GLOBAL TIRE RECYCLING OF SUMTER COUNTY, INC. AC/AO PERMIT APPLICATION Facility ID # 1190028

Wildwood, Florida

SES Project No. 07P189

Dept. of Environmental Protection

APR 17 2007

Southwest District

Prepared By:

SOUTHERN ENVIRONMENTAL SCIENCES, INC.

1204 North Wheeler Street Plant City, Florida 33563

Prepared For:

GLOBAL TIRE RECYCLING OF SUMTER COUNTY, INC.

1201 Industrial Drive Wildwood, Florida 34785



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

	7. Facility Owner/Company Name: GLOBAL TIRE RECYCLING OF SUMTER COUNTY, INC.					
2.	Site Name: WILDWOOD FACILITY					
3.	Facility Identification Number:119	0028	[] Unknown		
4.	Facility Location: Street Address or Other Locator: 1	201 INDU	STRIAL DRIVE			
	City: WILDWOOD	County: S	UMTER	Zip Code: 34785		
5.	Relocatable Facility?	-	6. Existing I	Permitted Facility?		
	[] Yes [X] No		[X] Yes	[] No		
Ar	pplication Contact					
Na	me and Title of Application Contac MARK J. BAILEY, V		SIDENT, PLAN	T OPERATIONS		
2.	Application Contact Mailing Addr Organization/Firm: GLOBAL TIRE		NG OF SUMTE	R COUNTY, INC.		
	Street Address: 1201 INDUSTRIAL	DRIVE				
	City: WILDWOOD	Sta	ite: FL	Zip Code: 34785		
3.	Application Contact Telephone Nu	ımbers:				
	Telephone: (352) 330-2213 Fax: (352) 330-2214					
<u>A</u> p	Application Processing Information (DEP Use)					
1.	1. Date of Receipt of Application: 4/17/2007					
2.	Permit Number:	1190	028-005	-AC + 1190028-006-AD		

1

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)
[X] Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.
[] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.
Current construction permit number:
[] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.
Current construction permit number:
Operation permit number to be revised:

] Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

[]	Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason
		for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised:

Reason for revision:

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- [] Air construction permit to construct or modify one or more emissions units.
- [] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- [X] Air construction permit for one or more existing, but unpermitted, emissions units.

2

Owner/Authorized Representative

	7. Name and Title of Owner/Aut MARK J. BAILEY,	thorized Representative VICE PRESIDENT, PLA			
2.	Owner/Authorized Representative Mailing Address: Organization/Firm: GLOBAL TIRE RECYCLING OF SUMTER COUNTY, INC. Street Address: 1201 INDUSTRIAL DRIVE				
	City: WILDWOOD	State: FL	Zip Code: 34785		
3.	Owner/Authorized Representative Telephone: (352) 330-2213	•	52) 330-2214		
4.	Owner/Authorized Representative	· · · · · · · · · · · · · · · · · · ·	,		
	I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.				
	Mark Briley	· · · · · · · · · · · · · · · · · · ·	4-13-07		
	Signature		Date		

^{*} Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: RAMA IYER

Registration Number: 56919

2. Professional Engineer Mailing Address:

Organization/Firm: SOUTHERN ENVIRONMENTAL SCIENCES, INC.

Street Address: 1204 NORTH WHEELER STREET

City: PLANT CITY

State: FL

Zip Code: 33563

3. Professional Engineer Telephone Numbers:

Telephone: (813) 752-5014

Fax: (813) 752-2475

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

Signature

Signature

STATE OF

WEST

STATE

ST

Amil 16, 2007

GLOBAL TRIE RECYCING OF SUMTER COUNTY, INC.

Date

* Attach any exception to certification statement.

DEP Form No. 62-210.900(3) - Form

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	CRUMB RUBBER MANUFACTURING PLANT	AC1F	250.00
001	CRUMB RUBBER MANUFACTURING PLANT	AO2B	1000.00
`		-	
		1	

Application Processing Fee

Check one: [X] Attached - Amount: \$ 1250.00 [] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

This facility consists of waste tire receiving, storage and staging areas; a rotary shear type tire shredder; two cracker mills in series with air separation screens; three fine grind mills in parallel with air separation screens; intermediate and final product storage bins; and final product bagging and bulk loadout bins.

In the process, waste tires are passed through a shredder that reduces the tires to 2-4 inch chips. The chips are then passed through two cracker mills that further reduces the size of the chips and separates the fiber, metal tread and cord material from the rubber. The metal is removed with magnets and the fiber and any other foreign material is removed on air aspirated screening tables and gravity tables. The separation process results in debris free rubber 1/8 to 3/8 inch in diameter. Oversized rubber is fed back into the cracker mills. Fine grinding mills then reduce the rubber to mesh-sized crumb rubber product. Each fine grind mill is followed by and air aspirated screening operation. Oversize material is feed back to the fine grind mills. The final product is then conveyed via a screw elevator to a loadout hopper for bagging or bulk shipment to customers.

Particulate emissions from the air aspirated screening processes are vented through a common baghouse before being discharged to the atmosphere.

6

- 2. Projected or Actual Date of Commencement of Construction: NA
- 3. Projected Date of Completion of Construction: NA

Application Comment

Permittee inadvertently allowed AO permit to expire for this facility and is applying simultaneously for an AC/AO permit.

DEP Form No. 62-210.900(3) - Form

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	dinates:			
	Zone: 17	East (km):	397	7.53 Nort	th (km): 3192.08
2.	Facility Latitude/Lo	_			
	Latitude (DD/MM/	SS): 28/51/14		Longitude (DD/MN	A/SS): 82/03/02
3.	Governmental	4. Facility Status	5.	Facility Major	6. Facility SIC(s):
	Facility Code: 0	Code: A		Group SIC Code:	3011
		•		30	
7	Equility Commont (Timit to 500 abordatora).		<u> </u>	
7.	racinty Comment (limit to 500 characters):			

Facility Contact

	7. Name and Title of Facility Contact: MARK J. BAILEY, VICE PRESID		ERATIONS		
2.	Facility Contact Mailing Address: Organization/Firm: GLOBAL TIRE RECY	CLING OF SUM	FER COUNTY,MINC.		
	Street Address: 1201 INDUSTRIAL DRIVE				
	City: WILDWOOD	State: FL	Zip Code: 34785		
3.	Facility Contact Telephone Numbers: Telephone: (352) 330-2213	Fax: (352) 330-2214		

Facility Regulatory Classifications

Check all that apply:

1.	[] Small Business Stationary Source? [X] Unknown
2.	[] Synthetic Non-Title V Source?
3.	[] Synthetic Minor Source of Pollutants Other than HAPs?
4.	[] Synthetic Minor Source of HAPs?
5.	[] One or More Emissions Units Subject to NSPS?
6.	[] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?
	7.	Facility Regulatory Classifications Comment (limit to 200 characters):
	T	This facility is a natural minor source of both haps and criteria pollutants
1		

Rule Applicability Analysis

General Pollutant Emissions Limiting Standards, 17-296.320, FAC Exceptions and Approval of Alternate Procedures and Requirements 17-297.620, FAC. Five percent VE on baghouse exhaust in lieu of stack testing.

8

DEP Form No. 62-210.900(3) - Form

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for	5. Pollutant
Emitted	Classii.	lb/hour	tons/year	Emissions Cap	Comment
PM	В				
	-				
1		I	l	1	

9

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Area Map Showing Facility Location:
	[X] Attached, Document ID:A [] Not Applicable [] Waiver Requested
2.	Facility Plot Plan:
	[X] Attached, Document ID: B [] Not Applicable [] Waiver Requested
3.	Process Flow Diagram(s):
i	[X] Attached, Document ID:C [] Not Applicable [] Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:
	[X] Attached, Document ID: [] Not Applicable [] Waiver Requested
5.	Supplemental Information for Construction Permit Application:
	[] Attached, Document ID: [X] Not Applicable
0.	Supplemental Requirements Comment:

DEP Form No. 62-210.900(3) - Form

Emissions Unit Information Section	1	of	1
------------------------------------	---	----	---

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

Emissions Unit Information Section1 of1_						
En	Emissions Unit Control Equipment					
	4. Control Equipment/Method Des	cription (limit to 200 characters pe	er device or method):			
	BAGHOUSE					
	5/10/1002					
2.	Control Device or Method Code(s):	18				
En	nissions Unit Details					
	Package Unit:					
••	Manufacturer: MAC ENVIRONMENT	AL Model Number: 144WMCF33	8			
2.	Generator Nameplate Rating:	MW				
3.	Incinerator Information: Dwell Temperator	uro'	°F			
	Dwell Ti		seconds			
	Incinerator Afterburner Temperator	ure:	°F			
En	nissions Unit Operating Capacity a	nd Schedule				
1.	Maximum Heat Input Rate:		mmBtu/hr			
2.	Maximum Incineration Rate:	lb/hr	tons/day			
3.	Maximum Process or Throughput R	ate: 29,000 LBS/HR, TIRE SHREDE	DING			
4.	Maximum Production Rate: 6000 L		R			
5.	Requested Maximum Operating Sch					
		ours/day	days/week			
		eeks/year	8760 hours/year			
	 Operating Capacity/Schedule Comment (limit to 200 characters): Throughput Rate: is lbs/hr of whole passenger tire equivalents (WTEs) Production Rate: is lbs/hr of mesh size crumb rubber. 					
	Max. Rates of individual Units: Shredder-14.5 tph, Primary Cracker Mill- 8 tph, Secondary Cracker Mill – 7 tph, Three Fine Grind Mills (total) – 3 tph, Air Separators – 8 tph					
	The maximum annual production rate of crumb rubber is limited by the production rate of the 3 parallel fine grind mills. The maximum projected annual production rate is 20,000 tons of mesh size crumb rubber beads.					

