Emissions Minimization Plan

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

Schnitzer Steel Products Company

1101 Embarcadero West Oakland, CA 94607

Site #208

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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: 10-27-14

Jim Pierce, General Manager, Oakland Schnitzer Facility

Responsible Manager

Designation of Confidential Business Information

Specify the information you designate is "CONFIDENTIAL" and include specific section(s) and corresponding page number(s). Describe the basis, e.g. the information is trade secret or otherwise exempt under law from public disclosure.

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

The Facility is a scrap metal recovery and recycling [operation] 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 heavy 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, appliances and other recyclable light steel materials.

At the shedder, 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 alternative daily landfill cover.

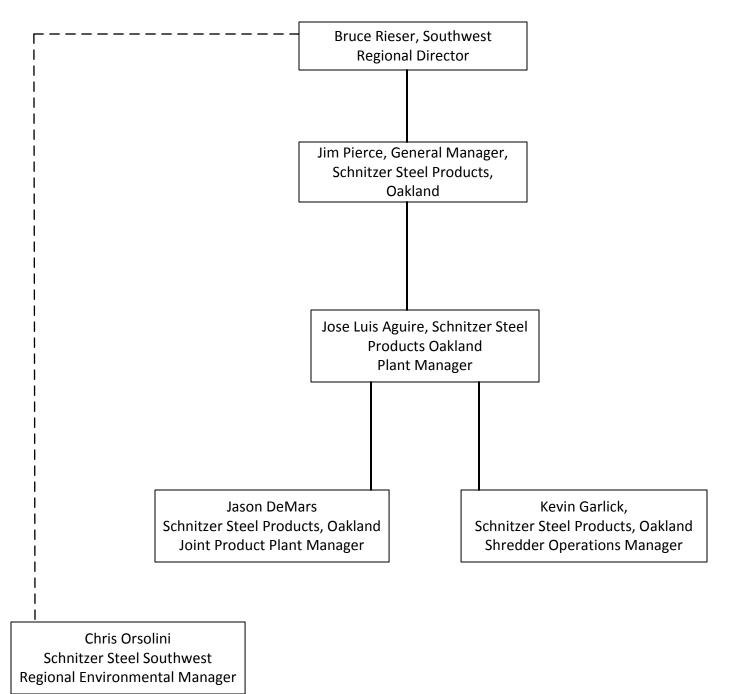
The processed ferrous scrap is stockpiled at the Facility and is eventually loaded at the Facility's docks into cargo ships for export.

Scrap and non-bulk ferrous/non-ferrous metal scrap are received at the Facility at the Peddler Gate, and are also inspected and sorted. Incoming scrap at the Peddler Gate is weighed, sorted and segregated by hand, into bins by scrap type, and either baled at the non-ferrous building and/or stored in cargo containers for transport by truck offsite.

Company Organizational Chart and Schedule of Management Operators 6-4-403.1.3

- A. <u>Company Organizational Chart-</u> Attach a copy of the organizational chart of the company, which describes the business structure and provides the titles of the positions within the organization.
- B. <u>Schedule of Management Operators</u> Provide the names and contact information of the Onsite Responsible Manager(s) and Onsite Alternate Contact(s) and their duty schedule.

A. Company Organizational Chart



B. Schedule of Management Operators

Onsite Responsible Manager(s)

Name: Jim Pierce Title: Facility General Manager Phone: 510-219-5690 Email: jpierce@schn.com Schedule/Shift: Monday through Friday /Variable

Name: Jose Aguirre Title: Plant Manager Phone: 510-774-8053 Email: jaguirre@schn.com Schedule/Shift: Monday through Friday/Variable

Onsite Alternate Contact(s)

Name: Kevin Garlick Title: Shredder Operations Manager Phone: 510-719-0632 Email: kgarlick@schn.com, Monday through Friday/Variable Schedule/Shift:

Name: Jason DeMars Title: Joint Product Operations Manager Phone: 510-444-3919 x334 Email: jdemars@schn.com Schedule/Shift: Monday through Friday/Variable

Name: Chris Orsolini Title: Regional Environmental Manager Phone: 916-512-0269 Email: corsolini@schn.com Schedule/Shift: Variable due to regional responsibilities The EMP shall address all of the following operations that are conducted at a 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	🛛 Yes 🗆 No
402.2	Metal Management	🛛 Yes 🗆 No
402.3	Shredder Residue (SR) Management	🖾 Yes 🗆 No
402.3	Depollution Operations	🛛 Yes 🗆 No

Contents of the EMP 6-4-403

The owner or operator of the metal recycling and shredding facility subject to Section 6-4-401 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. <u>Metal Management</u>- 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. <u>Shredder Residue (SR) Management</u>- 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. <u>Depollution Operations</u>- 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 to include 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. <u>Metal Management</u>

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 a 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.	⊠ Yes □ No		□ Yes ⊠ No	Visual inspection of incoming loads	⊠ Yes □ No	Visually observed amount of soil, trash and debris that can become a source of fugitive particulate.
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, and conveyor belt systems. (Note: Schnitzer considers Transport and Collection to be similar activities)	⊠ Yes □ No		⊠ Yes □ No	Rumble strips are present at the scales at the main entrance and at the entrance to the Pier Crane dock to remove sediment from truck tires. The docks are swept of sediment as needed. Water is sprayed on the ship loading hopper and the pier crane hopper during loading to prevent dust emissions. Water truck sprays all major roadways, paved and unpaved. Sweeper truck cleans all paved roadways. These BMPs remove dirt from truck tires leaving the facility, entering the dock area, and the sweeper removes dirt from dock surface and roads. The water truck wets work surfaces, minimizing the mobilization of dust.	⊠ Yes □ No	Visual observation of Embarcadero West outside the main gate and on the dock to assure that no excess dust is present. Visual observation to confirm that road cleaning is effective.
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, grapple-equipped material handlers, and conveyor belt systems. (Note; Schnitzer considers Transport and Collection to be similar activities)	⊠ Yes □ No		⊠ Yes □ No	Water truck sprays specific loads (e.g. some construction waste loads) in transporting trucks. Dust Boss waters collection pile (out 200 feet) in front of shredder. Water spray reduces potential dust.	⊠ Yes □ No	Visual observation for dust
4	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.	⊠ Yes □ No		⊠ Yes □ No	Water truck sprays HMS and Bonus loads carrying heavy rust coating. Water spray reduce potential dust.	⊠ Yes □ No	Visual observation for dust

