# EPA's Final Rulemaking for Nonroad SI Engines and Equipment

October 23, 2008

www.epa.gov/otaq/equip-ld.htm

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### **Basic Provisions of the FRM**

- Final Rule signed September 4; published October 8
- Exhaust Emission Standards (1st, 2nd, or 3rd round)
  - Small Spark-Ignition Nonroad Engines ≤19 kW ("Small SI")
    - Nonhandheld Engines only
    - Handheld engines just completed transition to Phase 2 standards
  - Marine Spark-Ignition Engines ("Marine SI")
- Evaporative Emission Standards to address venting and permeation emissions (first-time)
  - Small SI
    - Handheld and nonhandheld equipment
  - Marine SI

# Small SI—Nonhandheld (NHH) Class I Walk-behind mower generator pressure washer Sales: 10 million/year+ Sales: 4 million/year+





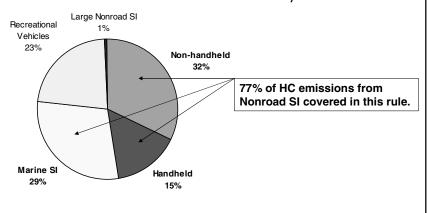
### **Congressional Origins**

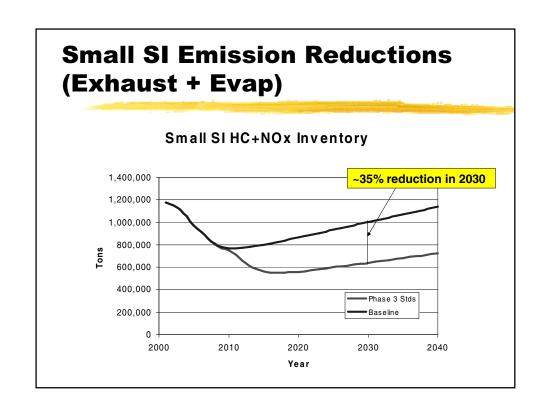
- Section 428 of the Omnibus Appropriations Bill for 2004 required EPA to propose regulations under CAA §213 for new nonroad spark-ignition (SI) engines below 50 hp
  - Proposal by December 2004
  - Final Rule by December 2005
- In August 2005 Congress added a requirement to assess potential safety issues <u>before</u> proposing emission standards for these engines (Section 205 of PL 109-54)
  - In March 2006 we released our "Safety Study," in which we found that emission controls could be safely applied to Small SI engines and equipment

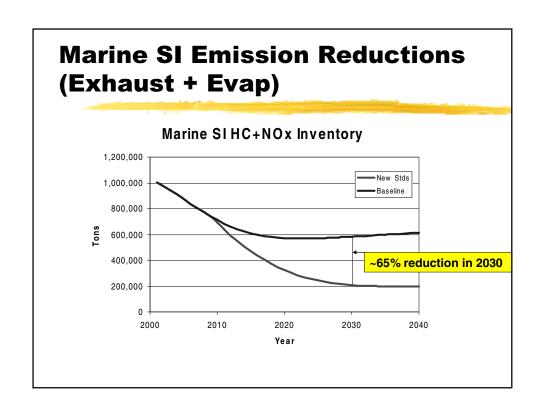
**Emission Reductions, Cost Effectiveness and Benefits** 

### **Inventory**

- Mobile Source HC emissions projected to be ~4 million tons (in 2030)
  - Nonroad SI is 43% of Mobile Source HC inventory







### **Overall Emission Reductions**

Small SI/Marine SI Exhaust+Evap Emission Benefits – tons					
Year	Category	Total VOC	NOx	Direct PM <sub>2.5</sub>	
	Small SI	241,000	65,000	820	
2020	Marine SI	218,000	30,000	3,300	
	All	458,000	95,000	4,100	
	Small SI	285,000	77,000	960	
2030	Marine SI	320,000	55,000	4,600	
	All	604,000	132,000	5,600	

