



Lincoln-Lancaster County  
Health Department

# Lincoln-Lancaster County Health Department Air Quality Program 40 CFR Part 63 Subpart XXXXXX – Initial Notification / Notification of Compliance Status

## What is the purpose of this rule?

- The United States Environmental Protection Agency (US EPA) issued [40 CFR Part 63, Subpart XXXXXX \(National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories\)](#) to establish emission limitations and operating limitations to reduce/control hazardous air pollutants (HAP) emitted from facilities that are 'area sources' of HAPs performing several types of metal fabrication and finishing operations. An *area source* is a facility with total potential to emit less than 10 tons of any individual HAP, and less than 25 tons of total combined HAPs. A *major source* is a facility with the total potential to emit either 10 tons or more of any individual HAP, or 25 tons or more of total combined HAPs.

## Who is subject to this rule, and who is not?

- You may be subject to this rule if you own or operate a source that is 'primarily engaged' in any one of the following nine source categories:
  - (1) Electrical and Electronic Equipment Finishing
  - (2) Fabricated Metal Products
  - (3) Fabricated Plate Work (Boiler Shops)
  - (4) Fabricated Structural Metal Manufacturing
  - (5) Heating Equipment, except Electric
  - (6) Industrial Machinery and Equipment Finishing
  - (7) Iron and Steel Forging
  - (8) Primary Metal Products Manufacturing
  - (9) Valves and Pipe Fittings
- 'Primarily engaged' means that, at your facility, manufacturing, fabricating, or forging associated with one or more of the activities listed above represent at least 50% of total production based on production volume, square feet, linear feet, or other measure best suited to your facility. For this rule, production is based on a continuous 12-month period.
- You are subject to this rule if you are 'primarily engaged' in any of those categories, and you use materials that contain or have the potential to emit 'metal fabrication or finishing metal HAP' (MFHAP). MFHAP is defined as both the elemental forms and compounds of cadmium (Cd), chromium (Cr), manganese (Mn), nickel (Ni), and also compounds of lead (Pb). Materials that do not contain cadmium (Cd), chromium (Cr), lead (Pb), or nickel (Ni) in amounts greater than or equal to 0.1% by weight, and does not contain manganese (Mn) in amounts greater than or equal to 1.0% by weight, as reported on the Safety Data Sheet for the material, are not considered to be materials that contain or emit MFHAP.
- Refer to the attachment at the end of this form for more information on whether you are subject to Subpart XXXXXX.

## What is the purpose of this form, and who needs to submit it?

- The purpose of this form is to notify the Lincoln-Lancaster County Health Department (LLCHD) and the US EPA that your facility is subject to the requirements of this rule, and to provide those agencies with needed information.
- You **must** complete and submit this form to both the LLCHD and US EPA if you own/operate a source that is subject to Subpart XXXXXX.
- This document **must** be signed and certified by an individual who meets the definition of a 'Responsible Official' set forth in [Article 2, Section 1 of the Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards.](#)

## How do I determine if my source is 'existing' or 'new'?

- Your source is 'new' if you commenced construction or reconstruction of the affected source on or after April 3, 2008. Your source is 'existing' if you commenced construction/reconstruction before April 3, 2008.

## Where do I send the completed form?

- Send a copy of the signed and completed form to each of the following. Keep an additional copy for your records.

Lincoln-Lancaster County Health Department	US EPA Region 7
ATTN: Air Quality Program	ATTN: AWMD-APCO
3131 O Street	11201 Renner Blvd.
Lincoln, NE 68510	Lenexa, KS 66219

**If you have any questions about this rule, or need any help completing this form, please call the LLCHD Air Quality Program at (402) 441-8040.**



## Lincoln-Lancaster County Health Department

Environmental Public Health Division

Air Quality Program

3131 O Street  
Lincoln, Nebraska 68510

Phone: (402) 441-8040

Fax: (402) 441-3890

### **Initial Notice / Notice of Compliance Status for 40 CFR 63 Subpart XXXXXX – National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories**

#### **Section 1: Facility Information**

Please provide the following information:

LLCHD Air Quality Program Source Number (if known):	
Facility Name:	
Facility Address:	
Mailing Address (if different):	
City, State, ZIP:	
Facility NAICS:	

#### **Section 2: Contact Information**

Please provide the following information:

Contact Person Name:	
Contact Person Title:	
Phone Number:	
E-Mail Address:	

#### **Section 3: Responsible Official Certification**

*I am submitting this Initial Notification / Notification of Compliance Status pursuant to 40 CFR 63 Subpart XXXXXX §63.11519 paragraph (a). I certify the information contained in this notification to be accurate and true to the best of my knowledge.*