5	Separation	6	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 Product Plant.	⊠ Yes □ No	2, 3, 4, 5, 6, and 9	⊠ Yes □ No	 Shredder infeed material is wetted thoroughly in the shredder as it is conveyed to the rotating magnetic drum. The Joint Product plant employs several BMPs to minimize the potential for emissions: covered conveyors, high water content of product, misting of the Joint Product Plant area with a Dust Boss water turbine. Water spray system (A6), simple cyclone (A2), irrigated cyclone scrubber (A3), moving belt dry filter (A4), simple cyclone (A9), and mist eliminator (A5) also apply here. 	⊠ Ye ⊡ No
6	Compilation		Compilation includes the stockpiling of finished shredded ferrous metal. This is transported via a conveyor belt to the shred storage pile.	⊠ Yes □ No		⊠ Yes □ No	Water spray: Shredded product storage pile is water spray-controlled by two Dust Boss machines and a Rainbird sprinkler at conveyor discharge.	⊠ Ye □ No
7	Crushing		This facility operates no crushing equipment.	□ Yes □ No		□ Yes □ No		□ Ye □ No
8	Shredding	6	Shredding is the feeding of light iron and tin (shred feedstock) into a hammer mill that reduces the size of the material into 4-inch or less fist size chunks of ferrous metal and non-ferrous aggregate.	⊠ Yes □ No	6, 2, 3, 4, 9, and 5	⊠ Yes □ No	District Source #6 at this facility is abated by the following District- required abatement devices: Water spray system (A6), simple cyclone (A2), irrigated cyclone scrubber (A3), moving belt dry filter (A4), simple cyclone (A9), and mist eliminator (A5).	⊠ Ye □ No
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.	⊠ Yes □ No		⊠ Yes □ No	Water truck spraying and/or Dust Boss Water Mist Turbines are used to wet stored material to prevent generation of dust when loaded on to trucks carrying product to shipping pier or for processing.	⊠ Ye ⊡ Ne

	Visual observation for dust
Yes No	
Yes No	Visual observation for dust.
Yes No	
Yes No	Water spray system total consumption per shift and water use recorded. Periodic observations are made for non-steam visible emissions.
Yes No	Visual observation to detect any escaping fugitive dust.

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
9	Titanium

Identify the storage piles and the types of metal and metal-containing material being stored. Include 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	N					
Storage	e of Delivered Scrap								
1	Shredder infeed storage pile-Ferrous Material	⊠ YES □ NO	Monitoring for visible dust emission.						
2	HMS Product Storage Piles (1) & (2), and Bonus Product Storage Pile - Ferrous Metal	⊠ YES □ NO	Monitoring for visible dust emission.						
3	HMS material to be sheared pile-Ferrous Metal	⊠ YES □ NO	Monitoring for visible dust emission.						
4	Non-ferrous storage		No fugitive dust monitoring required because inside Joint Products Plant building						
Storage	e of Unprocessed Material								
5	Shredder infeed storage pile-Ferrous Metal	⊠ YES □ NO	Monitoring for visible dust emissions						
6	Non-ferrous storage		No fugitive dust monitoring required because inside Joint Products Plant building						
7	HMS Product Storage Piles 1 and 2 and Bonus storage (Same as Section 2 above)	⊠ YES □ NO	Monitoring for visible dust emission.						
8	Unprocessed HMS product storage (Material to be sheared)- Ferrous metal (Same as Section 3 above)	□ YES □ NO	Monitoring for visible dust emission.						
Storage	e of In-process Material								
9	Non-ferrous raw storage piles (two)- Non Ferrous Metal and Non-Metallic Components of Shredder feedstock	YES 🗆 NO	Monitoring for visible dust emission.						
		1							
Storage 10	e of Finished Product HMS Product Storage Piles 1 and 2. (Same ferrous metal piles as in Section 2 above)	YES ONO	Monitoring for visible dust emission.						
11	Non-ferrous material storage and loading area.	⊠ YES □ NO	Monitoring for visible dust emission.						
12	Shredded product storage and excess product storage (Can be Bonus product or HMS product) - All ferrous metal.	⊠ YES □ NO	Monitoring for visible dust emission.						
13	Zorba storage (aluminum)	⊠ YES □ NO	Monitoring for visible dust emission.						
Storage	e of Shredder Residue								
14	Treated shredder residue storage pile-Predominantly non-metallic residual of shredder feedstock.	YES 🗆 NO	Monitoring for visible dust emission.						

Monito Equip		If Yes: Identify Monitoring Equipment Used
YES	⊠ NO	
YES	⊠ NO	
YES		
YES	⊠ NO	
YES	⊠ NO	
YES	⊠ NO	
YES		
YES	⊠ NO	
YES	⊠ NO	
] YES	⊠ NO	
YES	⊠ NO	
YES	⊠ NO	
YES		

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	Simple cyclone	A2	S6 Steel Shredder; S7 Steel Infeed Conveyor
3	Irrigated cyclone scrubber	A3	S6 Steel Shredder; S7 Steel Infeed Conveyor
4	Moving belt dry filter	A4	S6 Steel Shredder; S7 Steel Infeed Conveyor
5	Simple Cyclone	A9	S6 Steel Shredder; S7 Steel Infeed Conveyor
6	Mist eliminator	A5	S6 Steel Shredder; S7 Steel Infeed Conveyor
7	Baghouse, pulse jet	A10	S10 Fly ash silo

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.

# u	Equipment or Structure		SR Stored		MONITORING		SR ADDITIVE				
Section #	for Processing SR	S# Enclosed						Monitoring Conducted	Monitoring Parameters	Use of SR Additive	Type and Purpose of Additive
1	Joint Product Plant		□ Yes ⊠ No	⊠ Yes □ No	Monitoring for visible dust emissions.	□ Yes ⊠ No					
2	Treated Shredder Residue Storage Pile		□ Yes ⊠ No	⊠ Yes □ No	Monitoring for visible dust emissions.	⊠ Yes □ 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.				
			□ Yes □ No	□ Yes □ No		□ Yes □ No					
			□ Yes □ No	□ Yes □ No		□ Yes □ No					
			□ Yes □ No	□ Yes □ No		□ Yes □ No					
			□ Yes □ No	□ Yes □ No		□ Yes □ No					

Metal Recycling and Shredding Operations

III. <u>Depollution Operations</u>

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 occurs under limited circumstances by a DTSC/EPA licensed contractor. Applicances include refrigerators, stoves, washing machines, clothes dryers, and dishwashers, which are depolluted of capacitors, ballasts, mercury switches, oils, batteries, CFCs, HCFCs, and all refrigerants or other hazardous materials.

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.

Schnitzer Steel does not regularly depollute material at our Oakland facility. We only accept scrap that has been properly depolluted prior to shipment to our site.

Schnitzer Steel will occasionally accept intact appliances from large commercial accounts for recycling. Schnitzer hires a certified appliance recycler contractor to properly depollute these appliances. Certified appliance recyclers must have an EPA identification number for hazardous waste and be approved by the California Department of Toxic Substances Control (DTSC) to depollute appliances. This third party, EPA/DTSC certified contractor removes any hazardous materials and properly disposes of the material.

Schnitzer cannot predict with any certainty how often certified appliance recyclers will be onsite to depollute appliances. We generally do not accept intact appliances at our facility, and only accept depolluted appliances from most customers. The Certified Appliance Recycler Contractor will conduct all depollution activities and will be onsite during all depollution activities because the contractor is the entity performing the depollution activities, not Schnitzer employees.

