National Emission Standards for Hazardous Air Pollutants (NESHAP):

EPA's Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources Rule (40 CFR Part 63, Subpart HHHHHHH)

Deborah Craig, EPA Region 2 (NY, NJ, PR & VI) craig.deborah@epa.gov 212.637.3521 http://www.epa.gov/region2/auto

EPA National Collision Repair Web Site: http://www.epa.gov/collisionrepair

Presentation will cover:

- Background: Why did EPA create this rule?
- Enforcement of rule
- Compliance Incentives & Auditing
- Area Source Rule Implementation Guidance
- Regulated sources
- Exempted sources
- Sources not Applicable to Rule by Definition
- Opportunity to apply for exemption from rule
- Compliance dates for new and existing sources
- Compliance requirements
- Submittal of Initial Notification, Notification of Compliance and, if applicable, Notification of Annual Changes
- Recordkeeping
- Summary Table of Key Dates
- Contact/Resources

Background: Why did EPA Create this Rule?

- National Emission Standard for Hazardous Air Pollutants (NESHAP): Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources
- Published January 9, 2008 amended on February 13, 2008
- Found in the Code of Federal Regulations (CFR) at 40 CFR Part 63 Subpart HHHHHH
- Copy of rule, guidance documents and forms available at: http://www.epa.gov/collisionrepair

Background Cont'd

Under the Clean Air Act, EPA has identified 70 small industrial "area sources" that emit most of the hazardous air pollutants known as "HAPs" or air toxics in urban areas.

 An area source has the potential to emit less than 10 tons per year of any single HAP and less than 25 tons per year of any combination of HAPs

Background Cont'd

- Many coatings used in motor vehicle and mobile equipment refinishing contain HAPs: Chromium, Lead, Cadmium, Manganese and Nickel compounds ("target HAPs" under the rule)
- The Clean Air Act requires EPA to reduce exposure to HAPs because these chemicals are known, or suspected, to cause cancer, respiratory problems, eye and skin irritations, and other serious health effects.

Enforcement of Rule

- EPA is the lead agency responsible for enforcing the Federal rule unless the state, local or tribal authority is delegated (hereinafter referred to as delegated State)
- List of delegated States for this rule
 (contains EPA/State addresses for mailing notification forms, etc.):
 http://www.epa.gov/collisionrepair/pdfs/statedelegations.pdf

Enforcement of Rule

- Move forward to comply even if compliance date has passed!
- Section 113(b) of Clean Air Act, 42 USC 7143(b), provides EPA with authority to commence a civil action to recover penalties up to \$37,500 per day per violation
- EPA web site for reporting suspected violations of a Federal environmental regulation:
- http://www.epa.gov/compliance/complaint s/index html

Compliance Incentives & Auditing

- Small Business Compliance Policy (100 or fewer employees)
- EPA may eliminate or significantly reduce penalties for small businesses that voluntarily discover violations of environmental law & promptly disclose & correct them
- Policy Q & A and Regional contacts:
 http://www.epa.gov/compliance/incentives/
 smallbusiness/index.html

Compliance Incentives & Auditing

- Audit Policy Businesses with more than 100 employees
- May be eligible for penalty reductions for voluntary discovery disclosure & correction of environmental violations
- Policy Q & A& EPA Regional contacts:
 http://www.epa.gov/compliance/incentives/
 auditing/auditpolicy.html

Area Source Rule Implementation Guidance

- EPA June 4, 2010 "Area Source Rule Implementation Guidance"
- 6H is a "Group 2" rule EPA recommends Regions/delegated States focus primarily on compliance assistance (workshops, Internet - based tools, compliance guides, etc.) where such assistance may be effective in achieving greater compliance and when resources allow

Area Source Rule Implementation Guidance

- Given the nature (small business), impact and significant size of "Group Two" facilities, EPA considers compliance assistance to be the most effective tool
- EPA retains discretion to adopt approaches on case-by-case basis that differ from those described in guidance
- See pages 1, 3, 10 & 11 of guidance:
 http://www.epa.gov/compliance/resources/
 policies/monitoring/caa/areasource.pdf

Regulated Sources

- 40 CFR § 63.11170 and definitions under 63.11180
- Paint stripping using any amount of Methylene Chloride (also known as Dichloromethane).
- Spray-apply surface coating using a hand held device such as HVLP gun to create atomized mist of coating onto assembled:
 - motor vehicles: cars, light duty trucks, golf carts, vans and motorcycles
 - mobile equipment: heavy duty trucks, truck trailers, fleet delivery trucks, buses, mobile cranes, bulldozers, street cleaner, agricultural equipment, motor homes and other recreational vehicles
 - includes fixed locations at shops and mobile refinishing operations
 - -includes individuals that coat **more than** two motor vehicles or pieces of mobile equipment per year regardless of whether payment is received

