

Emissions Minimization Plan

Regulation 6, Particulate Matter, Rule 4
Metal Recycling and Shredding Operations

Schnitzer Steel Products Company

District Site #208

1101 Embarcadero West

Oakland, CA 94607

May 2021

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Responsible Manager Certification

6-4-404.1

I, as the Responsible Manager of this facility, hereby certify that as of this date, this Emissions Minimization Plan contains all elements and information required of a complete EMP pursuant to District Regulation Section 6-4-403 and that the information contained in this EMP is accurate.

Certified by: 

Dated: 5-27-21

Dan Woltmann, Regional General Manager

Responsible Manager

Designation of Confidential Business Information

Describe the information you designate as “CONFIDENTIAL” that is trade secret or otherwise exempt under law from public disclosure. Specify what is “CONFIDENTIAL” and include specific section(s) and corresponding page number(s).

Name of Section / Page Number(s)	Description of Confidential Information

Company Description

Schnitzer Steel Products Company (Schnitzer) owns and operates a scrap metal recovery and recycling facility (Facility) occupying approximately 26.5 acres of flat-lying land adjacent to the Oakland Inner Harbor waterfront and the Port of Oakland. The facility is bounded to the south by the Oakland Inner Harbor, to the east and west by the Port of Oakland, and to the north by Embarcadero West and Union Pacific Railroad tracks. Schnitzer's operations are limited to scrap metal recycling. Schnitzer does not engage in the recycling of secondary materials or wastes other than those that are generated incidentally in the course of scrap metal recycling operations.

Operations at the site include shredding of light iron products including automobiles, appliances, and other recyclable light steel materials; shearing and torch cutting of recyclable heavy melting steel (HMS) products; preparation and sorting of ferrous and non-ferrous metal recycling feedstock; temporary storage of finished recycled metal products, incidental non-metal recyclable products and non-recyclable waste materials, and maintenance of facility equipment. Raw bulk scrap is delivered to the Facility by both rail and truck at the main commercial entrance where it is inspected and sorted.

Incoming bulk scrap metal is segregated into the following material streams:

- "Bonus" HMS material that will be processed by torch cutting into smaller sizes for shipment;
- Standard grade HMS that will be processed by shear cutting into smaller sizes for shipment; and
- Shredder feed material consisting of light iron products including automobiles, applications, and other recyclable light steel materials.

At the shredder, light iron products are shredded so that ferrous metal can be isolated from nonferrous metals and residual non-metallic materials. The intermediate non-ferrous stream resulting from shredding operations is known as non-ferrous raw (NFR), which consists of both non-ferrous metal and non-metallic materials. NFR is processed further in the Joint Products Plant where non-ferrous metal is separated by metal type from non-metallic materials. Upon completion of the non-ferrous separation processes, the non-metallic shredder residue is then treated with cement and silicate, which binds trace remnant metals in the residue to reduce their solubility. The treated shredder residue is transported by truck to off-site disposal locations for use as alternate daily landfill cover.

The processed ferrous scrap is stockpiled at the Facility and is eventually loaded at the Facility's dock into cargo ships for export.

Company Organizational Chart and Schedule of Management Operators

6-4-403.1.3

- A. Company Organizational Chart - Attach a copy of the organizational chart of the company, which describes the business structure and includes the name of the facility's Responsible Official. Label the attachment with the corresponding Attachment #.

Attachment # 1

- B. Schedule of Management Operators - Provide the names and contact information of the Onsite Responsible Manager(s) and Onsite Alternate Contact(s) and their duty schedule.

Onsite Responsible Manager(s)

Name: Dan Woltmann
Title: Regional General Manager
Phone: 415-638-2415
Email: dwoltmann@sch.n.com
Schedule/Shift: M - F / Variable

Name: Jose Aguirre
Title: Terminal Operations Manager
Phone: 510-774-8053
Email: jaguirre@sch.n.com
Schedule/Shift: M - F / Variable

Name: Patrick Lemos
Title: Joint Products Plant
Operations Manager
Phone: 415-517-4247
Email: plemos@sch.n.com
Schedule/Shift: M - F / Variable

Onsite Alternate Contact(s)

Name: Dane Morales
Title: Shredder Operations Manager
Phone: 510-774-5544
Email: dmorales@sch.n.com
Schedule/Shift: M - F / Variable

Name: Steve Haffner
Title: Maintenance Manager
Phone: 415-531-5781
Email: shaffner@sch.n.com
Schedule/Shift: M - F / Variable

Name: Andrew Ward
Title: Ship Loading Operations Manager
Phone: 510-499-3257
Email: award1@sch.n.com
Schedule: M - F / Variable

Name: Pamela Gray
Title: Regional Environmental Manager
Phone: 510-912-7576
Email: pgray@sch.n.com
Schedule/Shift: M - F / Variable

Operations Subject to EMP

6-4-402

The EMP shall address all of the following operations that are conducted at the metal recycling and shredding facility per 6-4-402 to reduce fugitive emissions.

Please check all facility operations that apply.

402.1 Roadways and Other Trafficked Surfaces	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
402.2 Metal Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
402.3 Shredder Residue (SR) Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
402.4 Depollution Operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Contents of the EMP

6-4-403

The owner or operator of the metal recycling and shredding facility subject to Regulation 6-4 shall prepare a complete and accurate EMP that details the management practices, measures, equipment and procedures that are employed or scheduled to be implemented to minimize fugitive emissions for the operations subject to the EMP.

A. *Metal Recycling and Shredding Operations*

- I. Metal Management - List and provide a description of all process equipment, materials received, processed or stored, abatement and control equipment and monitoring parameters to reduce fugitive emissions. Include a comprehensive list of all abatement and control equipment for operations subject to 6-4-402 and specify the source(s) that it abates.
- II. Shredder Residue (SR) Management - Identify the equipment or structures that are used in the management of shredder residue, including the treatment process used to reduce the leaching potential of residual soluble metals in the residue.
- III. Depollution Operations - Describe policies and procedures pertaining to: 1) the safe removal of materials from major appliances and vehicles that require special handling prior to crushing or transferring to balers or shredders for recycling; and 2) special handling of these materials if discovered during the recycling process.

B. *Scrap Acceptance Policy (6-4-403.3)* - Provide and attach a copy of the facility's scrap acceptance policy.

C. *Management Practices to Reduce Fugitive Emissions* - List and provide descriptions of all management practices conducted, including preventative maintenance activities, pollution prevention, housekeeping and source reduction measures to reduce fugitive emissions of particulates. Include the frequencies or circumstances when these measures and practices are undertaken (schedule of activity).

D. *Description of Onsite Management and Schedule of Facility Operations* - Describe the onsite management practices of metal recycling and shredding operations to reduce fugitive emissions, including those during business hours and after the close of business. Provide the approximate schedule of operations.

Metal Recycling and Shredding Operations

I. Metal Management

METAL MANAGEMENT

Provide a description of metal management operations which include the receipt, on-site transport, collection, sorting, segregation, separation, compilation, crushing, shredding, and storage of metals, metal-containing materials, and non-metallic materials at the metal recycling and shredding facility. Include all abatement and monitoring parameters that are employed.

Section #	Operation	District S#	Description of Operation	Source Abated	District A#	Abatement Required by Permit	Type of Abatement	Abatement Monitored	Monitoring Parameters
1	Receipt		Incoming scrap metal loads mixed with excessive amounts of soil, trash or debris are rejected unless the scrap metal can be isolated from the incoming load prior to acceptance of the load; soil, trash and debris are rejected.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Visual inspection of incoming loads. Source Control Program and suppliers have Hazardous Substance Removal Contracts (HSRCs) in place.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visually observed amount of soil, trash and debris that can become a source of fugitive particulate. Rejection of all or part of loads that contain prohibited material.
2	Transport		Transport of material is conducted using tractor trailers during delivery (receipt) of material. Internally, material is transported using Terex mine trucks, front end loaders, grapple-equipped material handlers, skip pan loader, and conveyor belt systems. (Note: Schnitzer considers Transport and Collection to be similar activities)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water is sprayed on the ship loading skip pan during loading to prevent dust emissions. Sweeper truck cleans all paved roadways, concrete pier, and Embarcadero West per Sweeping SOP. The water trucks wet surfaces within the facility, minimizing the mobilization of dust during transport. The pier is swept of sediment everyday during ship loading. Wheel washers at concrete pier and front gate washes truck tires before trucks enter the concrete pier or exit the facility. These BMPs remove sediment from truck tires leaving the facility and entering the pier area; the sweeper removes dirt from the concrete pier surface and roads, including Embarcadero West.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visual observation of Embarcadero West outside the main gate and on the concrete pier to assure that no excess dust is present. Visual observation to confirm that road cleaning is effective within facility and on Embarcadero West. Monthly storm water BMP inspections conducted by REM to confirm wheel washers and sweeping vehicles are maintained properly to assure proper dust control on pier and front/pier wheel washers (records maintained in REMs office). Regular inspection of pier and front gate wheel washers by Operations (inspection records maintained in Work Order system). Routine maintenance is conducted on sweepers by Operations (service records maintained in Work Order System). Sweeping log is maintained per SOP. Records are maintained in Operations Department.

3	Collection	Collection of material is conducted using tractor trailers during delivery (receipt) of material. Internally, material is transported using Terex mine trucks, front end loaders, and grapple-equipped material handlers. (Note: Schnitzer considers Transport and Collection to be similar activities)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water trucks spray loads when dropped and piles as needed to reduce potential dust.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visible observation for dust.
4	Sorting / Segregation	Segregation of material involves stockpiling different grades of ferrous metal such as prepared HMS, unprepared HMS, bonus grade HMS, and Shredder Infeed Material. Tractor trailers and rail cars deliver most material. Metal is transported internally using Terex mine trucks, material handlers, and conveyor belt systems.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water trucks spray HMS and Bonus loads carrying heavy rust coating. Water spray reduces potential dust.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visible observation for dust.
5	Separation	Separation involves processing downstream from the shredder, utilizing a magnetic drum to separate ferrous metal from Non-Ferrous Aggregate. Additionally, recoverable non ferrous and ferrous metal is separated from Non Ferrous Aggregate in the Joint Products Plant.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11, 12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Shredder infeed material is wetted thoroughly with water and fire retardant foam in the shredder as it is conveyed to the rotating magnetic drum. Shredder is fully enclosed with particulate emission control system. The Joint Products Plant (JPP) is fully enclosed with particulate filter baghouse to collect dust.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visual observation to detect any escaping fugitive dust.
6	Compilation	Compilation includes the stockpiling of finished shredded ferrous metal. This is transported via Terex truck to ship. Stockpiling of finished non-ferrous metal (Zorba) is loaded into containers and transported off-site via truck.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water spray: Shredded product storage pile is water spray-controlled by mobile and/or stationary waterspraying equipment in loading areas.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visible observation for dust.
7	Crushing	This facility operates no crushing equipment.	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Shredding	Shredding is the feeding of light iron, vehicle bodies, and tin (shred feedstock) into a hammer mill that reduces the size of the material into fist size chunks of ferrous metal and non-ferrous aggregate.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6, 11, 12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	District Source #6 at this facility is abated by the following District required abatement devices: Water spray system (A6), and the Venturi Scrubbers (A-11 and A-12).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ventilation fan current (amps), water flow rate (gallons per minute), and pressure differential operating range (inches of H2O) of the Venturi scrubbers are recorded during shredder operation.
9	Storage of metals	Storage of metals includes the stockpiling of unprocessed metals, intermediate process metals, and finished products. Storage of metals including size, location, and number of stockpiles is dynamic, and can vary greatly from week to week.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stationary and mobile waterspraying equipment are used to wet stored material to prevent generation of dust when loaded on to trucks carrying product to shipping pier or for processing. Piles are watered down as needed.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visible observation to detect any escaping fugitive dust. Piles are sprayed and recorded on watering logs. Records are maintained in Operations Department.

METAL MANAGEMENT

Provide a list of the metals received and/or processed at facility.

