



Scrap Tire Collection, Storage and Recovery Facilities Log of Operations Index

Each form represents an individual tab in the binder that houses the Log of Operations

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Division of Materials and Waste Management
 Collection, Storage and Recovery Facility Yearly Cover Sheet
 {As required by OAC 3745-27-65(J)(2)}

Yearly Cover Sheet for _____
Directions: This log cover sheet should be completed at the beginning of each license year and should be kept on file at the beginning of the daily log file for that year. Attach amendments to this form as necessary.

FACILITY INFORMATION

Name of Facility:	
License Number:	Phone Number:
Mailing Address:	
Location of Facility:	
Owner of Facility:	Owner of Facility
Name of Site Manager:	Licensee Name:

Method of Measuring Amount of Incoming Materials
Scales: _____ Actual Count: _____ Filled Volume of Hauling Vehicle: _____
Total Annual Scrap Tires Received (fill in only one):
Number: _____, Tons: _____ (or) Cubic Yards (yds ³): _____
Total Annual Scrap Tires Shipped (fill in only one):
Number: _____, Tons: _____ (or) Cubic Yards (yds ³): _____

This Scrap Tire Facility Log of Operations should be retained on file for inspection by the local health department, Ohio EPA, or an authorized representative. Failure to provide accurate daily operations information may be considered a violation of Ohio Revised Code 2921.13



Division of Materials and Waste Management
Collection, Storage and Recovery Facility Daily Log of Operations
{As required by OAC 3745-27-65(J)(2)}

Facility: _____ Date: _____

INCOMING MATERIALS LOG (Form 2)

Unique vehicle number	Scrap Tire Transporter (Name or Registration #) OR General Public	Mosquito Control (Received dry, MCD*, WLR* or processed)	Amount of Tires (Number, Tons or yds ³)	Type of Tires in Percentage			Place of Origin: County (State if not Ohio)	
				Car	Semi	Farm or OTR	County	State
Daily Total:								

*Mosquito Control Documentation (MCD), Wet and liquid removed (WLR) or processed (for STRF only - see instructions)

<p>Name of person completing form: _____</p> <p>Signature: _____</p>	<p>If an incoming load of tires is from multiple counties, please estimate what percentage came from each county.</p>
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Division of Materials and Waste Management
 Collection and Storage Facilities Daily Log of Operations
 {As required by OAC 3745-27-65(J)(2)}

Facility: _____

OUTGOING SCRAP TIRE LOG (Form 3a)

Date	Scrap Tire Transporter by Business Name or Registration ID	Amount of Outgoing Loads of Whole Scrap Tires Sent To Allowed Locations (indicate units of measurement in #, tons or cy)						Destination: County (State if not Ohio)	
		Disposal Facility	Used tire dealers or tire retreaders	Beneficial use	Transporter	Scrap tire collection or storage facility	Solid waste incineration or energy recovery facility	County	State
Daily Total:									

Name of person completing form: _____ Signature: _____



Division of Materials and Waste Management

Scrap Tire Recovery Facility Daily Log of Operations

{As required by OAC 3745-27-65(J)(2)}

Facility: _____

OUTGOING MATERIALS LOG (Form 3b)

Date	Scrap Tire Transporter By Business Name or Registration ID	Amount of Outgoing Loads of Scrap Tires and Processed Scrap Tires (indicate units in #, tons or cy)								Destination: County (State if not Ohio)	
		Whole scrap tires shipped-out for Disposal	Whole scrap tires shipped-out to used tire dealers, tire retreaders, and whole tire beneficial use sites	Civil Engineering & Beneficial Uses (TDC)	Fuel Uses (TDF)	Crumb Rubber	Assembled Products	Processed tires shipped-out for more processing	Processed material shipped out for Scrap Tire Monofill Disposal	County	State
	Daily Total:										

Name of person completing form: _____

Signature: _____



Division of Materials and Waste Management
 Collection, Storage and Recovery Facility Scrap Tire Refusal Log
 {As required by OAC 3745-27-65(J)(2)}

Facility: _____

SCRAP TIRE REFUSAL LOG (Form 4a)

Date	Scrap Tire Transporter (Name or Registration ID) OR General Public	Amount of Tires (Number, Tons or yds ³)	Reason for Refusal			Place of Origin: County (State if not Ohio)	
						County	State

This form should be retained on file for inspection by the local health department, Ohio EPA, or an authorized representative. Failure to provide accurate daily operations information may be considered a violation of OAC 3745-27-65 (J) (2).

Name of person completing form: _____

Signature: _____



Scrap Tire Recovery Facility Refusal Log

{As required by OAC Rule 3745-27-65}

Division of Materials and Waste Management

Scrap Tire Recovery Facility – Log of Operations Scrap Tire Load Refusal/Not Processable Form

This form shall be completed by the owner/operator of the scrap recovery tire facility when a load of scrap tires is refused at the time of delivery or after receipt and upon determination that the scrap tires cannot be processed. The scrap tire transporter shall take this form to a licensed solid waste facility. The scrap tire recovery facility and solid waste facility shall retain this form with their daily log of operations. Please note: This form must accompany the Ohio EPA three-part shipping/receiving form or an equivalent form that contains the information required in OAC Rule 3745-27-57(D) to the solid waste facility.

