State of California
AIR RESOURCES BOARD

Component Executive Order C-U-05-006

Marugo Rubber Industries, LTD and PML, Inc. - Fuel Hose

WHEREAS, Pursuant to California Health and Safety Code Sections 39600, 39601, and 43013, the California Air Resources Board (ARB) has established a certification process for evaporative emission system components designed to control gasoline emissions from small off-road engines, as described in Title 13 California Code of Regulations (13 CCR), section 2767.1;

WHEREAS, Pursuant to California Health and Safety Code Sections 43013 ARB has established criteria and test procedures for determining the compliance of evaporative emission system components with the design requirements in 13 CCR, section 2754;

WHEREAS, Pursuant to13 CCR Section 2767.1 the ARB Executive Officer may issue an Executive Order if she determines that the small off-road engine evaporative emission to system component conforms the applicable performance requirements set forth in 13 CCR Section 2754;

WHEREAS, Pursuant to Health and Safety Code Sections 39515 and 39516, the ARB Executive Officer issued Executive Order G-05-008 delegating to the Chief of the ARB Monitoring and Laboratory Division the authority to certify small off-road engine evaporative system components; and

WHEREAS, I, William V. Loscutoff, Chief of the Monitoring and Laboratory Division, find that Marugo Rubber Industries, LTD and PML, Inc.'s Marugo-PML Fuel Tube conforms with the permeation performance requirements set forth in the 13 CCR Section 2754 when tested at a constant temperature of 40 °C pursuant to SAE J1737 using an approved test fuel of ARB Phase II fuel.

IT IS ORDERED AND RESOLVED that the following small off-road engine fuel hoses manufactured by Marugo Rubber Industries, LTD and PML, Inc. are certified for use in small off-road equipment.

Table 1
Dimensions and Tolerances for Marugo Rubber Industries, LTD and PML, Inc.'s Marugo-PML Fuel Tube

Nominal Inside Diameter(s) (mm)	Minimum Barrier Thickness (mm)	Barrier Material
4 and greater ± 0.3	0.7 ± 0.2	FKM (fluoroelastomer)

IT IS FURTHER ORDERED that Marugo Rubber Industries, LTD and PML, Inc. shall provide a warranty to equipment manufacturers purchasing their Marugo-PML Fuel Tube. The warranty must conform to the requirements of 13 CCR Section 2760.

IT IS FURTHER ORDERED that the certified fuel hose shall be installed in accordance with the manufacturer's installation and use instructions for the hose. A copy of this Executive Order and fuel hose installation and use instruction shall be provided to manufacturers purchasing fuel hoses for installation on small off-road engines and equipment introduced into commerce in California.

IT IS FURTHER ORDERED that fuel hoses listed in Table 1 shall be clearly and permanently identified as shown in Table 2.

Table 2
Identifying markings for Marugo Rubber Industries, LTD and PML, Inc.'s Marugo-PML Fuel Tube

Company Name	Hose Identifying Marking
PML, Inc.	PML>FKM/ECO<
Marugo Rubber Industries, Ltd.	⑤>FKM/ECO<

IT IS FURTHER ORDERED that any alteration to the hose certified hereby is prohibited. Any alteration or modification of the design approved by this Executive Order will require the manufacturer to apply for a new Executive Order.

IT IS FURTHER ORDERED that Marugo Rubber Industries, LTD and PML, Inc.'s Marugo-PML Fuel Tube shall be compatible with fuels in common use in California at the time of certification and any modifications to comply with future California fuel requirements shall be approved in writing by the Executive Officer or Executive Officer's delegate.

IT IS FURTHER ORDERED that the component certification of Marugo Rubber Industries, LTD and PML, Inc. Marugo-PML Fuel Tube can be referenced in certification applications for small off-road engines and equipment that use small off-road engines unless the Executive Officer finds that Marugo Rubber Industries, LTD or PML, Inc. fuel hose no longer meets the performance requirements set forth in 13 CCR 2754 when tested pursuant to 13 CCR 2765.

Executed at Sacramento, California, this 3rd day of August 2005.

William V. Loscutoff, Chief
Monitoring and Laboratory Division