Section #	Name of Metal or Metal Alloy
1	Steel
2	Stainless Steel
3	Copper
4	Brass
5	Bronze
6	Aluminum
7	Cast Iron
8	Tungsten
9	Titanium
10	Iron Based Alloys

METAL MANAGEMENT

Identify the storage piles and the types of metal and metal-containing material being stored. Indicate whether any monitoring is conducted and detail the monitoring parameters and equipment used to minimize fugitive emissions.

Section #	Description of Material	MONITORING		
		Monitoring Conducted	Monitoring Parameters	Monitoring Equipment Identify Monitoring Equipment Used
Storage of Delivered Scrap				
1	Shredder infeed storage pile-Ferrous Material	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2	HMS Product Storage Piles (1) & (2), and Bonus Product Storage Pile - Ferrous Metal	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3	HMS material to be sheared pile-Ferrous Metal	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4	Non-ferrous storage	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	No fugitive dust monitoring required because inside Joint Products Plant building.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Storage of Unprocessed Material				
5	Shredder infeed storage pile-Ferrous Metal	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission. Stationary FLIR infrared cameras monitor temperature 24/7.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Stationary FLIR infrared cameras with 24/7 monitoring.
6	Non-ferrous storage	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	No fugitive dust monitoring required because inside Joint Products Plant building.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7	HMS Product Storage Piles 1 and 2 and Bonus storage (Same as Section 2 above)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission. Stationary FLIR infrared cameras monitor temperature 24/7.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Stationary FLIR infrared cameras with 24/7 monitoring.
8	Unprocessed HMS product storage (Material to be sheared)- Ferrous metal (Same as Section 3 above)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission. Stationary FLIR infrared cameras monitor temperature 24/7.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Stationary FLIR infrared cameras with 24/7 monitoring.
Storage of In-process Material				
9	Non-ferrous raw storage piles (two)- Non Ferrous Metal and Non-Metallic Components of Shredder feedstock	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission. FLIR temperature monitoring conducted on storage piles.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Portable FLIR temperature infrared devices. Fire Prevention Monitoring Log. Records maintained in Operations Department.
		<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO
		<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO
		<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO
Storage of Finished Product				
10	HMS Product Storage Piles 1 and 2. (Same ferrous metal piles as in Section 2 above)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
11	Non-ferrous material storage and loading area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
12	Shredded product storage and excess product storage (Can be Bonus product or HMS product) - All ferrous metal.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
13	Zorba storage (aluminum)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Storage of Shredder Residue				
14	Treated shredder residue storage pile-	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Monitoring for visible dust emission.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

	Predominantly non-metallic residual of shredder feedstock.		<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

ABATEMENT AND CONTROL EQUIPMENT

Provide a comprehensive list of all District-permitted abatement and control equipment to reduce emissions.

Section #	Abatement Equipment	District A#	Name of Source(s) Abated and District Source #(s)
1	Water spray system	A6	S6 Steel Shredder; S7 Steel Infeed Conveyor
2	Venturi Scrubber	A11	S6 Steel Shredder; S7 Steel Infeed Conveyor
3	Venturi Scrubber	A12	S6 Steel Shredder; S7 Steel Infeed Conveyor
4	Baghouse, pulse jet and PM filters	A10	S10 Cement Silo
5	Baghouse, enclosed	Exempt	S11 Joint Products Plant

Metal Recycling and Shredding Operations

II. Shredder Residue (SR) Management

SHREDDER RESIDUE (SR) MANAGEMENT

Describe the equipment or structures used for conveyance, storage and treatment of shredder residue (SR) during the recycling process. Include measures to minimize fugitive emissions.

Section #	Equipment or Structure for Processing SR	District S#	SR Stored in an Enclosed Area	MONITORING		SR ADDITIVE	
				Monitoring Conducted	Monitoring Parameters	SR Additive Used	Type and Purpose of Additive
1	Joint Products Plant		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monitoring for visible dust emissions. Stored in an enclosed building with particulate control system baghouse. Material is wetted during processing.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2	Treated Shredder Residue Storage Pile		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monitoring for visible dust emissions. Shredder residue is loaded into trucks inside Joint Products Plant, which is fully enclosed.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Shredder residue is given a final treatment with water, polysilicate solution, and Portland cement. This mixture chemically fixes residual soluble metals, reducing their leachability in landfills. The high residual moisture content due to the addition of water helps to minimize potential fugitive dust. The cement silo is abated by filters.
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	

Metal Recycling and Shredding Operations

III. Depollution Operations

DEPOLLUTION OPERATIONS

List all materials that require special handling and removal in depollution operations.

Section #	Materials Requiring Special Handling or Removal
1	Depollution of appliances or vehicles occurs under limited circumstances by third party contractor or onsite personnel. Appliances, including refrigerators, stoves, washing machines, clothes dryers, and dishwashers which contain capacitors, ballasts, mercury switches, oils, batteries, CFCs, and/or HCFCs are depolluted by EPA certified third party contractors. All wastes generated from depollution activities are profiled and disposed of properly.

DEPOLLUTION OPERATIONS

Describe the policies and procedures pertaining to the safe removal of materials from major appliances and vehicles that require special handling prior to crushing or transferring to balers or shredders for recycling. Include the measures that are implemented when these materials are discovered during the recycling process.

The Facility has a Source Control Program which includes a robust written scrap acceptance policy (SAP) which prohibits acceptance of hazardous materials and/or waste in our incoming scrap metal streams. This policy is designed to keep prohibited material out of ferrous scrap streams and especially shredder feedstock. This policy includes, but is not limited to prohibitions on materials such as:

- Items with elemental Mercury.
- Batteries such as NiCad, Li Ion, Alkaline, etc.
- E-waste
- Scrap with free-flowing liquids (i.e. used oil, etc.)
- Scrap with CFC's (i.e. Refrigerants)
- Scrap with PCBs (i.e. capacitors, ballasts, transformer oil, etc.)
- Military Munitions and other explosives.
- Scrap metal with asbestos
- Radioactive scrap metal
- Materials which contained hazardous materials or waste not meeting the definition of empty (22 CCR 66261.7)

Suppliers must have a signed Hazardous Substance Removal Compliance Contract (HSRCC) on file prior to delivering material. The HSRCC clearly states our SAP and the suppliers must certify that they are not dropping off material that contains hazardous substances. Any materials that are brought to the facility that do not conform to the SAP are rejected and recorded in the Rejection Log.

The most common types of major appliances the Facility receives that may have contained MRSH consist of washers, dryers, refrigerators, freezers, air conditioning units, stoves, ovens, water heaters, space heaters, furnaces, boilers, dehumidifiers, trash compactors, and microwaves. The most common types of MRSH containing appliances received by the Facility are those that held refrigerants (chlorofluorocarbon, hydrochlorofluorocarbons, and non-CFC replacement refrigerant types) and oils (Polychlorinated biphenyl, halogenated, and non- halogenated oils) are typically found in capacitors and compressors. Other MRSH materials that may have been in appliances include mercury switches, batteries, and fluorescent bulbs.

Suppliers that bring in appliances, must also provide a copy of DTSC Form 1430 certifying that the appliances have had MRSH removed by a Certified Appliance Recycler (CAR). Records are maintained onsite for a minimum of 3 years.

Although Schnitzer Steel does not accept appliances that have materials requiring special handling (MRSH), when suspect material is discovered in a load, it is preferentially rejected and returned to the customer. If suspect material were discovered after a load delivery, it would be segregated and depolluted by an EPA/DTSC CAR. The Facility is no longer open to the public (peddlers) for appliance/scrap drop-offs and therefore expect such depollution activities to be rare.

If other prohibited materials are found in scrap, the scrap is isolated and inspected. A third-party vendor is called to depollute the scrap. All wastes generated from any depollution processes are properly profiled and disposed of per local, state, and federal regulations.

Scrap Acceptance Policy

SCRAP ACCEPTANCE POLICY

Attach a copy of facility's Scrap Acceptance Policy. Label the attachment with the corresponding Attachment #.

Attachment # 2

Management Practices
to
Reduce Fugitive Emissions

MANAGEMENT PRACTICES TO REDUCE FUGITIVE EMISSIONS - ROADWAYS AND OTHER TRAFFICKED SURFACES

List and describe facility's management practices to reduce fugitive emissions from roadways and other trafficked surfaces. Detail the schedule of activities conducted.

Section #	Management Practices to Reduce Fugitive Emissions	Schedule of Activity
1	Industrial wheel wash at front gate.	Whenever materials haul trucks exit the plant.
2	Wheel wash at concrete pier.	Whenever material haul trucks travel onto the shiploading pier.
3	Sweeping and brooming of internal paved roads and concrete pier everyday ship loading occurs.	Monday through Friday (twice per day), Saturday (once per day).
4	External paved road (Embarcadero West) swept during normal business hours.	Monday through Friday (twice per day), Saturday (once per day).
5	Watering of internal roads, scrap metal stockpiles and treated shredder residue stockpiles using stationary and mobile waterspraying equipment.	Several times per day, more frequently if needed.
6	Water spraying of scrap product during unloading of transport trucks into skip pan on dock for shipping.	Limited to sprayers being turned on during loading of skip pan.
7	Visual inspection of all onsite roads to assure sweeping is taking place.	Monday through Friday (twice per day), Saturday (once per day). Sweeping log is maintained.
8	Employee training.	Initially for new employees, and annual update for current employees. New employee training includes an air quality component among other pertinent environmental topics. Annual training is a full tailgate session specifically tailored to the Oakland Schnitzer facility. All emission minimization topics are reviewed in this session. Frequency of training is: 1) New Employee: within 90 days of hire. 2) Tailgate Training: once per year for all employees and supervisors.
9	Speed limit of 5mph for equipment and trucks inside yard.	24 hours per day, 7 days per week whenever facility equipment is operating.

MANAGEMENT PRACTICES TO REDUCE FUGITIVE EMISSIONS – METAL MANAGEMENT

List and describe facility's management practices to reduce fugitive emissions. Include practices for receiving, processing and handling scrap and shredded materials to prevent fugitive emissions from these operations. Detail the schedule of activities conducted.

	Section #	Management Practices to Reduce Fugitive Emissions	Schedule of Activity
TRANSPORT	1	Sweeping and brooming of all accessible paved surfaces. As well as the use of stationary and mobile water-spraying systems to dampen material stockpiles and heavily trafficked internal roadways.	Per Sweeping SOP, roadways and paved surfaces are swept Monday - Friday (twice per day) and Saturday (once per day), at minimum.
RECEIPT	2	Visual inspection of incoming truck loads to intercept and refuse loads containing excessive soil. Thorough physical and visual inspections of random selected incoming loads. Annual training of main gate inspectors, including decision of where incoming material will be unloaded.	During all hours of operation when receiving incoming trucks.
COLLECTION	3	Covered by other categories above and below.	
SORTING	4	Main gate inspectors trained to direct incoming trucks to deposit loads at appropriate storage piles.	During all hours of operation when receiving incoming trucks.
SEGREGATION	5	Materials entering facility are segregated into different storage piles before further processing, including Shredder Input Pile, HMS Product Storage Piles 1 and 2, Bonus Storage Pile, Material to be Sheared Storage Pile, and Non-Ferrous Aggregate Storage piles. The non-ferrous aggregate stockpiles are managed in two piles (as necessary) so first in and first out pile management can be used to mitigate the fire potential and enable aisle space for emergency vehicles.	During all hours of operation when receiving incoming trucks or torching operations are being conducted.
SEPARATION	6	Materials being separated after shredding are wetted by initial shredding process. This residual moisture content helps to reduce fugitive dust emissions from separation processes. Torch cutting operations use stationary misting to mitigate emissions.	During all hours of operation when receiving incoming trucks.
COMPILATION	7	Covered by other categories above and below.	
CRUSHING	8	No crushing is conducted at this facility.	
SHREDDING	9	Redundant control devices used to reduce all particulate emissions, including water spraying, enclosure with Venturi scrubbers. Water and fire retardant foam are added during shredding process.	Shredding: 6:00 pm to 11:00 am, Monday through Friday (Can vary).
STORAGE OF METALS		SEE STORAGE PILE MANAGEMENT SECTION	
STORAGE OF METAL-CONTAINING MATERIAL		SEE STORAGE PILE MANAGEMENT SECTION	
STORAGE OF NON-METALLIC MATERIAL		SEE STORAGE PILE MANAGEMENT SECTION	

MANAGEMENT PRACTICES TO REDUCE FUGITIVE EMISSIONS – SHREDDER RESIDUE MANAGEMENT

List and describe facility's management practices to reduce fugitive emissions from processing and handling shredder residue. Detail the schedule of activities conducted.