# Total Ozone and PM<sub>2.5</sub> Benefits – Combined Small SI/Marine SI Engines

Year	2020	2030
Ozone-related benefits	\$40 million - \$1.6 billion	\$65 million - \$2.7 billion
PM-related benefits – 3% Discount Rate (7% DR) <sup>1</sup>	\$1.1 billion (\$1.0 billion)	\$1.7 billion (\$1.6 billion)
Total benefits of the Small SI/Marine SI program – 3% DR (7% DR)	\$1.2 billion - \$2.7 billion (\$1.1 billion - \$2.6 billion)	\$1.8 billion - \$4.4 billion (\$1.6 billion - \$4.3 billion)
Estimated cost of the Small SI/Marine SI program (including fuel savings)	\$210 million	\$190 million
Ratio of total benefits to social costs for the Small SI/Marine SI – 3% DR (7% DR)	6:1 to 13:1 (5:1 to 12:1)	9:1 to 23:1 (8:1 to 23:1)

Note: 2005 dollars; totals may not sum due to rounding.

¹ PM benefits based on the ACS-derived estimate of premature mortality (Pope et al., 2002). The discount rate is used in the calculation of annual PM benefits to discount the value of a statistical life over the assumed 20-year segmented lag and to discount the cost-of-illness of nonfatal heart attacks over a 5-year period after the incident.

### **Marine SI Exhaust Standards**

### **Marine SI Exhaust Standards**

### Outboard and Personal Watercraft (OB/PWC)

- Second round of EPA standards for OB/PWC engines
  - Consistent with California ARB standards for 2008
- HC+NOx standard based on power of engine, starting in 2010
  - 65% HC+NOx reduction from EPA's current standards
    - | Eliminate "dirty" carbureted 2-strokes
    - Increased use of 4-stroke and Direct Injection 2-stroke engines
  - Added CO standard to cap emission levels

### **Marine SI Exhaust Standards**

### Sterndrive and Inboard Engines (SD/I)

- First EPA standards for SD/I engines
- HC+NOx and CO standards in 2010 for engines <373kW</p>
  - 5 g/kW-hr for HC+NOx (70% reduction) and 75 g/kW-hr for CO (50% reduction)
  - Consistent with California ARB's 2007/2008 standards
  - Catalyst-based standards
- Separate standards for high-performance SD/I engines:
  - Based on increased use of fuel injection

Power Category	Start Year	HC+NOx, g/kW-hr	CO, g/kW-hr
<485 kW	2010	20.0	350
	2011	16.0	350
>485 kW	2010	25.0	350
	2011	22.0	350

### Small SI Emission Standards and Other Rule Changes

### **Phase 3 Exhaust Standards**

Exhaust Emissions	HC+NOx g/kW-hr	Start Year	Estimated % Reduction	Comments		
Class I	10.0	2012	38%	- No change in CO standards, except for marine generators, which have a		
Class II	8.0	2011	34%	5 g/kW-hr standard.		
Classes III-V No changes in exhaust emission standards						

- Consistent with California ARB's Tier 3 standards for 2007/2008
- Catalysts and general engine improvements expected for Class I engines
- A mix of technologies expected for Class II engines general engine improvements, fuel injection, and catalysts.

### **Altitude**

- NHH exhaust standards apply up to about 7000 ft. above sea level (80 kPa) (§1054.115(c))
  - Engines must comply in standard configuration up to 2000 ft. (94 kPa)
- Manufacturer may specify kit installation for operation above 2000 ft. (§1054.205(r))
  - Cert application includes kit description, installation instructions/specifications, description of compliance
  - Manufacturer must make parts and information for kit installation "widely available" in high-altitude areas
- Similar approach for HH engines, except that standards apply up to about 1100 ft. (96 kPa) for now (§1054.145(c))

### **Bonding**

- New bonding requirement covers any possible compliance action—recall, penalties, warranty failure, etc. (§90.1007, §1054.690)
  - Requirements apply equally to foreign and domestic companies
- Engine manufacturers must post bond starting in 2010 if they don't have fixed assets in the United States
  - \$3 million for long-term certificate holders (10+ years)
  - \$6 million for secondary engine manufacturers
  - \$10 million for other companies
- Fixed assets include <u>equity</u> in buildings, land, and fixed equipment (minus depreciation)
- Manufacturer describes in cert application whether bond requirement applies; bond must be in place when engines are sold in U.S.
- Minimum bond value is \$500,000
  - Higher value applies for high sales volumes (e.g., more than 20,000 HH and Class I engines)
- If importer is not the certificate-holder, either company may meet bond requirements (or qualify for exemption)