DEP Form No. 62-210.900(3) - Form Effective: 2/11/99

12

Emissions Unit Information Section ___1__ of ___1__

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

	Identification of Point on Pl Flow Diagram?		2. Emission Point Type Code: 1					
	Descriptions of Emission Post 100 characters per point): He ID Numbers or Description	lorizontal bagho	use vent					
		· · · · · · · · · · · · · · · · · · ·						
5.	Discharge Type Code:	6. Stack Height 50 feet	ht:	7. Exit Diameter: APPROX 1.5 feet				
8.	Exit Temperature: 90°F	9. Actual Vol Rate: 39000	umetric Flow acfm	10. Water Vapor: 3 %				
11.	Maximum Dry Standard Flo	ow Rate: dscfm	12. Nonstack Emission Point Height: feet					
13.	Emission Point UTM Coord	dinates:						
	Zone: 17	East (km): 397.53	Nort	h (km): 3192.08				
14	Emission Point Comment (limit to 200 char	acters):					

Segme	C. SEGN ent Description and Ra	MENT (PROCE te: Segment	,		MATION	
	gment Description (Pro-				ters):	
	WASTE DISPOSAL		•		•	
		,				
4.	Source Classification (2650000002	Code (SCC):	3. SCC Unit	s: TO	NS PROCESSED	
5.	Maximum Hourly Rate: 14.5	4. Maxim		6.	Estimated Annual Activity Factor:	
7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC						
10. Se	egment Comment (limit inal product is clean gra					
10. Se						
10. Se		nular sized rubbe	er beads			
10. Se	nal product is clean gra	nular sized rubbe	of	harac	cters):	
10. Se	nal product is clean grai	nular sized rubbe	of	harao	cters):	
10. Se	nal product is clean grai	nular sized rubbe	of	harao	cters):	
10. Se	nal product is clean grai	nular sized rubbe	of	harac	eters):	
10. Se Fi Segmo	nal product is clean grai	nular sized rubbe	of		cters):	
10. Se Fi Segmo 1. Se 2. So	ent Description and Raggment Description (Pro-	nular sized rubbe nte: Segment cess/Fuel Type)	of of		Estimated Annual Activity Factor:	
10. Se Fi Segmo 1. Se 2. Sc 4. M	ent Description and Ragment Description (Product Classification Cod	nular sized rubbe nte: Segment cess/Fuel Type)	of of (limit to 500 control of Annual Rate:	s: 6.	Estimated Annual Activity	

DEP Form No. 62-210.900(3) - Form Effective: 2/11/99

14

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM	2. Pollutant Regulatory Code: WP						
3. Primary Control Device 4. Secondary Code: 18 Code:	Control Device 5. Total Percent Efficiency of Control:99.9						
6. Potential Emissions: .46 lb/hour	7. Synthetically Limited? 2.0 tons/year []						
8. Emission Factor:	1) Emissions Method Code:						
Reference:	2						
2) Calculation of Emissions (limit to 600 char	racters):						
20,000 TPY x 5% (cord & fiber) + 20,000 TPY TPY to baghouse 2000 TPY x (1999) = 2 TPY/8760 hrs/yr = 0	/ x 5% (rubber dust & foreign material) = 2,000						
Pollutant Potential Emissions Comment (li Amount Entering Baghouse:	,						
Allowable Emissions Allowable Emissions	_NA of						
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:						
3. Requested Allowable Emissions and Units	: 4. Equivalent Allowable Emissions:						
	lb/hour tons/year						
5. Method of Compliance (limit to 60 charact	ters):						
6. Allowable Emissions Comment (Desc. of	Operating Method) (limit to 200 characters):						

DEP Form No. 62-210.900(3) - Form Effective: 2/11/99

15

E. VISIBLE EMISSIONS INFORMATION (Only Emissions Units Subject to a VE Limitation)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation of 1. Visible Emissions Subtype: VE05 2. Basis for Allowable Opacity: [X] Rule 1 Other 3. Requested Allowable Opacity: Normal Conditions: 5 % **Exceptional Conditions:** 20% Maximum Period of Excess Opacity Allowed: 6 min/hour 4. Method of Compliance: EPA METHOD 9 5. Visible Emissions Comment (limit to 200 characters): 62-296.320 & 62-297.620 F. CONTINUOUS MONITOR INFORMATION (Only Emissions Units Subject to Continuous Monitoring) <u>Continuous Monitoring System:</u> Continuous Monitor NA of _____ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement:] Rule [] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment (limit to 200 characters):

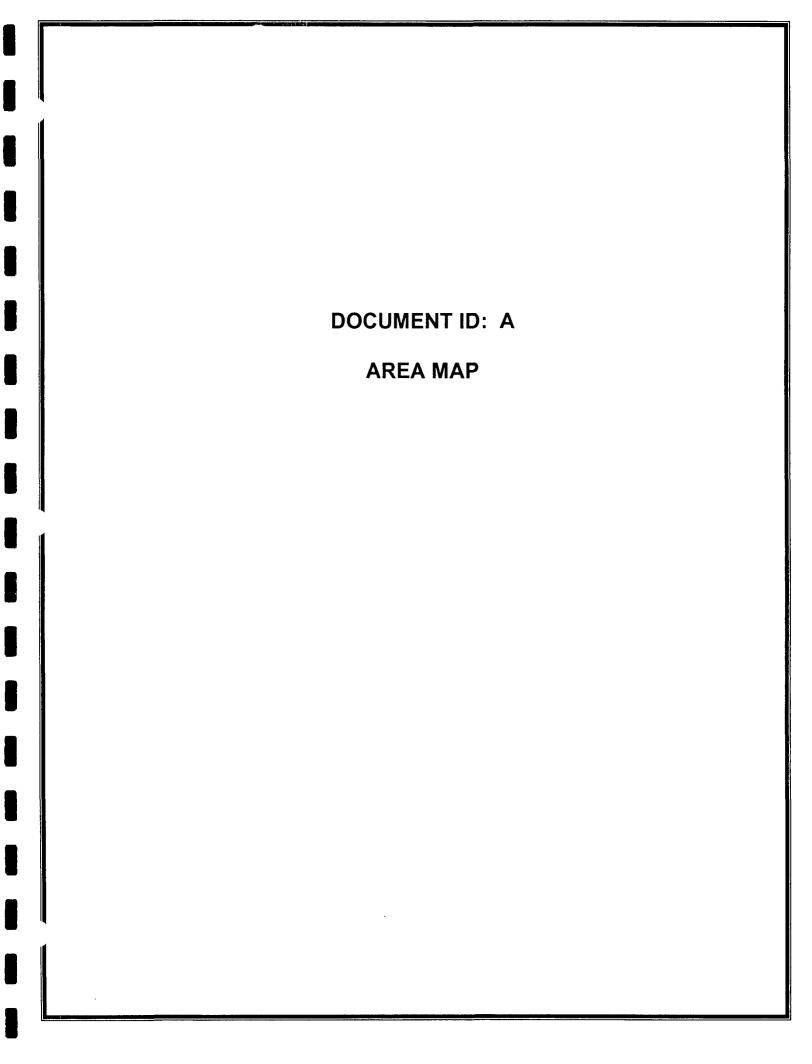
DEP Form No. 62-210.900(3) - Form

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Process Flow Diagram [X] Attached, Document ID:C [] Not Applicable [] Waiver Requested
	Fuel Analysis or Specification [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment [X] Attached, Document ID:E_ [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	[X] Previously submitted, Date:4/12/07
	[] Not Applicable
6.	Procedures for Startup and Shutdown [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [] Not Applicable
10.	Supplemental Requirements Comment:
1	

DEP Form No. 62-210.900(3) - Form





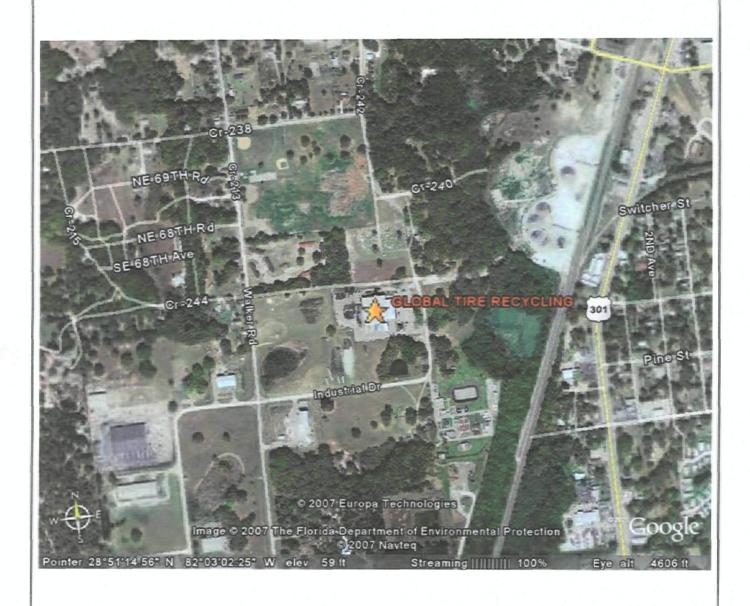
Area Map:

Global Tire Recycling of Sumter County, Inc. 1201 Industrial Dr., Wildwood, FL Lat: 28/51/14 Long: 82/03/02

SOUTHERN ENVIRONMENTAL SCIENCES, INC.