A. Scrap Tire Recovery Facility Information

Facility Name:			
Facility Address:			
Contact Name:		Phone:	

B. Refused/Removal of Load of Not Processable Scrap Tires

Date Load Refused:	-OR-	Date Not Processable Load Prepared for Removal:
Amount of scrap tires refused/rejected:		[mark applicable unit] <input type="checkbox"/> tons <input type="checkbox"/> number <input type="checkbox"/> cubic feet
Ohio EPA Scrap Tire Transporter Registration Number or Business Name:		
License Plate #:		

Reason for Refusal/Removal at Scrap Tire Recovery Facility [OAC Rule 3745-27-15(E)(8)(iv)]

- Scrap tire construction (prevents equipment from processing scrap tires)
- Scrap tires are contaminated (with mud or other materials that render the tires unsuitable for processing)
- Other Reason for Refusal/Removal (specify below)

C. Receiving Facility Information

Solid Waste Facility Name:			
Date Load Received:			
Facility Address:			
Contact Name:		Phone:	
Amount of scrap tires received:		[mark applicable unit] <input type="checkbox"/> tons <input type="checkbox"/> number <input type="checkbox"/> cubic feet	



FIRE LOG (Form 5)

Facility Name and Address: _____

Date of Fire: _____ Time of Fire: _____

<i>Completed</i>	<i>Date Completed</i>	<i>Tasks</i>	<i>Information</i>
<input type="checkbox"/>		Notification of local police and fire agencies.	
<input type="checkbox"/>		Notified Ohio EPA emergency response team (1-800-282-9378)	
<input type="checkbox"/>		Person that reported fire to Ohio EPA.	
Additional Information			
Explain why the fire occurred:			
Quantities of tires involved (in PTE):			
Extent of injuries, if any:			
Extent of damage to facility, if any:			
Possible hazards to human health and environment:			
Actions taken to suppress the fire:			
Measures taken to contain residuals such as pyrolytic oil and water:			
Describe measures taken to prevent the fire from spreading to other areas of the facility:			
Describe measures taken to prevent another fire from occurring or spreading to other areas of the facility in the future:			

Provide information that may be important to document about the fire:

This form should be retained on file for inspection by the local health department, Ohio EPA, or an authorized representative. Failure to provide accurate information may be considered a violation of OAC 3745-27-65 (I)(3).

Name of person completing form: _____

Signature: _____



Division of Materials and Waste Management

Scrap Tire Recovery Facility DDIC Daily Log

{As required by OAC 3745-27-61(C)(5) and OAC 3745-27-65(J)(2)}

Facility: _____

Month: _____

Day	DDIC (units)	Day	DDIC (units)	Day	DDIC (units)	Monthly Facility Notes:
1		11		21		
2		12		22		
3		13		23		
4		14		24		
5		15		25		
6		16		26		
7		17		27		
8		18		28		
9		19		29		
10		20		30		
				31		
Monthly Average DDIC (tons)						

- Account for each day of the month in which the facility was operated. For days in which scrap tires were not processed but the facility was operated, denote “no processing” in the log for that day.
- Monthly, calculate the average DDIC in tons. In this calculation, do not include operating days when scrap tires were not processed. For example, do not include “0” as the DDIC for days in which scrap tires were not processed.
- The conversion factors to use between weight and volume or number count are found in Appendix I “Scrap Tire Conversion Factors” of the Scrap Tire Facility Log of Operations.



Division of Materials and Waste Management
 Scrap Tire Collection Facility Self-Inspection Checklist

Facility Name:		
Person Completing Inspection:		
Date:	Time:	Weather :

This checklist is designed for a facility owner/operator to monitor compliance with requirements identified in OAC 3745-27-65. The letter identified in front of each category represents the section in rule OAC 3745-27-65. Please mark the box in the appropriate column to denote compliance status. Marking the "N" box indicates non-compliance with regulation. Please mark the "N/A" box if not applicable to this location. This checklist is not all inclusive of regulations applicable to scrap tires.