Regulated Sources

40 CFR § 63.11170 and definitions under 63.11180

- "Miscellaneous" spray-apply surface coating use a hand held device such as HVLP gun to create atomized mist of coating onto:
 - any metal or plastic or combination of metal and plastic parts or products (i.e., not motor vehicles or mobile equipment)
 - if coatings contain target HAPs: compounds of Chromium, Lead, Manganese, Nickel or Cadmium
 - if no target HAPs, not subject to 6H rule for surface coating requirements. If Methylene Chloride (also known as Dichloromethane) is used for paint stripping (any amount), must comply with paint stripping requirements under 6H rule.

Exempted Sources

40 CFR § 63.11169(d)(3)

Surface coating or paint stripping operations:

Performed by individuals on personal vehicles, possessions, or property as a hobby or for maintenance, or done by individuals for others without compensation are exempted. "Hobby exemption"

-However, if you spray-apply coatings to **more than** two motor vehicles or pieces of mobile equipment per year, **you are subject to rule regardless of** whether compensation is received

Exempted Sources Cont'd

40 CFR § § 63.11169 (d) and 63.11170(a)(2)

Surface coating or paint stripping:

- Facility Maintenance
- Research and laboratory activities
- Quality control activities
- Certain military activities
- Activities covered under any other area source NESHAP

Sources Not Applicable to Rule by Definition

(Definition of spray applied coating operations does not cover these materials/activities, see 40 CFR § 63.11180)

Spray-applied applications:

- using hand-held device with a paint cup capacity of
 3.0 fluid ounces (89 cc) or less
- powder coating
- hand-held, non-refillable aerosol containers
- non-atomizing technology
 - brushes, rollers, hand wiping
 - coating techniques flow, dip, electrodeposition, web, coil
 - touch up markers or marking pens
- thermal spray operations using solid metallic or nonmetallic materials

Sources Not Applicable to Rule by Definition

Coating Definition - 40 CFR § 63.11180

- affected coatings do not include:
 - decorative, protective, or functional materials that consist only of protective oils for metal, acids, bases, or any combination
 - paper film or plastic film that may be pre-coated with adhesive
 - adhesives, sealants, maskants, or caulking materials
 - temporary protective coatings, lubricants, or surface preparation materials
 - in-mold coatings that are spray-applied in the manufacture of reinforced plastic composite parts

Opportunity to Apply for Exemption

40 CFR § 63.11170(a)(2))

- Owner or operator of motor vehicle or mobile equipment surface coating operation may request from EPA Regional Office or the delegated State an exemption from the rule. See "EPA Petition for Exemption" form at: http://www.epa.gov/rcollisionrepair
- Exemption not automatic, request must be approved by EPA. No exemption available for businesses that use Methylene Chloride (any amount) for paint stripping.
- Owner or operator must certify that they do not spray apply any coatings that contain compounds of the target HAPs -coatings containing compounds of Hexavalent Chromium (Cr+6), Lead (Pb), Nickel (Ni) and Cadmium (Cd) that are carcinogens and are present at more than 0.1% of the coating by mass are target HAP containing coatings

-coatings containing compounds of Trivalent Chromium (Cr+3) or Manganese (Mn) that are <u>not carcinogens</u> and are present at more than 1.0% of the coating by mass are also target HAP containing coatings

Opportunity to Apply for Exemption Cont'd

- Petition by the owner or operator must also include a description of the coatings that are spray applied (e.g., specify manufacturer and product line).
- Refer to coating Material safety data sheets (MSDSs) or obtain documentation from supplier. MSDSs are not required to be submitted with petition.
- If exemption is approved by EPA or delegated State, all other Federal, State and local requirements still apply (including OSHA)
- Consider switching to alternative coatings w/out target metal HAPs.

When Are New and Existing Sources Required to Be In Compliance With Rule?

40 CFR § 63.11172

- New source is a source that commenced construction after September 17, 2007 by installing new paint stripping or miscellaneous surface coating equipment and it had no paint stripping or miscellaneous surface coating activity prior to that date.
- Existing source is a source that conducted paint stripping and/or miscellaneous surface coating operations on or before September 17, 2007.
- Purchase and installation of new equipment (e.g., spray booth, HVLP guns, etc.) in order to comply with rule will not make it a new source

When Are New and Existing Sources Required to Be In Compliance With Rule Cont'd?