Section #	Management Practices to Reduce Fugitive Emissions	Schedule of Activity
1	Employee training.	Initially for new employees, and annual update for current employees. New employee training includes an air quality component among other pertinent environmental topics. Annual training is a full tailgate topic specifically tailored to the Oakland Schnitzer facility. All emission minimization topics are reviewed in this session.
2	Initial shredding process adds water and fire retardant foam to feedstock. Residual moisture in Non Ferrous fraction of shred output helps to minimize fugitive dust emissions.	Whenever facility shredder is operating, water is being added to the material being processed.
3	An enclosure equipped with a baghouse at the Joint Products Plant to better contain material and separation process.	The ventilation capture system and the baghouse at the enclosure is operating when Joint Products Plant is in use.
4	Oscillating, elevated stationary and/or mobile water-spraying equipment to mist Joint Products Plant, thereby minimizing fugitive emissions from separation process.	Whenever Joint Products Plant is operating with the exception of rainy days.
5	Baghouse is fully enclosed and water is added at the Joint Products Plant. Filters and pulse jet in use when Cement Silo filled or dosing.	Whenever Joint Products Plant is operating.
6	Loading equipment operators will be trained to limit the fall of material when loading trailers by loading as close as feasible to the top of trailer.	Whenever material is being handled by mobile equipment.
7	Once shredder residue trucks are loaded, they are tarped prior to leaving the facility, further minimizing fugitive emissions.	Whenever treated auto shredder residue is being transported offsite.

MANAGEMENT PRACTICES TO REDUCE FUGITIVE EMISSIONS – DEPOLLUTION ACTIVITIES

List and describe facility's management practices to reduce fugitive emissions from processing and handling materials during depollution activities. Detail the schedule of activities conducted.

Section #	Management Practices to Reduce Fugitive Emissions	Schedule of Activity
1	Subcontracted depollution only conducted by certified subcontractors holding DTSC and EPA permits (i.e. "Certified Appliance Recyclers").	Suppliers must have a Signed Hazardous Substance Removal Compliance Contract (HSRCC) on file prior to delivering material. The HSRCC clearly states our Scrap Acceptance Policy (SAP) and the suppliers must certify that they are not dropping off material that contains hazardous substances. Any materials that are brought to the facility that do not conform to the SAP are rejected and recorded in the Rejection Log. If prohibited materials are found in scrap onsite, the scrap is isolated and inspected, either inside a building or under cover in the maintenance area. A third-party vendor is called to depollute the scrap. All wastes generated from any depollution processes are properly profiled and disposed of per local, state, and federal regulations. Facility is no longer open to the public (peddlers) for appliance/scrap drop-offs and therefore expect such depollution activities to be rare. If it occurs, it would be completed Monday through Friday, during the day.

DEPOLLUTION ACTIVITIES

METAL MANAGEMENT – STORAGE PILE MANAGEMENT

List and describe the facility’s storage pile management practices to reduce fugitive emissions from stored materials. Detail the schedule of activities conducted.

Types of Storage	Section #	Management Practices to Reduce Fugitive Emissions	Schedule of Activity
<i>Storage of Delivered Scrap</i>	1	Water spraying of all delivered scrap stockpiles as needed during unloading and material handling. Can include both stationary and mobile water-spraying equipment.	During all hours of operation when receiving incoming trucks as needed.
	2	Water is applied to all scrap piles, as needed, during relocation/movement of materials. Can include both stationary and mobile water-spraying equipment.	During all hours of operation when receiving incoming trucks as needed or material is being relocated/moved.
<i>Storage of Unprocessed Material</i>			
	3	Water spraying of all unprocessed material storage piles as needed during unloading and material handling. Can include both stationary and mobile water-spraying equipment.	During all hours of operation as needed.
	4	Pile size of Light Tin/Iron and Auto Body piles (Shredder Infeed Material) are kept to a minimum by shredding the maximum amount possible every day. Pile sizes of unprepared HMS material is kept to a minimum by processing material through the fixed shear in a timely manner. Water is applied to in-process scrap, which could include both stationary and mobile spraying equipment.	During all hours of operation as needed.
	5	HMS and Bonus material stockpiles are predominantly metallic (greater than 99.99%) and lack sufficient combustible material to sustain a fire. Water is applied to all scrap piles, as needed, during relocation/movement of materials. Can include both stationary and mobile water-spraying equipment.	During all hours of operation as needed.
<i>Storage of In-process Material</i>	6	Water spraying of all in-process material storage piles as needed during unloading and material handling. Can include both stationary and mobile water-spraying equipment. Non-ferrous Aggregate/Residue (NFR) is sprayed with water at least every 2 hours to prevent fires, except possibly during periods of rain or cold weather (See “Metal Management” section for details). Watering of the NFR is recorded on the NFR Water Spraying Log (records maintained by the General Manager).	During all hours of operation as needed. NFR is watered at least every 2 hours, except possibly during periods of rain or cold weather. NFR water application is recorded on the NFR Water Spraying Log (date, inspector’s name/initials, and time). Records are maintained by the General Manager.
	7	NFR is kept to a minimum by processing the material in a timely manner through the Joint Products Plant. NFR is managed in two piles (as necessary) and first in and first out pile management is used to mitigate the fire potential and enable emergency.	Material is stored onsite 7 days per week.
	8	NFR is monitored by Schnitzer employees using portable infrared cameras to prevent fires (See “Metal Management” section for details).	Every hour, 24 hours per day, 7 days per week Schnitzer employees take infrared camera temperature readings from at least 4 locations in the NFR pile(s). Readings are recorded in the NFR Monitoring Log (date, inspector’s name/initials, time, and temperature readings). Records are maintained by the General Manager.
	9	NFR is monitored continuously by Schnitzer’s Security Command Center via two or more fixed infrared cameras (See “Metal Management” section for details).	NFR pile(s) are continuously monitored by Schnitzer’s Security Command Center via four fixed infrared cameras.

METAL MANAGEMENT – STORAGE PILE MANAGEMENT

Describe facility's storage pile management practices to minimize and prevent emissions from stored materials (i.e. limiting size of piles, creating fire breaks, segregation of materials, etc.). Specifically include policies and measures to prevent and control combustion of storage pile materials.

- Schnitzer conducts load inspections (looking for prohibited material) on incoming deliveries. Loads may be rejected, in part or full, depending on the results of these inspections.
- Schnitzer employees monitor the shredder input pile during processing for potentially flammable off-spec materials.
- While it is Schnitzer's goal to shred as much scrap as possible on any given day and thereby minimize scrap stockpile size, the following factors prevent the facility from always achieving this goal:

Variable PG&E power usage curtailment schedule which can restrict the time of day we can operate the shredder. The facility does not shred every day of the week due to maintenance, staffing considerations, and variable incoming volume. Scrap is received throughout the day, even after shredding operations have ended for the day. The inflow scrap volume in a given day can exceed the facility's ability to shred all material in a standard shift.

- Schnitzer Steel has coordinated with the Oakland Fire Department to stock fire suppression foam additive onsite in an easily accessible location in case of a fire. This material can be hooked up to fire truck pump systems to mix the foam additive into the water helping to better suppress the fire.
- Additional fire control measures include, but are not limited to:
 - The fire water piping loop has been extended to include two additional fire hydrants.
 - Hydrants are clearly marked by poles (red/white), so they can be easily located.
 - Additional water cannons were installed (total of three available) that can be used on shredder infeed and NFR stockpiles.
 - A second water truck is available on-site to improve fire mitigation response time.
 - An excavator operator is retained on-site 24 hours per day to assist in maintaining stockpiles in a fire-safe condition.
 - NFR is managed in two piles (as necessary) and first in and first out pile management is used to mitigate the fire potential and enable aisle space for emergency vehicles.
 - NFR is watered at least every two hours to prevent fires, except possibly during periods of rain or cold weather. The date, time, and employee name is recorded on the "NFR Water Spraying Log". Records are maintained by the General Manager.

- Schnitzer employees monitor the NFR stockpile temperatures with portable infrared cameras.

Procedures include:

- Schnitzer employees monitor NFR stockpile using a portable infrared cameras every hour, 24 hours a day, and 7 days a week.
- Temperature readings from portable infrared cameras are taken from at least four locations in the NFR stockpile.
- Date, time, inspector, NFR location/area, and infrared camera readings are recorded on the “NFR Monitoring Log” and are compared to ambient temperatures. Records are maintained by the General Manager.
- If the difference between the ambient temperature and the infrared camera readings is 100 degrees Fahrenheit or more, onsite supervisors are notified via phone or radio. If no supervisors are onsite, site staff/supervisors are notified via phone using the available emergency contact list. The NFR stockpile is monitored from a safe distance for smoke or fire. If fire is present, local emergency services are immediately notified.
- If the difference between the ambient temperature and the infrared camera readings is less than 100 degrees Fahrenheit, no further action is required.
- NFR stockpile temperatures are continuously monitored by Schnitzer’s Security Command Center via two or more fixed infrared cameras. Significant temperature reading increases will produce an alarm in the Security Command Center which is staffed 24 hours a day and 7 days a week. If an alarm occurs, site personnel are notified via phone and email, using the available contact list. Logs are maintained by Operations Department.
- Schnitzer maintains records of all environmental training related to this EMP for employees at the facility.

***Description of Onsite Management
And
Schedule of Facility Operations***

ONSITE MANAGEMENT PRACTICES

Provide a description of the facility's onsite management practices to reduce fugitive emissions.

All new employees receive initial environmental compliance training which includes an air quality, fugitive emission control component. This training is conducted either by yard management or Regional Environmental Manager. All shifts are covered by this training (i.e., night and day shift employees). The topics include: Engine idling limits, use of water for dust control.

Facility Specific tailgate training session on air quality issues annually that includes fugitive emissions and site BMPs. This training is conducted by site management and supervisors. All shifts are covered by this training (i.e. night and day shift employees). The topics include engine idling limits, use of water trucks for dust control, use of stationary and/or mobile water-spraying equipment for dust control, sweeping for dust control, the difference between point source emissions and non-point source emissions, speed limit of equipment and vehicles to reduce dust, and reporting potential issues like heavy dust generation.

Training related to infrared camera and water application operations on the NFR stockpiles for fire mitigation is conducted by Operations and/or Safety personnel annually. Training records for NFR stockpile management are retained by the Safety Manager. Topics include procedures and use of mobile infrared cameras, recordkeeping, and water application.

Facility specific PowerPoint training on air quality regulations, including fugitive dust control and site BMPs for managers and supervisors annually. This training is conducted by the Regional Environmental Manager. The topics include engine idling limits, use of water trucks for dust control, use of stationary and/or mobile water-spraying equipment for dust control, sweeping for dust control, the difference between point source emissions and non-point source emissions, speed limit of equipment and vehicles to reduce dust, reporting potential issues like heavy dust generation, and CARB heavy-duty vehicle emission control programs such as the cargo handling rule and the on-road/off-road truck rules.

DESCRIPTION OF ONSITE MANAGEMENT

Identify if staff are designated to observe visible emissions from metal shredding and recycling operations during business hours and after the close of business. Specify if staffing is Visible Emissions Evaluation (VEE) Certified. If onsite staffing is designated to observe visible emissions after the close of business, include a description of the duties to ensure visible emissions are minimized from storage piles of material.