<input type="checkbox"/>	<b>I hereby certify that my facility is in compliance with the requirements of Subpart XXXXXX.</b>
Responsible Official Name:	
Responsible Official Title:	
Phone Number:	
_____	_____
(Signature of Responsible Official)	Date

**Section 4: Description of Affected Source**

<b>1. Check the box below that correctly describes your facility's date of construction or reconstruction.</b>			
<input type="checkbox"/>	Constructed or reconstructed before April 3, 2008 = 'Existing source'		
<input type="checkbox"/>	Constructed or reconstructed on or after April 3, 2008 = 'New source'		
<b>2. Check the appropriate box, or boxes, below that reflects the type(s) of metal fabrication and/or metal finishing activities performed at your facility. Check all that apply.</b>			
<input type="checkbox"/>	Electrical and Electronic Equipment Finishing	<input type="checkbox"/>	Fabricated Metal Products
<input type="checkbox"/>	Fabricated Plate Work (Boiler Shops)	<input type="checkbox"/>	Fabricated Structural Metal Manufacturing
<input type="checkbox"/>	Heating Equipment, except Electric	<input type="checkbox"/>	Industrial Machinery & Equipment Finishing
<input type="checkbox"/>	Iron and Steel Forging	<input type="checkbox"/>	Primary Metal Products Manufacturing
<input type="checkbox"/>	Valves and Pipe Fittings		
<b>3. If you are primarily engaged in the operations listed above, then in the table below, indicate which operations are conducted at your facility. <u>ONLY included those operations that utilize materials containing cadmium (Cd), chromium (Cr), lead (Pb), or nickel (Ni) in amounts greater than or equal to 0.1% by weight, or containing manganese (Mn) in amounts greater than or equal to 1.0% by weight.</u></b>			
<input type="checkbox"/>	Dry Abrasive Blasting	<input type="checkbox"/>	Dry Machining
<input type="checkbox"/>	Spray Painting	<input type="checkbox"/>	Welding
<input type="checkbox"/>	Dry Grinding or Dry Polishing with Stationary Machines		

On the following pages, you will be asked to identify each of the processes at your facility that is subject to Subpart XXXXXX, the MFHAPs emitted from each process, and the method(s) you utilize to comply with the requirements of Subpart XXXXXX for each process.

A separate page is provided for each of the types of processes listed under question #3 above. Ignore those sheets containing processes that do not exist at your source. Duplicate pages as necessary.

**4. For each DRY ABRASIVE BLASTING operation, provide the following information:**

Blasting Process ID (description, name, or #)	HAP Emitted (Cd, Cr, Pb, Mn, Ni)	Compliance method(s) used: (check all that apply)
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Performed in total enclosure, unvented <input type="checkbox"/> Performed in vented enclosure with emission control(s) <input type="checkbox"/> Only blasting objects measuring over 8 feet, no controls <input type="checkbox"/> Management Practices

5. For each **DRY MACHINING, DRY GRINDING, or DRY POLISHING** operation, provide the formation requested below. **DO NOT** include any processes that fluids for lubrication or cooling, and **DO NOT** include any processes that are performed using portable hand tools or 'bench-top' tools.

Machining/Grinding/Polishing Process ID (description, name, or #)	HAP Emitted (Cd, Cr, Pb, Mn, Ni)	Compliance method(s) used: (check all that apply, 'machining' processes need only comply with management practices)
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
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		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____

**6. For each SPRAY PAINTING operation, provide the following information:**

Painting Process ID (description, name, or #)	HAP Emitted (Cd, Cr, Pb, Mn, Ni)	Compliance method(s) used: (check all that apply)
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices
		<input type="checkbox"/> Spray booth with PM filter & HVLP spray guns <input type="checkbox"/> HVLP spray guns only <input type="checkbox"/> Management Practices

**7. For each WELDING operation, provide the formation requested below.**

Machining/Grinding/Polishing Process ID (description, name, or #)	HAP Emitted (Cd, Cr, Pb, Mn, Ni)	Compliance method(s) used: (check all that apply, 'machining' processes need only comply with management practices)
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Fumes are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____
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		<input type="checkbox"/> Management Practices <input type="checkbox"/> Emissions are captured by emission control device(s) List Control(s): _____

**8. The following management practices, as applicable, must be utilized at sources that are subject to Subpart XXXXXX. In the table that follows, indicate which management practice(s) are used in association with the affected operations at your facility.**

**Dry Abrasive Blasting Management Practices**

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Minimize dust generation during emptying of abrasive blasting enclosure to reduce MFHAP emissions, as practicable.   |
| <input type="checkbox"/> | Operate all equipment associated with dry abrasive blasting operations according to the manufacturer's instructions.   |
| <input type="checkbox"/> | Minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable.  |
| <input type="checkbox"/> | Enclose dusty abrasive storage areas and holding bins, seal chutes and conveyors that transport abrasive materials.  |
| <input type="checkbox"/> | Do not re-use dry abrasive blasting media unless contaminants (i.e., any material other than the base metal, such as paint residue) have been removed by filtration or screening, and the abrasive material conforms to its original size. |
| <input type="checkbox"/> | When practicable, switch from high particulate matter (PM)-emitting blast media (e.g., sand) to low PM-emitting blast media (e.g., crushed glass, specular hematite, steel shot, aluminum oxide).  |