Y	N	N/A		Y	N	N/A	
			(C) General operational criteria				Scrap tires not stored under bridges, elevated trestles, elevated roadways, elevated RR or under power lines with > 750 volts or that supply power to fire emergency system
			Only accept whole scrap tires				
			Remove and dispose of any other waste				(E)(1) Maximum storage area <= 5,000 cubic feet
			Maintain access roads				(H) Mosquito and vector control
			Control of access to facility				
			Prevent scavenging				Maintain ST free of water at all times
			Minimization of work area				Apply pesticide/larvicide (instead of keeping scrap tires dry at all times)
			Nuisance, health hazard, water pollution or air pollution				If mosquitoes or mosquito larvicide discovered by inspector, apply larvicide/adulticide
			Post instructions at entrance and scrap tire handling area(s)				Proper records available for mosquito control
			Exclusion of animals				
			Appropriate runoff management				(I) Fire equipment on site
			(D) General management				(J) Records
			No submergence or soil cover of scrap tires				Use of Ohio EPA shipping papers
			Scrap tire handling areas and fire breaks clear and accessible				Proper completion of Ohio EPA forms and all required information
			Within 24 hours of receipt, removes liquid from scrap tires or treats with pesticide/larvicide or documents proof of prior mosquito control				Use of non-Ohio EPA shipping papers that contain content similar to Ohio EPA forms
			Only store scrap tires in portable containers				Proper completion of non-Ohio EPA forms and all required information
			Maintain sufficient drainage to prevent water from ponding or collecting in storage area				Maintain three years of shipping papers
			Scrap tires separated at least 50' from ignition sources				Maintain three years of daily logs
			Portable containers >= 100' from buildings not owned/leased by o/o or >= 15' from buildings owned by o/o				Other
			Receive/transport scrap tires only to allowed facilities				Obtain authorization to accept non-ST waste
			Maintain access for emergency vehicles				Obtain license
							Maintain copy of valid license onsite
							Maintain copy of approved registration onsite



Division of Materials and Waste Management
 Scrap Tire Recovery Facility Self-Inspection Checklist

Facility Name:

Person Completing Inspection:

Date:

Time:

Weather :

This checklist is designed for a facility owner/operator to monitor compliance with requirements identified in OAC 3745-27-65. The letter identified in front of each category represents the section in rule OAC 3745-27-65. Please mark the box in the appropriate column to denote compliance status. Marking the "N" box indicates non-compliance with regulation. Please mark the "N/A" box if not applicable to this location. This checklist is not all inclusive of regulations applicable to scrap tires.

Y	N	N/A		Y	N	N/A	
			(C) General operational criteria				Maintain sufficient drainage to prevent water from ponding or collecting in storage area
			Only accept scrap tires				Scrap tires separated at least 50' from ignition sources
			Remove and dispose of any other waste				Portable containers >- 100' from buildings not owned/leased by o/o or >-15' from buildings owned by o/o
			Maintenance of access roads				Receive/transport scrap tires only to allowed facilities
			Control of access to facility				Scrap tires not stored under bridges, elevated trestles, elevated roadways, elevated RR or under power lines with > 750 volts or that supply power to fire emergency system
			Prevent scavenging				Access for emergency vehicle
			Minimization of work area				(E) Maximum storage area size
			Not create a nuisance, health hazard, water pollution or air pollution				Class II outside storage
			Post instructions at entrance and scrap tire handling area(s)				Maximum storage of whole, cut, baled and rough shredded STs <= 7xDDIC or 10,000 sq. ft., whichever is greater
			Exclusion of animals				Maximum storage 10,000 sf of TDC and TDF
			Appropriate runoff management				Maximum storage processed scrap tire products and by-products, max. 10,000 sq. ft.
			(D) General management				Class II containerized or inside storage of whole, cut, baled and rough shredded STs - maximum storage <= 15xDDIC or 10,000 sq. ft., whichever is greater
			No submergence or soil cover of scrap tires				Class I outside storage
			Scrap tire handling areas and fire breaks clear and accessible				Maximum storage of whole, cut, baled and rough shredded STs <= 15xDDIC or 20,000 sq. ft., whichever is greater
			Within 24 hours of receipt, removes liquid from scrap tires or treats with pesticide/larvicide or documents proof of prior mosquito control				Maximum storage 20,000 sf of TDC and TDF

		Maximum storage processed scrap tire products and by-products, max. 20,000 sq. ft.				(G) Fire contingency plan onsite
		(F) Additional Requirements				
		Outside storage whole, cut, baled and rough shredded STs				(H) Mosquito and vector control
		Pile size <= 2,500 sq. ft.				Maintain ST free of water at all times
		Pile height <= 14'				Apply pesticide/larvicide (instead of keeping ST dry at all times)
		See fire break chart (Appendix I)				If mosquitoes or mosquito larvicide discovered by inspector, apply larvicide/adulticide
		Approved alternative stacking plan				Proper records available for mosquito control
		Outside storage processed scrap tire shreds <= 4", TDC or TDF				(I) Fire equipment on site
		Pile size <= 250'L and 50'W				(J) Records
		Pile height <= 14'				Shipping Papers
		See fire break chart (Appendix I)				Use of Ohio EPA shipping papers
		Inside storage whole, cut, baled and rough shredded STs				Proper completion of Ohio EPA forms and all required information
		Pile size <= 2,500 sq. ft.				Use of non-Ohio EPA shipping papers that contain content similar to Ohio EPA forms
		Width of fire aisles at least 8' between ST storage piles				Proper completion of non-Ohio EPA forms and all required information
		ST storage piles at least 18" from sprinkler deflectors				Maintain three years of shipping papers
		ST storage piles at least 3' from roof structure				Completing daily logs
		ST storage piles at least 3' from unit heaters, radiant space heaters, duct furnaces and flues				Maintain three years of daily logs
		Inside storage processed scrap tire shreds <= 4", TDC or TDF				Other
		Pile size <= 250'L and 50'W				Obtain authorization to accept non-ST waste
		Width of fire aisles at least 8' between ST storage piles				Obtain license
		ST storage piles at least 18" from sprinkler deflectors				Maintain copy of valid license onsite
		ST storage piles at least 3' from roof structure				Maintain copy of approved registration onsite
		ST storage piles at least 3' from unit heaters, radiant space heaters, duct furnaces and flues				