1204 N. Wheeler Street
Plant City, Florida 33563-2354
(813) 752-5014

Fax (813) 752-2475

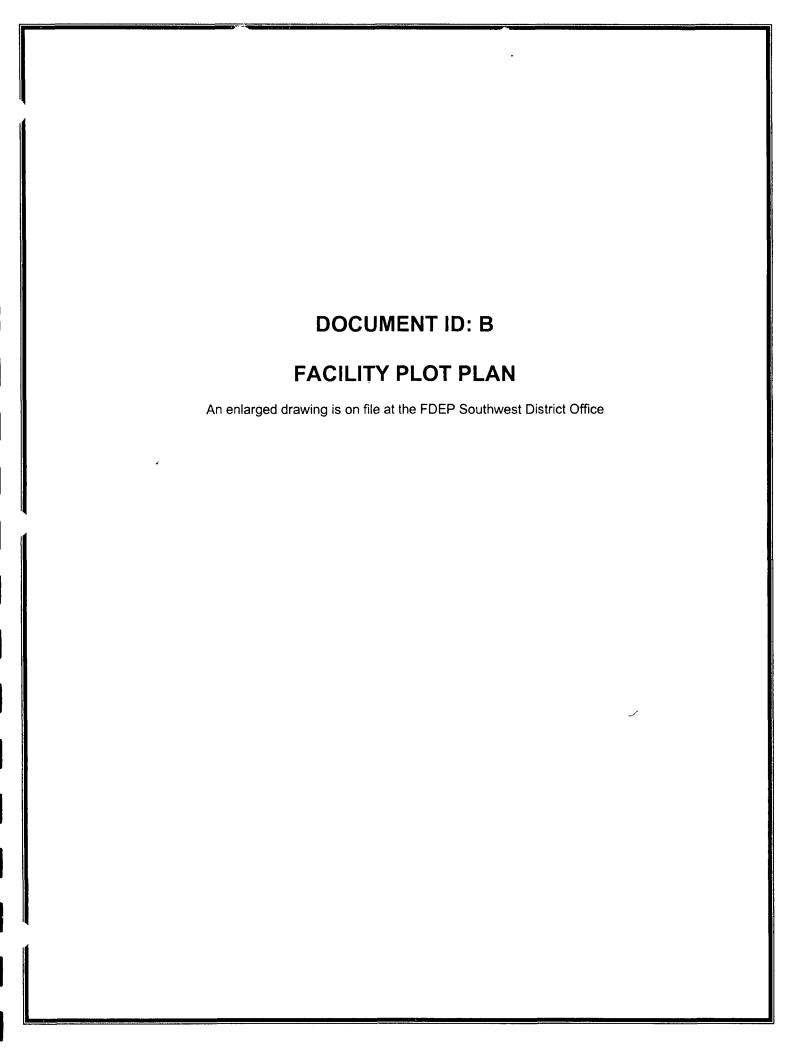


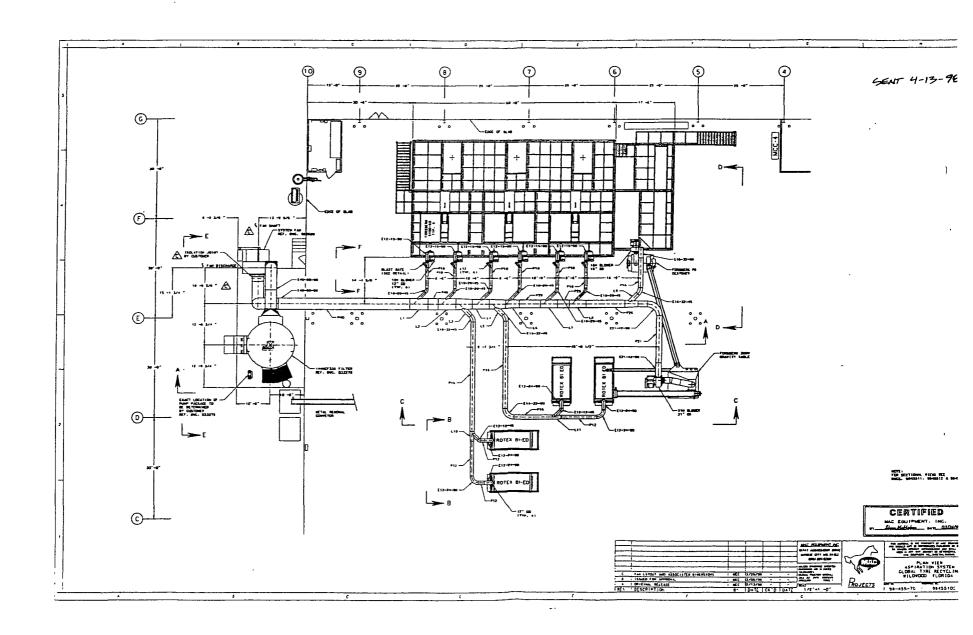
Area Map:

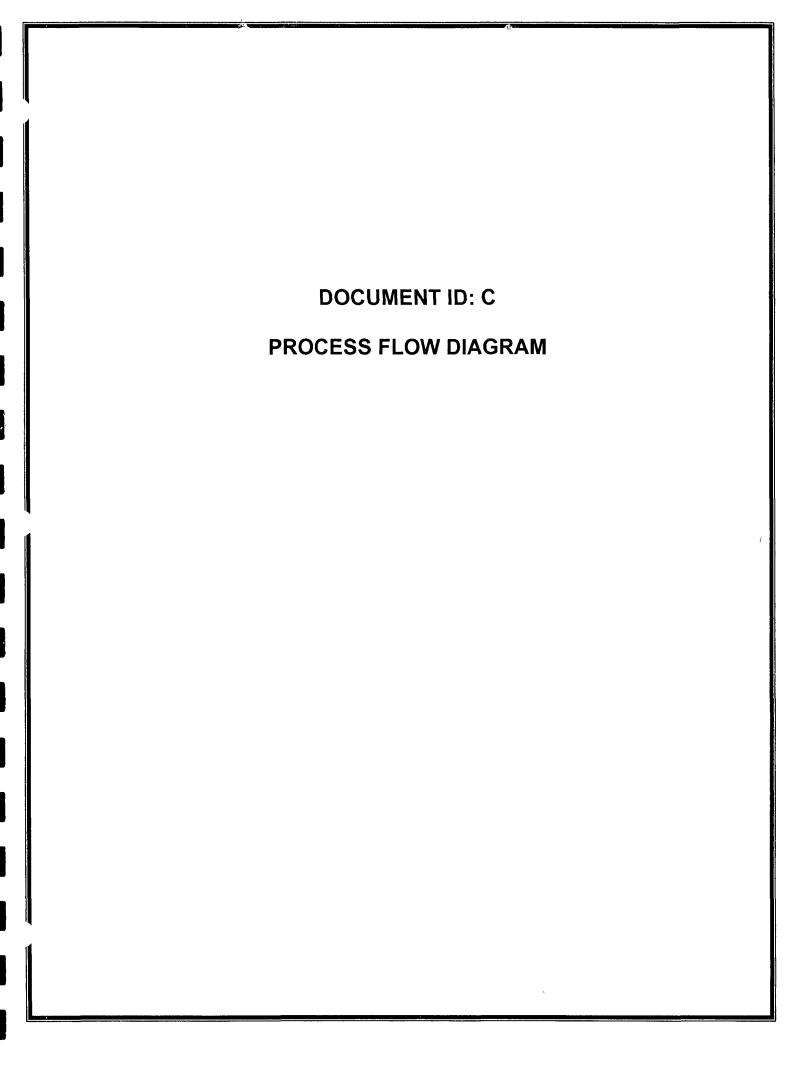
Global Tire Recycling of Sumter County, Inc. 1201 Industrial Dr., Wildwood, FL Lat: 28/51/14 Long: 82/03/02