Schnitzer Steel contracts with Freon Free, a Certified Appliance Recycler, DTSC # 0111:

Freon Free

2350 S Watney Way Fairfield, CA 94533

(707) 429-9013

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 either depolluted by a Certified Appliance Recycler or the material would be profiled for disposal by Schnitzer Steel.

All MRSH discovered that is not rejected by Schnitzer will be profiled for disposal according to all federal and state regulations and sent to a facility that is authorized to accept the waste.

Scrap Acceptance Policy

SCRAP ACCEPTANCE POLICY

Attach a copy of facility's Scrap Acceptance Policy.

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. Any exception to this policy must be pre-approved.

Please read this brochure carefully, and contact our Commercial Manager Steve Blackman at (510) 425-6377 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.
- CRT's (cathode-ray tubes) including TVs, monitors, portable DVD players.
- Any material containing hazardous or toxic substances, pesticides, etc.
- ang paliti ang sa sa sa karana a sa sa b
 - Military or munitions scrap.
 - 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 be separated from other scrap metal and must not be baled, crushed or tampered with (i.e. 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 absor bers, propane and other gas tanks must be cut in half and valves removed. Acetylene cylinders are strictly prohibited.
- Aerosol cans: MUST be empty and 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 colled and banded with 34-inch steel banding in at least 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 art work.
- 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 bulk 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.

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	
	1	Industrial wheel wash at front gate	When
	2	Wheel wash at concrete dock	When pier.
	3	Sweeping of internal paved roads.	8 hour betwe
	4	External paved road (Embarcadero West) swept during normal business hours.	8 hour betwee
	5	Watering of internal roads, scrap metal stockpiles and treated shredder residue stockpiles using water truck and [Dust] Boss misting cannons.	A min
	6	Water spraying of scrap product during unloading of transport trucks into 3-sided hoppers on dock for shipping.	Limite
ROADWAY AND OTHER	7	Visual inspection of all onsite roads to assure sweeping is taking place	At leas
TRAFFICKED SURFACES	8	Employee training	Initial emplo
			Compo Annua the Oa
			topics New H
	9	Speed limit of 5mph for equipment and trucks inside yard.	once p 24 hou
			is oper

Schedule of Activity

enever materials haul trucks exit the plant

enever material haul trucks travel out onto the shiploading

ours per day, Monday through Friday (Sweeping is split veen internal roads and Embarcadero West)

urs per day, Monday through Friday (Sweeping is split veen internal roads and Embarcadero West)

inimum of several times per day, more frequently if needed.

ited to few seconds of truck discharge into hopper to imize water runoff.

east one inspection daily

ally for new employees, and annual update for current loyees. New employee training includes an air quality ponent among other pertinent environmental topics. ual training is a full tailgate session specifically tailored to Oakland Schnitzer facility. All emission minimization cs are reviewed in this session. Frequency of training is: 1) ⁷ Employee: within 90 days of hire. 2)Tailgate Training: e per year for all employees and supervisors. nours per day, 7 days per week whenever facility equipment berating.

MANAGEMENT PRACTICES TO REDUCE FUGITIVE EMISSIONS – METAL MANAGEMENT

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

	Section #	Management Practices to Reduce Fugitive Emissions	
TRANSPORT	1	Speed limit of 5 mph. Signs posted.	24 hor operat
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.	Durin
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.	Durin
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 Storage piles.	Durin
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.	Durin
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, cyclone separation and collection, dry filtration, and mist elimination.	Shred vary)
STORAGE OF METALS	SEE STOF	RAGE PILE MANAGEMENT SECTION	
STORAGE OF METAL- CONTAINING MATERIAL	SEE STOP	RAGE PILE MANAGEMENT SECTION	
STORAGE OF NON- METALLIC MATERIAL	SEE STORAGE PILE MANAGEMENT SECTION		

Schedule of Activity

nours per day, 7 days per week whenever equipment is rating.

ing all hours of operation when receiving incoming trucks.

ing all hours of operation when receiving incoming trucks.

ing all hours of operation when receiving incoming trucks

ing all hours of operation when receiving incoming trucks

edding: 3:00 am to 11:45 am, Monday through Friday (Can y)

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	
	1	Employee training.	Initially for New employ other pertine topic specifi emission mi
	2	Initial shredding process adds water to feedstock. Residual moisture in Non Ferrous fraction of shred output helps to minimize fugitive dust emissions.	Whenever fa material bein
	3	Covered conveyors in Joint Product Plant to better contain material and separation process.	Conveyors a Conveyor co
	4	Oscillating, elevated Dust Boss to mist Joint Product Plant, thereby minimizing fugitive emissions from separation process.	Whenever Jo days.
SHREDDER RESIDUE	5	Misters at key transition points in Joint Product Plant to minimize fugitive emissions.	Whenever Jo
MANAGEMENT			

Schedule of Activity

or new employees, and annual update for current employees. oyee training includes an air quality component among inent environmental topics. Annual training is a full tailgate ifically tailored to the Oakland Schnitzer facility. All ninimization topics are reviewed in this session.

facility shredder is operating, water is being added to the eing processed.

s are covered when Joint Product Plant is operating. covers occasionally removed for maintenance.

Joint Product Plant is operating with the exception of rainy

Joint Product Plant is operating.

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		
DEPOLLUTION ACTIVITIES	1	Subcontracted depollution only conducted by certified subcontractors holding DTSC and EPA permits (i.e. "Certified Appliance Recyclers").	Occasional depollution activities. appliances.	

Schedule of Activity

al activity when applicances are accepted for onsite on. CAR contractors are onsite for all appliance depollution Schnitzer Steel is authorized by DTSC to depollute