### **Warranty assurance**

- Regulations specify steps to ensure validity of warranty, starting with 2010 model year (§90.1103, §1054.120(f))
  - I toll-free phone number and e-mail address for consumer information
  - At least one source of replacement parts in the U.S. (including distributors)
  - Use one of three approaches related to repair network
    - Authorized service centers in all U.S. population centers over 100,000
    - Authorized service centers for owners within 100 miles (excluding Rocky Mountain states), or, for others, either—
      - (1) free shipping, (2) free service call, or (3) reimbursement for service at local repair shop
    - Compliance may be based on a mix of these two approaches by state
- Bond requirement applies for limited repair networks
  - I "Adequate" repair network to avoid bonding includes at least 100 repair facilities, or at least one for each 5000 engines sold in U.S.
  - Bond process and amounts are the same as for certification
  - One bond covers both certification and warranty

### **Engine certification and compliance**

- Useful life (§1054.107)
  - Preserving options for selecting useful life values
  - Adding requirement to identify useful life (hours) on labels
  - Including EPA oversight provision to ensure proper selections
- Emission credits for Phase 3 (§1054.740)
  - May use some emission credits generated with Phase 2 standards in initial years of Phase 3 standards
  - I HH and NHH emission credits no longer exchangeable
- Competition engines (§1054.620)
  - New rule includes several provisions to clarify which engines qualify for an exemption based on their use as competition engines
- Fuel conversions (§90.1003, §1054.645)
  - Starting in 2010, engines converted to run on a different fuel must be certified to meet emission standards

### **Engine testing**

- Ethanol-based test fuel (§1054.501)
  - HH: Manufacturers may test with E10; EPA may then test with E10 or gasoline
  - NHH: Manufacturers may test with E10; EPA will also test with E10 (unless manufacturer still uses some E0—straight gasoline—after 2012/2013)
- Governor—NHH (§1054.505)
  - Engine operates governed below full-load point
  - Governor setting may be adjusted to target constant nominal speed (or may not)
  - Testing may include ramped-modal cycle for streamlined test run
- Target test speed—HH (§1054.505)
  - Testing occurs at application-specific speed, or speed at max power point, or both (±350 rpm)
- 40 CFR Part 1065
  - Migrating test procedures to common/universal specifications
  - Category-specific requirements specified in §1054.501-520
  - I New tests must conform to part 1065 starting in 2013; continued carryover certification with part 90 procedures is ok

# **Engine-related small-business provisions**

- Small business definition (§1054.801)
  - Annual U.S. sales of handheld engine < 25,000</p>
  - Annual U.S. sales of nonhandheld engine < 10,000
  - Or manufacturers with fewer than 1000 employees, with EPA approval
- Some provisions based on Phase 2 regulations:
  - Assigned deterioration factor (§1054.145(c) and §1054.240(c))
  - Waived production-line testing (§1054.301(a))
  - Both of these provisions also apply in certain cases for a bigger company's small-volume engine families (production ≤ 5000 units)
- Some new provisions for Phase 3:
  - Two additional years to meet Phase 3 standards (§1054.145(a))
  - Broader engine families (§1054.230(d))
  - Hardship provisions accommodate special needs (§1068.245 and §1068.250)

### **Delegated Assembly**

- Regulation *generally* requires engine manufacturer to ship engines in complete, certified configuration (§1068.101(a))
- "Delegated assembly" provisions allow NHH equipment manufacturers to get their own catalyzed mufflers (§1054.610; §1068.261)
  - Engine manufacturer must include separately sourced parts in cert application and take steps to ensure proper installation:
    - Contractual agreement, installation instructions, audits, labeling, initial confirmation that parts have been ordered
  - Equipment manufacturers prepare annual affidavit showing orders for sufficient catalyzed mufflers relative to engine volumes
  - Provisions apply equally for air filters if engine manufacturer depends on specific design (not just pressure spec)
  - Distributors may further delegate assembly to equipment manufacturers through 2014; after that distributors may not sell incomplete engines

## Equipment manufacturer recertification

- An additional option is available if equipment manufacturer can't use engine manufacturer's muffler design
- NHH equipment manufacturers may go through simplified certification with their own muffler design, subject to conditions (§1054.612)
  - I Initial emission test required; no durability testing and no production-line testing
  - I Equipment manufacturer assumes all other responsibilities that apply to engine manufacturers
- Starting in 2015, this applies only for small families (annual U.S. sales < 5000 units)</p>