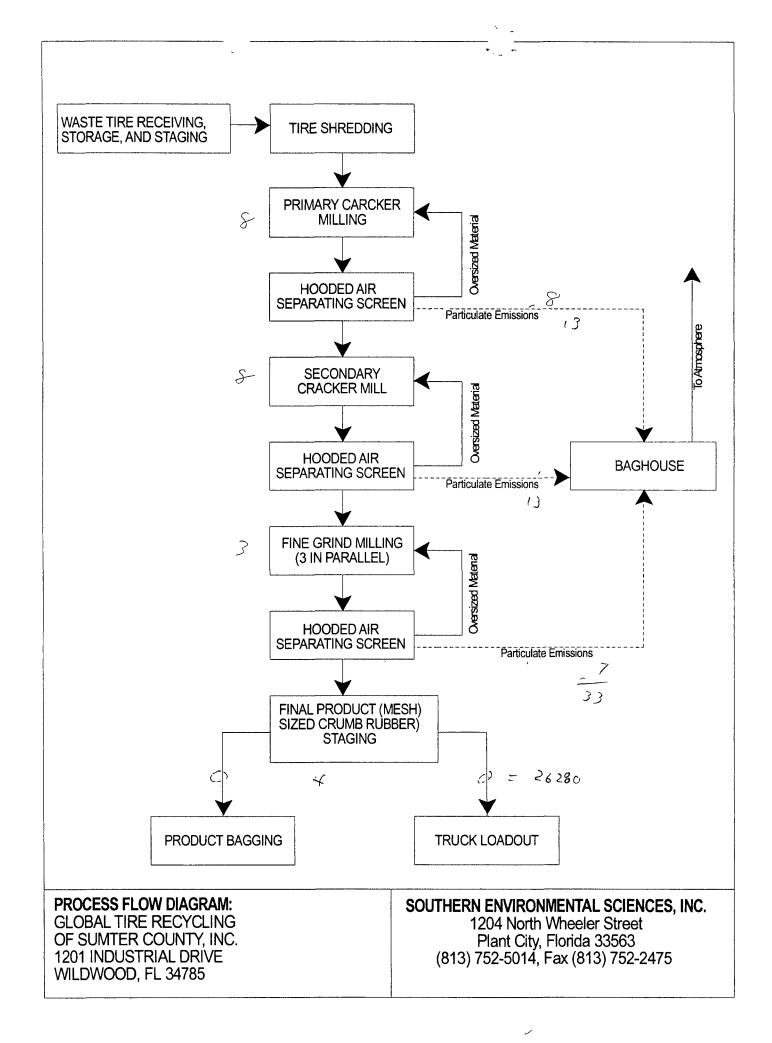
SOUTHERN ENVIRONMENTAL SCIENCES, INC.

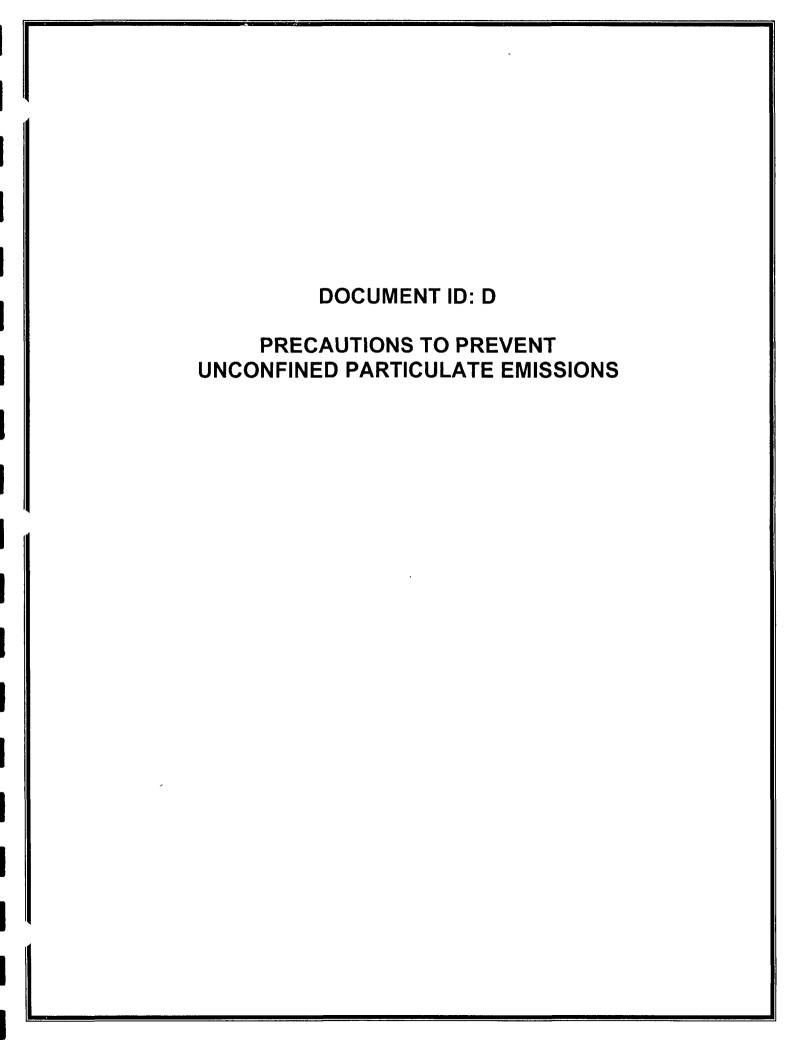
1204 N. Wheeler Street Plant City, Florida 33563-2354 (813) 752-5014 □ Fax (813) 752-2475







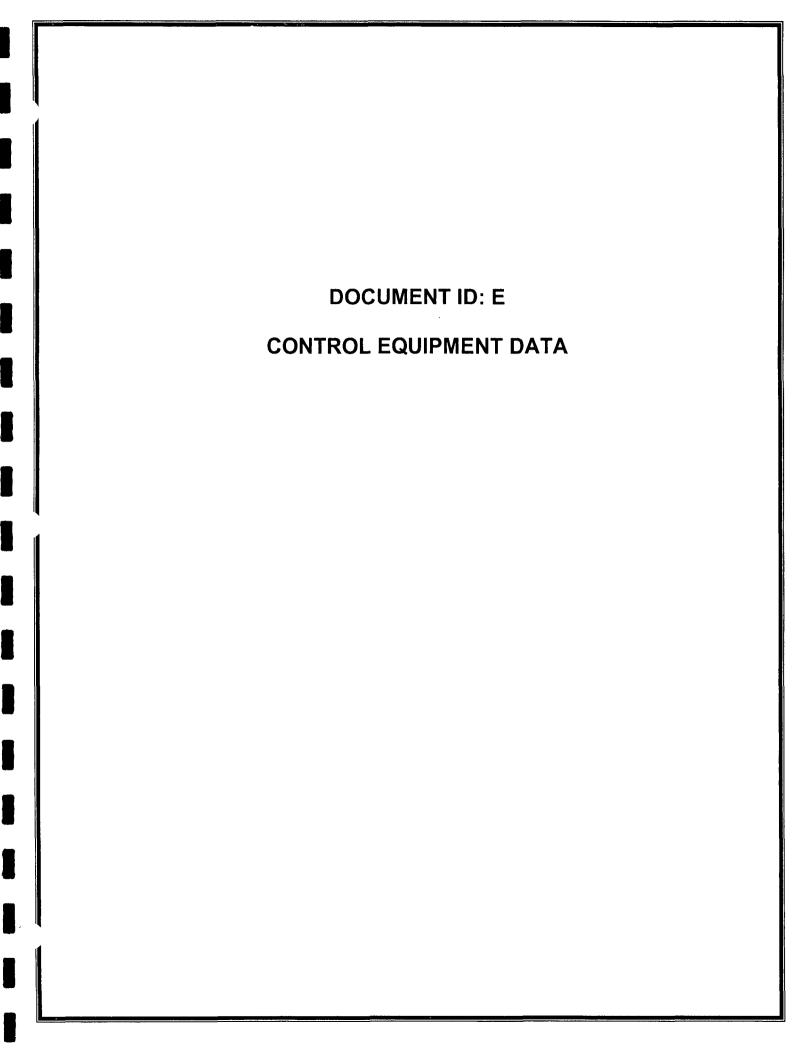




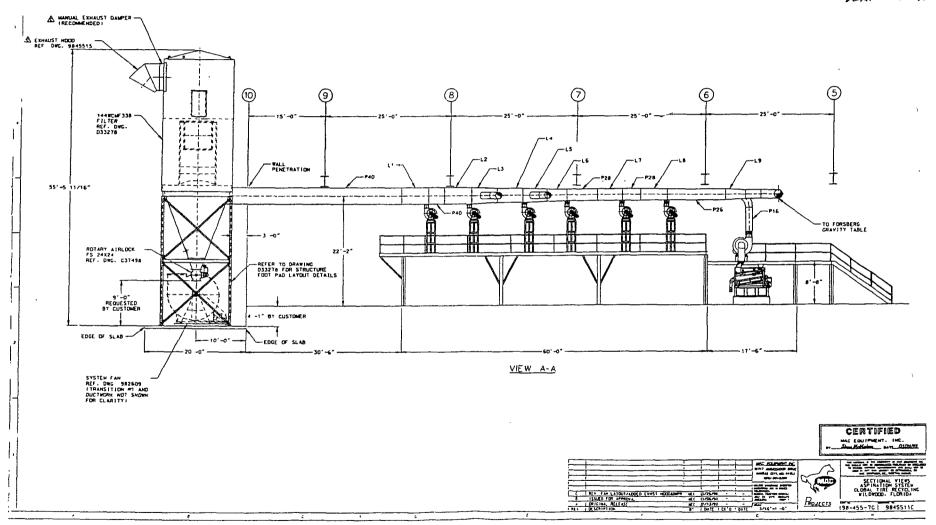
GLOBAL TIRE RECYCLING OF SUMTER COUNTY, INC.

