§ 438.13 Effluent limitations attainable by application of the best control technology for conventional pollutants (BCT).

Except as provided at 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitation representing the application of BCT: Limitations for TSS, O&G (as HEM) and pH are the same as the corresponding limitation specified at §438.12.

§ 438.15 New source performance standards (NSPS).

New point sources subject to this subpart must achieve the new source performance standards (NSPS) for TSS, O&G (as HEM), and pH, which are the same as the corresponding limitation specified at §438.12. The performance standards apply with respect to each new point source that commences discharge after June 12, 2003.

APPENDIX A TO PART 438—TYPICAL PRODUCTS IN METAL PRODUCTS AND MACHINERY SECTORS

<table>
<thead>
<tr>
<th>AEROSPACE</th>
<th>AIRCRAFT</th>
<th>BUS &amp; TRUCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guided Missiles &amp; Space Vehicle</td>
<td>Aircraft Engines &amp; Engine Parts</td>
<td>Bus Terminal &amp; Service Facilities</td>
</tr>
<tr>
<td>Guided Missile &amp; Space Vehicle Prop</td>
<td>Aircraft Frames Manufacturing</td>
<td>Courier Services, Except by Air Freight Truck Terminals, W/ or W/O Maintenance, Intercity &amp; Rural Highways (Buslines)</td>
</tr>
<tr>
<td>Other Space Vehicle &amp; Missile Parts</td>
<td>Aircraft Parts &amp; Equipment</td>
<td>Local &amp; Suburban Transit (Bus &amp; subway)</td>
</tr>
<tr>
<td></td>
<td>Airports, Flying Fields, &amp; Services</td>
<td>Local Passenger Trans. (Lim., Amb., Sight See)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Local Trucking With Storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Local Trucking Without Storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Motor Vehicle Parts &amp; Accessories</td>
</tr>
<tr>
<td></td>
<td></td>
<td>School Buses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trucking</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Truck &amp; Bus Bodies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Truck Trailers</td>
</tr>
<tr>
<td>ELECTRONIC EQUIPMENT</td>
<td>HARDWARE</td>
<td>HOUSEHOLD EQUIPMENT</td>
</tr>
<tr>
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<td>---------------------------------------------</td>
</tr>
<tr>
<td>Communications Equipment</td>
<td>Architectural &amp; Ornamental</td>
<td>Commercial, Ind. &amp; Inst. Elec.</td>
</tr>
<tr>
<td>Connectors for Electronic Applications</td>
<td>Metal Work</td>
<td>Lighting Fixtures</td>
</tr>
<tr>
<td>Electric Lamps</td>
<td>Bolts, Nuts, Screws, Rivets &amp; Washers</td>
<td>Current-Carrying Wiring Devices</td>
</tr>
<tr>
<td>Electron Tubes</td>
<td>Crowns &amp; Closures</td>
<td>Electric Housewares &amp; Fans</td>
</tr>
<tr>
<td>Electronic Capacitors</td>
<td>Cutlery</td>
<td>Electric Lamps</td>
</tr>
<tr>
<td>Electronic Coils &amp; Transformers</td>
<td>Fabricated Metal Products</td>
<td>Farm Freezers</td>
</tr>
<tr>
<td>Electronic Components</td>
<td>Fabricated Pipe &amp; Fabricated Pipe Fittings</td>
<td>Household Appliances</td>
</tr>
<tr>
<td>Radio &amp; TV Communications Equipment</td>
<td>Fabricated Plate Work (Boiler Shops)</td>
<td>Household Cooking Equipment</td>
</tr>
<tr>
<td>Telephone &amp; Telegraph Apparatus</td>
<td>Fabricated Structural Metal Fasteners, Buttons, Needles &amp; Pins</td>
<td>Household Refriger. &amp; Home &amp; Farm Freezers</td>
</tr>
<tr>
<td></td>
<td>Fluid Power Values &amp; Hose Fittings</td>
<td>Household Laundry Equipment</td>
</tr>
<tr>
<td></td>
<td>Hand &amp; Edge Tools</td>
<td>Household Vacuum Cleaners</td>
</tr>
<tr>
<td></td>
<td>Hand Saws &amp; Saw Blades</td>
<td>Heating Equipment</td>
</tr>
<tr>
<td></td>
<td>Hardware</td>
<td>Lighting Equipment</td>
</tr>
<tr>
<td></td>
<td>Heating Equipment, Except Electric</td>
<td>Noncurrent-Carrying Wiring Devices</td>
</tr>
<tr>
<td></td>
<td>Industrial Furnaces &amp; Ovens</td>
<td>Devices</td>
</tr>
<tr>
<td></td>
<td>Iron &amp; Steel Forgings</td>
<td>Radio &amp; Television Repair</td>
</tr>
<tr>
<td></td>
<td>Machine Tool Accessories &amp; Measuring Devices</td>
<td>Shops</td>
</tr>
<tr>
<td></td>
<td>Machine Tools, Metal Cutting Types</td>
<td>Radio &amp; Television Sets Except Commn. Types</td>
</tr>
<tr>
<td></td>
<td>Machine Tools, Metal Forming Types</td>
<td>Refriger. &amp; Air Cond. Serv. &amp; Repair Shops</td>
</tr>
<tr>
<td></td>
<td>Metal Shipping Barrels, Drums, Kegs, Pails</td>
<td>Residential Electrical Lighting Fixtures</td>
</tr>
</tbody>
</table>
### INSTRUMENTS
- Analytical Instruments
- Automatic Environmental Controls
- Coating, Engraving, & Allied Services
- Dental Equipment & Supplies
- Ophthalmic Goods
- Fluid Meters & Counting Devices
- Instruments to Measure Electricity
- Laboratory Apparatus & Furniture Manufacturing Industries
- Measuring & Controlling Devices
- Optical Instruments & Lenses
- Orthopedic, Prosthetic, & Surgical Supplies
- Pens, Mechanical Pencils, & Parts
- Process Control Instruments
- Search & Navigation Equipment
- Surgical & Medical Instruments & Apparatus
- Watches, Clocks, Associated Devices & Parts