# Transition program for equipment manufacturers

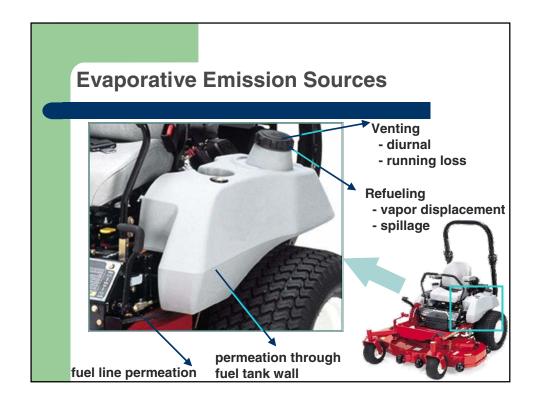
- Equipment manufacturers may install a certain number of Class II engines without catalysts (§1054.625)
- Allowances: 30% of annual average Class II equipment sales from 2007 through 2009, spread over four years (2011-2014)
  - 200% for small manufacturers (annual U.S. NHH sales < 5,000 units)</p>
  - Up to a total of 100% for mid-size manufacturers (annual U.S. Class II sales = 5,000 50,000 units), subject to EPA approval
- Equipment manufacturer actions/responsibilities:
  - Get engines: (1) "Flex engines" may be ordered from engine manufacturer; (2) Delegated-assembly engines may be built with noncatalyzed muffler
  - I NOTE: Equipment manufacturers may not <u>remove</u> catalyzed mufflers to create flex engines
  - Add equipment label(s)
  - Notify EPA before using allowances and send report after every year of using allowances
- Engine manufacturer is responsible for meeting Phase 2 standards with flex engines
- Additional provisions apply for equipment produced outside of U.S. (§1054.626)

# **Evaporative Emission Standards and Certification Requirements For Small SI Engines and Equipment**

October 23, 2008

### Introduction

- Overview
- Summary of Marine SI standards
- Small SI standards
  - Fuel line permeation
  - Fuel tank permeation
  - Running losses (tank venting during operation)
  - Refueling
- Certification provisions
- Labeling



### **Marine SI Evaporative Standards**

Starting Dates and Estimated Reductions for Evaporative Emission Standards					
Evaporative	Personal Portable Other Installed Estimated H				
Controls	watercraft	Tanks	Tanks	% Reduction	
Hose permeation	2009	2009	2009-2015	80%	
Tank permeation	2011	2011	2012	85%	
Diurnal	2010	2010	2011-2013	60%	

- First-ever evaporative emission controls for Marine SI engines and vessels

  - Hose standard 15 g/m²/day Tank standard 1.5 g/m²/day
  - Diurnal standard 0.40 g/gal/day
- California ARB has initiated efforts to adopt similar evaporative requirements

### **Small SI Evaporative Standards**

Starting Dates and Estimated Reductions for Evaporative Emission Standards				
Evaporative Controls	Class I (NHH)	Class II (NHH)	Classes III-V (HH)	Estimated HC % Reduction
Hose permeation	2009	2009	2012-2016	95%
Tank permeation	2012	2011	2009-2013	85%
Running loss	2012	2011	N/A	80%

- First-ever evaporative emission controls for Small SI engines and equipment
  - Useful life = 5 years (unless noted otherwise)
- Main differences from California ARB evaporative requirements
  - CARB requirements started in 2006-2008
  - CARB requires diurnal controls, EPA does not
  - EPA requires HH hose permeation, CARB does not

### Fuel line permeation—NHH

- 15 g/m²/day standard starts Jan. 1, 2009 (§90.127)
  - Timing of new requirements based on equipment build date
  - Labeling requirements waived for 2009 model year
- Either equipment or component manufacturers may certify
- Certification may be based on new testing, data for CARB Executive Order, or data establishing SAE grade material under SAE J2260 or J30 (R11A or R12)
  - This may include SHED-certified equipment
- 40 CFR part 1054 and part 1060 apply starting with Phase 3 models (2011/2012) (esp. §1060.102)
  - EPA testing and certification procedures required