In accordance with 62-296.320(4)(c), the facility will take reasonable precautions to prevent emissions of unconfined particulate matter from the facility. Activities that can cause fugitive particulate emissions at the facility include vehicular movement, transportation of materials, and industrially related activities such as materials loading, unloading, storing, and handling. Reasonable precautions to be taken by the facility include:

- 1. All roads at the facility are paved.
- 2. The process is enclosed in a building.
- 3. Each air separator screen is equipped with a hood connected to a central baghouse to control emissions.



SENT 4-13-98



TIRE GRINDING VENTILATION SYSTEM MAC/SATURN GLOBAL TIRE PROJECT

MAC PROJECT # 98-455-7G

DRAWING LIST

9845510	PLAN VIEW
9845511	SECTIONAL VIEW
9845512	SECTIONAL VIEW
9845513 9845514	SECTIONAL VIEW FABRICATION DETAILS
9845515	FABRICATION DETAILS
D33278	FILTER
C37498	AIRLOCK
982609	FAN

FIELD NOTES:

1. DUCT CONSTRUCTION DETAILS FOR ALL TRANSITIONS AND ELBOWS ARE SHOWN ON THE MATERIALS TABLE. STRAIGHTS ARE INDICATED AS TOTAL AMOUNT LENGTH. HOTE: CONTINCENCY IS NOT INCLUDED IN THE LISTED TOTAL LENGTHS.

2. USE SILICONE SEALER CAULK BETWEEN ALL BOLTED FLANGE CONNECTIONS TO PROVIDE AN AIRTIGHT SEAL.

3. ALL DUCT PENETRATIONS THROUGH THE BUILDING WALLS WILL BE FLASHED AS REQUIRED FOR WEATHERPROOFING.

4. ANCHOR BLOWER PACKAGES AND PLUMB 1 1/2" NPT PIPE FROM BLOWER OUTLET TO THE MCF 2 1/2" MPT CONNECTOR SUPPLIED ON THE BACHOUSE SIDEWALL.

5. DUCT RUNS TO BE SUPPORTED BY INSTALLATION CONTRACTOR MINIMUM OF EVERY 10 FEET AND AS REQUIRED. HANGERS AND SUPPORTS SUPPLIED BY CONTRACTOR.

6 SUPPORT DUCTWORK IN A MANNER TO PLACE NO LOAD ON CONNECTING EQUIPMENT OR HOODS

7. FAN TO BE ANCHORED DIRECTLY TO CONCRETE PAD.

B. ALL STRAIGHT DUCT RUNS TO BE FABRICATED WITH DME FLANGE LODGE OF TACK WELDED FOR TRIM FIT AND SEAL

9. BLAST GATES TO BE INSTALLED AT ALL PICK UP HOODS TO CONTROL AIR FLOW

10. SEE MAC EQUIPMENT DRAWING NO. 033278 FOR DUST COLLECTOR AND BLOWER PACKAGE ANCHOR BOLT PATTERNS.

SYSTEM PARAMETERS

AIR VOLUME: 41.000 CFM # -12" W.G. TOTAL CLOTH AREA: 4.901 SQ. FT. A/C RATIO. 8.5 TO 1 NO. BAGS: 388 MIN. DESIGN DUCT VELOCITY: 4.000 FPM TEMPERATURE: AMBIENT (MAX 250° F) RUBBER AND TIRE CORDAGE FINES VENTING: BUCKET ELEVATORS. SHAKERS. GRINDERS. AND DESTONERS

CONSTRUCTION/FABRICATION NOTES:

1. ALL DUCTEDRE. FLANGES. HANGERS. SUPPORTS. BRACING AND BOLT PATTERNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION. INC. " MANUAL OF "ROUND INDUSTRIAL DUCT CONSTRUCTION STANDARDS" UNLESS OTHERWISE SPECIFIED.

2 ALL DUCTYDEK CONSTRUCTION SHALL BE ROUND FLANGED DUCTYORK DESIGNED IN ACCORDANCE WITH THE "SMACNA" CLASS 2 MATERIAL AND REINFORCING SCHEDULES FOR STEEL DUCTS.

4. CENTERLINE RADII FOR ELBOWS TO BE 2 TIMES THE DIAMETER (LONG RADIUS) UNLESS OTHERWISE SPECIFIED.

3. ALL ELBOW FLANGES TO MATCH UP WITH CONNECTING DUCT.

5. CLEAN OUT DOORS ARE TO BE PROVIDED FOR EVERY 10 FOOT OF STRAIGHT DUCT RUN OR NEAR EACH DUCT JUNCTION IN HORIZONTAL DUCT SECTIONS. SEE CLEAN DUT DOOR

6. MANUAL BLAST GATES MUST BE PROVIDED AT EACH HOOD OR PICK-UP LOCATION.

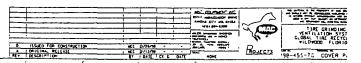
7. DUCT MATERIAL AND REINFORCEMENT SCHEDULES:

10" DIA. - 20 GAUGE STEEL - L.1x1x1/8 @ 10' SPACING 12" DIA. - 20 GAUGE STEEL - L.1x1x1/8 e 7 SPACING 16" DIA - 18 GAUGE STEEL - L. 1x1x1/8 # 9" SPACING 21" D1A - 16 GAUGE STEEL - L. 1x1x1/8 @ 9" SPACING 26" DIA. - 16 GAUGE STEEL - L. 1 1/4x1 1/4x3/16 e ?" SPACING 28" DIA - 16 GAUGE STEEL - L 1 1/4x1 1/4x3/16 + 6" SPACING 40° DIA. + 14 GAUGE STEEL - L 1 1/4x1 1/4x3/16 @ 4' SPACING ELBOWS - 14 GAUGE STEEL TRANSITIONS - 14 GAUGE STEEL

8 ALL DUCTYORK SHALL BE PRIME PAINTED AS PROTECTION AGAINST CORROSION

SENT 4-13-98

		MATERIALS TABLE
ITEM NO.	OTY. /LENGTH	DESCRIPTION
P10	40'-0"	10" STEEL DUCT
P12	72"-0"	12" STEEL DUCT
P16	86°-0°	16" STEEL DUCT
PZ1	21'-0"	21" STEEL DUCT
P26	13"-0"	Z6" STEEL DUCT
PZB	11'-0"	Z8" STEEL DUCT
P40	71'-0"	40" STEEL DUCT
E10-20-45	6	10" DUCT- 20" C.L.RAD 45" ELBOW
E12-12-45	2	12" DUCT. 12" C.L.RAD 45" ELBOW
£12-15-90	6	12" DUCT. 15" C.L.RAD 90" ELBOW
E12-24-90	6	12" DUCT- 24" C-L.RAD 90" ELBOW
E16-32-45	3	16" DUCT. 32" C.L.RAD 45" ELBOW
£16-32-90	2	16" DUCT. 32" C.L.RAD 90" ELBOW
E21-42-90	2	21" DUCT. 42" C.L.RAD 90" ELBOW
E40-80-90	3	40" DUCT. 80" C.L.RAD 90" ELBOW
LI	1	40"x 40"x 10" LATERAL 5"-5"/LENGTH
LZ	1	40"x 40"x 10" LATERAL 5"-5"/LENGTH
L3	1	40"x 34"x 16" LATERAL 5'-0"/LENGTH
L4	1	34"x 34"x 10" LATERAL 5"-0"/LENGTH
L5	2	34"x 30"x 16" LATERAL 4 -9 1/8"/LENGTH
L6	1	30"x 28"x 10" LATERAL 4"-1"/LENCTH
L7	1	28"x 28"x 10" LATERAL 5"-0"/LENGTH
L8	1	28"x 26"x 10" LATERAL 5 -0"/LENGTH
L9	1	26"x 21"x 16" LATERAL 3"-11 9/16"/LENCTH
L10	1	16"x 12"x 12" LATERAL 3"-0"/LENGTH
L11	1	16"x 12"x 12" LATERAL 2"-8"/LENGTH
F:5	6	12"x 10"x 08" LATERAL 1'-6"/LENGTH
BLAST GATES	6	B" DIA. /SEE PLAN/SECTION VIEWS FOR LOCATION
BLAST GATES	10	12" DIA./SEE PLAN/SECTION VIEWS FOR LOCATION
TRANS 1	1	FAN EXHAUST TRANSITION
TRANS 2	· · · · · ·	FILTER INLET TRANSITION
TRAMS 3	1	FAN INLET TRANSITION
EXHST HOOD	1	FILTER EXHAUST HOOD
SOL'IN JOINT	1	FAN INLET ISOLATION JOINT
XHST DAMPER	1	FILTER EXHAUST DAMPER
		