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 Emissions	
	1	Water spraying of all delivered scrap stockpiles as needed during unloading and material handling. Can include water truck and/or use of Dust Boss misting turbines.	Durin as nee
Storage of	2	Pile size of Light Tin/Iron (Shredder Infeed Material) is 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.	Mater
Delivered Scrap	3	Light Tin/Iron piles (Shredder Infeed Material) is monitored by the nighttime security guards every two hours during non-business hours with an infrared camera to check for hot spots that are warmer than ambient temperature.	Durin
	4	Water spraying of all unprocessed material storage piles as needed during unloading and material handling. Can include water truck and/or use of Dust Boss misting turbines.	Durin
Storage	5	Pile size of Light Tin/Iron (Shredder Infeed Material) is 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.	Mater
of Unprocessed Material	6	Light Tin/Iron piles (Shredder Infeed Material) is monitored by the nighttime security guards every two hours during non-business hours with an infrared camera to check for hot spots that are warmer than ambient temperature. HMS and Bonus material stockpiles are predominantly metallic (greater than 99.99%) and lack sufficient combustible material to sustain a fire. As such, they are not monitored with the infrared camera.	Durin
	7	Water spraying of all in-process material storage storage piles as needed during unloading and material handling. Can include water truck and/or use of Dust Boss misting turbines.	Durin
Storage	8	Non-Ferrous Aggregate stockpiles are kept to a minimum by processing the material in a timely manner through the Joint Product Plant.	Mater
of In-process Material	9	Non-Ferrous Aggregate is monitored by the nighttime security guards every two hours during non-business hours with an infrared camera to check for hotspots that are warmer than ambient temperature. Its high residual moisture content from the shredding process makes fires unlikely in this material.	Durin
	10	Water spraying of all finished product stockpiles as needed during unloading and material handling. Can include one or more of the following: water truck, Dust Boss misting turbines, hand spraying with hose and nozzle.	Durin
Storage of	11	Stockpiles of finished product such as shred, prepared HMS, prepared Bonus, Zorba, and other non-ferrous commodities are shipped out according to schedules of material sales and their sizes can vary and are more difficult to control/minimize.	Mater
Finished Product	12	Finished product is predominantly metallic (greater than 99.99%) and lacks sufficient combustible material to sustain a fire. As such, they are not monitored with the infrared camera.	

Schedule of Activity

ring all hours of operation when receiving incoming trucks needed.

terial is stored onsite 7 days per week.

ing off business hours - nights and weekends

ing all hours of operation as needed.

terial is stored onsite 7 days per week.

ing off business hours - nights and weekends.

ing all hours of operation as needed.

terial is stored onsite 7 days per week.

ing off business hours - nights and weekends

ing all hours of operation as needed.

terial is stored onsite 7 days per week.

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.

• Full time visual observation of shredder input pile for potentially flammable off-spec[ification] materials (e.g. Li-Ion battery, gasoline residue).

• Security Guards perform visual observations of stockpiles every two hours after business hours. If smoldering or fire is observed, the fire department and yard management are notified.

• Shredder Infeed Pile and Non-Ferrous Raw Piles are inspected every two hours with an infrared camera. The piles are observed from several different angles with the infrared camera. Variances in temperature greater than 100 degrees Farenheit above ambient temperatures are reported to yard management for investigation.

• Schnitzer attempts to process as much material through the shredder as possible in an attempt to minimize stockpiles of shredder infeed material. Due to circumstances beyond Schnitzer's control such as equipment failure/maintenance, PG&E power delivery curtailment, and incoming material volume, shredder infeed pile sizes can vary from day to day.

• 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

• Schnitzer maintains records of all environmental training related to this EMP for employees at the facility.

• Schnitzer maintains periodic random load inspection records (looking for prohibited material) 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 truck for dust control, use of Dust Boss machines 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.

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 truck for dust control, use of Dust Boss machines 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 drayage truck rule.

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 after the close of business, include a description of the duties to ensure visible emissions are minimized from storage piles of material.

2 Metal Management ⊠ Yes □ No = 5 ⊠ Yes □ No = 2 emissions Shree pile to check 3 Transport ⊠ Yes □ No ∨ Yes □ No □ ∑ Yes □	
2 Metal Management Image: Yes in No = 5 Image: Yes in No = 2 emissions 3 Transport Image: Yes in No Image: Yes in No </th <th>ight Security Staff (two persons)</th>	ight Security Staff (two persons)
3 Transport Image: Yes in No	missions. This staff is required t
Image: Section Image: Section 5 Collection 6 Sorting Market Section Image: Section Image:	hredder Infeed Storage Pile, Nor ile to also look for potential fires heck for "hot spots" that could in
5 Collection Image: Sector of the sector of	Section 10: No crushing of vehic
6 Sorting ⊠ Yes □ No □ Yes, # ⊠ Yes □ No □ Yes, # ™ Ther	-
	ection 16: Schnitzer Steel does n herefore, no depollution activitie
	leferore, no depondulon denvite
8 Separation	
9 Compilation ⊠ Yes No	
10 Crushing □ Yes No	
11 Shredding ⊠ Yes □ No ⊠ Yes □ No	
12 Storage of Metals ⊠ Yes □	
13 Storage of Metal-Containing Material ⊠ Yes □ No	
14 Storage of Non-Metallic Material Image: Second	
15 Shredder Residue Management Image: Yes No	
16 Depollution Activities Image: Yes image: No	

is designated after the close of business le emissions, describe the specific duties es to prevent and minimize visible emissions.

ns) has the major responsibility to observe any visible d to conduct observation walks every two hours to the fon-Ferrous Raw Storge Pile, and Treated Shredder Residue res. These piles are observed with an infrared camera to indicate potential fires.

icles takes place at this facility.

s not accept intact appliances, only depolluted appliances. ties typically take place.

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.

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: 3:00 am to 11:45 am, Monday through Friday

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 Product 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.