### Fuel line permeation—HH

- 15 g/m²/day standard for most HH equipment starts with 2012 MY (2013 for small equipment models) (§1060.102 and §1060.515)
  - No emission credits
- Standards for cold-weather fuel lines phase in starting with 2012 model year (§1060.102 and §1060.515)
  - Cold-weather equipment = chainsaws, cut-off saws, clearing saws, brush cutters with engines at or above 40cc, commercial earth and wood drills, and ice augers.
  - Standard declines from 290 g/m²/day in 2012 to 225 g/m²/day in 2016
    - Corporate averaging allowed through 2015
  - Test fuel is E10 (10% blend of ethanol in gasoline)
  - Useful life = 2 years through 2013; 5 years thereafter

### **Fuel line testing**

- Test procedure is based on SAE J30/SAE J1527 (§1060.515)
- Test fuel is CE10 (10% blend of ethanol in Fuel C)
  - E10 for cold-weather products
- Stabilize fuel line tank—8 weeks at 23°C or 4 weeks at 43°C—then test over 14-day sampling period at 23°C
  - Use good engineering judgment to adjust procedures as needed for short or narrow-diameter fuel lines

### Fuel tank permeation—HH

- HH equipment using CARB-certified fuel tanks must meet 2.0 g/m²/day standard starting Jan. 1, 2009 (§90.129)
  - Timing of new requirements based on equipment build date
  - Either equipment or component manufacturers may certify
  - Certification based on data for CARB Executive Order
  - Fuel caps not included
- 1.5 g/m²/day standard for HH starts in 2010 model year, except for special cases (esp. §1060.103)
  - EPA testing and certification procedures required
  - 2011 model year start for structurally integrated nylon tanks
  - 2012 model year for tanks certified under §90.129
  - 2013 for all small-volume emission families (≤ 5000 units)
- Emission credits available (like NHH program)
  - Including early banking for tanks certified ahead of schedule

### Fuel tank permeation—NHH

- 1.5 g/m²/day standard for NHH starts with Phase 3 models (2011/2012) (esp. §1060.103 and §1060.520)
  - Equipment manufacturers may alternatively rely on SHED-based procedures to meet permeation and diurnal standards
  - Directly mounted fuel caps are included; fuel-line grommets are not
  - Useful life = 2 years through 2013; 5 years thereafter
- Emission credits and allowances
  - Component manufacturer selects family emission limit; equipment manufacturer keeps a positive balance of credits
  - FEL cap is 5.0 g/m²/day starting in 2015 (2014 for Class II)
    - FEL cap for small equipment models is 8.0 g/m²/day (≤ 5000 units)
  - Early-compliant NHH tanks may generate allowances (trade for noncompliant models)
- Standards and FEL caps cited for testing at 28°C; alternate levels apply for testing at 40°C
- Simplified certification for tanks with inherently low emissions (§1060.240)
  - Coextruded tanks with EVOH barrier or metal tanks

### Temporary exemption for rotationmolded tanks

- Permeation standards do not apply in 2011 for small-volume rotation-molded fuel tanks used in equipment with Class II engines (§1054.145(m))
  - "Small-volume" based on upper limit of 5000 unit production of "identical tanks"
- Same provisions apply in 2012, except that and equipment manufacturer's production of exempt tanks may not exceed 10,000 units

### Fuel tank permeation—Fuel caps

Tank manufacturer has three options to account for permeation from attached fuel caps (§1060.520(b)(5))

-Ignore cap permeation from tanks with filler neck

- 1. Measure tank with installed fuel cap (representative/worst case)
  - Fuel tanks must be sold with fuel cap
- 2. Use default value of 30 g/m²/day to calculate total tank emissions
  - Tanks may be sold with or without caps
  - Caps may be made of any material
  - Gaskets must be made of low-permeability material
- 3. Measure fuel cap separately (§1060.521)
  - Tank manufacturer may calculate a combined result to certify tank and cap together (tanks must be sold with cap)
  - Tank manufacturer may certify tank based on assumed cap permeation rate (tanks may be sold without caps)
    - Fuel cap manufacturer would need to certify fuel caps (meet 1.5 g/m²/day standard or name Family Emission Limit)
    - Equipment manufacturers would need to use certified fuel cap with family emission limit at or below specified level