Division of Materials and Waste Management
 Scrap Tire Storage Facility Self-Inspection Checklist

Facility Name:

Person Completing Inspection:

Date:

Time:

Weather :

This checklist is designed for a facility owner/operator to monitor compliance with requirements identified in OAC 3745-27-65. The letter identified in front of each category represents the section in rule OAC 3745-27-65. Please mark the box in the appropriate column to denote compliance status. Marking the "N" box indicates non-compliance with regulation. Please mark the "N/A" box if not applicable to this location. This checklist is not all inclusive of regulations applicable to scrap tires.

Y	N	N/A		Y	N	N/A	
			(C) General operational criteria				
			Only accept whole scrap tires				Portable containers >- 100' from buildings not owned/leased by o/o or >-15' from buildings owned by o/o
			Remove and dispose of any other waste				Receive/transport scrap tires only to allowed facilities
			Maintenance of access roads				Scrap tires not stored under bridges, elevated trestles, elevated roadways, elevated RR or under power lines with > 750 volts or that supply power to fire emergency system
			Control of access to facility				Access for emergency vehicle
			Prevent scavenging				Scrap tires separated at least 50' from ignition sources
			Minimization of work area				(E) Maximum storage area size
			Nuisance, health hazard, water pollution or air pollution				For Class II registered facilities, within permitted storage area (max 10,000 sf)
			Post instructions at entrance and scrap tire handling area(s)				For Class I permitted facilities, within permitted storage area (max 3 acres)
			Exclusion of animals				Only stores scrap tires in storage area
			Appropriate runoff management				(F) Outside storage
			(D) General management				Pile size <= 2,500 sq ft
			No submergence or soil cover of scrap tires				Pile height <= 14'
			Scrap tire handling areas and fire breaks clear and accessible				<i>See fire break chart (Appendix I)</i>
			Within 24 hours of receipt, removes liquid from scrap tires or treats with pesticide/larvicide or documents proof of prior mosquito control				Have approved alternative stacking plan



Division of Materials and Waste Management
 Scrap Tire Storage Facility Self-Inspection Checklist

		Maintain sufficient drainage to prevent water from ponding or collecting in storage area				(F) Inside Storage
		Pile size <= 2,500 sq ft				Use of Ohio EPA shipping papers
		Width of fire aisles at least 8' between ST storage piles				Proper completion of Ohio EPA forms and all required information
		Scrap tire storage piles at least 18" from scrap deflectors				Use of non-Ohio EPA shipping papers that contain content similar to Ohio EPA forms
		Scrap tire storage piles at least 3' from roof structure				Proper completion of non-Ohio EPA forms and all required information
		ST storage piles at least 3' from unit heaters, radiant space heaters, duct furnaces and flues				Maintain three years of shipping papers
		(G) Fire contingency plan onsite				Completing daily logs
		(H) Mosquito and vector control				Maintain three years of daily logs
		Maintain scrap tires free of water at all times				Other
		Apply pesticide/larvicide (instead of keeping scrap tires dry at all times)				Obtain authorization to accept non-scrap tire waste
		If mosquitoes or mosquito larvicide discovered by inspector, apply larvicide/adulticide				Obtain license
		Proper records available for mosquito control				Maintain copy of valid license onsite
		(I) Fire equipment on site				Maintain copy of approved registration onsite
		(J) Records				
		Shipping papers				



Division of Materials and Waste Management
 Scrap Tire Mobile Recovery Facility Self-Inspection Checklist

Facility Name:		
Person Completing Inspection:		
Date:	Time:	Weather :

This checklist is designed for a facility owner/operator to monitor compliance with requirements identified in OAC 3745-27-67. The letter identified in front of each category represents the section in rule OAC 3745-27-67. Marking the "N" box indicates non-compliance with regulation and a correction is needed.