40 CFR § 63.11172

- New source must comply by January 9, 20 if initial start-up of operations was after this date, then comply by initial start-up date.
- Existing sources must comply by January 10, 2011
- See following requirements for paint stripping and surface coating operations

Requirements for Paint Stripping

(40 CFR § 63.11173 (a)(1)-(5))

- Minimize emissions of Methylene Chloride using the following management practices
 - Evaluate each application for need to remove paint (e.g. can part be re-coated)
 - Evaluate each application for alternative to Methylene Chloride
 - Reduce exposure of Methylene Chloride strippers to air
 - Optimize conditions when using Methylene Chloride to reduce evaporation (e.g., if heating, use lowest possible temperature)
 - Use proper storage and disposal techniques (e.g., store stripper in closed, airtight containers)

Requirements for Paint Stripping Cont'd

(40 CFR § 63.11173 (b) – (d))

- If operation uses more than one ton of Methylene Chloride in a year
 - Develop and implement a written Methylene Chloride minimization plan
 - Post the plan in areas where activity occurs
- If operation uses one ton of Methylene Chloride or less
 - No written plan is required, but must comply with minimization management practices

Requirements for Surface Coating Cont'd (40 CFR § 63.11173 (e)(2)(i))

- Spray-applied coatings must be applied in spray booth, preparation station, or mobile enclosure that is:
 - Fitted with filter system demonstrated to have at least 98% collection efficiency of capturing paint overspray.
 - Keep record of manufacturer data for 98% or better filter efficiency (American Society of Heating, Refrigerating and Air-Conditioning Engineers "ASHRAE" Method 52.1)
 - Filter requirement does not apply to waterwash spray booths operated and maintained to manufacturer's specs

(40 CFR § 63.11173 (e)(2)(ii))

- Spray booths and prep stations used to refinish complete motor vehicles or mobile equipment must:
 - Be fully enclosed with a full roof and four complete walls or complete side curtains, and ventilated at negative pressure so that air is drawn into any openings in the booth walls or prep station curtains; OR
 - Spray booth must be fully enclosed with seals on all openings and have an automatic pressure balancing system operated at < 0.05 inches water gauge positive pressure

(40 CFR § 63.11173 (e)(2)(iii))

- Spray booths and prep stations used to coat miscellaneous parts or products or vehicle subassemblies must:
 - Have full roof, at least 3 complete walls or side curtains, and ventilated so air is drawn into the booth
 - Roof and walls may have openings for conveyors and parts to enter booth during coating process

(40 CFR § 63.11173 (e)(2)(iv))

- Mobile ventilated enclosures for spot repairs must:
 - Enclose and seal against the surface around the area being coated
 - Retain paint overspray within the enclosure and direct it to a filter with at least 98% collection efficiency to capture paint overspray

(40 CFR § 63.11173 (e)(3))

- Spray-applied coatings must be applied with one of the following gun technologies:
 - High volume, low pressure (HVLP)
 - Electrostatic
 - Airless
 - Air-assisted airless
 - With written approval from EPA, other spray technology demonstrated by gun manufacturer to achieve equivalent transfer efficiency (California South Coast Air Quality Management District's Test Procedure). Confirm if State approval is needed also.

Requirements for Surface Coating Cont'd (40 CFR § 63.11173 (e)(3))

Send HVLP equivalency determination request for approval of to:

Kim Teal

USEPA

109 T. W. Alexander Drive

Mail Code: E143-03

Research Triangle Park, NC 27709

teal.kim@epa.gov (919) 541-5580

(40 CFR § 63.11173 (e)(3))

- Listed spray technologies are not required if:
 - Painting is performed by students and instructors at paint training centers
 - Coating certain aerospace vehicle coating applications

(40 CFR § 63.11173 (e)(4))

- Spray gun cleaning must prevent atomized (sprayed) mist of cleaning solvent and paint residue directly into the air outside the container used to collect waste solvent
 - Acceptable options include:
 - Hand cleaning of parts of disassembled gun
 - Flush gun with solvent, without atomizing (i.e., spraying) the solvent & paint residue
 - Combination of non-atomizing methods
 - Use fully enclosed spray gun cleaner

Painter Training Requirements for Surface Coating (40 CFR § 63.11173 (g))

- Train all painters, including contractors, who spray apply coatings.
 Except students of accredited surface coating training program who are under the direct supervision of an instructor who is certified
- See "EPA Painter Training Certification Form": http://www.epa.gov/collisionrepair
- Initial training
 - New sources must train workers by July 7, 2008 or 180 days after hire, whichever is later.
 - Existing sources must train new workers 180 days after hire or by January 10, 2011
 - New and existing sources can use training completed up to five years prior to date training is required (see above dates). Painter work experience or combo of experience and training can be used.
- Refresher training
 - Once every five years painter work experience may not be used