### MOBILE INDUSTRIAL EQUIPMENT
- Construction Machinery & Equipment
- Farm Machinery & Equipment
- Garden Tractors & Lawn & Garden Equipment
- Hoist, Industrial Cranes & Monorails
- Industrial Trucks, Tractors, Trailers, Tanks & Tank Components
- Mining machinery & equipment, except oil field

### MOTOR VEHICLE
- Auto Exhaust System Repair Shops
- Automobile Dealers (new & used)
- Auto. Dealers (Dunebuggy, Go-cart, Snowmobile)
- Automobile Service (includes Diag. & Insp. Cntrs.)
- Automotive Equipment
- Automotive Glass Replacement Shops
- Automotive Repairs Shops
- Automotive Stampings
- Automotive Transmission Repair Shops
- Carburetors, Pistons Rings, Values
- Electrical Equipment for Motor General Automotive Repair Shops
- Mobile Homes
- Motor Vehicle & Automotive Bodies
- Motor Vehicle Parts & Accessories
- Motorcycle Dealers
- Motorcycles
- Passenger Car Leasing
- Recreational & Utility Trailer Dealers
- Taxicabs
- Top & Body Repair & Paint Shops
- Travel Trailers & Campers Vehicles
- Vehicular Lighting Equipment
- Welding Shops (includes Automotive)

### PRECIOUS METALS & JEWELRY
- Costume Jewelry
- Jewelers’ Materials & Lapidary Work
- Jewelry, Precious Metal
- Musical Instruments
- Silverware, Plated Ware, & Stainless

### INSTRUMENTS OFFICE MACHINE
- Calculating & Accounting Equipment
- Computer Maintenance & Repair
- Computer Peripheral Equipment
- Computer Related Services
- Computer Rental & Leasing
- Computer Storage Devices
- Computer Terminals
- Electrical & Electronic Repair
- Electronic Computers
- Office Machines
- Photographic Equipment & Supplies