### **Fuel tank testing**

- Test procedure specified in §1060.520
- Stabilize tank—20 weeks at 28°C or 10 weeks at 43°C
  - pressure cycling, UV, and slosh testing apply only for tanks with surface treatment or other post-processing treatment
    - No exemption from pressure cycling for vented tanks
  - EPA may approve alternate pressure test if tank cannot be tested as specified
- Test fuel is E10 (CE10 is also permissible)
- Test temperature is 28°C (or 40°C, with alternate standard)
- Measure emissions daily for 10-20 days until emissions stabilize (until  $r^2 \ge 0.95$ )
  - Compare final result to emission standard (or Family Emission Limit)

### **Diurnal emissions—NHH**

- CARB specifies SHED procedure to measure diurnal and permeation emissions for certain types of equipment
- EPA did not adopt diurnal emission standard
- Equipment measured with CARB's SHED procedure can be certified with EPA
  - SHED-certified configuration must be sold nationwide (carbon canisters, etc.)
  - Fuel lines and fuel tanks don't need to be certified separately

### **Running loss**

- NHH equipment must use one of the following designs for controlling running losses (§1060.104)
  - Vent tank vapors to engine intake, or
  - Seal fuel tank (pressurized, bladder, etc.), or
  - Get a CARB Executive Order for other designs
- Equipment manufacturers that install fuel tanks need to coordinate design with engine manufacturer
  - Engine manufacturer provides installation instructions
  - Engines must meet exhaust standards for "expected in-use operation," including tank/equipment configurations
- NHH equipment must have tethered fuel cap with physical indication of seal (e.g., click when tight)
- Running loss standard (and tethering requirement) does not apply for HH equipment

### Refueling

- Equipment must be built so operators can "reasonably be expected to fill the fuel tank without spitback or spillage" (§1060.101(f))
  - Requirement starts in the same year that tank permeation standards start
- Size and placement of fuel tank inlet are key parameters
  - Operator should be able to place nozzle directly in tank inlet and see fuel level while fueling
  - Meeting published industry standard is sufficient demonstration (such as specified cap diameter for chainsaws)
  - Goal is to move industry toward good standard practice
- Similar requirement applies to gas can manufacturers (40 CFR 59.611(c))
- No separate certification is required

### **General certification provisions**

- General certification provisions apply for all standards under 40 CFR part 1060
  - Not required for early standards (2009 HH fuel tanks and 2009 NHH fuel lines certified under part 90)
- Component manufacturers expected to certify fuel tanks and fuel lines (§1060.5 and §1060.205)
  - Certification may be delegated to equipment manufacturers that want to certify (§1060.601(f))
- Regulation specifies parameters for including different products in the same emission family (§1060.230)
- Test worst-case model in the emission family (§1060.235)
- Equipment manufacturers must certify their equipment (§1060.5(e))
  - Identify certified fuel tanks and fuel lines
  - Describe running loss controls (NHH only)
  - Describe any additional testing (if certifying components)
  - Describe Family Emission Limits and emission credits if applicable

### General certification provisions -cont.

- Certifying manufacturers are responsible for warranty (§1060.120)
  - Either component or equipment manufacturer may process claims
- Equipment manufacturers may use up existing inventory of noncompliant fuel tanks and fuel lines (§1060.601(g))
  - "Normal inventory" requirement does not allow for stockpiling to circumvent standards in first year
- Equipment manufacturers not required to comply in first year if the engine's model year is from the previous year (§1060.605(f))
  - Example: 2012 standard applies after 2011 engines are used up
  - Separate stockpiling provisions apply for engines (§1068.105(a))
- New fuel tanks and fuel lines replacing certified parts must be certified (§1060.601(b))
  - New parts replacing "pre-evap" components are exempt
  - Exempt parts (or package) must be labeled to describe limitations on use
  - Starting Jan. 2020, exempt parts must be labeled; companies must take additional steps to prevent exempt parts from replacing certified parts

### Labeling

- Component manufacturers (§1060.137)
  - Add detailed label information:
    - Include company name, emission family, compliance statement, and FEL (if applicable)
    - Fuel lines include numbers or code to identify emission level
  - Or, alternatively, use coded abbreviation
    - e.g., "EPA-MFR-A15"
- Equipment manufacturers (§1060.135)
  - Evap label must include company name, build date, compliance statement
  - Identify certified components with master code, or individual codes to match component markings



### **Certification Procedures**

The ABCs of getting a Certificate of Conformity with EPA emission regulations...