Section #	Operations	Onsite Personnel DURING Business Hours to Observe Visible Emissions	Staffing to Observe Visible Emissions	Onsite Personnel AFTER Business Hours to Observe Visible Emissions	Staffing to Observe Visible Emissions	If onsite staffing is designated after the close of business to observe visible emissions, describe the specific duties to manage storage piles to prevent and minimize visible emissions.
1	Roadways and Other Trafficked Surfaces	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of Staff 5+	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of Staff 2	<p>Section 15: Every hour, 24 hours per day, 7 days per week Schnitzer employees take infrared camera temperature readings from at least 4 locations in the NFR pile(s). Readings are recorded in the NFR Monitoring Log. If the difference between the ambient temperature and the infrared camera reading is 100 degrees Fahrenheit or more, onsite supervisors are notified via phone or radio. If no supervisors are onsite, site staff/supervisors are notified via phone using the available emergency contact list. The NFR stockpile is monitored from a safe distance for smoke or fire. If fire is present, local emergency services are immediately notified.</p> <p>NFR pile(s) are continuously monitored by Schnitzer's Security Command Center via 4 fixed infrared cameras. Significant temperature reading increases will produce an alarm in the Security Command Center which is staffed 24 hours a day and 7 days a week. If an alarm occurs, site personnel are notified via phone and email, using the available contact list.</p> <p>NFR is watered at least every two hours to prevent fires, except possibly during periods of rain or cold weather. The date, time, and employee name is recorded on the "NFR Water Spraying Log".</p>
2	Metal Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visible Emissions Certified <input type="checkbox"/> Yes, # <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Visible Emissions Certified <input type="checkbox"/> Yes, # <input checked="" type="checkbox"/> No	
3	Transport	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4	Receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5	Collection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6	Sorting	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
7	Segregation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Separation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Compilation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Crushing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11	Shredding	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
12	Storage of Metals	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
13	Storage of Metal-Containing Material	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14	Storage of Non-Metallic Material	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
15	Shredder Residue Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
16	Depollution Activities	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

DESCRIPTION OF ONSITE MANAGEMENT

Identify any employee training provided pertaining to management practices and work practice standards to minimize fugitive emissions from recycling and shredding operations.

Section #	Employee Training
1	Initial environmental training for new employees covers a variety of environmental topics including air quality related training. This training takes place within 90 days of hire.
2	Annual Air Quality Training for managers and supervisors is conducted once every 12 months. Topics include general particulate and dust control and shredder emissions/BAAQMD Permit.
3	Annual Air Quality Training for all yard employees (i.e. non-office employees) is conducted once every 12 months. Topics include general particulate and dust control and shredder emissions/BAAQMD Permit.
4	Annual Air Quality Training related to infrared camera and water application operations on the NFR stockpiles for fire mitigation is conducted by Operations and/or Safety personnel. Topics include procedures and use of mobile infrared cameras, recordkeeping, and water application.

SCHEDULE OF FACILITY OPERATIONS

Provide the facility's schedule and hours of operation. Schedule of operations should include all shifts with specific operations identified.

Material Receiving: Monday through Friday 4:00 am to 3:30 pm

Shiploading: As needed 7 days per week, Shift 1: 6:00 am to 4:30 pm, Shift 2: 4:30 pm to 3:00 am.

Metal Processing: Shredding: 6:00 pm to 11:00 am, Monday through Friday, varies by season.

Metal Processing: Shearing: 4:00 am to 12:30 pm, Monday through Friday

Metal Processing: Torch Cutting: 4:00 am to 12:30 pm, Monday through Friday

Material Processing: Joint Products Plant: Shift 1: 6:00 am to 4:30 pm, Shift2: 4:30 pm to 3:00 am. Both shifts Monday through Friday

ALL OPERATIONS CAN VARY INCLUDING DAYS OF WEEK, SHIFT HOURS, ETC AS NEEDED TO SUPPORT OPERATIONAL NEEDS, VOLUME OF METAL RECEIVED, PG&E POWER CURTAILMENT NEEDS, ETC.

Technical Data

6-4-403.1

- A. *Process Flow Diagram* - Facilities must indicate all operations in Section 6-4-402, the flow of materials used, and identify all monitoring and the processes, abatement and controls to minimize emissions beginning from material receipt to achievement of final product. Identify all equipment by source numbers according to District Permit or as exempt from District Permit. Include the abatement and control devices. Label the attachment with the corresponding Attachment #.

Attachment # 3

- B. *Facility Layout / Floor Plan* - Facilities must indicate all relative locations of processing equipment and monitoring and controls, all permitted and exempt sources identified in the process flow diagram per Section 6-4-403.1.1 and any other source(s) that may contribute to particulates. Include all building walls, partitions, doors, windows, vents and openings and indicate all areas that have abatement for particulates. Note roadways and other trafficked surfaces and indicate the types and locations of pervious and impervious surfaces. Identify all metal recycling and shredding equipment by the facility's District Permit source number or as exempt from District permit requirements and include abatement and control devices. Label the attachment with the corresponding Attachment #.

Attachment # 4

Five-Year Review of the EMP: Schedule for Implementation of the EMP Elements and Fugitive Emissions Reductions

6-4-408

- A. Provide a list of existing or current EMP elements in place during the 5-year review period (March 1, 2016 – February 28, 2021). Include a list of equipment, processes and procedures installed or implemented to reduce fugitive emissions and indicate the permit status if applicable. Specify the purpose for implementation and detail any employee training that was conducted. Any associated training materials shall be made available for Air District review upon request.
- B. Provide a list of new or future EMP elements to be implemented following APCO approval of the EMP. Include a description, the purpose and schedule of the element(s) to be implemented.

A. 6-4-408 SCHEDULE FOR IMPLEMENTATION OF THE EMP ELEMENTS AND FUGITIVE EMISSIONS REDUCTIONS REALIZED WITHIN THE LAST 5 YEARS (MARCH 1, 2016 – FEBRUARY 28, 2021)						
# Section	Identify Type of Operation per Section 6-4-402	Description of Equipment, Processes or Procedures Implemented Between March 1, 2016 and February 28, 2021	Permit Status	Implementation Date	Purpose of Implementation	Description of Employee Training
1	Roadways and other Trafficked Surfaces	Commercial wheel wash at facility exit	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	10/30/2012	Minimize trackout of dust on to city streets.	Initial and annual update training in tailgate sessions.
2	Roadways and other Trafficked Surfaces	Complete power wash cleaning of dock and pier annually. Wheel washer was installed at pier crane dock.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	9/2012, 9/2013, and 1/2013, respectively	Reduces silt on dock and pier surface that can be entrained as fugitive particulate emission.	Initial and annual update training in tailgate sessions.
3	Roadways and other Trafficked Surfaces	Facility Speed Limit, 5 mph.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	2009 (estimated)	Reduce generation of fugitive dust through controlling vehicle and equipment speed.	Initial and annual update training in tailgate sessions.
4	Metal Management	Stationary and/or mobile water-spraying equipment purchased to cover the shred pile, ship loading conveyor, and metal shearing operations.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	2011	Wet piles during material handling and minimize particulates already mobilized in the air.	Initial and annual update training in tailgate sessions.
5	Metal Management	Water trucks used to wet piles when material handled.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	10/2007	Minimizes particulate generation during material handling.	Initial and annual update training in tailgate sessions.
6	Metal Management	Ship loading conveyor covered/contained.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	10/2013	Reduce potential for windblown fugitives while shiploading.	Initial and annual update training in tailgate sessions.
7	Metal Management	Purchased/installed stationary and/or mobile water-spraying equipment on tower at Shred Pile/Shred Shiploading Conveyor.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	10/2013	Replaces with stationary and/or mobile water-spraying equipment that can be operated by remote control. Elevated platform allows for better coverage of shred stockpile. Additionally, this unit can oscillate 359 degrees, giving a greater range of coverage.	Initial and annual update training in tailgate sessions.
8	Shredder Residue Management	Material is kept moist with water.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	1980	Minimize mobilization of particulate matter.	Initial and annual update training in tailgate sessions.
9	Shredder	Install enclosure and Venturi scrubbers for shredding operations.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A Application # (if applicable):	2017	Reduction of fugitive emissions from shredding and metal separation activities.	Initial and annual update training in tailgate sessions.

A. 6-4-408 SCHEDULE FOR IMPLEMENTATION OF THE EMP ELEMENTS AND FUGITIVE EMISSIONS REDUCTIONS REALIZED WITHIN THE LAST 5 YEARS (MARCH 1, 2016 – FEBRUARY 28, 2021)						
# Section	Identify Type of Operation per Section 6-4-402	Description of Equipment, Processes or Procedures Implemented Between March 1, 2016 and February 28, 2021	Permit Status	Implementation Date	Purpose of Implementation	Description of Employee Training
10	Metal Management	Install Baghouse at Joint Products Plant (exempt).	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A	2019	Abate emissions and fugitive dust from metals processing at Joint Products Plant (exempt).	Initial and annual update training in tailgate sessions.
11	Fire Prevention	Implement mobile and stationary infrared cameras.	<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A	2018	24/7 monitoring of NFR stockpiles	Initial and annual update training in tailgate sessions.
			<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A			
			<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A			
			<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A			
			<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A			
			<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A			
			<input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A <input type="checkbox"/> A/C <input type="checkbox"/> P/O <input type="checkbox"/> N/A			

B. 6-4-408 NEW OR FUTURE EMP ELEMENTS TO BE IMPLEMENTED						
#	Identify Type of Operation per Section 6-4-402	List Specific Elements to be Implemented Following APCO Approval of the Updated EMP	Projected Implementation Date	Description of Elements to be Implemented	Purpose of Implementation	
1	All Operations	Training will be provided for selected yard employees.	Annually	Send select facility employees for necessary training.		
2	Roadways and other trafficked surfaces.	Increase amount of paved surfaces throughout yard, maintain paving schedule.	2021	Schmitzer has implemented a Paving Plan for the last 5 years. Facility is to be fully paved by end of 2021.	Reduce fugitive dust generation. Paved surfaces allow for easy sweeping of particulates. Less mud created and tracked throughout yard.	
3	Metals Management	Regenerative thermal oxidizer	2024	Install regenerative thermal oxidizer at shredder.	Abate emissions from shredding operations.	

Appendix

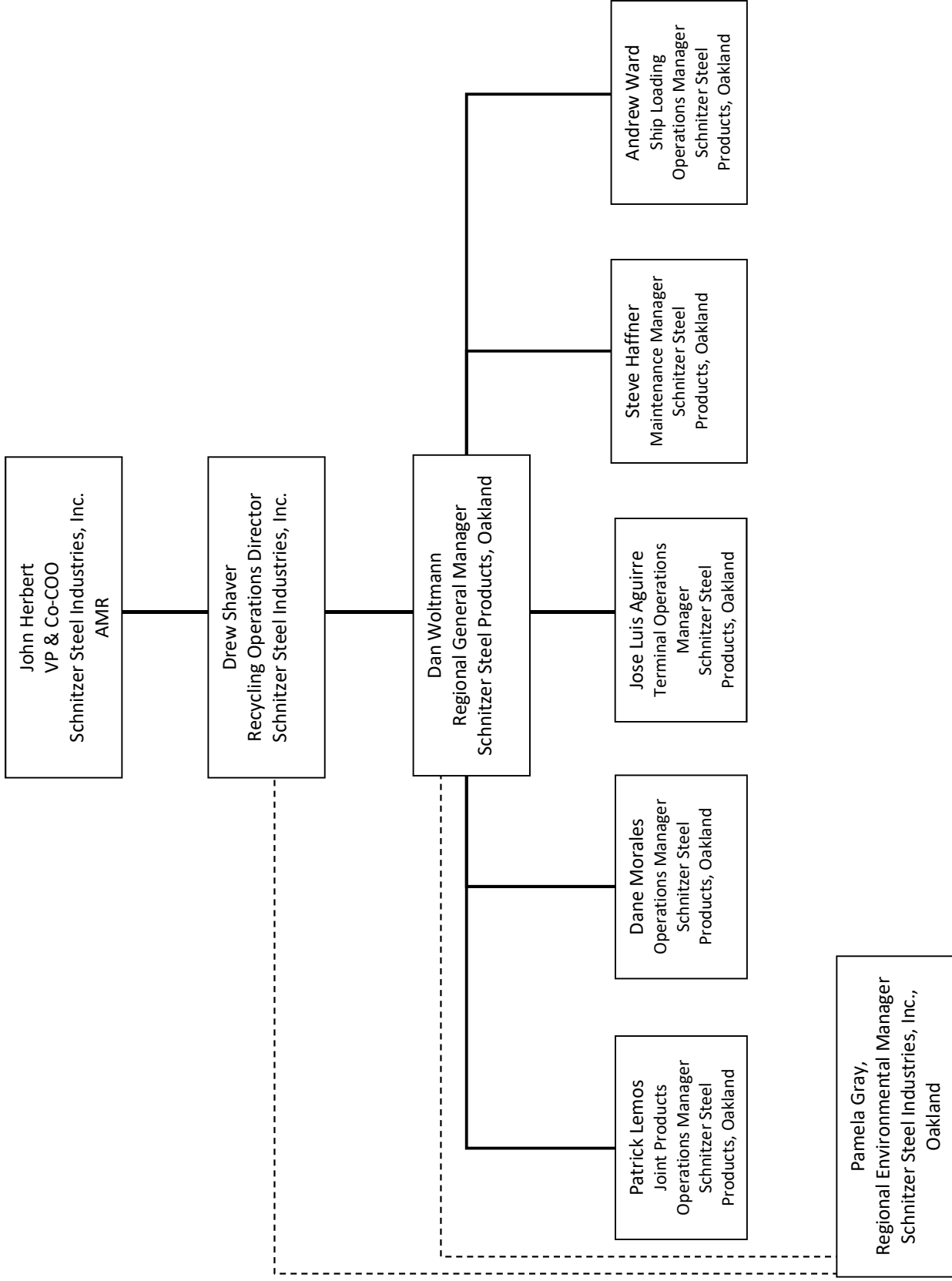
Insert any attachments and supplemental information within the corresponding sections of the EMP or at the end of this document. Label each attachment with the corresponding Attachment #.