Y	N	N/A		Y	N	N/A	
			(G) Scrap Tire Handling Areas				STs not stored under bridges, elevated trestles, elevated roadways, elevated RR or under power lines with > 750 volts or that supply power to fire emergency system
			Comply with restrictions in identified in OAC 3745-27-62(B)				(H) Inside storage
			Not within 100' of any property line or from other buildings or structures owned/leased by property owner or o/o or MSTRF				Pile size <= 2,500 sq. ft.
			(alternative to 100') Unless scrap tire handling area contains less than 800 and more than 500 ST and is at least 56' from buildings, structures or property line of property owner or o/o				Width of fire aisles at least 8' between scrap tire storage piles
			(alternative to 100') Unless 500 ST or less in scrap tire handling area that is at least 25' from buildings, structures or property line of property owner or o/o				ST storage piles at least 18" from sprinkler deflectors
			Not within 500' of domicile not owned/leased by o/o or property owner or within 200' of domicile owned/leased by o/o or property owner				ST storage piles at least 3' from roof structure
			Not within 200' of a stream, lake or wetland				ST storage piles at least 3' from unit heaters, radiant space heaters, duct furnaces and flues
			(H) Outside storage				STs separated at least 50' from ignition sources
			Pile size <= 2,500 sq. ft				Scrap tire handling areas and fire breaks clear and accessible
			Total for all storage piles does not exceed 5,000 sq. ft.				(H) Mosquito Control
			Pile height <= 8'				Within 24 hours of receipt, removes liquid from scrap tires and store ST to be water free

			Width of fire break between piles and buildings and structures >= 56'				
Y	N	N/A		Y	N	N/A	
			Apply a pesticide/larvicide at manufacturer recommended intervals or at least every thirty days				(L) Records
			Removed all scrap tires and processed STs before leaving site or remaining processed ST materials meet requirements in (G) before leaving site				Use of Ohio EPA shipping papers
			Proper records available for mosquito control				Proper completion of Ohio EPA forms and all required information
			(I) General operational criteria				Use of non-Ohio EPA shipping papers that contain content similar to Ohio EPA forms
			Only accept scrap tires				Proper completion of non-Ohio EPA forms and all required information
			Remove and dispose of any other waste				Maintain three years of shipping papers
			Control of access to facility				Maintain three years of daily logs
			Prevent scavenging				Other
			Minimization of work area				Obtain authorization to accept non-scrap tire waste
			Nuisance, health hazard, water pollution or air pollution				Obtain license
			Post instructions at entrance and scrap tire handling area(s)				Maintain copy of valid license onsite
			If in location more than 6 months, obtained proper approval				Maintain copy of approved registration onsite
			(K) Fire contingency plan onsite				
			(K) Fire equipment on site				



Instructions for Completing Scrap Tire Collection, Storage and Recovery Facilities Log of Operations

Form 1 – Cover Sheet

Complete Form 1 at the beginning of each license year. If a section does not apply, indicate that it is not applicable with the notation N/A. If any of the information contained on Form 1 changes during the license year, attach an addendum to the form with the corrections and the date on which they occurred. Maintain Form 1 at the beginning of the complete Log of Operations.

Form 2 Daily Log of Operations – Incoming Materials Log

Form 2 is the record of scrap tires received on a particular day. Enter the Date and Facility Name in the appropriate spaces at the beginning of each day. The incoming materials log has to be completed for everyday that the facility is operated. The body of the form contains several columns and rows. A separate, complete entry (row) must be made on the form for each individual load of scrap tires received. Use as many copies of Form 2 as needed to record all loads of scrap tires received for each day.

Column 1 - Unique vehicle number: This number should be a unique number that can identify each vehicle, trailer or rail that brings scrap tires to the facility. This could include a license plate number, a trailer number, a rail car number, roll-off box number, etc.

Column 2 - Scrap Tire Transporter (Business Name or Registration ID) or General Public: For a scrap tire transporter, the name of the business or the Ohio EPA registration ID on the transporter's registration certificate should be identified here. When accepting scrap tires from the public, list general public in this column. The facility can capture more specific information if it chooses.

Column 3 - Mosquito Control (Received dry, MCD*, WLR* or processed*): The facility needs to capture the proper information to demonstrate that effective mosquito control measures were taken upon receipt of scrap tires. Listing "dry" indicates that the load of scrap tires was received free of water. Listing "MCD" (stands for mosquito control documentation) indicates that the transporter provided proper records of mosquito control when the scrap tires were delivered to the scrap tire facility. Listing "WLR" (stands for wet and liquid removed) indicates that the scrap tires were received wet and the liquid was removed from the scrap tires prior to storage. Processed is explained below under additional information provided for scrap tire recovery facility.

In the case of a scrap tire collection or storage facility:

OAC 3745-27-65 allows liquid to be removed from a scrap tire or for a pesticide or larvicide to be applied within 24 hours of arrival. If the removal of liquid from the load of scrap tires does not occur on the same day, denote the day that the liquid was removed on the day that logs receipt of the load of scrap tires. For instance, if the load of scrap tires that contained water was received on January 1st and the water was bounced out of the load of scrap tires on January 2nd, indicate on the January 1st log (next to the load) that the water was removed January 2nd. If the application of the pesticide/larvicide does not occur on the same day, denote the day that the pesticide/larvicide was applied in this section of the daily log. This information also has to be captured in the mosquito control records.

In the case of a scrap tire recovery facility:

For scrap tires that are received wet and for which no pesticide/larvicide has been applied, the owner or operator must either process, remove the water or apply a pesticide/larvicide within 24 hours of receipt. If the mosquito control measure is not employed on the day in which the load of scrap tires are accepted, denote the day that the allowed control measure was completed on the day that logs receipt of the load of scrap tires.

