## CUMMINS INC.

EXECUTIVE ORDER U-R-002-0375 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

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

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL<br>YEAR | ENGINE FAMILY                                   | DISPLACEMENT (liters)           | FUEL TYPE                | USEFUL LIFE<br>(hours) |
|---------------|---|---------------------------------|--------------------------|------------------------|
| 2007          | 7CEXL060.AAD                                    | 60.0                            | Diesel                   | 8000                   |
|               | FEATURES & EMISSION                             |                                 | TYPICAL EQUIPMENT APPLIC | CATION                 |
| Direct Dies   | sel Injection, Turbocharge<br>Engine Control Mo | er, Charge Air Cooler,<br>odule | Generator                |                        |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

| RATED          | EMISSION |      | EXHAUST (g/kw-hr) |     |          |     |      | OPACITY (%) |     |      |
|----------------|----------|------|-------------------|-----|----------|-----|------|-------------|-----|------|
| POWER<br>CLASS | STANDARD |      | нс                | NOx | NMHC+NOx | co  | PM   | ACCEL       | LUG | PEAK |
| kW > 560       | Tier 2   | STD  | N/A               | N/A | 6.4      | 3.5 | 0.20 | N/A         | N/A | N/A  |
|                |          | CERT |                   |     | 5.4      | 0.5 | 0.09 |             |     |      |

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines 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. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

Annette Hebert, Chief

Mobile Source Operations Division

day of November 2006.

Engine Model Summary Form PTACHNEST PS (of )

U-R-002-0375

Cummins Inc. Manufacturer:

Nonroad CI Engine category:

7CEXL060.AAD EPA Engine Family.

D593 Mfr Family Name:

**New Submission** Process Code:

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|--|-----------------|--------------|--------------|-------------|-------------|----------------------|--|--|
| 9.Emission Control<br>Device Per SAE J1930               | DDI ECM, TC, O, | DDI ECM TO C | DIN BOW TO C | DDI ECM TOO | DO TWO TOO  | DOLECM TO C          | 0001111011100  |  |
| 8.Fuel Rate:<br>(lbs/hr)@peak torque                     | . NA            | NA           |              | NA          | VΔ          | ΑN                   |  |  |
| 7.Fuel Rate:<br>mm/stroke@peak<br>torque                 | N/A             | NA           | N/A          | NA          | NA          | NA                   |  |  |
| 6.Torque @ RPM<br>(SEA Gross)                            | NA              | ΝA           | NA           | NA          | NA          | NA                   |  |  |
| 5.Fuel Rate:<br>(lbs/hr) @ peak HP<br>(for diesels only) | 1137.0          | ·** 1017.9   | 1137.0       | 1026.1      | 796.3       | 1003.3               | A STATE OF THE STA |  |
| 4.ruel Hate:<br>mm/stroke @ peak HP<br>(for diesel only) |                 | . 629        | - 705        | 634         | . 590       | 620                  |  |  |
| 3.BHP@RPM rr<br>(SAE Gross)                              | 3251@1800       | 2922@1800    | 3251@1800    | 2922@1800   | 2334@1500   | 2922@1800            |  |  |
| 2.Engine Model   | OSK60-G         | QSK60-G      | OSK60-G      |             | _03K60-G    | QSK60-G              |  |  |
| 1.Engine Code  | 8595-FR6528     | 0930:FH6526  | 0930:FR6528  | 8595:FR6525 | 8595/FR6525 | 2769;FR <b>66</b> 02 |  |  |