| California Environmental Protection Agency AIR RESOURCES BOARD | ECI Fuel Systems | EXECUTIVE ORDER U-U-140-0004 New Off-Road Small Spark-Ignition Equipment |
|---|---|---|

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** That the following equipment produced by the manufacturer is certified as described below. Production equipment shall be in all material respects the same as those for which certification is granted.

| ENGINE DESCRIPTION | | | |
|---|---|---|---|
| MANUFACTURER | ENGINE FAMILY (E.O. NUMBER) | ENGINE SIZE (cc) | FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas) |
| CUMMINS POWER GENERATION | 8N5XS.3042GG (U-U-008-0174) | 304 | Gasoline |

* TBC = To Be Certified

| EQUIPMENT DESCRIPTION | | | |
|---|---|---|---|
| MODEL YEAR | EVAPORATIVE FAMILY | FUEL TANK SIZE (liters) | EQUIPMENT APPLICATION |
| 2008 | CM | See Attachments | Generator Set and Refueling/Transfer Pump |

| EMISSION CONTROL SYSTEMS (ECS) | EQUIPMENT MODEL |
|---|---|
| Carbon Canister, Metal Tank | See Attachments |

A. **ECS TYPE** (Venting Control Type/Tank Barrier Type): 1. **Venting Control Type and Code**:- Canister=C Sealed Tank=S Other=O 2. **Tank Barrier Type and Code**:- Metal=M Treated HDPE or PE=P Co-extruded=C Selar=L Nylon=N Acetal=A Other=O B. **EVAPORATIVE FAMILY 2-Letter CODE** (Venting Control Codes =C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). **Note**: Always list venting control type or code first before tank barrier type or code. Do not use abbreviations for ECS types.

The following are the evaporative emission standards (Title 13, California Code of Regulations, 13 CCR Section 2754(a) or 2754(b), as applicable), and certification levels in grams per day (g/day) or grams per square meter per day ($g/m^2$/day) or grams per liter (g/l) for this evaporative family or the component Executive Order, as applicable. The running loss emissions control has been demonstrated by the manufacturer.

| *=not applicable | PERFORMANCE BASED (grams HC/day) | | |
|---|---|---|---|
| STANDARD | EVAPORATIVE MODEL EMISSION LIMIT (EMEL) | EVAPORATIVE FAMILY EMISSION LIMIT DIFFERENTIAL (EFELD) | CERTIFICATION LEVEL |
| 4.9 | N/A | N/A | 1.5 |

**BE IT FURTHER RESOLVED:** That the evaporative model emission limit (EMEL), as applicable, is the diurnal emissions level declared by the manufacturer based on diurnal test results for a worst-case engine or equipment model within an evaporative family. No engine or equipment emissions within the evaporative family could be closer to its respective standard than the evaporative family emission limit differential (EFELD) calculated from the declared EMEL for the worst-case engine or equipment.

**BE IT FURTHER RESOLVED:** That the evaporative family emission limit differential (EFELD), as applicable, is an emission level differential between the effective standard level for a specific model representing the entire evaporative family and the EMEL declared for the specific model and it's for use in the averaging and banking program. It serves as the applicable evaporative emission standard for determining compliance on a corporate average basis of any equipment within this evaporative family under 13 CCR Sections 2754.1(e).

**BE IT FURTHER RESOLVED:** That for the listed equipment, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2759 (labeling) and 13 CCR Sections 2760 and 2764 (emission control system warranty).

Equipment certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Equipment in this family that is produced for any other model-year is not covered by this Executive Order.**

Executed at El Monte, California on this 18 day of December 2007.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT Pg 1 of 2

# Small Off-Road Evaporative Certification Database Form
## (Supplementary Information)

U-U-140-0004

**MODEL SUMMARY**

| S1. Worst Case (Check One) | S2. Engine or Equipment Model | S3. Sales Codes (check all appropriate) | | | S4. Engine Class (I or II) | S5. Fuel System (FI or CARB) | S6. Fuel Tank Vol. (Liters) | S7. Fuel Tank Internal Surface Area ($m^2$) | S8. Fuel Line Type | S9. Nominal Fuel Line Length(1) (mm) | S10. Fuel Line Inside Diameter (mm) | S11. Exhaust Family | S12. Fuel Tank Executive Order | S13. Fuel Line Executive Order | S14. Carbon Canister or Other Venting Control Executive Order |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CA Only | 49-State | 50-State | | | | | | | | | | | |
| | AL17ON4.0 | | | ✓ | II | CARB | 64.33 | 1.348 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | AMF30ON4.0 | | | ✓ | II | CARB | 111.45 | 2.043 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | ELC18ON4.0 | | | ✓ | II | CARB | 68.11 | 1.316 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | ELC36ON4.0 | | | ✓ | II | CARB | 137.98 | 2.430 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | FLW18ON4.0 | | | ✓ | II | CARB | 73.45 | 1.548 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | FLW20ON4.0 | | | ✓ | II | CARB | 91.99 | 1.630 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | FLW30ON4.0 | | | ✓ | II | CARB | 127.38 | 2.282 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |

(1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | FR18ON4.0 | | | ✓ | II | CARB | 66.83 | 2.023 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | FR34ON4.0 | | | ✓ | II | CARB | 129.73 | 2.067 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | TH30ON4.0 | | | ✓ | II | CARB | 127.676 | 2.567 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | TH18ON4.0 | | | ✓ | II | CARB | 63.89 | 1.477 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | WW30ON4.0 | | | ✓ | II | CARB | 118.69 | 1.918 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | WW40ON4.0 | | | ✓ | II | CARB | 169.84 | 2.322 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | TPD18ON4.0 | | | ✓ | II | CARB | 68.11 | 1.002 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | NW35ON4.0 | | | ✓ | II | CARB | 132.45 | 2.515 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | FRIN30ON4.0 | | | ✓ | II | CARB | 117.92 | 2.12515 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |
| | FRIN18ON4.0 | | | ✓ | II | CARB | 76.63 | 1.63 | Multi-Layer | 10058.4 | 6.35 | 8N5XS.3042GG | Exempt Metal | C-U-07-017 | N/A |