lb/hr	0.0845	0.0547	0.0594	
	CO	lb/hr	0.532	0.579	0.616	
	CO2	lb/hr	382	421	444	
	Emission factors (ENGLISH UNITS):					AVERAGE
	Filterable PM	lb/ton	0.0124	0.0288	0.146	0.0624
	THC as methane	lb/ton	0.0908	0.0588	0.1099	0.0865
	CO	lb/ton	0.572	0.622	1.14	0.778
	CO2	lb/ton	411	453	823	562
	Emission factors (METRIC UNITS):					AVERAGE
	Filterable PM	kg/Mg	0.00621	0.0144	0.0730	0.0312
	THC as methane	kg/Mg	0.0454	0.0294	0.0550	0.0433
	CO	kg/Mg	0.286	0.311	0.570	0.389
	CO2	kg/Mg	205	226	411	281

D. Emission Data/Mass Flux Rates/Emission Factors

INLET/OUTLET

Test ID	Parameter	Units	Values reported			
			Run 1	Run 2	Run 3	Run 4
	Stack temperature	°F	500/1165	661/1216	665/1173	
	Moisture	%	17.9/17.4	18.1/15.3	18.1/16.7	
	Oxygen	%	16.5/13.3	14.8/13.6	15.1/13.4	
	Volumetric flow, actual		ND	ND	ND	
	Volumetric flow, standard	dsctm	873/1347	575/1564	607/1533	
	Percent isokinetic		109	102	108	
Circle: Production or (feed rate) Capacity:		lbs/hr	1860	1860	1080	all attached sheets
	Pollutant concentrations:					
	PARTICULATE OUTLET	GRAMS	0.0026	0.0040	0.0137	
	Pollutant mass flux rates:					
	PARTICULATE OUTLET	gr/dscf	0.001	0.002	0.006	
	THC (AS METHANE) INLET	ppmv(d)	433	344	369	
	OUTLET	ppmv(d)	25.1	14.0	15.5	
	Emission factors: Rate					
	PARTICULATE OUTLET	lbs/hr	0.01	0.02	0.07	
	THC (AS METHANE) INLET	lbs/hr	0.94	0.49	0.56	
	OUTLET	lbs/hr	0.08	0.06	0.06	