### ORDNANCE
- Ammunition
- Ordnance & Accessories
- Small Arms
- Small Arms Ammunition
### RAILROAD
- Line-Haul Railroads
- Railcars, Railway Systems
- Switching & Terminal Stations

### SHIPS & BOATS
- Boat Building & Repairing
- Deep Sea Domestic Transportation of Freight
- Deep Sea Passenger Transportation, Except by Ferry
- Freight Transportation on the Great Lakes Marinas
- Ship Building & Repairing
- Towing & Tugboat Service
- Water Passenger Transportation Ferries
- Water Transportation of Freight
- Water Transportation Services

### STATIONARY INDUSTRIAL EQUIPMENT
- Air & Gas Compressors
- Automatic Vending Machines
- Ball & Roller Bearings
- Blowers & Exhaust & Ventilation Fans
- Commercial Laundry Equipment
- Conveyors & Conveying Equipment
- Electric Industrial Apparatus
- Elevators & Moving Stairways Equipment Rental & Leasing
- Food Product Machinery
- Fluid Power Cylinders & Actuators
- Fluid Power Pumps & Motors
- General Industrial Machinery
- Heavy Construction Equipment Rental
- Industrial Machinery
- Industrial Patterns
- Industrial Process Furnaces & Ovens
- Internal Combustion Engines
- Measuring & Dispensing Pumps
- Mechanical Power Transmission Equipment
- Metal Working Machinery
- Motors & Generators
- Oil Field Machinery & Equipment
- Packaging Machinery
- Paper Industries Machinery
- Printing Trades Machinery & Equipment
- Pumps & Pumping Equipment
- Refrigeration & Air & Heating Equipment
- Relays & Industrial Controls
- Rolling Mill Machinery & Equipment
- Scales & Balances, Except Laboratory
- Service Industry Machines
- Special Industry Machinery
- Speed Changers, High Speed Drivers & Gears
- Steam, Gas, Hydraulic Turbines, Generator Units
- Switchgear & Switchboard Apparatus
- Textile Machinery
- Transformers
- Welding Apparatus
- Woodworking Machinery
APPENDIX B TO PART 438—OILY OPERATIONS DEFINITIONS

NOTE: The definitions in this appendix shall not be used to differentiate between the six “core” metal finishing operations (i.e., Electroplating, Electroless Plating, Anodizing, Coating (chromating, phosphating, and coloring), Chemical Etching and Milling, and Printed Circuit Board Manufacture) and forty “ancillary” process operations listed at 40 CFR 433.10(a).

Abrasive Blasting involves removing surface film from a part by using abrasive directed at high velocity against the part. Abrasive blasting includes bead, grit, shot, and sand blasting, and may be performed either dry or with water. The primary applications of wet abrasive blasting include: Removing burrs on precision parts; producing satin or matte finishes; removing fine tool marks; and removing light mill scale, surface oxide, or welding scale. Wet blasting can be used to finish fragile items such as electronic components. Also, some aluminum parts are wet blasted to achieve a fine-grained matte finish for decorative purposes. In abrasive blasting, the water and abrasive typically are reused until the particle size diminishes due to impacting and fracture.

Adhesive Bonding involves joining parts using an adhesive material. Typically, an organic bonding compound is used as the adhesive. This operation usually is dry; however, aqueous solutions may be used as bonding agents or to contain residual organic bonding materials.

Alkaline Cleaning for Oil Removal is a general term for the application of an alkaline cleaning agent to a metal part to remove oil and grease during the manufacture, maintenance, or rebuilding of a metal product. This unit operation does not include washing of the finished products after routine use (as defined in “Washing (Finished Products)” in this appendix), or applying an alkaline cleaning agent to remove nonoily contaminants such as dirt and scale (as defined in “Alkaline Treatment Without Cyanide” in this appendix and “Alkaline Treatment With Cyanide” in appendix C of this part). Wastewater generated includes spent cleaning solutions and rinse waters.

Calibration is performed to provide reference points for the use of a product. This unit operation typically is dry, although water may be used in some cases (e.g., pumping water for calibration of a pump). Water