### **Certification Procedures**



### • The basics:

- If your product is subject to EPA emissions standards, you must obtain a Certificate of Conformity <u>before</u> you introduce it into US Commerce.
  - Must demonstrate compliance with the applicable regulation.
- Certificates are issued by the Compliance and Innovative Strategies Division (CISD), Office of Transportation and Air Quality.
  - CISD's Heavy-Duty and Nonroad Engines Group processes the Applications for Certification for Small SI
- You must certify every model year or production period

### How do I certify?



- To obtain a Certificate of Conformity:
  - 1. Read the regulations!
    - Small SI: 40 CFR Parts 90, 1054, 1060, 1065 and 1068
    - http://www.epa.gov/otaq/equip-ld.htm
  - 2. Request an EPA Manufacturer Code:
    - http://epa.gov/otag/verify/mfr-code.htm
    - Contact: Mr. Pete Petersen, EPA Contractor petersen.pete@epa.gov
  - 3. Determine:
    - Engine Families/Permeation Families
    - The type of Certificate you need:
      - Exhaust, Evaporative (fuel lines, fuel tanks, fuel caps), or both

### How do I certify?



- 4. Gather your data
- 5. Pay your fee:
  - Per Application
  - Information:

http://epa.gov/otaq/fees.htm

- Pay electronically at: <a href="https://www.pay.gov/">https://www.pay.gov/</a>
- Contact:
  - Mr. Bill Vanden Broek, EPA Contractor
  - vandenbroek.willem@epa.gov

	Calenda	r Year*	
Type of Certificate	2008	2009	Use Form
Exhaust	\$694	\$562	3520-29
Evaporative	\$24	11	"Miscellaneous Payments"

\*The amount of the fee depends on the calendar year in which the application is submitted, not the engine's model year. Pay a fee for each

### How do I certify?



- 6. Complete an Application for Certification
  - Per engine or permeation familyDownload application template:
  - epa.gov/otaq/certdat2.htmSoftware required: FileMaker
  - Pro (versions 7.0 to 9.0)
    - www.filemaker.com
  - Questions about regulations and completing/ submitting the application:
    - Exhaust: Mike Marko, marko.michael@epa.gov
    - Evaporative: Nick Flores: flores.nick@epa.gov
  - Carry over, running changes
  - Mark CBI
  - Comments

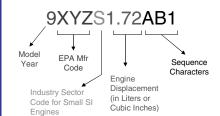


# How do I certify?



- Engine Family Names
  - 12-character string
  - Must follow EPA's family naming convention
  - MY 2009 = 9; 2010 = A

### Small SI (Exhaust)



### Evaporative

(for MY 2009 only)

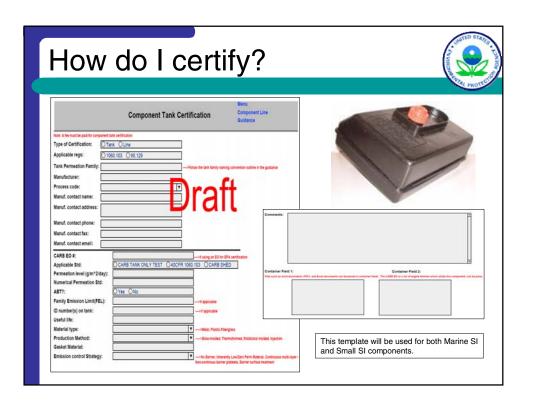
9XYZPCAPSAB1

9XYZPTANKAB1

Industry Sector Code for Fuel Tanks/Caps Sequence Characters (Unique Identifier)

9XYZPLINEAB1





### How do I certify?



### 6. Submit your application

- Four things needed for a complete application:
   (1) completed template, (2) signed Statement of Compliance, (3) any requested information, (4) fee
- To submit:
  - Email complete application to: Application-SI\_Cert@epa.gov

Subject line: Permeation Component -Company name-# of submissions & Process Code

- Example: "Tank –ABC Tanks, Inc.-3 new submissions"
   One industry and process code per e-mail
- May submit by mail
- Allow at least 60 days from the time EPA receives a complete application for processing

