

Recommend Application Format

for

Certification of Highway Motorcycles

**HMC Workshop, March 9, 2005
EPA/CARB**

A Joint EPA/CARB Application Format



Recommend Application Format

- **Part A. Common Information**

- **Part B. Individual Engine Family Application**
 1. Request for Certification
 2. Correspondence and Communications
 3. Certification Summary information (CSI)
 4. Application Requirements (40 CFR §86.416-80)
 5. Averaging and Banking Requirements, if Any
 6. Additional California Requirements (Reserved)

Part B. Individual Engine Family Application

Section 1. Request for Certification:

Information to be Included:

- Manufacturer's legal name
- Name of the engine family and its vehicle category
- Compliance statements
- Primary certification contact information
- Signature of an authorized company representative.

Advice for Submittal:

- Cover letter format
- Identify primary contact by "For questions call..."

Part B. Individual Engine Family Application

Section 2. Correspondence and Communications

Information to be Included:

- Information for all persons authorized to be in contact with EPA/CARB
- One primary company email address for receiving official documents.
- U.S. mail address
- Dedicated Email address

Advice for Submittal:

- Supply complete contacts list in Part A.
- Create an email address: certificate@company.com, or Company-cert@xxx.com to receive EPA/CARB documents.

Part B. Individual Engine Family Application

Section 3. Certification Summary Information (CSI)

- CSI is a summary of the certification information for a specific EF

- CSI is comprised of 7 sections.
 1. General Information
 2. EPA/CARB Emission Standards and Certification Levels
 3. Engine Family Description
 4. Exhaust Emission Control Information
 5. Exhaust Emission Data Vehicle and Test Data
 6. Permeation Emissions Control and Test Data
 7. Models Covered

Part B. Section 4 (a): Engine Family Description

Information to be Included:

- Engine family name
- Vehicle categories
- Any new technology applied
- Fuel type
- EF specifications
- Models covered

Advice for Submittal:

- Refer to appropriate sections on the CSI for required information

Part B. Section 4 (b): Emission Data Vehicle (EDV) Description

Information to be Included:

- Explanation for EDV selection
- EDV specifications
- Test related information

Advice for Submittal:

- Refer to appropriate sections on CSI for the required information

Part B. Section 4 (c):

Vehicle Emission Control Information (VECI) Label

Information to be Included:

- As specified in 40 CFR §86.413-78

Advice for Submittal:

- Discuss with EPA/CARB in advance if you propose any changes other than specified in §86.413-78
- Present copy of VECI label in the same size as actual label
- You may reference a complete set of copies of the labels for a model year in Part A

Part B. Section 4 (d):

Emission Control Systems and Auxiliary Emission Control Devices

Information to be Included:

- Exhaust emission controls
- Evaporative/permeable emission controls
- AECD information

Advice for Submittal:

- Refer to the CSI for the required information, when applicable
- Use schematics, tables and lists
- Place common information in Part A
- For CBI:
 - make a CBI file and a public file:
 - CBI_EF name.pdf
 - FOI_EF name.pdf
 - create a CBI code in public file and describe the code in the CBI file
 - both files must be submitted concurrently

Part B. Section 4 (e):

Adjustable Operating Parameters and Other Adjustments

Information to be Included:

- ▶ As specified in 40 CFR §86.416-80 and §86.409-78

Advice for Submittal:

- ▶ Organize the required information by a table (example provided)

Part B. Section 4 (f): Projected U.S./California Sales

Information to be Included:

- ▶ Projected total US sales and CA-only sales for each model of the engine family

Advice for Submittal:

- ▶ For confidential treatment, submit the table in the CBI file

Part B. Section 4 (g):

Test Equipment, Fuel, and Engine Lubricant

Information to be Included:

- Description of all EPA/CARB approved...
 - Special or alternate test procedures
 - Special test equipment
 - Durability procedures or driving schedules
 - Permeation tests
 - Evaporative whole vehicle tests

- Lists of test fuel specifications for exhaust, permeation, and evaporative emissions

Advice for Submittal:

- Include a copy of EPA/CARB's approvals
- Reference the approval number
- List the test fuel specifications for exhaust, permeation, and evaporative emissions side-by-side with the required range as specified in the regulations

Part B. Section 4 (h): Proposed Service Accumulation Procedure

Information to be Included:

- If you are not using the Durability driving schedule specified in appendix IV of part 86 for service accumulation, provide a description of the alternate procedure you plan to use
- Maintenance instructions
- DF data type (new, carryover, or carry-across)
- Description of durability process

Advice for Submittal:

- Provide the durability procedure descriptions in Part A and place a reference in this section
- Reference appropriate Sections on CSI for DF and test results
- If new durability data is not provided, explain the reason and identify the source of data
- Provide durability data and info in table format

Part B. Section 4 (i):

Statement of Recommended Periodic and Anticipated Maintenance and Procedures

Information to be Included:

- Listings of fuels and lubricants recommended to ultimate purchaser
- Description of program for training of personnel for maintenance
- Description of equipment required to perform maintenance
- Critical emission-related maintenance
- Recommended additional maintenance
- Special maintenance
- Non-critical emission-related maintenance
- Maintenance that is not emission-related
- Emission related part number summary form and sources for parts and repairs

Advice for Submittal:

- Make a table to list all parts that are emission related, with sources for parts and repairs
- Provide owners manual

Part B. Section 4 (j):

Normal Assembly Line Operation and Adjustments

Information to be Included:

- ▶ Provide a description of normal assembly line operation and adjustments if such procedures exceed 100 km (62 miles) or three hours of operation

Part B. Section 4 (k): Evaporative/Permeation Emission Controls

Information to be Included:

- ▶ Permeation family or group name
- ▶ Evap family or group name
- ▶ Fuel tank:
 - ▶ Material
 - ▶ Wall thickness
 - ▶ Total inside surface area
 - ▶ Treatment approach/control technology
- ▶ Fuel line:
 - ▶ Material
 - ▶ Wall thickness
 - ▶ Total inside surface area
 - ▶ Control technology
- ▶ Other

Advice for Submittal:

- ▶ You may reference the appropriate CSI sections for the required information
- ▶ Use schematics
- ▶ Provide durability procedure descriptions in Part A

Part B. Section 5: Averaging and Early Banking Requirements

Information to be Included:

- ▶ Compliance statements for AB
- ▶ Detailed AB calculations

Advice for Submittal:

- ▶ Use table format to organize data, sample provided
- ▶ Place the AB form in Part A
- ▶ For confidential treatment, submit both CBI file and public file

CARB:

*no banking and trading
use CA-only sales for averaging
require a separate CARB averaging compliance plan*

Part B. Section 6. Additional California Information

(Reserved)