**Dry Machining / Dry Grinding / Dry Polishing Management Practices**

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable. |
| <input type="checkbox"/> | Operate equipment according to manufacturer's instructions.                             |

**Spray Painting Management Practices**

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Proper cleaning and storage of spray guns, if applicable.  |
| <input type="checkbox"/> | Training for employees using HVLP spray equipment, with certification as having completed classroom or hands-on training in the proper selection, mixing, and application of coatings, with refresher training repeated at least once every 5 years. |

**Welding Management Practices**

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Operate equipment according to manufacturer's instructions.   |
| <input type="checkbox"/> | Use welding processes with reduced fume generation capabilities, if practicable. (e.g., gas metal arc welding (GMAW)—also called metal inert gas welding (MIG))                                     |
| <input type="checkbox"/> | Use welding process variations (e.g., pulsed current GMAW), which can reduce fume generation rates, if practicable.   |
| <input type="checkbox"/> | Use welding filler metals, shielding gases, carrier gases, or other process materials which are capable of reduced welding fume generation, if practicable.   |
| <input type="checkbox"/> | Optimize welding process variables (e.g., electrode diameter, voltage, amperage, welding angle, shield gas flow rate, travel speed) to reduce the amount of welding fume generated, if practicable. |
| <input type="checkbox"/> | Use a welding fume capture and control system, operated according to the manufacturer's specifications, if practicable.   |



## **Subpart XXXXXX – Supplemental Information for Determining Applicability of the Rule to Your Facility**

In order for your facility to be considered an ‘affected source’ under this rule, your business must be classified under one of the following 15 ‘North American Industry Classification System’ codes, or NAICS codes. These NAICS codes have been cross-referenced to the 12 corresponding ‘Standard Industrial Classification’ (SIC) codes for your convenience. If your business is classified under any of the 15 NAICS codes or any of the 12 SIC codes, and is ‘primarily engaged’ in any of the 9 metal fabrication or metal finishing source categories listed on the cover page to this form, then you are subject to the requirements of Subpart XXXXXX. Sources subject to Subpart XXXXXX must complete and submit this form.

**Chart 1 – NAICS/SIC Code Applicability for Nine Metal Fabrication and Finishing Source Categories (40 CFR Part 63 Subpart XXXXXX)**

<b>EPA Source Category</b>	<b>NAICS Code</b>	<b>NAICS Description</b>	<b>SIC Code Cross-Reference</b>	<b>SIC Description</b>
Electrical & Electronic Equipment Finishing Ops	335312	Motor and Generator Manufacturing	3621	Motors and Generators Mfg.
	335999	All Other Misc. Electrical Equipment & Component Mfg.	3699	Electrical Machinery, Equipment, & Supplies, NEC
Fabricated Metal Products, NEC	332117	Powder Metallurgy Part Manufacturing	3499	Fabricated Metal Products, NEC
	332999	All Other Misc. Fabricated Metal Product Mfg.	3499	Fabricated Metal Products, NEC
Fabricated Plate Work (Boiler Shops)	332313	Plate Work Manufacturing	3443	Fabricated Plate Work and Boiler Shops
	332410	Power Boiler and Heat Exchanger Mfg.	3443	Fabricated Plate Work and Boiler Shops
	332420	Metal Tank (Heavy Gauge) Mfg.	3443	Fabricated Plate Work and Boiler Shops
Fabricated Structural Metal Manufacturing	332312	Fabricated Structural Metal Mfg.	3441	Fabricated Structural Metal Fabrication
Heating Equipment, except Electric	333414	Heating Equipment (except Warm Air Furnaces) Mfg.	3433	Heating Equipment, except Electric
Industrial Machinery & Equipment: Finishing Ops	333120	Construction Machinery Mfg.	3531	Construction Machinery Mfg.
	333132	Oil and Gas Field Machinery and Equipment Mfg.	3533	Oil and Gas Field Machinery Equipment Mfg.
	333911	Pump and Pumping Equipment Mfg.	3561	Pumps and Pumping Equipment Mfg.
Iron and Steel Forging	332111	Iron and Steel Forging	3462	Iron and Steel Forging
Primary Metals Products Manufacturing	332618	Other Fabricated Wire Product Mfg.	3399	Primary Metals Products Mfg.
Valves and Pipe Fittings, NEC	332919	Other Metal Valve and Pipe Fitting Mfg.	3494	Valves and Pipe Fittings, NEC