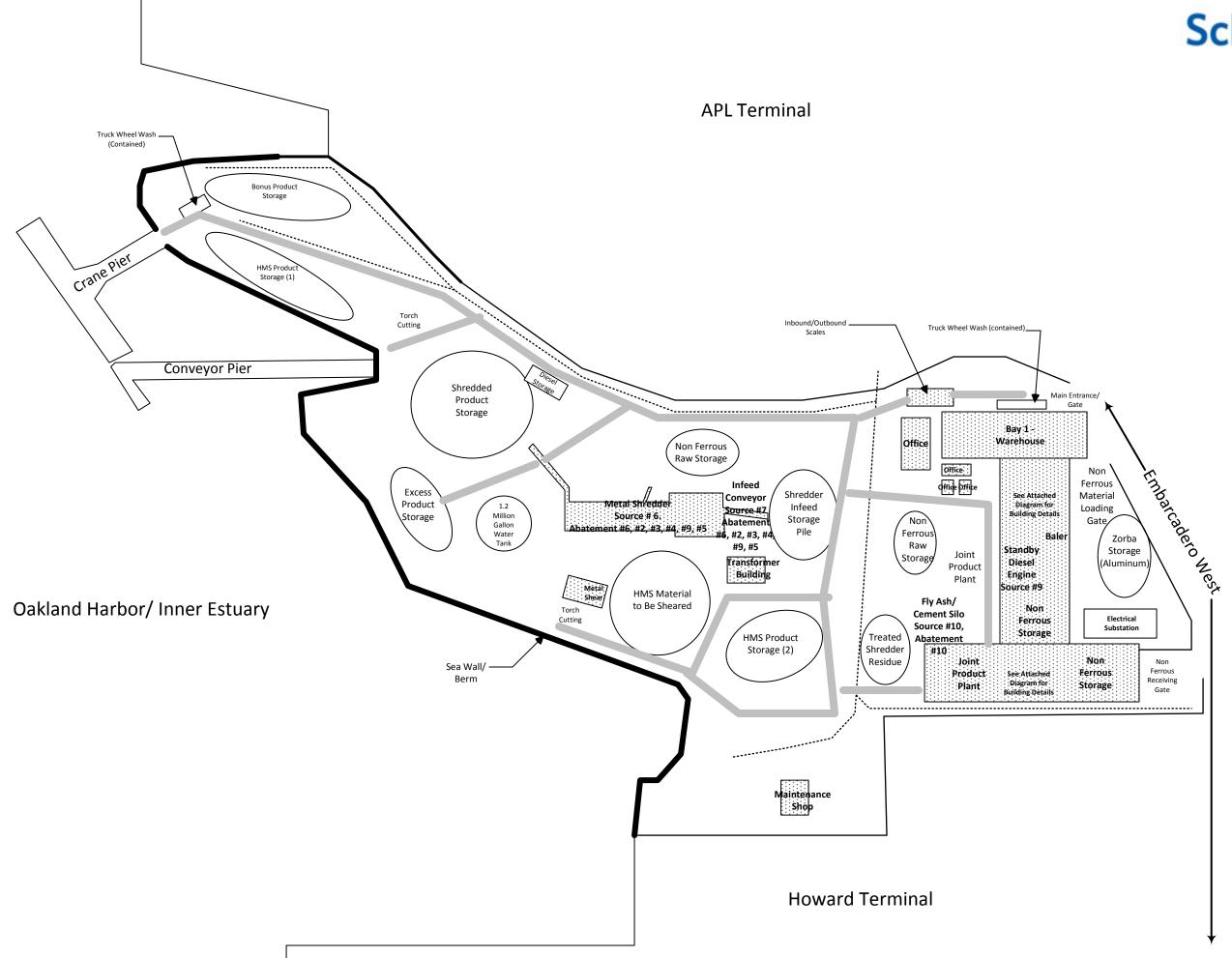
Technical Data

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.
- 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.

A. Process Flow Diagram

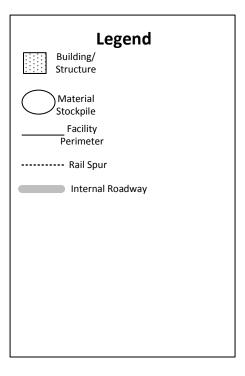
Attach Process Flow Diagram

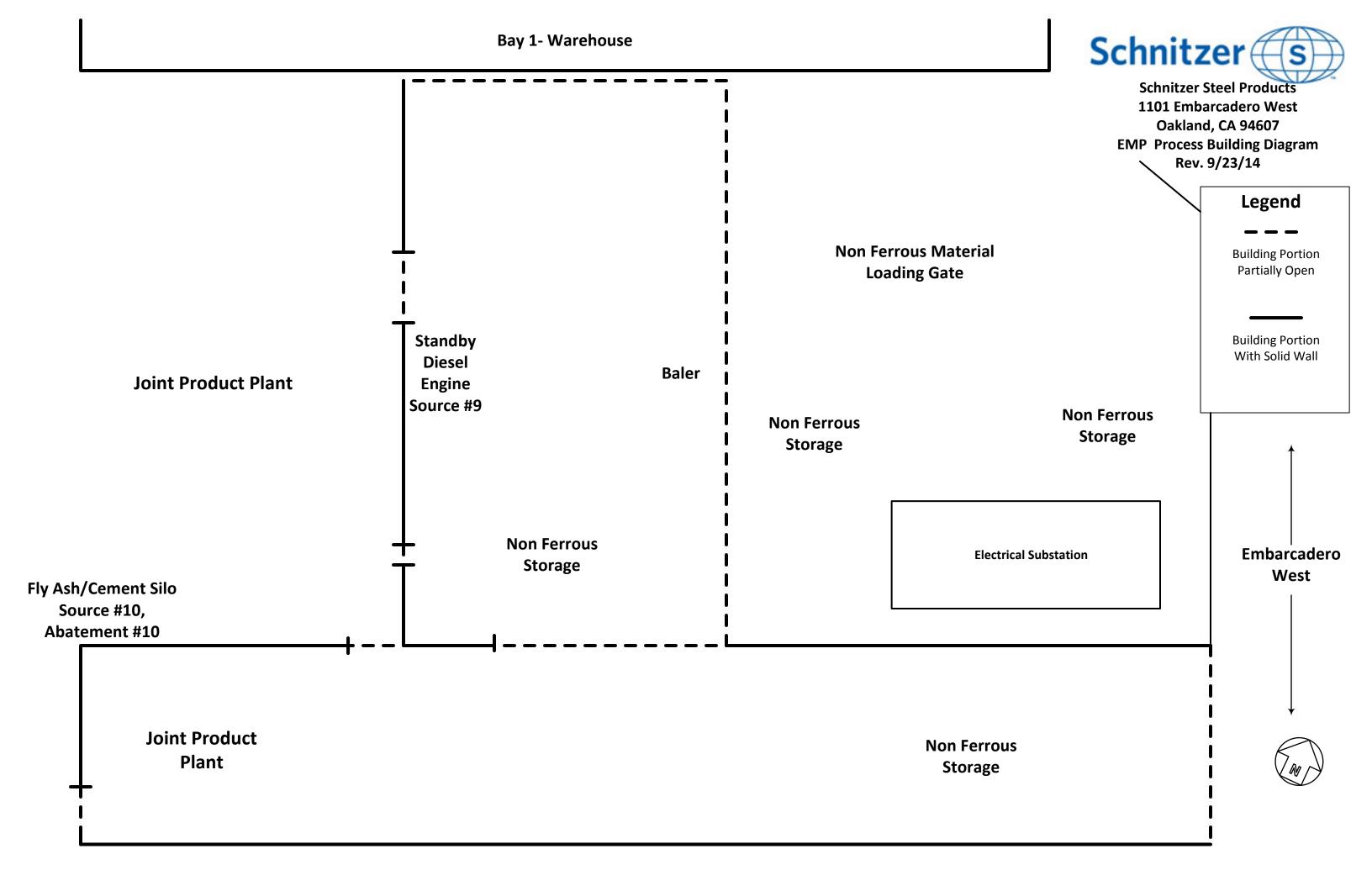




Schnitzer Steel Products 1101 Embarcadero West Oakland, CA 94607 EMP Process Map Rev. 4/7/14