### **EPA Review**



- Please keep in mind that once you certify, you must comply with all parts of the regulation(s) that apply to your product, such as:
  - Labeling Requirements
  - Average, Banking and Trading (AB&T)
  - Production-line Testing (PLT)
  - In-use Testing
  - Warranties
  - Defect Reports & Recalls
  - Owner's Manual requirements
  - Selective Enforcement Audits
  - Recordkeeping, etc

### Other useful information



### Heavy-Duty and Nonroad Engines Group

### Postal Delivery:

US EPA 1200 Pennsylvania Avenue, NW Mail Code 6405J Washington, DC 20460

### Overnight/courier Delivery:

US EPA Heavy-Duty and Nonroad Engine Group 1310 L Street, NW Suite 601B Washington, DC 20005

(For all submissions, including exemption requests and defect reports)

### Certification issues

- Exhaust: Mike Marko, EPA Contractor marko.michael@epa.gov
- Evap: Nick Flores, EPA Contractor flores.nick@epa.gov
- Imports Hotline: 734.214.4100
  - imports@epa.gov
- To submit:
  - AB&T: abt\_engine@epa.govPLT (OB/PWC): plt@epa.gov
- Cert data available at: <u>www.epa.gov/otaq/certdata.htm</u>

### Small Spark-Ignition Engines and Component Certification - Summary of Useful Information -

		Contact		
Topic	Website/E-mail	Name	E-mail	
Regulations	http://www.epa.gov/otaq/equip-ld.htm			
40 CFR Parts 90, 1054, 1060, 1065, 1068	http://www.gpoaccess.gov/cfr/index.html			
	Certification Procedures	•		
Instructions for Certifying Small Nonroad Spark-Ignition				
Engines ≤ 19 Kilowatts (April 2007)	www.epa.gov/otaq/certdat2.htm			
EPA Manufacturer Code	www.epa.gov/otaq/verify/mfr-code.htm	Pete Petersen	petersen.pete@epa.gov	
		Bill		
Fees	https://www.pay.gov	VandenBroek	vandenbroek.willem@epa.gov	
	www.epa.gov/otaq/fees.htm			
Application for Certification				
Download template	ununu ama may/atam/aantalat2 htm	-		
Get the software (FileMaker Pro 7.0 to 9.0)	www.epa.gov/otaq/certdat2.htm www.filemaker.com			
	www.filemaker.com	1		
For info on completing/submitting the application				
- Exhaust		Mike Marko	marko.michael@epa.gov	
- Evaporative		Nick Flores	flores.nick@epa.gov	
Submit by e-mail	application-SI_Cert@epa.gov			
- Subject Line:				
NRSI-Company Name-# of submissions & process code				
- One type of industry and process code per e-mail, please!				
	Other Committee on Burning			
	Other Compliance Programs			
Submit reports:				
Production-line Testing (PLT)	_plt@epa.gov			
Averaging, Banking and Trading (AB&T)	abt_engine@epa.gov			
Cartification Data (neeted)	www.opo.gov/otog/oortdoto.htm			
Certification Data (posted)	www.epa.gov/otaq/certdata.htm			
Imports	http://www.epa.gov/otaq/imports/index.htm		imports@epa.gov	
Exemptions & Exclusions	See mailing addresses below			
Defect Reports & Recalls	See mailing addresses below			
Polodi Nopolio & Nedalio	Occ maining addresses below	1	I	

### General Information

General Information General Information by topic Dear Manufacturer Letters www.epa.gov/nonroad www.epa.gov/otaq/siteindex.htm

www.epa.gov/otaq/cert/dearmfr/dearmfr.htm

### Heavy-Duty and Nonroad Engine Group Compliance and Innovative Strategies Division

Postal Mail:
US EPA
Heavy-Duty and Nonroad Engine Group
1200 Pennsylvania Avenue, NW
Mail Code 6405J
Washington, DC 20460

Overnight/Courier Address:
US EPA
Heavy-Duty and Nonroad Engine Group
1310 L Street, NW
Suite 601B
Washington, DC 20005

Above Mailing addresses can be used for submissions, including exemption requests and defect reports. Note: Do not send discs to Regular Mail address because mail is irradiated.