In the table below, list each Attachment # and provide the Page # and Section # (if applicable) of the EMP where the material is referenced.

Attachment #	Reference to Page # and Section # of EMP
1	Page #7, Section # Introduction
2	Page #26, Section # III
3	Page #45, Section # III
4	Page #45, Section # III
5	Page # , Section # APCO Determination of Approvability
6	Page # , Section # VEE Certifications
	Page # , Section #
	Page # , Section #
	Page # , Section #
	Page # , Section #
	Page # , Section #

ATTACHMENT 1
COMPANY ORGANIZATIONAL CHART

Attachment #1
Schnitzer Steel Products Oakland Organization Chart



ATTACHMENT 2
SCRAP ACCEPTANCE POLICY

Estimado Cliente:

Este folleto servirá para aclarar nuestras normas acerca de cuales metales reciclables aceptamos. Estos requerimientos son un reflejo de nuestro compromiso hacia un comportamiento responsable al medioambiente. Por favor recuerde que muchas de nuestras normas son controladas por regulaciones ambientales a nivel federal y estatal, que son aplicables tanto a nuestra empresa como a nuestros clientes. Esta lista no incluye todo, otros artículos que no aparecen aquí, pueden ser inapropiados para reciclar como chatarra.

Por favor lea este folleto cuidadosamente, y para cualquier pregunta contacte a nuestro Regional Environmental Manager, Pam Gray en el telefono (510) 839-4714.

Recuerde que tenemos el derecho de rechazar cualquier cargamento, al costo del cliente, si no cumple con esta guía.

Los siguientes materiales NO SERAN aceptados en nuestras instalaciones:

- Mercurio (22 CFR 66260. 10)
- Virutas de berrillo y magnesio capaces de ser auto combustible (22 CFR 66260. 10)
- Metales que reaccionan con el agua, incluyendo sodio, potasio y litio (22 CFR 66260. 10)
- Tarjetas de circuito sacados de residuos universals (22 CFR 66260. 10)
- Polvos metalicos muy finos (que tengan tamaño de partícula menor de 100 micrones) (22 CFR 66260.10)
- Metal contaminado con desechos peligrosos
- Metal que contenga cualquier aceite de flujo libre
- Filtros de aceite
- Baterías de uso domestico, tal como alcalino, níquel-cadmio, y litio
- Asbestos, o materiales conteniendo asbestos, tal como el aislamiento de tubería y material de superficie comúnmente encontrado en vigas, tanques, y otros restos estructurales y de demolición (40CFR \$61.150)
- Artículos que contienen o han contenido PCBs, incluyendo capacitores chicos, balasto de luz fluorescente, y transformadores eléctricos o componentes de transformador (TSCA and 40 CFR \$258 and \$261).

- Aceites, gasolina, propano, y otros productos de petróleo tal como fluidos hidráulicos, aceites de engranajes, y grasa. También el anticongelante y otros líquidos de flujo libre, incluyendo el agua.
- Unidades de aire acondicionado, o refrigeración conteniendo CFCs o HCFCs (40 CFR82)
- Bolsas de aire de automóviles que contienen azida de sodio (40 CFR \$261) o perclorato
- Latas de estano
- Vehículos recreativos o casa de motor
- Latas, barriles y otros contenedores que hayan contenido restos peligrosos que no cumplen con la definición de "contenedor vacío."
- Luces fluorescentes, neon, luces de alta intensidad o luces de vapor mercurio
- Residuos electronicos incluyendo TVs, monitores, reproductores de DVDs, computadoras y sus periféricos
- Cualquier material conteniendo sustancias peligrosas o toxicas, plaguicidas, etc.
- Chatarra de municiones o militar
- Explosivos, residuos explosivos o materiales combustibles
- Materiales radioactivos de cualquier tipo o contenedores
- Neumáticos, madera, tierra, desechos de jardín, asfalto, vidrio, goma, ladrillo refractario u otros materiales no metalicos.

LOS SIGUIENTES ARTICULOS SE ACEPTAN SOLAMENTE SI SE PREPARAN de las siguientes maneras descritas:

- Los aparatos deben tener GFCIs, capacitores, balastos interruptores de mercurio, aceites, y todo el material peligroso quitado antes de que sean aceptados. La forma DTSC Form 1430 se requiere para todo los trasladados de aparatos preparados. Los aparatos no preparados seran aceptados pero deben separarse de otra chatarra y no pueden ser embalados, aplastados o manipulados (por ejemplo: aparatos abandonados).
- Automóvil: todos los fluidos, incluyendo el refrigerante, deben ser drenados. Baterías, contrapesos de plomo de rueda, bolsas de aire no desplegadas se deben quitar del automóvil. Los tanques de gas deben estar visiblemente perforados o quitados.
- Baterías de acido de plomo o piezas de batería, se aceptan pero deben separarse de otra chatarra y no estar partidos o quebrados.
- Contenedores a granel, tal como tanques deben ser limpiados según 22 CFR 66261.7(p) y tener suficientes agujeros abiertos para una visible inspeccion.

- Cilindros de gas incluyendo botellas de aire, amortiguadores, propano y otros tanques de gas deben ser partidos por la mitad y las valvulas quitadas. Los cilindros de acetileno se prohíben estrictamente.
- Latas de aerosol: DEBEN ESTAR vacías y aplastadas o perforadas. Las tapas de plástico se deben quitar.
- Banda de metal: DEBE SER partida en pedazos que miden 1 pie.
- Malla ciclonica: DEBE SER partida en pedazos no mas grande de 18 pies X 4 pies.
- Cable y alambre: DEBE SER partido en pedazos de 3 pies, o en espiral y flejado en cuatro lugares con banda de acero de 3/4 pulgadas de ancho.
- No ponga cable, alambre de acero para malla ciclonica, o chatarra pesada, adentro de los automoviles.

Robo de Metal

- Para disminuir la ocurrencia de robos de metal, Schnitzer Steel no aceptara los siguientes materiales a no ser que se indique u establezca claramente quien es el dueño:
- Chatarra de nueva producción o materiales nuevos que forman parte de un proceso de manufactura que se vendan por un individuo, y no por una empresa.
- Artículos usados unicamente por gobiernos, empresas de servicio publico, ferrocarriles o para propósitos muy específicos. Esto incluye barandas de protección, tapas de registro, ciertos cables usados solamente en líneas de transmisión de alto voltaje, marcadores historicos y placas de cementero, y obras de arte.
- Nuevos materiales como los que se usan en las obras de construcción o herramientas que usan los contratistas.
- Materiales que quizás no sean nuevos, siguen siendo sospechosos, como los asientos de un campo atlético o los signos de tránsito.
- Barriles de cerveza
- Vehículos, al final de su vida útil proveniente de un cliente desconocido, salvo si se presenta el registro del título. (en algunos locales, vehículos se reciben unicamente de desmanteladores autorizados y transportistas de autos compactados).
- Materiales que hayan sido reportados como robados.

Schnitzer Steel coopera con las autoridades locales de ley para el enjuiciamiento de cualquier acto de robo de metal y tambien mantiene registros de todas las transacciones con nuestra empresa

SCRAP ACCEPTANCE PRACTICES



SCHNITZER SOUTHWEST

P.O. Box 747
Oakland, CA 94604
510-444-3919 P
510-444-3370 F

Dear customers:

This brochure clarifies our policies for accepting recyclable metals. These requirements reflect our commitment to responsible environmental management. Please be aware that many of our policies are controlled by state and federal environmental regulation which apply both to us and to our customers. This list is not inclusive; other items not listed may be inappropriate for recycling as scrap metal.

Please read this brochure carefully, and contact our Regional Environmental Manager Pam Gray at (510) 839-4714 if you have questions about specific items.

Remember that any load may be rejected at your cost if these guidelines are not followed.

The following materials will NOT be accepted at our facility:

- Elemental mercury (22 CCR 66260.10)
- Beryllium and magnesium shavings borings, turnings capable of self combustion (22 CCR 66260.10)
- Water reactive metals including sodium, potassium and lithium (22 CCR 66260.10)
- Circuit boards removed from Universal Waste (22 CCR 66260.10)
- Fine metal powders (have a particle size smaller than 100 micrometers) (22 CCR 66260.10)
- Metal contaminated with a hazardous waste (22 CCR 66260.10)
- Metal with any free flowing oils(22 CCR 66260.10)
- Oil filters (22 CCR66260.130)
- Household batteries such as alkaline, nickel cadmium and lithium.

- Asbestos or asbestos containing materials, such as pipe insulation and surfacing material commonly found on I-beams, tanks, and other structural and demolition debris (40CFR \$61.150).

- Items that contain or have contained PCBs, including small capacitors, fluorescent light ballasts and electrical transformers or transformer components (TSCA and 40 CFR \$258 and \$261).
- Oils, gasoline, propane, other petroleum products such as hydraulic fluids, gear oils and grease. Also antifreeze and other free flowing liquid including water.

- Refrigeration or air conditioning units containing CFCs or HCFCs (40 CFR82)
- Automobile airbags, which contain sodium azide (40 CFR \$261) or perchlorate.

- Tin Cans
- RVs or Motorhomes

- Cans, drums or other containers which held hazardous materials or hazardous wastes not meeting "empty container" definition. (22 CCR 66261.7)

- Fluorescent lights, neon, high intensity or mercury vapor lights
- Ewaste including TVs, monitors, DVDs player, computers and peripherals

- Any material containing hazardous or toxic substances,pesticides, etc
- Military or munitions crap

- Explosives, explosive residues or combustible materials

- Radioactive materials of any kind or containers.
- Tires, wood, dirt, yard debris, concrete asphalt, glass, rubber, fire brick or other nonmetallic materials.

The following items will be accepted Only if prepared as described:

- Appliances must have CFC's, capacitors, ballasts, mercury switches, oils and all other hazardous materials removed prior to acceptance. A DTSC Form 1430 is required for all shipments of prepared appliances. Unprepared appliances will be accepted but must separate from other scrap metal and must not be baled, crushed or tampered with (ie orphan appliances).

- Automobile: ALL fluids, including refrigerant must be drained. Batteries, lead wheel weight, mercury switches and undeployed air bags must be removed. Gas tanks must be visibly punctured or removed.