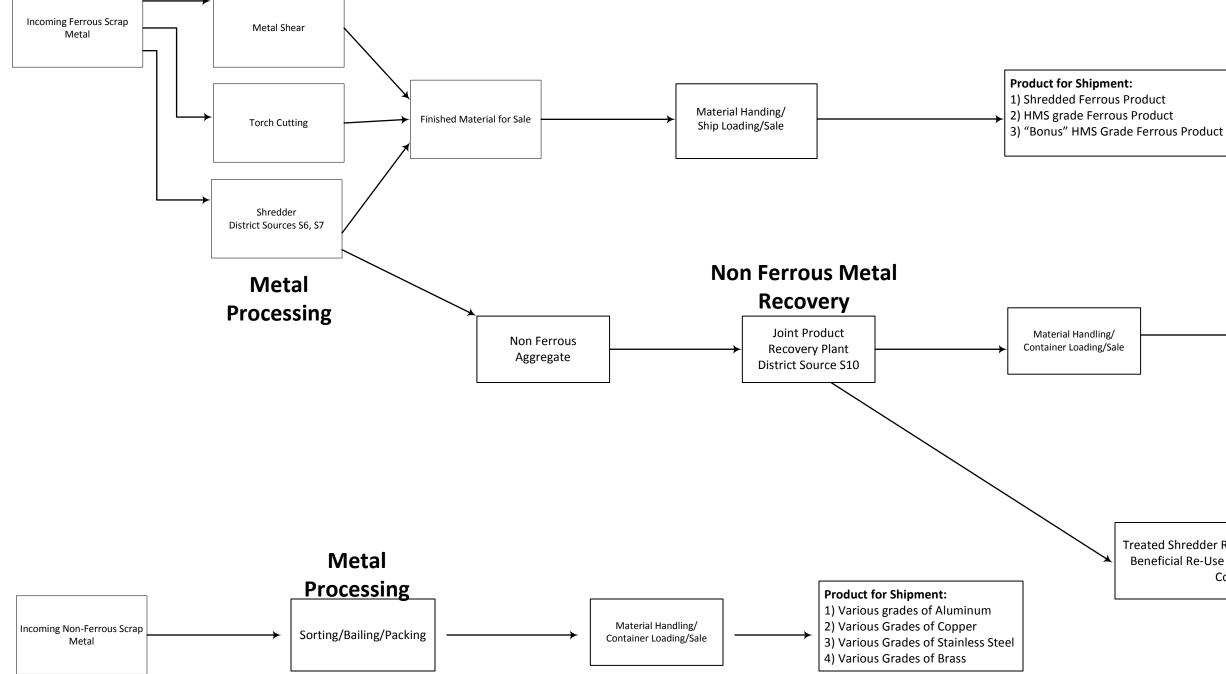




B. Facility Layout / Floor Plan

Attach Facility Layout/ Floor Plan

Schnitzer Steel Oakland-Overall Process Diagram

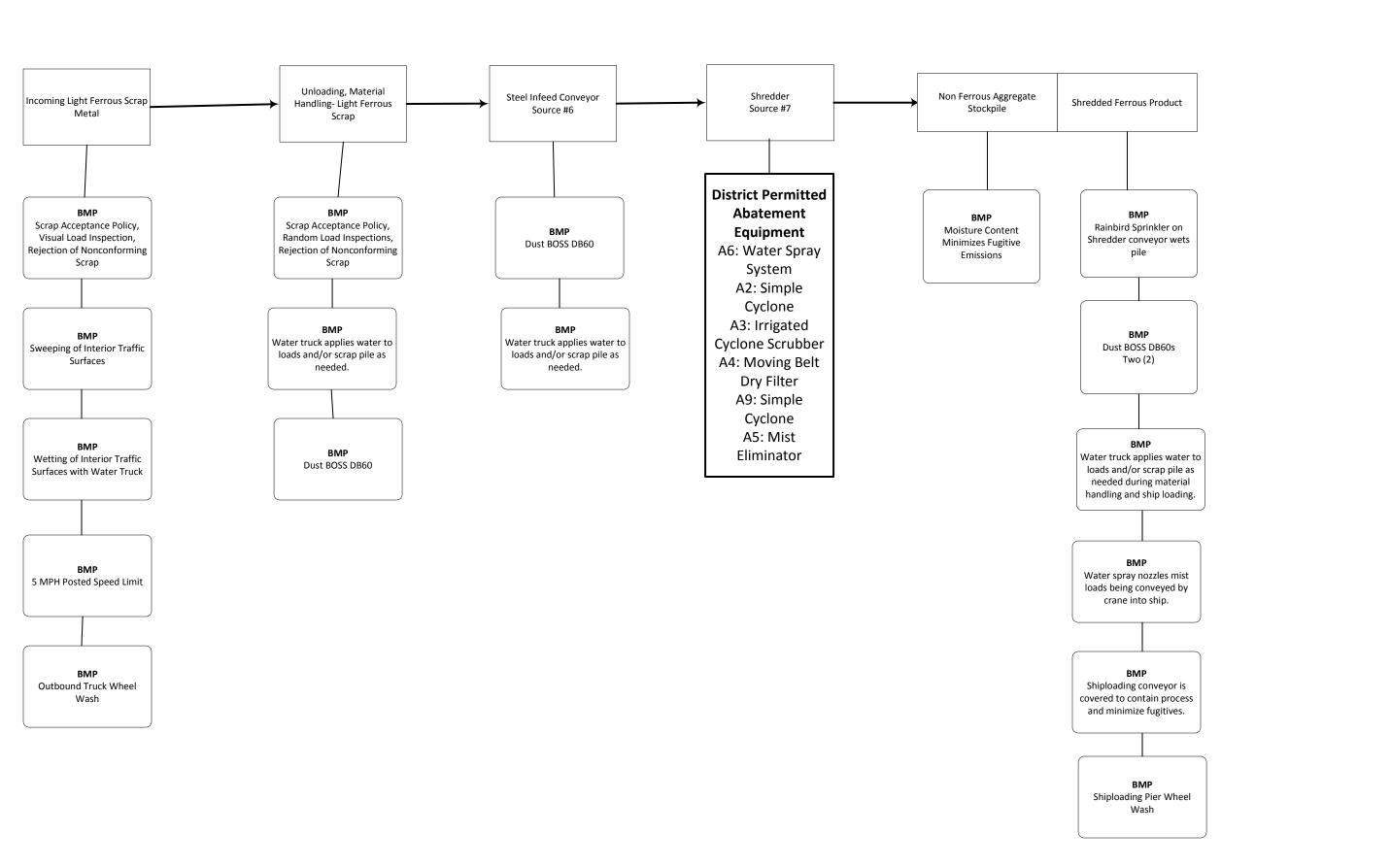


Oakland Schnitzer Steel Process Flow Diagram

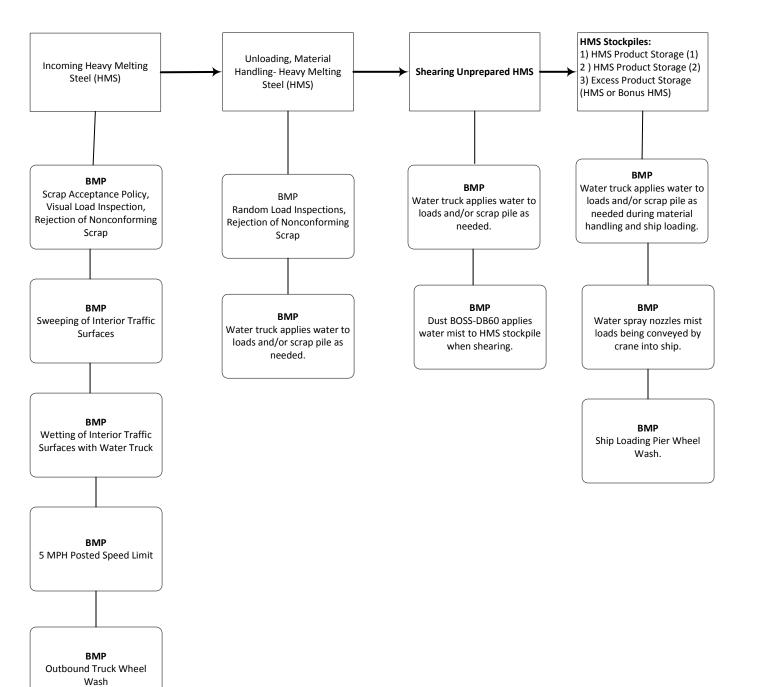


Treated Shredder Residue to Landfill for Beneficial Re-Use as Alternative Daily Cover