EQUIPMENT INFORMATION

Name of Item: Bag House (B-1)

1) Quantity: One

Model: 144WMCF338 welded MCF filter

H.P.: 5 HP

2) Manufacturer: MAC Environmental Address: 623 McWay Drive West

City/State/Zip: High Point, NC 27263

Contact Person: Larry Walker Telephone: 817-558-4146

3) Cost: FOB Plant: \$135,250.00 Freight:

4) Net Weight: 29,300 lbs. Height: Width: 14' Depth: 14'

5) Capacity: 39,000 ACFM at 20" +/- SP

6) Dealer: MAC/Saturn

Address: 201 East Shady Grove Road City/State/Zip: Grand Prairie, TX 75050

Contact Person: John Crowley Telephone: 972-790-7800

7) Order Date for Delivery:

8) Pay to: MAC/Saturn Address: See above

City/State/Zip:

9) Recommended Spare Parts and Prices List: See Attachment 1

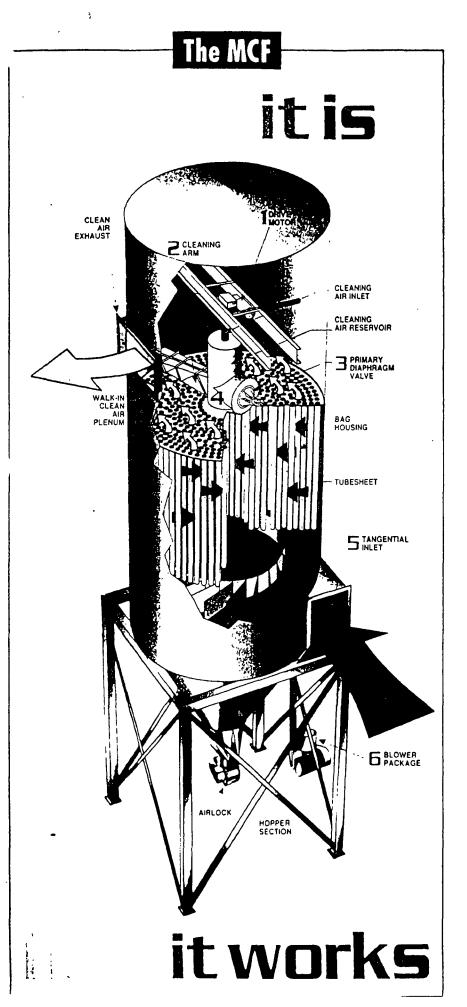
10) Maintenance Schedule/Downtime Associated with Scheduled Maintenance: See Attachment 2

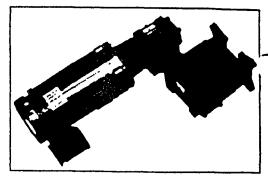
11) Referrals List: See Attachment 3

12) Brochure/Company Profile: See Attachment 4

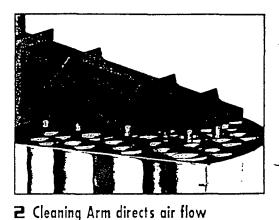
13) Blueprint/Drawing: See Attachment 5

14) Miscellaneous: Price includes MAC model FS 24x24 heavy duty fabricated rotary airlock and Airtech model 445-85 class 4 fan.





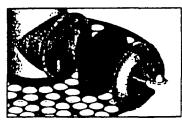
1 Main Drive uses rugged electric motor The Main Drive Assembly represents the only electronic component used inside the filter housing. Except for this motor and the external air blower package, the MCF is pneumatically operated for added safety and reliability.



When the cleaning arm and bag segments are correctly aligned, air nozzles fire directly into the bags. So there's no wasted air. No bleed. None of the wasted energy you pay for on every cycle with conventional random-fire and reverseair systems. MAC invented and patented this

Never-Miss™ Controlled-Fire System to maximize

cleaning efficiency.



3 Diaphragm Valving Assemblies minimize recovery time

Primary and Secondary Valves are located close to the air reservoir and cleaning arm to maintain cleaning pressure. These two valves do the work of ten to thirty diaphragm valves and solenoids on conventional pulse-jet filters.



800-821-2476

as City

Houston

Las Vegas

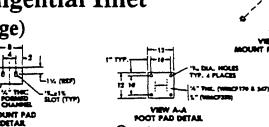
High Point

Salietha

MOUNT PAD LAYOUT

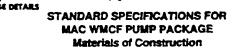
WIDE BAG SPACING **WMCF* FILTER**

with Low Pressure Tangential Inlet



O NOTES:

- 1., All dimensions are in inches
- 2. 10 ga. C.S. construction WMCMFM170 & 247 7 ga. C.S. construction - WMCF338
 - Std. number of explosion vents provide a 30:1
- volume to went ratio If center space equals me
- be a bolt hole on the centerline
- Customer to provide supply line from purms plug, outlet to connection on filter.



Carbon steel horizontal base Full welded exterior base assembly

Major Components

Positive displacement blower Horizontal blower frame assembly Adjustable motor base

TEFC Motor 230/460/3/1800

Air intake filter

V-belt drive

Belt guard

Pressure relief valve at 10 PSI

Outlet silencer

Necessary hardware

Pressure gauge 0-15 PSI and shut off valve

Paint

Standard cleaning and metal preparation Interior and exterior primed with one coat of gray primer Exterior to have one finish coat

Color to be specified:

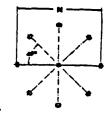
Standard color is MAC Blue Atternate standard color is MAC White

77 W/M 2 FAACI		PATRO	ma	(Plai	n Di	schar	ge)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1444
UET AZTION		STD. OUTLET LOCATION	- #}	177 CONSIGNATION	- % TVP.	2 - M	OLASSE OUASSE OUASSE OUASSE OUASSE OUASSE OUASSE	ı.	
	A O.D.			PUMP PACKAGE	•	DECOU	VIEW NECE PLA	3-8	BIAL HOUS ON 42" B TARS S
¥ 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	PACING IS S' TIT. ® CHITES IP. VARIABLE SELECTION IN SECURITY OF THE SECURITY	TANCENTUL RELT STRUCTURAL FRAM AND LIGS (OFTIO TRANSITION TO MATE AREACE) NOTE: WITH CE	ACING IS STYPE. TO STEEL SP. VARIABLE	OUTLET		POOR STATE	CAL HERVICE DOBR	Po Ho Add TE Airt Steep Pro State Ex Co	urbon strill welder sitive di vizontal justable FC Motor intake belt drivibet guardessure intet sile essure intet sile essure interior anderior anderior to bostanda. Alternat
. .	SQ. F	т.		= = _				A.	D

MODEL	SQ. FT.	A	В	С	D	E	F	G	н	J	ĸ	L	M	N	P	R	s	T	U	٧	BLOWER H.P.	LBS
96WMCF170	1649	120	339"/4	59%	2641/2	16	60	1493/4	45	40	30	38	32	201	1143/4	1171/2	249%	11/2	5	417/4	3	11250
120WMCF170	2057	120	291"/•	59º/w	3161/2	16	60	1493/4	43	44	34	42	34	249	1143/4	1171/2	277%	11/2	5	411/1	3	12070
144WMCF170	2465	120	444"/=	59³/w	3691/2	16	60	149%	42	49	36	46	361/1	2971/2	1143/4	1171/2	3063/4	11/2	6	411/4	3	12995
3WMCF247	2395	144	370%	80	2711/2	191/4	72	161%	54	47	36	45	351/1	201	1383/4	1411/2	2503/	2	7	403/4	3	14140
_OWMCF247	2988	144	4773/4	80	3251/2	191/4	72	1613/4	52	53	40	50	381/1	2491/1	1383/4	1411/2	306"/4	2	8	40%	5	15085
144WMCF247	3581		477%	80	378	191/4	72	1611/4	501/2	58	43	55	41	297/2	1383/4	1411/5	335"/4	2	9	40%	5	16340
96WMCF338	3278	168	402°/n	100%	2791/		_						391/1	201	162	1651/1	2583/	21/2	10	411/6	5	17910
120WMCF338			457%				_		_	62	46	59	43	24916	162	1651/2	315"/	21/2	11	41%	5	19020
144WMCF338			5111/4				_	173%		68	51	64	46	298	162	1651/2	345"/-	21/2	13	41%	5	20500







VIEW B-8 DISCHARGE RANGE DETAILS

HGE DETAILS MOUNT PAD LAYOUT

STANDARD SPECIFICATIONS FOR MAC WMCF FILTER

Materials of Construction

Carbon steel construction, 10, 7 ga. per Mfgr. Drawing Full welded exterior, skip welded interior

One piece, all welded construction Filter media - 16 oz. singed polyester

Major Components

Walk-in plenum

Gear drive rotating surge tank, diaphragm valve, and distribution arm, with a 1 HP explosion proof (NEMA 9) motor

Pneumatically controlled firing mechanism which activates the diaphragm valves

Service door, 60" tall x 32" wide, gasketed and hinged to left side Bolt on high entry inlet with bag protector baffles