- Lead-acid batteries or battery parts, can be accepted but must be separated from other scrap and not cracked or broken.

- Bulk containers such as tanks must be cleaned as per 22 CCR 66261.7 (p) and have sufficient holes open for visible inspection.

- Gas cylinders including air bottles, shock absorbers, propane and other gas tanks must be cut in half and valves removed Acetylene cylinders are strictly prohibited.

- Aerosol cans: MUST be empty crushed or punctured. Plastic caps must be removed.

- Metal banding: MUST be cut in 1-foot lengths.

- Chain-link fencing: MUST be cut in sections no larger than 18 feet by 4 feet.

- Cable and wire: MUST be cut in 3-foot lengths, or coiled and banded with 3/4-inch steel banding in atleast four places.

- Do not put cable, cyclone fencing wire rope or heavy melt metal inside automobiles.

Metal Theft

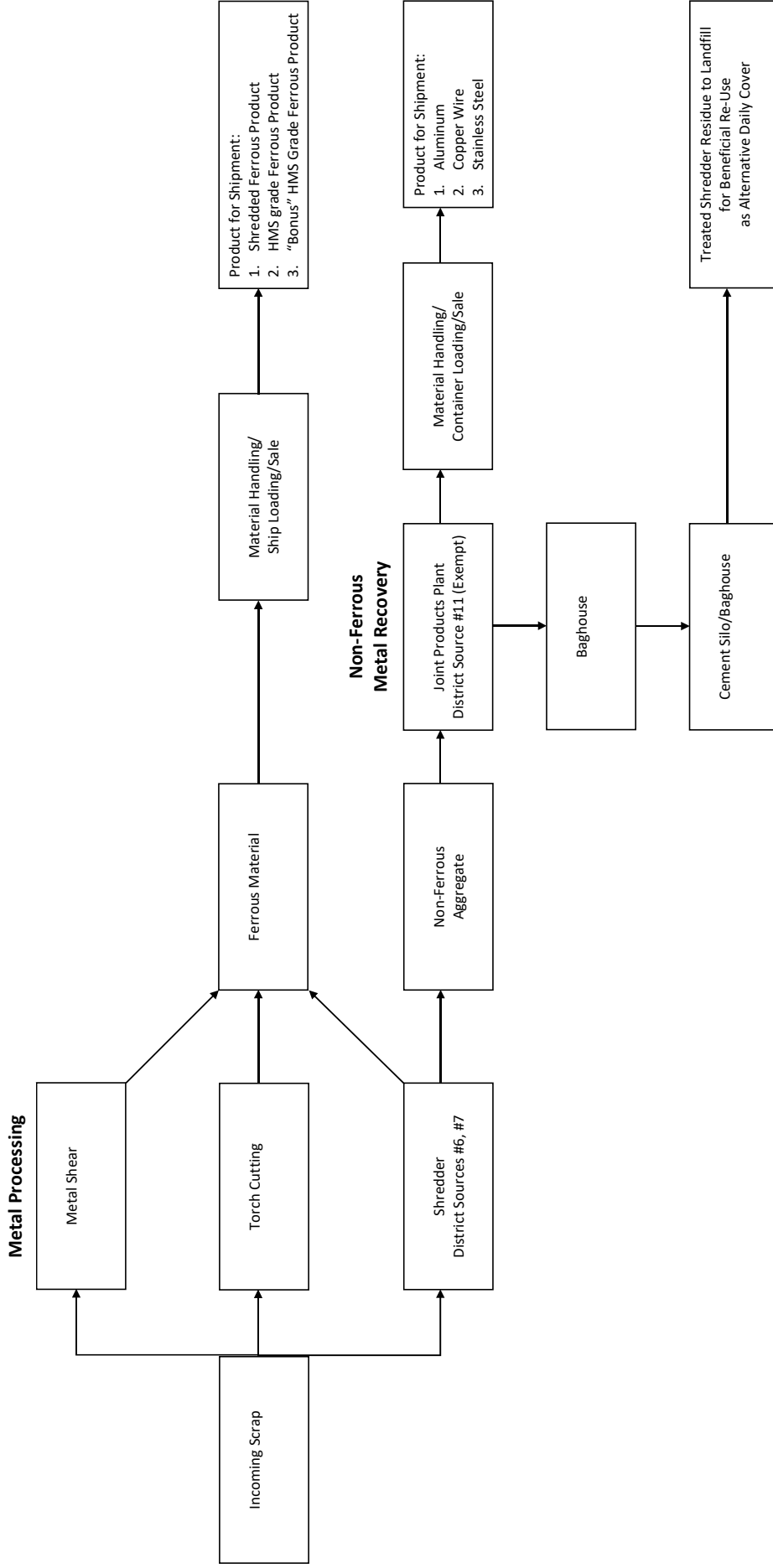
- In an effort to curtail the rising incidence of metal theft, Schnitzer Steel's operations refuse to accept the following material unless ownership is clearly established:
 - New production scrap or new materials that are part of a manufacturing process that are being sold by an individual, not a company.
 - Items used only by government, utilities, railroads or very specific purpose. This includes guardrails, manhole covers, certain cables used only in high voltage transmission lines, historic markers and cemetery plaques, and artwork.
 - Full sized, new materials such as those used in construction or equipment tools used by contractors.
 - Materials that may not be new but are clearly suspect such as bleachers from an athletic field or traffic signs.
 - Beer kegs.
 - End-of-life vehicles from an unknown customer unless a written record of title is presented. (In some locations, end-of-life vehicles are accepted only from licensed dismantlers and hulk haulers.)
 - Materials that have been reported stolen.

Schnitzer Steel's operations maintain records of all transactions and cooperates fully with local law enforcement in the prosecution of metal theft.