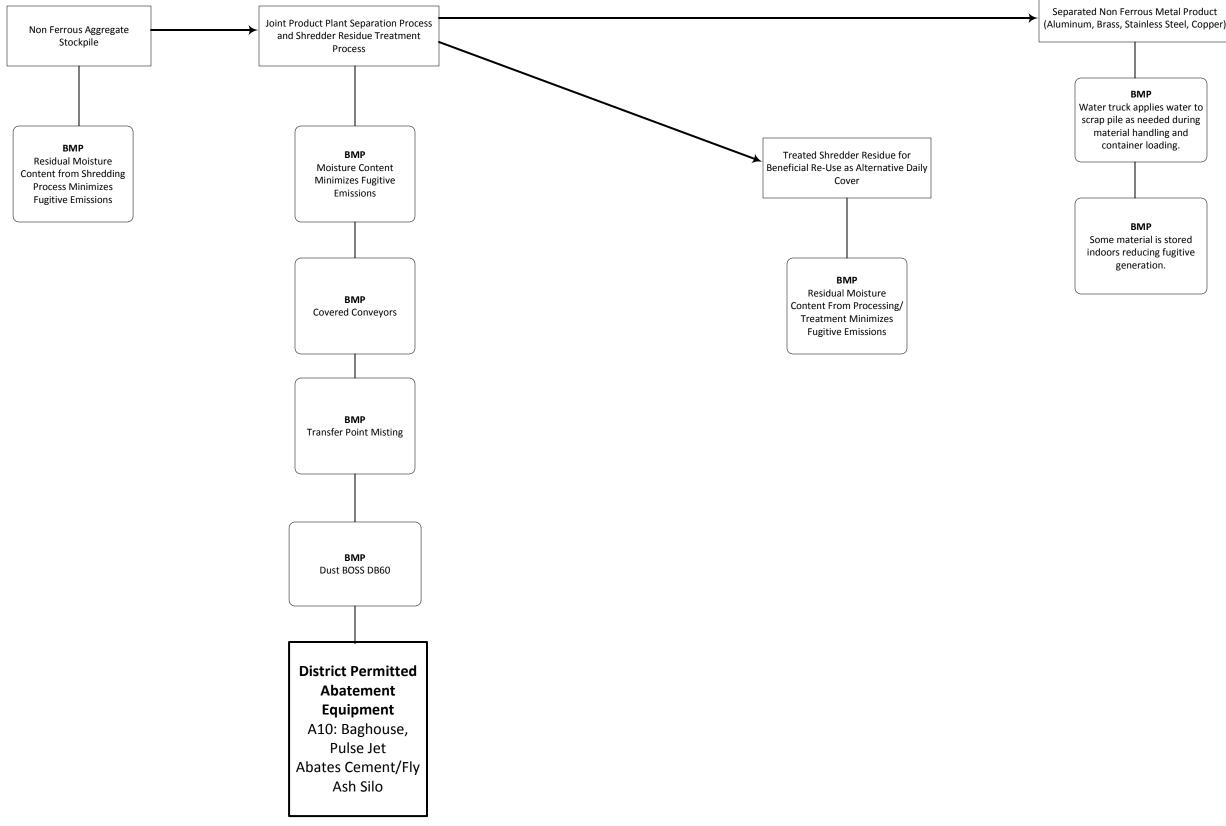
Shredding Process Diagram With BMP's



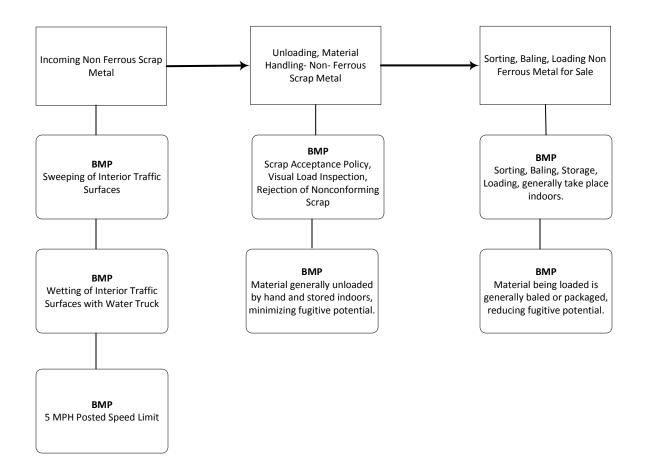
Shearing Process Diagram with BMP's



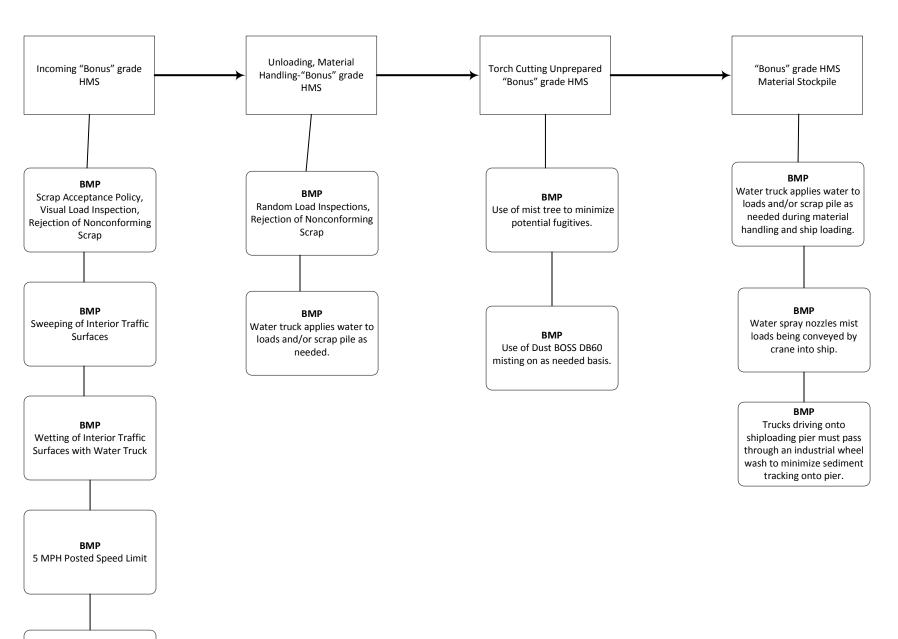
Joint Product Plant Separation Process Diagram with BMP's



Non Ferrous Metal Receiving & Processing Diagram with BMP's



Torch Cutting Process with BMP's



BMP Outbound Wheel Wash

Fugitive Emissions Reductions Previously Realized

6-4-403.2

Facilities must provide a description of the equipment, processes and procedures installed or implemented within the last five years that primarily or secondarily reduce fugitive emissions from facility operations. Include the purpose for implementation and detail any employee training that was conducted for that equipment, process or procedure and the frequency of the training.