Standard number of explosion vents sized at 30:1 volume to vent (ratio; bolt on frame assembly vents

Snap band top bag removal, 16 oz. polyester singed bags

Top removal rigid wire galvanized bag cage

60° hopper with 40° diameter flange

40° transition to match airlock inlet (optional)

Pressure differential gauge ldt

Lifting lugs (4 ea.) on top plenum

Ladder, safety cage

Service platform with guardrail

Paint

Standard deaning and metal preparation

Interior and exterior primed with one coat of gray primer

Exterior to have one finish coat

Color to be specified:

Standard color is MAC Blue

Alternate standard color is MAC White

O NOTES:

- 1. All dimensions are in inches
- 2. 10 ga, C.S. construction WMCF170 & 247
 - 7 ga. C.S. construction WMCF338
- Std. number of explosion vents provide a 35:1 volume to vent ratio
 H center space equals more than 8" there will be a boil hole on the cent
- 5. Customer to provide supply line from pump plug, outlet to connection on filter

MODEL	SQ. FT. CLOTH	A	В	С	D	E	F	G	н	J	ĸ	r	M	N	R	T	٧	BLOWER H.P.	WT/LBS
96WMCF170	1649	120	3013/4	59³/ч	226	16	211%	891/1	105	1493/4	38	38	1143/4	1171/2	4	11/2		3	8795
120WMCF170	2057	120	349%	593/4	274	16	2351/	1131/2	127	149%	42	42	1143/4	1171/2	4	11/2	415/4	3	9515
144WMCF170	2465	120	397%	593/4	322	16	2591/	1371/2	149	1493/4	46	46	1143/4	1171/2	5	11/2		3	10255
96WMCF247	2395	144	3281/4	80	229	191/4	207'/	891/4	1041/4	1613/4	45	45	1381/4	1411/2	6	2		3	11440
'20WMCF247	2988	144	3731/4	80	274	191/4	2551/+	11314	123	1613/4	50	50	1381/4	1411/2	6	2	421/4	5	12230
44WMCF247	3581	144	4211/4	80_	322	191/4	+/279*	1371/2	1441/5	1613/4	55	55	1383/4	1411/2	7	2		5	13140
96WMCF338	3278	168	3701/4	100%	247	221/4	2257/	891/2	1181/4	173%	53	53	162	1651/1	7	21/2		5	15285
120WMCF338	4089	168	4151/4	100%	338	221/4	273%	1131/6	1361/4	173%	59	59	162	1651/2	8	21/2	421/2	5	16190
144WMCF338	4901	168	4811/4	100%	338	22"/-	2951/-	137%	156	173%	64	64	162	1651/1	10	21/2		5	17160

PUMP PACKAGE

OUTLET LOCATION

BELET FLANGE DETAILS

DAY THU

T' NOT ALL SUPPLYS

1" HPT FOR

STRUCTURAL PRAME AND LIES (OPTIONAL)

TRANSITION TO MATCH ARLOCK BRLET (OPTION

OUTLET FLANGE DETAILS

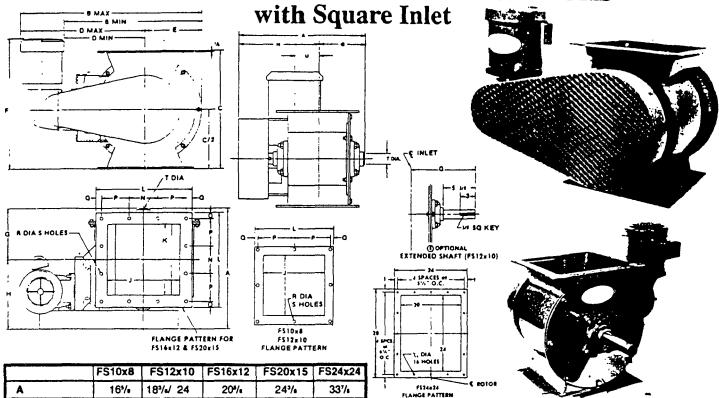
VIEW A-A FOOT PAD DETAIL



Highway 75 S. ● Box 205 ● Sahetha, KS 66534 ● (913) 284-2191 ● 800-223-2191 ● 1.a. 913-284-3565 10741 Ambassador Urive ● Kamsas City, MO 64153 ● 0816 891-9900 ● 800-821-2476 ● 1 av 816-891-8978 623 McWay Dr. West ● High Point, NC 27263 ● (910) 434-3802 ● 800-882-0622 ● 1 av 940-434-3803 6655 W. Sahara ● Las Vegas, NV 89102 ● (702) 221-1940 ● 800-442-0622 ● 1 av 702-221-8044

Effective 7-17-91 Supersedes 3-15-90

HEAVY DUTY FABRICATED AIRLOCKS



	FS10x8	F\$12x10	FS16x12	FS20x15	FS24x24
A	163/	183/4/ 24	20%	243/	337/4
B MIN	1615/14	19³/•	233/	27%/16	311/
B MAX	253/14	271/0	311/4	351/14	397/4
С	13	16	20	24	28
D MIN	1013/16	11%	137/	1513/16	181/•
D MAX	191/14	201/	221/•	241/1	263/1
E	6'/•	7'/2	91/2	111/2	131/2
F	261/	27³/•	294/4	313/6	333/4
G	61/4	7 / 12%	81/4	101/4	143/4
н	103/6	113/4	123/4	141/	191/
J	8	10	12	15	20
K	8	10	12	15	24
L	11	13	16	19	24
N			41/0	6	_
Р	43/4	6	411/14	51/2	_
Q	3/4	1/2	1	1	1
R	7/14	7/14	7/10	9/14	9/14
s -	8	8	12	12	16
T	17/10	17/10	17/16	115/14	111/m
U	31/6	41/4/ 33/4	43/4	6'/4	91/2
HP	1	1 / 11/2	11/2	2	3
Weight (LBS)	125	160	225	325	510
Capacity CFR	.34	.62	1.32	2.60	6.00

Contact factory for more dimensional information on units larger than FS24x24. FS30x30 and larger airlocks are not dimensionally interchangeable with HD30x30 and larger airlocks.

STANDARD SPECIFICATIONS FOR MAC FABRICATED AIRLOCKS
MODELS FS10x8, FS12x10, FS16x12, FS20x15, FS24x24, FS30x30, FS36x36,
FS36x42, FS42x42, FS48x48, FR16x12 (see back), FR20x16 (see back)

Materials of Construction

Fabricated carbon steel housing

Carbon steel end plates

Carbon steel, urethane sandwich rotor

Major Components

Fabricated non-machined, carbon steel housing

Fabricated carbon steel end plates with 4-bolt flange bearings

6-vane, carbon steel graphite filled, urothane flex tip sandwich rotor construction Rotation (as viewed from drive end)

Clockwise for Models FS30x30, FS36x35, FS36x42, FS42x42 & FS48x48 Counter-crockwise for all other models

Paint

Standard cleaning and metal preparation

Extenor primed with one coat of gray primer

Extenor to have one finish coat

Color to be specified:

Standard color is MAC Blue

Alternate standard color is MAC White

NOTE: Maximum operating temperature is 220 degrees F.

FS10x8 thru FS24x24, FR16x12 & FR20x16 have right angle drives FS30x30 and larger have shaft mount drives

NOTES:

- 1. All dimensions are in inches
- Gearmotors are 230/460 volt 3 phase 60 HZ TEFC standard, explosion proof optional
- 3. 18 RPM is standard, except FS24x24 is 24 RPM
- 4. Housing and flanges are 1/4" HRCS
- 5. Rotor is 6 vane wiper style
- 6. Bearings are sealed settaligning 4 bolt flange units with single row ball bearing;
- lubrication is by pressure fitting through hole in outer race
- 7. Rotation is CCW from drive end
- 8. Optional extended shaft with slave drive only

SPARE PARTS

FOR

Equipment: Bag House

Manufactured by: MAC Environmental

RE: MAC Job #: 98-455*7G

Listed below is a recommended stocking level of spare parts for our equipment listed below. I need to stress that the parts and prices listed are <u>ESTIMATES ONLY</u>. This quote is being done as a customer courtesy for MAC Saturn, so that you may comply with your regulatory agencies. At the time of this quote job 98-455*7G has <u>NOT BEEN ENGINEERED</u>. All parts, prices & quantities are subject to change. A revised quote will be sent at a later date.

Item 1: 144MCF338 filter

338	Bags	\$10.70 esc
338	Cages	\$19.35 eac
1	Gear reducer	\$1418.00
1	SF cplg, 1 1/4"	\$29.00
1	SF cplg., 1 3/8"	\$29.00
1	SF cplg. Sleeve	\$30.00
1	Btm. Bearing	\$146.00
1	Top Bearing	\$69.00
1	Inlet tee assy.	\$270.00
1	Inlet tee shaft	\$94.00
1	Main diaph.	\$339.00
1	Diaph. Spring	\$49.00
1	Valve head assy.	\$315.00
1	Index sens. Sprk	1.584 .00
1	Sec. Diaph. Kit	\$144.00
1	Alt-valve kit	\$65.00

Item 2: MCF pump kit

l	Blower (bare) \$989.00
1	Intake filter elem.\$65.00
1	Pressure gauge \$65.00
1	Press. Relief vlv. \$235.00
1	Press. Switch \$170.00

Item 3: FS 24x24 airlock

2	Bearings	\$102.50
6	Blade tips	\$179.00

Most items are stock in our Kansas City Missouri warehouse. Lead times may be up to 4 weaks on some items if they need to be manufactured. All prices are FOB ship[ping point and do not include shipping, tax, insurance or any duties. Teams are NET 30 from date of invoice (shipment).