Column 4 - Amount of Scrap Tires (Number, Tons or yd³): Identify the amount of scrap tires received by number, tons or cubic yards.

Column 5 - Type of Tires in Percentage: Identify the composition for the load of scrap tires received. The composition should be listed in percentages and should be broken out by the estimated amount of passenger car tires, semi-truck tires and over the road tires. For example, a load of scrap tires weighing 16,000 pounds is received at the scrap tire facility. This load contains 10 semi-truck tires and the remainder of the load is passenger car tires. Using Appendix I “Scrap Tire Conversion Factors” an assumption is made that the semi-truck tires weigh 1,000 pounds. Therefore, the percent composition for passenger car scrap tires would be calculated by $[(16,000-1,000)/16,000]$ which is approximately 94% passenger car tires, 6% for semi-truck scrap tires and 0% for OTR.

Column 6 - Place of Origin: County (State if not Ohio): Identify the county where the scrap tires were generated. If the transporter of the scrap tires is a member of the public, please identify the county in which the transporter lives. When accepting scrap tires from a transporter that services businesses, ask for the county in which most of the businesses are located. A percentage can be provided here if businesses are located in more than one county.

Form 3a. Daily Log of Operations – Outgoing Materials Log for Scrap Tire Collection and Storage Facilities

Form 3a. is the record of loads of scrap tires shipped out from a scrap tire collection facility or scrap tire storage facility. The form is designed to correspond with allowed shipping practices identified in rule 3745-27-65(D)(8).

The outgoing materials log does not have to be completed for everyday that the facility is operated. The body of the form contains several columns and rows. A separate, complete entry (row) must be made on the form for each individual load of scrap tires shipped out.

Column 1 - Date: Identify the day in which the load of scrap tires was shipped out.

Column 2 – Scrap Tire Transporter by Business Name or Registration ID: Identify the name of the transporting business or the Ohio EPA registration ID from the transporter’s registration certificate that is hauling the scrap tires from the site

Column 3 – Disposal Facility: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility to a disposal facility.

Column 4 – Used Tire Dealers or Tire Retreaders: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility and delivered to used tire dealers or tire retreaders.

Column 5 – Beneficial Use: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility and delivered to a site for a beneficial use project.

Column 6 – Transporter: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility and delivered to another registered scrap tire transporter.

Column 7 – Scrap tire collection or storage facility: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility and delivered to a scrap tire collection or storage facility.

Column 8 – Scrap tire recovery facility: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility and delivered to a scrap tire recovery facility.

Column 9 – Solid waste incineration or energy recovery facility: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire facility and delivered to a solid waste incineration or energy recovery facility.

Column 10 - Destination: County (State if not in Ohio): For each load, identify the Ohio county or state where the scrap tires or processed scrap tires were shipped.

Form 3b. Daily Log of Operations – Outgoing Materials Log for Scrap Tire Recovery Facilities

Form 3b. is the record of loads of scrap tires shipped out from a scrap tire recovery facility. The form is designed to correspond with the reporting columns in the Scrap Tire Facility Annual Report.

The outgoing materials log does not have to be completed for everyday that the facility is operated. The body of the form contains several columns and rows. A separate, complete entry (row) must be made on the form for each individual load of scrap tires shipped out.

Column 1 – Scrap Tire Transporter by Business Name or Registration ID: Identify the name of the transporting business or the Ohio EPA registration ID from the transporter’s registration certificate that is hauling the scrap tires from the site

Column 2 – Whole scrap tires shipped-out for disposal: For each load, identify the number, weight or volume of whole scrap tires that are hauled away from the scrap tire recovery facility to a disposal facility.

Column 3 – Whole scrap tires shipped out to used tire dealers, tire retreaders and whole tire beneficial use sites: For each load, identify the number, weight or volume of scrap tires that are hauled away from the scrap tire recovery facility and delivered to used tire dealers, tire retreaders and approved beneficial use project sites.

Column 4 – Civil Engineering and Beneficial Uses (TDC): Identify the weight or volume for the load of tire derived chip or aggregate that is hauled away from the scrap tire recovery facility to be used in an authorized beneficial use project.

Column 5 – Fuel Uses: Identify the weight or volume for the load of tire derived fuel that is hauled away from the scrap recovery tire facility.

Column 6 – Crumb Rubber: Identify the weight or volume for the load of crumb rubber that is hauled away from the scrap tire recovery facility.

Column 7 – Assembled Products: For the load of assembled products out of scrap tires, identify the number, weight or volume of assembled products that are hauled away from the scrap tire recovery facility. Examples of assembled products include scrap tire planters, scrap tire bricks, scrap tire pavers, etc.

Column 8 – Processed tires shipped-out for more processing: This column is designed to capture scrap tires that have been processed, but are intended to be processed further for size reduction, metal removal, etc. at another facility. Identify the number, weight or volume of processed tires that are hauled away from the scrap tire recovery facility.