Section #	Identify Type of Operation per Section 6-4-402	Description of Equipment, Processes or Procedures Previously Realized	Implementation Date	Purpose of Implementation	Employee Training Conducted	Description of Employee Training and Frequency of Training
	Roadways and other Trafficked Surfaces	Commercial wheel wash at facility exit	10/30/2012	Minimize trackout of dust on to city streets	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
e	Roadways and other Trafficked Surfaces	Complete power wash cleaning of dock and pier annually. Wheel washer was installed at pier crane dock.	9/2012,9/2013 and 1/2013, respectively	Reduce silt on dock and pier surface that can be entrained as fugitive particulate emission.	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
	Roadways and other Trafficked Surfaces	Facility Speed Limit, 5 mph.	2009 (estimated)	Reduce generation of fugitive dust through controlling vehicle and equipment speed.	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
	Metal Management	Three Dust Boss Mist Turbines purchased to cover the shred pile, ship loading conveyor, and metal shearing operations.	2011	Wet piles during material handling and minimize particulates already mobilized in the air.	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
	Metal Management	Water truck used to wet piles when material handled.	10/2007	Minimizes particulate generation during material handling.	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
	Metal Management	Ship loading conveyor covered/contained.	10/2013	Reduce potential for windblown fugitives while shiploading.	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
	Metal Management	Purchased/Installed Remote Control, Dust Boss (Model DB60) on tower at Shred Pile/Shred Shiploading Conveyor.	10/2013	Replaces mobile Dust Boss with a fixed, elevated Dust Boss 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.	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
	Shredder Residue Management	Material is kept moist with water.	1980	Minimize mobilization of particulate matter	⊠ Yes □ No	Initial and annual update training in tailgate sessions.
					□ Yes □ No	

Schedule for the Implementation of the EMP Elements

6-4-403.4

- *A.* Provide a list of existing or current EMP elements in place pursuant to and under a District Authority to Construct as of the initial date of EMP submittal (on or before May 1, 2014). Include a description, the purpose and schedule of the element(s).
- *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.

Α.	A. 6-4-403.3.1 SCHEDULE FOR THE IMPLEMENTATION OF THE EMP ELEMENTS (on or before May 1, 2014)					
Section #	Identify Type of Operation per Section 6-4-402	List Specific Elements to be Implemented on or before May 1, 2014	Implementation Date	Description of Elements to be Implemented	Purpose of Implementation	
1	Metals Management	Dust Boss DB60 installed at Shredder Infeed Material Stockpile.	3/2014	Water mist turbine	Wetting of Shredder Feed Stock Pile and unloading area. General suppression of incidental fugitive dust.	
2	Metals Management	Dust Boss DB60 installed on Tower at Joint Product Plant.	4/2014	Tower mounted water mist turbine	Wetting of outdoor portion of Joint Product Plant. General suppression of incidental fugitive dust.	
3	Metals Management; and Shredder Residue Management	Infrared Camera	4/2014	After hour infrared camera inspection of Shredder Infeed Stockpile, Shredder Residue Stockpile, Non-Ferrous Raw stockpile.	Security Guards to supplement visual observations for fire potential with infrared camera. This will help to identify issues in stockpiles before they progress to a potential fire.	
4	Metals Management	Foam Injection System	4/2014	The Foam Injection System pumps foam additive into the cooling water injection system of the shredder at a rate controlled by the shredder's programmable logic controller (PLC).	Reduce generation of fugitive dust during shredding.	

E	B. 6-4-403.3.2 NEW OR FUTURE EMP ELEMENTS TO BE IMPLEMENTED					
Section #	Identify Type of Operation per Section 6-4-402	List Specific Elements to be Implemented Following APCO Approval of the EMP	Implementation Date	Description of Elements to be Implemented		
1	Roadways and other trafficked surfaces	Increase amount of paved surfaces throughout yard.	2018	Increase paved surfaces, especially in high traffic areas.		
2	Metals Management	Dust Boss DB60	2015	Install Dust Boss DB60 at HMS and Bonus Stockpiles		

nted	Purpose of Implementation
	Reduce fugitive dust generation. Paved surfaces allow for easy sweeping of particulates. Less mud created and tracked throughout yard.
	Wet HMS and Bonus stockpiles, general suppression of incidental fugitive dust.

Compliance Schedule for the EMP

6-4-404

A. APCO Recommendations to EMP and Determination of Approvability– Acknowledge acceptance or rejection of each of the APCO's recommendations. For each of the accepted recommendations, describe the measures to be implemented and include the date of proposed implementation. If the facility rejects a recommendation, provide a detailed basis for that rejection.

A. APCO Recommendations to EMP and Determination of Approvability (6-4-405)

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 #	Date of APCO Recommendation	(FOR APCO USE ONLY) APCO Recommendation	Acceptance of APCO Recommendation	If NO: Basis for Rejecting APCO Recommendation	If YES: Measures to Implement Re
			□ Yes □ No		
			□ Yes □ No		
			□ Yes □ No		
			□ Yes □ No		

ecommendation	Proposed Date of Implementation	(APCO USE ONLY) Implementation Verified by APCO
		□ Yes □ No

A. APCO Recommendations to EMP and Determination of Approvability (6-4-405)

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 #	Date of APCO Recommendation	(FOR APCO USE ONLY) APCO Recommendation	Acceptance of APCO Recommendation	If NO: Basis for Rejecting APCO Recommendation	If YES: Measures to Implement Rec
			□ Yes □ No		
			□ Yes □ No		
			□ Yes □ No		
			□ Yes □ No		

ecommendation	Proposed Date of Implementation	(APCO USE ONLY) Implementation Verified by APCO
		□ Yes □ No

Appendix

If additional information are to be included in the EMP, identify the associated Appendix # as "*#*" in the text box of the specific table.

In the table below, note the Appendix # and provide the Page # and Section # of the EMP where the material references.

Appendix #	Reference to Page # and Section # of EMP	
	Page # , Section	#
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Appendix #

Reference to Page # , Section #