Painter Training Requirements for Surface Coating Cont'd (40 CFR § 63.11173(f))(1)-(3))

- Training program must include:
 - List of names and job description of painters requiring training
 - Description of owner/operator methods to demonstrate, document and certify successful completion of training (Training certificate alone is not sufficient.)
 - Hands on and classroom instruction covering initial and refresher training program topics

Painter Training Requirements for Surface Coating Cont'd

(40 CFR § 63.11173 (f)(2)(i)-(iv))

- Hands on and classroom instruction including:
 - Spray gun equipment selection, set up, and operation, including measuring coating viscosity, selecting the proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate
 - Spray techniques for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke.
 - Routine booth and filter maintenance, filter selection and installation
 - Compliance with environmental requirements of the rule (e.g., classroom training using this presentation)

Initial Notification

40 CFR \S 63.11175(a)(1) – (8)

Initial Notification

- New sources due 180 days after start up, or July 7, 2008, whichever is later. Must include compliance certification with initial notification.
- Existing sources due by January 11, 2010. May include Notice of Compliance Status certification with Initial Notification or submit later.
- "EPA Initial Notification Form" (includes Notice of Compliance Status certification on same form) is available at:

http://www.epa.gov/collisionrepair

Notification of Compliance Status 40 CFR § 63.11175

- Notification of Compliance Status
 - Existing sources not able to certify compliance in the Initial Notification under 40 CFR 63.11175(a) (8) must submit the Notification of Compliance Status under 40 CFR § 63.11175(b) by March 11, 2011
 - Include same contact information as Initial Notification
 - Certify compliance with all relevant requirements, see "EPA Notification of Compliance Status Form:"
 http://www.epa.gov/collisionrepair
 - Paint stripping sources using more than one ton of Methylene Chloride in a year must certify they have written and are implementing their minimization plan

Annual Notification of Changes

40 CFR § 63.11176 (a)

- Annual Notification of Changes Report
 - Sources must submit report each year prior to March 1st if any previously reported information changed during the previous year
 - Deviations from requirements are considered changes
 - Send letter, no EPA Example Form

Where to Send Notifications

- Send Initial Notifications, Notifications of Compliance Status, Notifications of Annual Changes and any voluntary Petitions for Exemption to rule to EPA or delegated State
- EPA Forms: http://www.epa.gov/collisionrepair
- EPA Region 2 and State mailing addresses for forms:
 <a href="http://www.epa.gov/collisionrepair/pdfs/statedelegations.gov/collisionrepair/pdfs/statedelegationrepair/pdfs/st

Recordkeeping

(40 CFR § 63.11177 (a) – (h))

- Paint stripping
 - Records of paint strippers containing Methylene
 Chloride, including the Methylene Chloride content sufficient to verify annual usage
 - Copy of minimization plan kept on site, only if Methylene Chloride usage is over 1 ton
 - including annual review and updates to plan
 - Records of any deviations (failures to meet a requirement in the rule), including date and time period it occurred, a description of deviation, and corrective actions taken
 - Records of any assessments of compliance performed in support of Initial Notification, Notification of Compliance Status or Annual Notification of Changes Report

Recordkeeping

(40 CFR § 63.11177 (a) - (h))

Surface coating

- Initial/refresher training documentation and certification by owner or operator for each painter.
- Manufacturer's documentation of 98% or better filter efficiency
- If spray gun does not meet definition of acceptable technologies, documentation from spray gun manufacturer that EPA has determined equivalent transfer efficiency to HVLP gun
- Copies of Initial Notification, Notification of Compliance Status, and if applicable, Annual Notice of Changes Report.

Recordkeeping

(40 CFR § 63.11177 (a) - (h))

- Surface coating cont'd:
 - Records of any deviations from requirements in the rule, including date and time period it occurred, a description of deviation, and corrective actions taken
 - Records of any compliance assessments performed in support of the Initial Notification, Notification of Compliance Status or Annual Notification of Changes Report

How Long Must Records Be Kept?