Column 9 – Processed scrap tire material shipped out for Scrap Tire Monofill Disposal: This column is designed to be used for scrap tire recovery facilities that process scrap tires (in order to reduce the scrap tire size) for placement in a disposal facility. Identify the number, weight or volume of processed tires that are hauled away from the scrap tire recovery facility for placement in a disposal facility.

Column 10 - Destination: County (State if not in Ohio): For each load, identify the Ohio county or state where the scrap tires or processed scrap tires were shipped.

Form 4a Scrap Tire Refusal Log

Form 4 is the record of refused loads of scrap tires. Enter the Facility Name at the top of each page. The scrap tire refusal log should only be completed when a load is refused. The body of the form contains several columns and rows. A separate, complete entry (row) must be made on the form for each individual load of scrap tires refused.

Column 1 - Date: Identify the day in which the load of scrap tires was refused.

Column 2 - Scrap Tire Transporter (Name or Registration ID) or General Public: For a scrap tire transporter, the name of the business or Ohio EPA registration ID from the transporters registration certificate should be identified here. When accepting scrap tires from the public, list general public in this column. The facility can capture more specific information if it chooses.

Column 3 - Amount of Tires (Number, Tons or yd³): Identify the amount of scrap tires refused by number, tons or cubic yards.

Column 4 - Reason for Refusal: Identify the reason why the load of scrap tires was refused. For example, the scrap tires were filled with mud, the load of scrap tires were commingled with a significant amount of garbage, etc.

Column 5 - Place of Origin: County (State if not Ohio): Identify the county from which the scrap tires were refused. If the transporter of the scrap tires is from the public, please identify the county in which they live. When accepting scrap tires from a transporter that services businesses, ask for the county in which most of the

businesses are located. If the loads of scrap tires were brought in from another state, identify the state from which the scrap tires were generated.

Form 4b Scrap Tire Load Refusal Form

This form shall be completed (both sections A and B) by the owner/operator of the scrap tire recovery facility when a load of scrap tires is refused in accordance with OAC 3745-27-65 and provided to the registered scrap tire transporter or a scrap tire transporter that meets one of the exclusions allowed in OAC 3745-27-54(A)(2). The scrap tire transporter is expected to provide this form to a licensed solid waste disposal facility (i.e. landfill) as a tracking mechanism and to legitimize disposal of the scrap tires at the licensed solid waste disposal facility.

The sending scrap tire recovery facility and the receiving solid waste disposal facility should maintain a copy of the refusal form with their daily logs.

Form 5 Fire Response Log:

Form 5 is the log used to document the time, day and details of a fire that occurred at the facility. OAC 3745-27-65(I)(3) requires that details of the fire be documented within seven days of occurrence. This written information should be sent to the Ohio EPA district office in which the facility is located, the Ohio EPA central office, the solid waste management district of the area in which the facility is located, and the local health department.

The form outlines specific information that Ohio EPA wants documented about the fire, the response taken to address the fire at the facility and the impact of the fire on the facility, human health and the environment. The specific information for which the form requires documentation is below.

- **Notification of local police and fire agencies:** Identify the local police and fire agencies that were called by the facility for assistance. Identify all fire departments that were used to extinguish the fire.
- **Notified Ohio EPA emergency response team:** Identify when Ohio EPA's emergency response team was contacted. If other Ohio EPA offices, the local health department or the solid waste management district were contacted, provide this information.
- **Person that reported fire to Ohio EPA:** List the individual that contacted Ohio EPA to report the fire at the facility.
- **Explain why the fire occurred:** If known, provide the reason why the fire occurred. Were scrap tires located too close to an ignition source, arson, etc.
- **Quantities of tires involved:** Provide an estimate of the quantity of scrap tires that were completely and partially burned in the fire in passenger tire equivalents (PTE).
- **Extent of injuries, if any:** If anyone was injured from the fire, provide a brief description of the injuries sustained, number of persons that went to the hospital, etc.
- **Extent of damage to facility, if any:** Was the fire confined to a portion of the facility; did it spread beyond the property line?
- **Possible hazards to human health and the environment:** Provide a preliminary evaluation of environmental damage (possible soil contamination, surface water, ground water).
- **Actions taken to suppress the fire:** Identify the chemicals used to suppress the fire such as water, foam suppressant and dirt.
- **Measures taken to contain residuals such as pyrolytic oil and water:** Were berms, dikes or other containment devices utilized? If yes, please describe how these sources of containment were used.

- Measures taken to prevent the fire from spreading to other areas of the facility: Describe if piles of scrap tires and/or portable containers were moved during the fire to prevent their ignition
- Measures taken to prevent another fire from occurring or spreading to other areas of the facility: The information provided should include whether scrap tires were removed, whether the distance has been increased between storage piles and/or portable containers, will portable containers or piles of stored scrap tires be isolated?
- Information that may be important to document about the fire: Provide any additional information that you deem important to document about the fire such as necessary operational changes at the facility, etc.

Form 6 Scrap Tire Recovery Facility DDIC Daily Log

Form 6 is the record of the scrap tire recovery facility's daily design input capacity. The initial DDIC shall be calculated as an estimated average of the total daily processing amount for all operating days in each month. This amount shall be expressed in weight. The calculations shall be updated for each new licensing year to determine the need for a facility modification. The updated calculations shall be based on the amounts recorded in Form 6.