\* NEC = Not Elsewhere Classified

The following chart provides narrative descriptions of the types of facilities included under the affected SIC source categories listed in Chart 1 on the previous page. This chart can also be found on the EPA website at: <http://www.epa.gov/ttn/atw/area/arearules.html#metal>

**Chart 2 – SIC Code Descriptions for Nine Metal Fabrication and Finishing Source Categories (40 CFR Part 63 Subpart XXXXXX)**

EPA Source Category	SIC Code	SIC Code Description
Electrical and Electronics Equipment Finishing Operations	3621	Establishments primarily engaged in manufacturing of motors and generators (except engine starting motors) such as power generators; motor generator sets; railway motors and control equipment; and motors, generators and control equipment for gasoline, electric, and oil-electric buses and trucks.
	3699	Establishments primarily engaged in manufacturing of electrical machinery, equipment, and supplies, not elsewhere classified such as high energy particle acceleration systems and equipment, electronic simulators, appliance and extension cords, bells and chimes, insect traps, and other electrical equipment and supplies, not elsewhere classified.
Fabricated Metal Products	3499	Establishments primarily engaged in manufacturing fabricated metal products, such as fire or burglary resistive steel safes and vaults and similar fire or burglary resistive products; and collapsible tubes of thin flexible metal. Also included are establishments primarily engaged in manufacturing powder metallurgy products, metal boxes; metal ladders; metal household articles, such as ice cream freezers and ironing boards; and other fabricated metal products not elsewhere classified.
Fabricated Plate Work (Boiler Shops)	3443	Establishments primarily engaged in manufacturing power and marine boilers, pressure and non-pressure tanks, processing and storage vessels, heat exchangers, weldments and similar products
Fabricated Structural Metal Mfg.	3441	Establishments primarily engaged in fabricating iron and steel or other metal for structural purposes, such as bridges, buildings, and sections for ships, boats, and barges.
Heating Equipment, except Electric	3433	Establishments primarily engaged in manufacturing heating equipment, except electric and warm air furnaces, including gas, oil, and stoker coal fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Typical products produced in this source category include low-pressure heating (steam or hot water) boilers, fireplace inserts, domestic (steam or hot water) furnaces, domestic gas burners, gas room heaters, gas infrared heating units, combination gas-oil burners, oil or gas swimming pool heaters, heating apparatus (except electric or warm air), kerosene space heaters, gas fireplace logs, domestic and industrial oil burners, radiators (except electric), galvanized iron nonferrous metal range boilers, room heaters (except electric), coke and gas burning salamanders, liquid or gas solar energy collectors, solar heaters, space heaters (except electric), mechanical (domestic and industrial) stokers, wood and coal-burning stoves, domestic unit heaters (except electric), and wall heaters (except electric).

**Chart 2 – SIC Code Descriptions for Nine Metal Fabrication and Finishing Source Categories (40 CFR Part 63 Subpart XXXXX)**

EPA Source Category	SIC Code	SIC Code Description
Industrial Machinery and Equipment Finishing Operations	3531	Establishments primarily engaged in construction machinery manufacturing that includes establishments primarily engaged in manufacturing heavy machinery and equipment of types used primarily by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plan overhead and truck-type cranes; dredging machinery; pavers; and power shovels. Also included in this industry are establishments primarily engaged in manufacturing forestry equipment and certain specialized equipment, not elsewhere classified, similar to that used by the construction industries, such as elevating platforms, ship cranes and capstans, aerial work platforms, and automobile wrecker hoists.
	3533	Establishments primarily engaged in oil and gas field machinery manufacturing; that includes establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields or for drilling water wells, including portable drilling rigs.
	3561	Establishments primarily engaged in pumps and pumping equipment manufacturing that includes establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial, commercial, or household use, except fluid power pumps and motors. This category includes establishments primarily engaged in manufacturing domestic water and sump pumps.
Iron and Steel Forging	3462	Establishments primarily engaged in the forging manufacturing process, where purchased iron and steel metal is pressed, pounded or squeezed under great pressure into high strength parts known as forgings. The process is usually performed hot by preheating the metal to a desired temperature before it is worked. The forging process is different from the casting and foundry processes, as metal used to make forged parts is never melted and poured.
Primary Metals Products Mfg.	3399	Establishments primarily engaged in manufacturing products such as fabricated wire products (except springs) made from purchased wire. These facilities also manufacture steel balls; nonferrous metal brads and nails; nonferrous metal spikes, staples, and tacks; and other primary metals products not elsewhere classified.
Valves and Pipe Fittings	3494	Establishments primarily engaged in manufacturing metal valves and pipe fittings; flanges; unions, with the exception of purchased pipes; and other valves and pipe fittings not elsewhere classified.