MAINTENANCE ITEMS

Y7-

For MCF Filter: (See Maintenance pages 1 - 12 att'd))	Estimated		
Description	Frequency	Downtime		
1) Check filter bags for excessive wear.	3 mos	1 hr		
Check for evidence of moisture or dust buildup inside the filter.	6 mos	1 hr		
3) Check oil in all gear motors.	6 mos	1 hr		
4) Check belt tension on all V-belt drives.	6 mos	30 min.		
5) Lubricate pump.	б mos	15 min		
6) Lubricate pump bearings.	9 weeks	15 min		
7) Lubricate gear boxes (internal).	6 mos	1 hr		
8) Bearings –	l yr	2-3 hrs		
9) Adjust Index Sensor Timing		depending on filter ferential (2 hr req'd)		
10) Replace large diaphragm		typically every 6mo		
	to 2 yrs (1	5 min req'd)		
11) Replace all filter bags	As needed, depending on			
	-	conditions and press.		
	differential	l (1-3 days req'd)		
For FS Airlock:				
1) Grease flange bearings	1000 hrs	10 min		
2) Inspect wiper blades		baghouse is down,		
		every 60 days		
	(1 hr req)	-		
3) Replace wiper blades		l, depending on hrs req'd)		
4) Check tension of drive chain	200 hrs	15 min		
5) Inspect sprockets, chain, base structure, drive guard, brackets	30 days			

IMPORTANT NOTES:

- A) All figures listed above are based on 8 hrs per day of operation, at ambient operating temperatures. Longer operation or higher temperatures will mean more frequent maintenance. Adhere to lubrication schedules in the final O and M manuals.
- B) The items and figures listed are <u>estimates only</u>. Actual time required will be dependent upon number and skill of personnel involved, working conditions, proper tool availability, amount of time for lockout / tag-out procedures and confined space entry procedures.
- C) The maintenance items listed above constitute a preliminary list, and it is not to be considered complete. Refer to the actual Operation and Maintenance Manuals that will be shipped with the final equipment. See Weekly list, pg 6-1, no downtime req'd.
- D) Fan information is not available at this time, as size of fan required is still unknown.

Southern Environmental Sciences, Inc.

1204 North Wheeler Street ☐ Plant City, Florida 33563 ☐ (813) 752-5014 ☐ Fax: (813) 752-2475

Dept. of Environmental Protection

May 25, 2007

MAY 29 2007

Mr. Danny Stubbs
Air Permitting Engineer
Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Southwest District

Re:

Global Tire Recycling of Sumter County, Inc.

Facility ID No. 1190028

May 7, 2007 Request for Additional Information

Dear Mr. Stubbs,

In response to the above request I offer the following responses to help you in reviewing the permit application.

As stated on page 12 of the application the maximum projected annual production rate is 20,000 tons of mesh size crumb rubber beads. This number is based upon the original permit application for this source and has been included as a permit condition in all their past permits, hence it was included in this application as well. However, since increasing a maximum production rate of 26,280 TPY will not produce a substantial increase in potential emissions I have included several revised application pages to increase the annual maximum rate accordingly.

To avoid any more unnecessary delays in permit issuance please call me at 813-752-5014 if you have any additional questions.

Sincerely,

Rama Iyer, P.E.

Permitting Manager

Ramaine

cc: Mark Bailey, - Global Tire Recycling

Professional Engineer Certification

1. Professional Engineer Name: RAMA IYER

Registration Number: 56919

2. Professional Engineer Mailing Address:

Organization/Firm: SOUTHERN ENVIRONMENTAL SCIENCES, INC.

Street Address: 1204 NORTH WHEELER STREET

City: PLANT CITY State: FL

Zip Code: **33563**

3. Professional Engineer Telephone Numbers:

Telephone: (813) 752-5014 Fax: (813) 752-2475

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

ATHAN

CENS

No 56919

STATE OF

May 25, 2007

GLOBAL TRIE RECYCING OF SUMTER COUNTY, INC. RESPONSE TO RAI DATED MAY 7, 2007

DEP Form No. 62-210.900(3) - Form Effective: 2/11/99

^{*} Attach any exception to certification statement.

Emissions Unit Information Section 1 of 1 **Emissions Unit Control Equipment** 4. Control Equipment/Method Description (limit to 200 characters per device or method): **BAGHOUSE** 2. Control Device or Method Code(s): 18 **Emissions Unit Details** 1. Package Unit: Manufacturer: MAC ENVIRONMENTAL Model Number: 144WMCF338 2. Generator Nameplate Rating: MW 3. Incinerator Information: ٥F Dwell Temperature: **Dwell Time:** seconds Incinerator Afterburner Temperature: ٥F **Emissions Unit Operating Capacity and Schedule** 1. Maximum Heat Input Rate: mmBtu/hr 2. Maximum Incineration Rate: lb/hr tons/day 3. Maximum Process or Throughput Rate: 29,000 LBS/HR, TIRE SHREDDING 4. Maximum Production Rate: 6000 LBS/HR MESH SIZE CRUMB RUBBER 5. Requested Maximum Operating Schedule: hours/day days/week weeks/year 8760 hours/year 4. Operating Capacity/Schedule Comment (limit to 200 characters): Throughput Rate: is lbs/hr of whole passenger tire equivalents (WTEs) Production Rate: is lbs/hr of mesh size crumb rubber. Max. Rates of individual Units: Shredder-14.5 tph, Primary Cracker Mill- 8 tph, Secondary Cracker Mill - 7 tph, Three Fine Grind Mills (total) - 3 tph, Air Separators - 8 tph The maximum annual production rate of crumb rubber is limited by the production rate of

DEP Form No. 62-210.900(3) - Form

the 3 parallel fine grind mills.

Emissions Unit Information Section1 of1								
C. SEGMENT (PROCESS/FUEL) INFORMATION								
Segment Description and Ra	ate: Segment	1of1	~					
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 ch	naracters):					
WASTE DISPOSAL	SHREDDING, TIR	ES						
4. Source Classification	Code (SCC):	3. SCC Units	s: TONS PROCESSED					
2650000002								
5. Maximum Hourly Rate: 14.5	4. Maxim Rate: 2		6. Estimated Annual Activity Factor:					
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:					
10. Segment Comment (limit	to 200 characters	<u> </u>						
		•						
Final product is clean grade of crumb rubber is limited by the			aximum annual production rate lel fine grind mills.					
	·	•	· ·					
Segment Description and Ra	Segment Description and Rate: Segment of							
1. Segment Description (Pro	1. Segment Description (Process/Fuel Type) (limit to 500 characters):							
			•					
2. Source Classification Cod	le (SCC):	3. SCC Units	S:					
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:					
7. Maximum % Sulfur:	fur: 8. Maximum % Ash:		9. Million Btu per SCC Unit:					
10. Segment Comment (limit	to 200 characters	s):	1					

DEP Form No. 62-210.900(3) - Form Effective: 2/11/99

14

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1.	1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: WP					
3.	. Primary Control Device 4. Secondary Control Device Code: 4. Code:		Device	5. Total Percent Efficiency of Control:99.9				
6. Potential Emissions: .6 lb/hour 2.63 tons/year			ıs/year	7. Synthetically Limited?				
8.	Emission Factor:			1)	_	Method Code:		
	Reference:					-		
1)	1) Calculation of Emissions (limit to 600 characters):							
	26,280 TPY x 5% (cord & fiber) + 26,280 TPY x 5% (rubber dust & foreign material) = 2,628 TPY to baghouse							
	2628 TPY x (1999) = 2.628 TPY x 2000 lbs/t 8760 hrs/yr	<u>ton</u> = 0).6 lbs/hr					
	or our many.							
1)	 Pollutant Potential Emissions Comment (limit to 200 characters): Amount Entering Baghouse: Waste tire cord and tread (approx. 5% by weight of tires processed) Rubber dust and foreign material (approx. 5% by weight of tires processed) 							
<u>Al</u>	lowable Emissions Allowable Emissions	NA	of					
1.	Basis for Allowable Emissions Code:	- 1	Future Effe Emissions:		ve Date of A	llowable		
3.	Requested Allowable Emissions and Units:	4.	Equivalent	alent Allowable Emissions:				
			1	b/h	our	tons/year		
5.	Method of Compliance (limit to 60 characte	ers):						
6.	Allowable Emissions Comment (Desc. of O	peratio	ng Method) (li	imit to 200 cl	haracters):		
I .								

15

DEP Form No. 62-210.900(3) - Form