The log should be completed for each month in the calendar year. Entries should be provided for everyday that the facility is in operation. For days in which the facility is in operation, but processing equipment is not operated, an entry of "no processing" or some other notation should be made in the log.

Enter the Facility Name at the top of each page along with the month.

Columns 1,3 and 5 – Day: The form accounts for all possible days in a calendar month.

Columns 2, 4 and 6 – DDIC (units): For each day, record how many scrap tires were processed either by weight (for facilities utilizing scales), number or volume. For days in which scrap tires were not processed but the facility was operated, denote "no processing" in the log for that day. For days in which the facility was not open, denote "closed" in the log for that day.

Monthly Average DDIC (tons): Calculate the monthly average DDIC in tons. To calculate this value, sum all DDIC values recorded for the month and divide by the number of days that the processing equipment was operated. In this calculation, do not include operating days when scrap tires were not processed. If the DDIC is zero, do not include that value in the DDIC summation and do not add the day in which processing equipment was not used in the number of days for the calculation.

For example, scrap tires were processed through the facility's primary shredder 20 days for the month of June, even though the facility operated 21 days. The sum for all DDICs values for the month was 650 tons. The average monthly DDIC is calculated to be $650 \text{ tons} / 20 \text{ days} = 32.5 \text{ tons per day}$

The conversion factors to use between weight and volume or number count are found in Appendix I "Scrap Tire Conversion Factors" of the Scrap Tire Facility Log of Operations.

Monthly Facility Notes: Identify monthly operational information about the facility here. If the facility does not operate on the weekends, a note indicating standard operating days could be provided in this section. If the facility was down a shredder, this information could be listed which would explain why a lower DDIC was realized for a calendar month. The monthly DDIC can be calculated in this section as well.

Forms 7a, 7b,7c and 7d Self-Inspection Checklist: There are four self-inspection checklists. The checklists are not mandatory. Therefore, the facility is not required to use them to determine or monitor compliance with applicable Ohio

EPA regulations. Each checklist is designed for a facility owner/operator to monitor compliance with requirements identified in OAC 3745-27-65.

- Form 7a is the checklist for a scrap tire collection facility.
- Form 7b is the checklist for a scrap tire recovery facility
- Form 7c is the checklist for a scrap tire storage facility.
- Form 7d is the checklist for a mobile scrap tire recovery facility.

Appendix I

Scrap Tire Conversion Factors

<u>Whole Scrap Tires</u>	<u>Weight</u>	<u>Tires/ton</u>
Passenger	20 Lbs. Each	100 Tires/ton
Truck	100 Lbs. Each	20 Tires/ton

10 passenger tires or 3 truck tires per cubic yard

20 lbs. of whole or processed scrap tire material = 1 passenger tire equivalent (PTE)

The above conversion factor (20 lbs. = 1 PTE) shall be used to convert all whole truck and larger tires to an equivalent amount of PTEs.

The above conversion factor (20 lbs. = 1 PTE) shall be used to convert all cut, shredded, or processed tire material to an equivalent amount of PTEs.

Baled Tires (Cubic Yard Size) 100 Passenger Tires Per Bale = One Ton

Shredded Tires

700 pounds = 1 cubic yard (yd³)

One ton of tire chips = 2.14 yd³ to 2.85 yd³

One yd³ of tire chips = 0.35 tons to 0.47 tons

One yd³ of tire pieces measuring between 0.5 inch and 2.0 inches are defined as **Achips®** by the American society for testing and materials (ASTM D6270-98) and can be expected to hold approximately 45 passenger tire equivalents.

One yd³ of tire pieces measuring between 2.0 inches and 12.0 inches are defined as **Ashreds®** by ASTM D6270-98 and can be expected to hold approximately 33 passenger tire equivalents.

[Comment: The definition of **Achips®** and **Ashreds®** used by ASTM D6270-98 differs from the definition of these terms in the Ohio Administrative Code and should not be confused with the use of these terms or tire derived chip (TDC) or tire derived fuel (TDF) in the Ohio Administrative Code.]

These conversion factors are to be used as standard approximations in all scrap tire facility applications and scrap tire facility annual reports.

Appendix I

Fire Break Widths

Length of the face of pile adjoining fire break	Height	8 Feet high	10 Feet high	12 Feet high	14 Feet high
	Fire break widths are listed below.				
25 Feet		56 Feet	62 Feet	67 Feet	73 Feet
50 Feet		75 Feet	84 Feet	93 Feet	100 Feet
100 Feet up to 250 feet		100 Feet	116 Feet	128 Feet	137 Feet
<p>NOTE: 250 feet is the maximum length of a tire pile allowed by these rules.</p> <p>The maximum width of a pile over 50 feet long is 50 feet.</p>					
<p>These distances are based on the National Fire Protection Association, NFPA 230, Standard for the Fire Protection of Storage, 2003 Edition.</p>					