ATTACHMENT 3
PROCESS FLOW DIAGRAMS

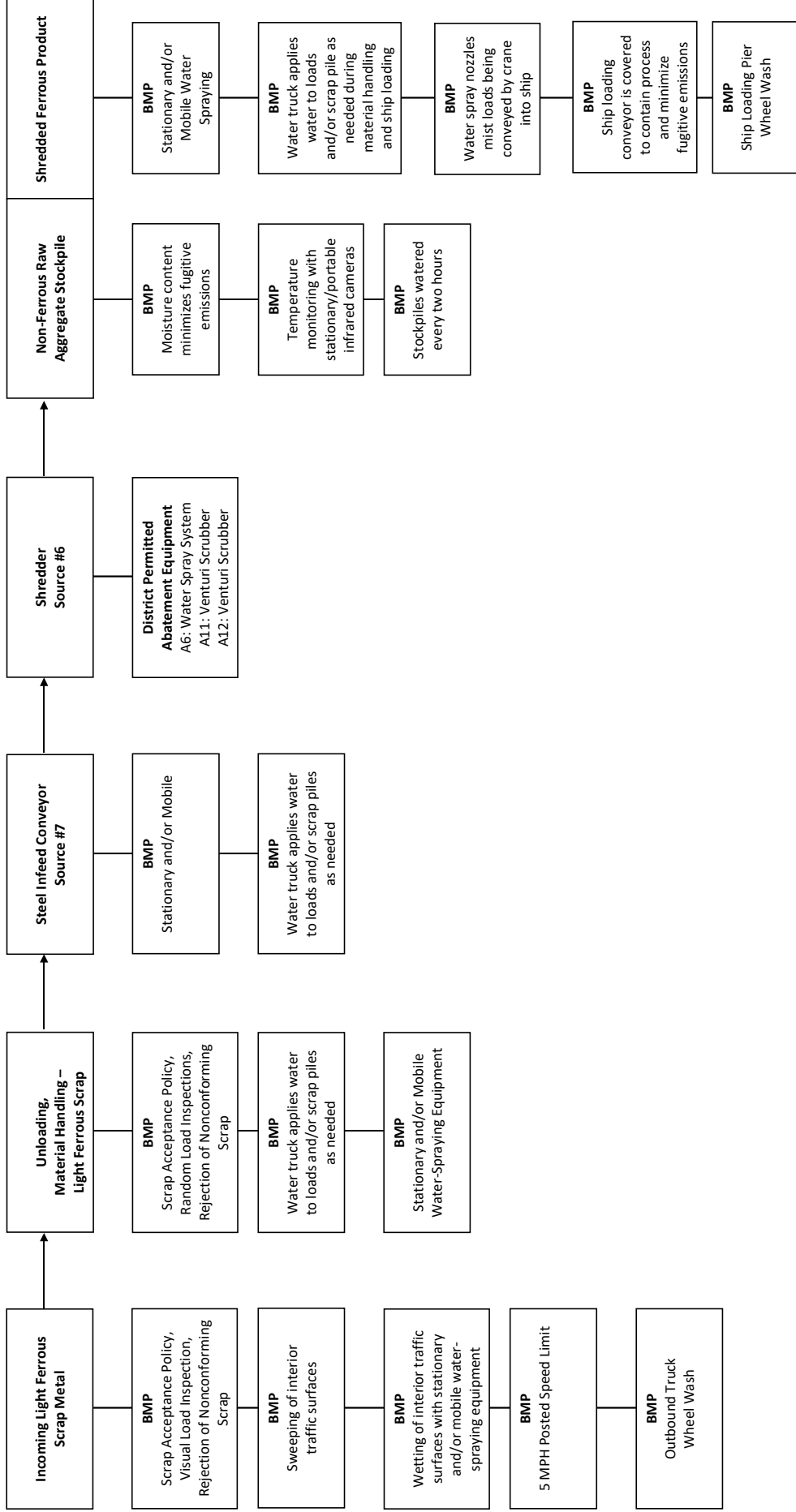
Attachment #3
Process Flow Diagrams

Oakland Schnitzer Steel Process Flow Diagram



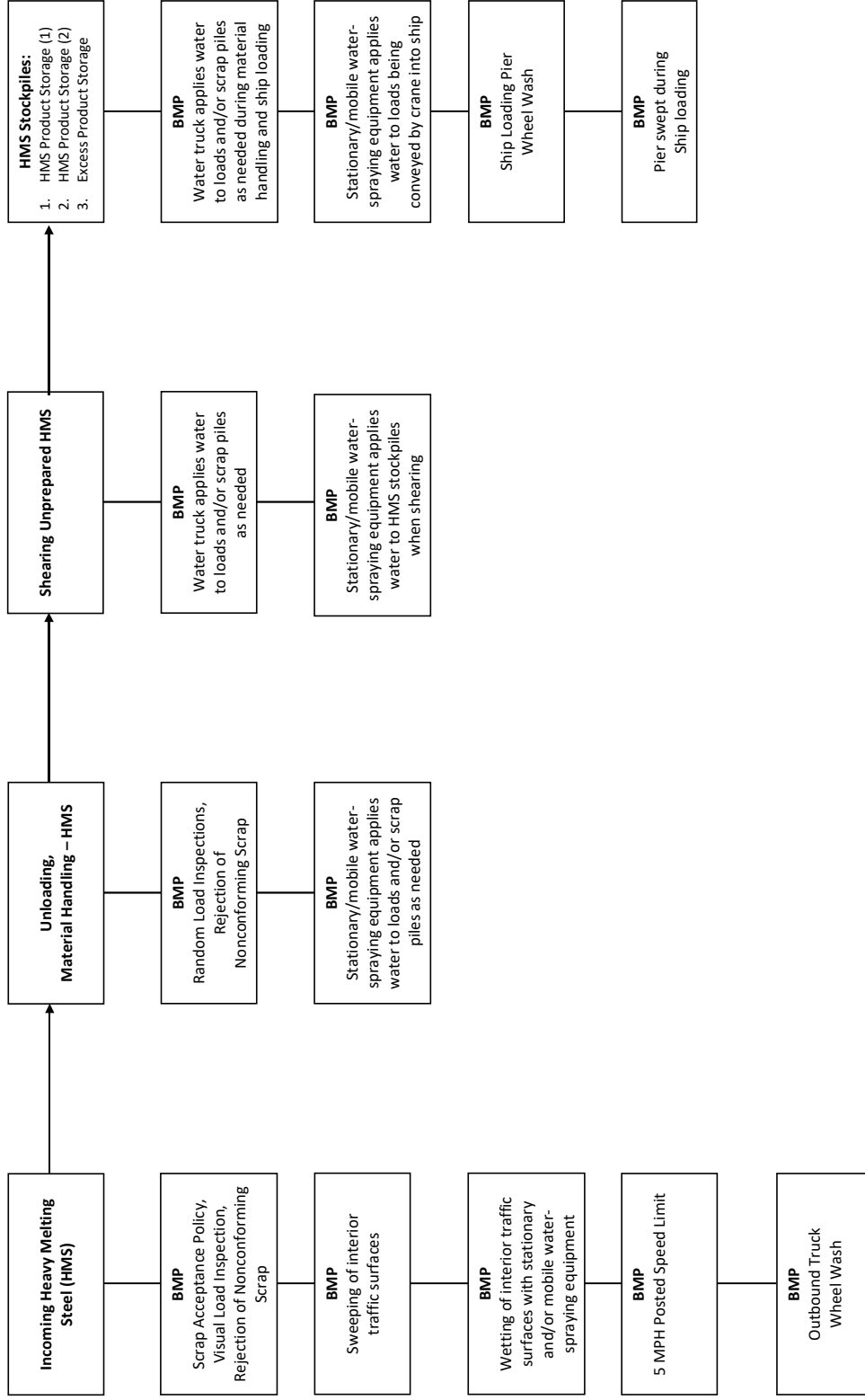
Attachment #3
Process Flow Diagrams

Shredding Process Diagram With BMP's



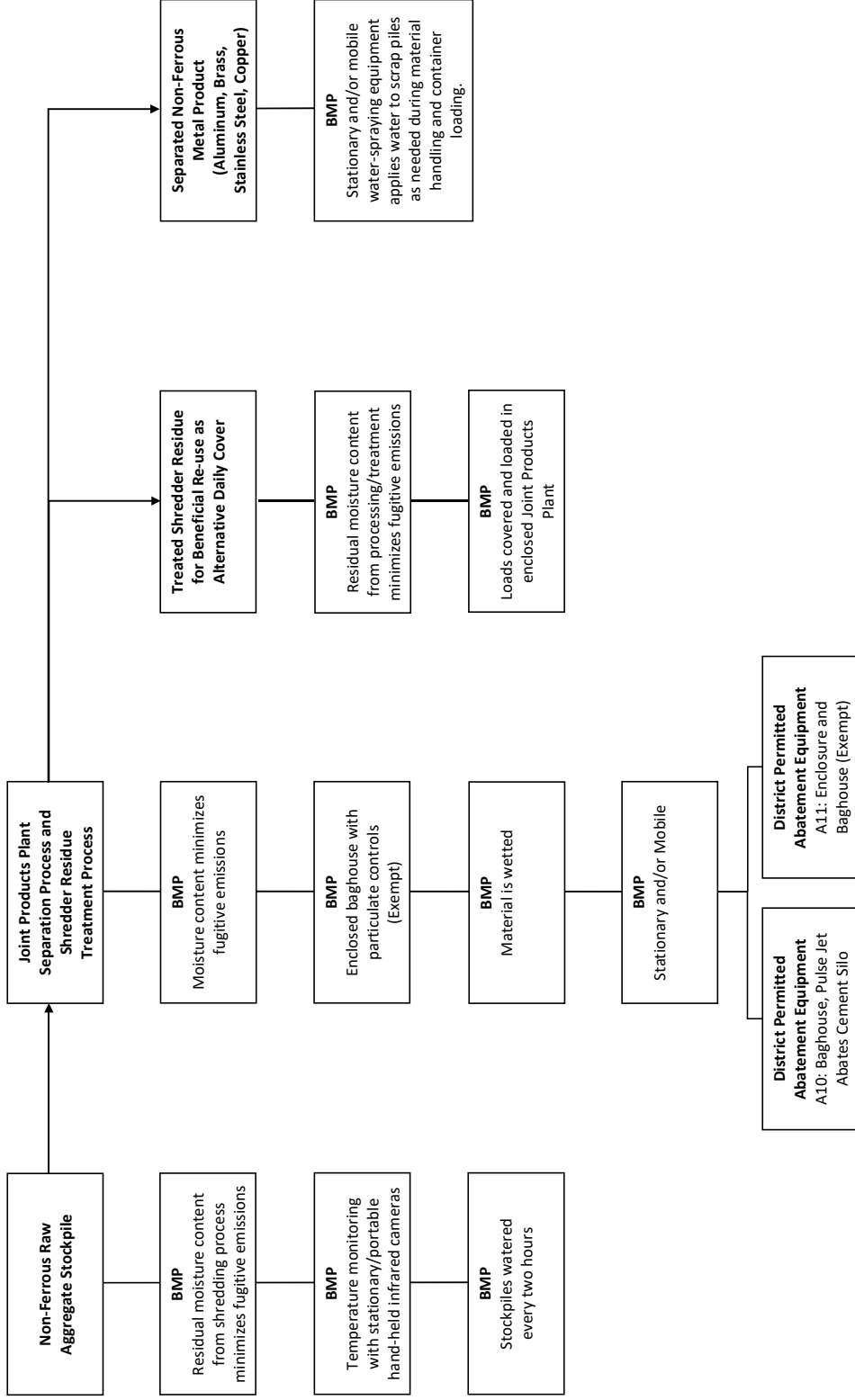
Attachment #3
Process Flow Diagrams

Shearing Process Diagram with BMP's



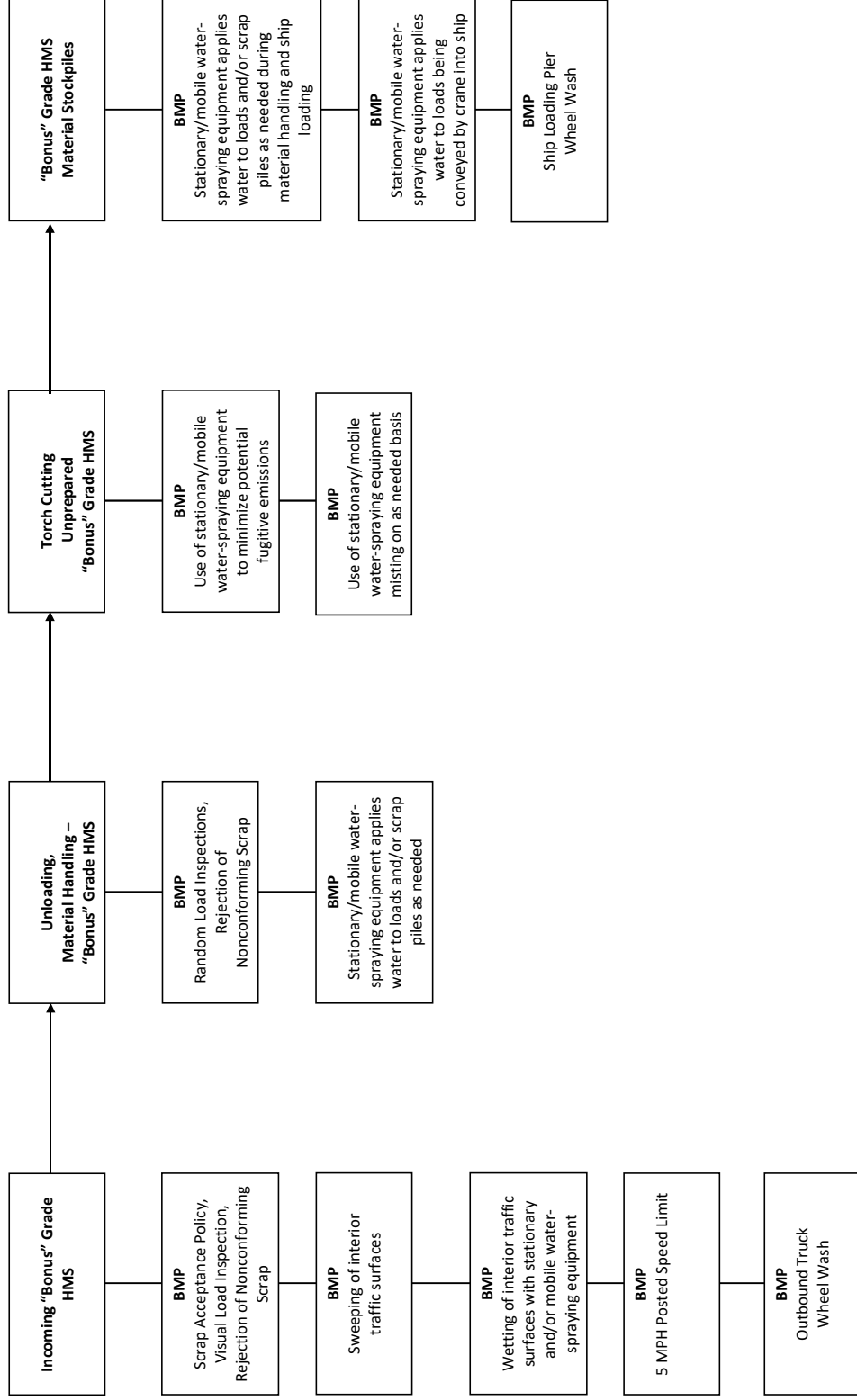
Attachment #3
Process Flow Diagrams

Joint Products Plant Separation Process Diagram with BMP's



Attachment #3
Process Flow Diagrams

Torch Cutting Process Diagram with BMP's

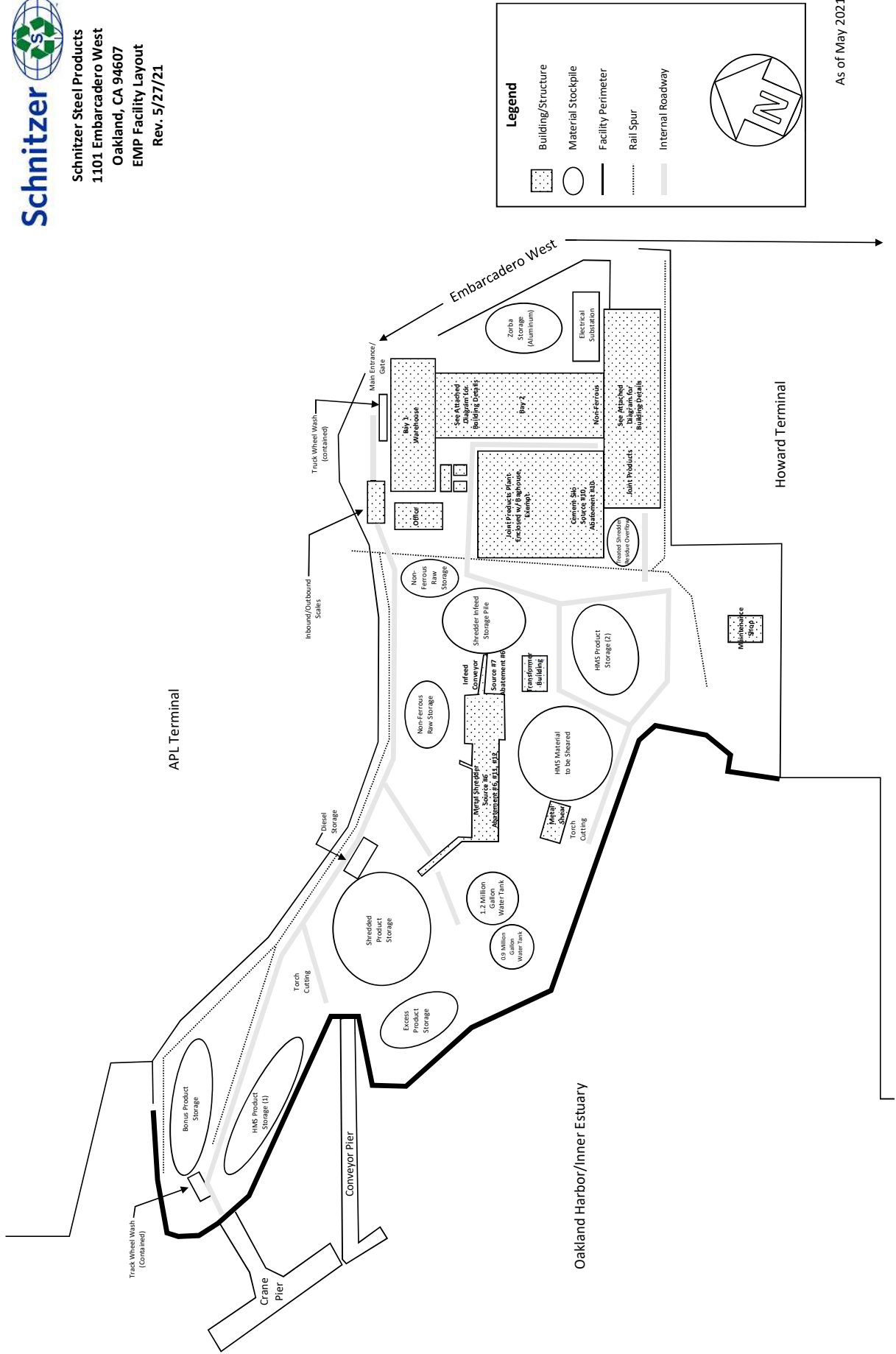


ATTACHMENT 4
FACILITY LAYOUT / FLOOR PLAN

Attachment #4 Facility Layout



Schnitzer Steel Products
1101 Embarcadero West
Oakland, CA 94607
EMP Facility Layout
Rev. 5/27/21