(40 CFR § 63.11178)

- Maintain records for 5 years after date of each record
- Copies must be kept on-site in print or electronic form for first 2 years
- Copies may be kept off-site after the first 2 years

Summary of Key Dates

Requirement	Existing Source – Initial start-up of operation on or before Sept. 17, 2007	New Source - Initial start-up of operation after Sept. 17, 2007
Initial Notification (see form) Submit & keep record	January 11, 2010	July 7, 2008 or 180 days after initial startup (whichever is later)
Painter Training/owner certification (see form) Keep record (don't submit)	January 10, 2011 or 180 days after hiring (whichever is later) plus refresher every 5 years	July 7, 2008 or 180 days after hiring (whichever is later)
booth, prep station, mobile enclosure, spray gun, gun cleaning & filter. Keep record (don't submit) of 98% filter &, if applicable, EPA approval of "compliant non-HVLP gun" from manufacturer	January 10, 2011	January 9, 2008 or date of initial startup thereafter
Notification of Compliance Status (compliance certification). See form. Submit & keep record	March 11, 2011	July 7, 2008 or 180 days after start up (whichever is later)

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Requirement	Existing Source — Initial start-up of operation on or before Sept. 17, 2007	New Source - Initial start-up of operation after Sept. 17, 2007		
Annual Notification of Changes – send only if there were changes & non-compliance. No form, send letter. Submit & keep record	March 1 of every year for prior calendar year	March 1 of every year		
Deviations from rule (record date, time & description of deviation) and corrective actions taken. No form. Keep record (don't submit)	January 10, 2011	January 9, 2008 or date of initial startup thereafter		
Assessments of compliance to support Initial Notification, Notification of Compliance Status & Annual Notification of Changes Report. No form. Keep record (don't submit)	January 10, 2011	January 9, 2008 or date of initial startup thereafter		

Summary of Key Dates

Requirement	Existing Source – Initial start-up of operation on or before Sept. 17, 2007	New Source - Initial start-up of operation after Sept. 17, 2007
Keep record (don't submit) of paint strippers containing Methylene Chloride, including Methylene Chloride content sufficient to verify annual usage. No form.	January 10, 2011	January 9, 2008 or date of initial startup thereafter

Additional Resources

EPA HQs Collision Repair - DVD/poster (see next slide)

http://www.epa.gov/collisionrepair

Download forms, guidance and rule for other EPA Regions across the U.S. Scroll down the web page to "Auto Body Rule." See also "State Delegations" link for EPA/State mailing addresses for forms.

EPA HQs Design for Environment

http://www.epa.gov/dfe/pubs/projects/auto

Download fact sheets on benefits of waterborne basecoats and vacuum sanders plus a checklist that covers voluntary best practices along with some EPA and OSHA requirements.

Order Free Copy of EPA DVD and Poster Featuring Jeff Gordon

- Copy of EPA's Collision Repair Campaign Training DVD -Spanish and English on same DVD. Includes some information on rule and interviews with shop personnel. Not required viewing, 19 minutes (#456V09001)
- Copy of Collision Repair Campaign Poster (#456H09001)
- National Service Center for Environmental Publications (NSCEP), NSCEP Toll Free Number: 1-800-490-9198
- Online Ordering: http://www.epa.gov/ncepi/

Additional Resources Cont'd

*List of EPA Regional and Delegated State contacts (handout)

Small Business Contacts: http://www.smallbiz-enviroweb.org/

EPA/State contacts in EPA Region 2:

Deborah Craig EPA Region 2 (NY, NJ, PR and VI) 212.637.3521

craig.deborah@epa.gov
http://www.epa.gov/region2/auto

Ky Asral 609.777.0319 or Ed Bakos 609.292.0958

NJ Department of
Environmental Protection
Small Business Assistance Program
ky.asral@dep.state.nj.us or edward.bakos@dep.state.nj.us
http://www.nj.gov/dep/egge/sbap/index.html

NY Small Business Assistance Program
Environmental Facilities Corporation
1-800-780-7227
http://www.nysefc.org/home/index.asp?page=855

Additional Resources Cont'd

Nancy Garcia
Small Business Assistance Program
Puerto Rico Environmental Quality Board
787.767.8181 x 3275
nancygarcia@jca.gobierno.pr

Marylyn Stapleton
Ombudsman/Small Business Environmental
Assistance Program Coordinator
Virgin Islands Department Planning & Natural Resources
340.714.9529
marylyn.stapleton@dpnr.gov.vi

Additional Resources Cont'd

For Pennsylvania businesses attending EPA Region 2 workshops, here's the EPA Region 3 contact information:

 EPA Region 3 (Pennsylvania, Delaware, District of Columbia, Maryland, Virginia and West Virginia) contact: Cathleen Kennedy 215.814.2746

kennedy.cathleen@epa.gov

- Download Notification and Petition for Exemption Forms from EPA HQs Collision Repair web site: http://www.epa.gov/collisionrepair
- See instructions for mailing of forms on EPA Region 3's web site:

www.epa.gov/reg3artd/airquality/autobody.html