Legend

- Building/Structure
- Material Stockpile
- Facility Perimeter
- Rail Spur
- Internal Roadway

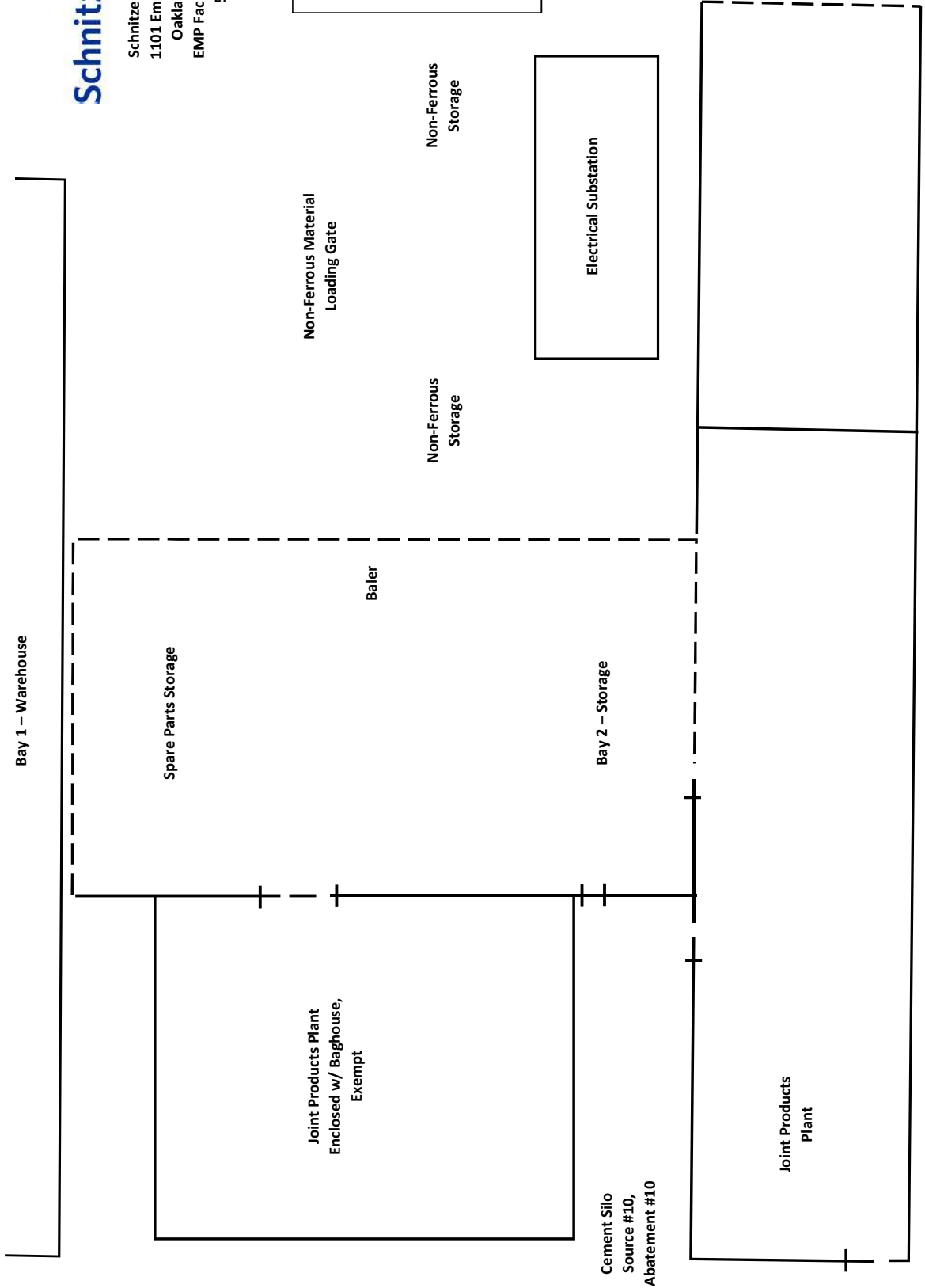
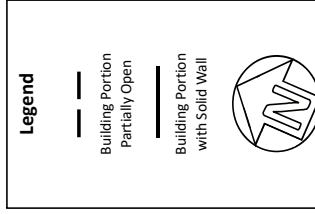
As of May 2021

Attachment #4
Facility Layout

Bay 1 – Warehouse



Schnitzer Steel Products
1101 Embarcadero West
Oakland, CA 94607
EMP Facility Layout Rev.
5/27/21



As of May 2021

ATTACHMENT 5
APCO DETERMINATION OF APPROVABILITY

APCO Recommendations to EMP and Determination of Approvability (12-13-405)

Provide determination of acceptance to APCO recommendations. Include the determination of acceptance by the facility's Responsible Manager and the basis for rejecting any APCO recommendations. If recommendation is accepted, include measures to implement APCO recommendation and the proposed date of implementation.

Section #	(AIR DISTRICT USE ONLY) APCO Recommendation	Acceptance of APCO Recommendation	If NO: Basis for Rejecting APCO Recommendation	If YES: Measures to Implement Recommendation	Proposed Date of Implementation	(AIR DISTRICT USE ONLY) Approval of Response
1	Increase schedule for more frequent temperature monitoring of stockpiles.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Per current Emissions Minimization Plan, Metal Management - Storage Pile Management, temperature monitoring of stockpiles is already conducted hourly, 24/7 days a week. Stockpiles are manually monitored via hand held FLIR cameras hourly and also are monitored via stationary infrared cameras which are continuously monitored by Schnitzer's Security Command Center.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Conduct daily monitoring of the depollution area to ensure flammable materials are properly contained and removed offsite regularly.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Per current Emissions Minimization Plan, Depollution Operations, scrap is rarely depolluted at facility. Scrap suppliers must maintain a Hazardous Substance Removal Contract (HSRCC) which requires delivery of only depolluted scrap. If on rare occasion scrap is depolluted onsite, the scrap is segregated away from stockpiles and any generated wastes are handled per Federal and State regulations and are removed offsite within 90 days.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Continue to obtain and maintain visible emissions evaluation (VEE) certification(s) through California Air Resource Board in accordance with US EPA Method 9 and provide training to onsite staff.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Facility has two Environmental System Control Operators that are CARB VEE certified as of April 2022.	April 5, 2022	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Continue to commit to shredding all scrap to the ground each day to minimize fugitive emissions.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Per current Emissions Minimization Plan, Metal Management - Storage Pile Management, it is Schnitzer's goal to shred as much scrap as possible on any given day and thereby minimize scrap stockpile size. The following factors prevent the facility from always achieving this goal: Variable PG&E power usage curtailment schedule which can restrict the time of day we can operate the shredder. The facility does not shred every day of the week due to maintenance, staffing considerations, and variable incoming volume. Scrap is received throughout the day,	Continuing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

				even after shredding operations have ended for the day. The inflow scrap volume in a given day can exceed the facility's ability to shred all material in a standard shift.		
5	To reduce road dust, pave dirt roads/areas that are used by trucks or heavy-duty equipment to move or transport material.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Facility was fully paved by end of 2021 calendar year.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

ATTACHMENT 6
VEE CERTIFICATIONS



Air Quality Training Program

Awards This Certificate To

Grzegorz Bruski

For Completion Of

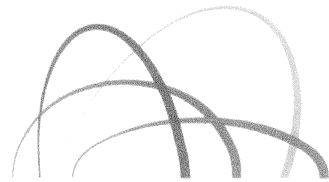
MM105 - Visible Emissions Evaluation: In Class

In
Sacramento

On
Tuesday, April 5, 2022

A handwritten signature in black ink, appearing to read "Todd P. Sax", is written over a horizontal line.

Dr. Todd P. Sax, Chief
Enforcement Division



CALIFORNIA
AIR RESOURCES BOARD

Air Quality Training Program

Awards This Certificate To

Anthony Ogata

For Completion Of

MM105 - Visible Emissions Evaluation: In Class

In
Sacramento

On
Tuesday, April 5, 2022

Dr. Todd P. Sax, Chief
Enforcement Division

APCO Recommendations to EMP and Determination of Approvability (12-13-405)

Provide determination of acceptance to APCO recommendations. Include the determination of acceptance by the facility’s Responsible Manager and the basis for rejecting any APCO recommendations. If recommendation is accepted, include measures to implement APCO recommendation and the proposed date of implementation.

Section #	(AIR DISTRICT USE ONLY) APCO Recommendation	Acceptance of APCO Recommendation	If NO: Basis for Rejecting APCO Recommendation	If YES: Measures to Implement Recommendation	Proposed Date of Implementation	(AIR DISTRICT USE ONLY) Approval of Response
1	Increase schedule for more frequent temperature monitoring of stockpiles.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Per current Emissions Minimization Plan, Metal Management - Storage Pile Management, temperature monitoring of stockpiles is already conducted hourly, 24/7 days a week. Stockpiles are manually monitored via hand held FLIR cameras hourly and also are monitored via stationary infrared cameras which are continuously monitored by Schnitzer's Security Command Center.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Conduct daily monitoring of the depollution area to ensure flammable materials are properly contained and removed offsite regularly.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Per current Emissions Minimization Plan, Depollution Operations, scrap is rarely depolluted at facility. Scrap suppliers must maintain a Hazardous Substance Removal Contract (HSRCC) which requires delivery of only depolluted scrap. If on rare occasion scrap is depolluted onsite, the scrap is segregated away from stockpiles and any generated wastes are handled per Federal and State regulations and are removed offsite within 90 days.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Continue to obtain and maintain visible emissions evaluation (VEE) certification(s) through California Air Resource Board in accordance with US EPA Method 9 and provide training to onsite staff.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Facility has two Environmental System Control Operators that are CARB VEE certified as of April 2022.	April 5, 2022	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Continue to commit to shredding all scrap to the ground each day to minimize fugitive emissions.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Per current Emissions Minimization Plan, Metal Management - Storage Pile Management, it is Schnitzer's goal to shred as much scrap as possible on any given day and thereby minimize scrap stockpile size. The following factors prevent the facility from always achieving this goal: Variable PG&E power usage curtailment schedule which can restrict the time of day we can operate the shredder. The facility does not shred every day of the week due to maintenance, staffing considerations, and variable incoming volume. Scrap is received throughout the day,	Continuing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

				even after shredding operations have ended for the day. The inflow scrap volume in a given day can exceed the facility's ability to shred all material in a standard shift.		
5	To reduce road dust, pave dirt roads/areas that are used by trucks or heavy-duty equipment to move or transport material.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Facility was fully paved by end of 2021 calendar year.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No