



16500
28 Apr 2010

Carmanah Technologies, Inc
Mr. Loucas Raptis
Building 4-203 Harbour Road
Victoria, British Columbia
Canada V9A 3S2

Dear Mr. Raptis:

This is in response to your e-mail of April 1, 2010 that requested approval of your M701-5, M702-5, M704-5, and M708 Light Emitting Diode (LED) Marine Lanterns for use on Class "B" and Class "C" Private Aids to Navigation (PATON) structures in the Eighth Coast Guard District

After careful consideration, we determined that the aforementioned LED Marine Lanterns comply with the requirements of 33 CFR Part 67 for use on Class "B" and "C" PATON as specified in the below table within the jurisdiction of the Eighth Coast Guard District. Our determination applies to the following LED Marine Lanterns programmed to a Quick Flash rhythm (0.3 seconds ON):

Lantern Model	Intensity Setting	Lantern Candela	PATON Requirements for Candela and Color		33 CFR 67 Compliance	
			Class B*	Class C*	Class B	Class C
M701-5 White	12%	3cd	25cd - W	1cd - W		Complies
M702-5 White	12%	3cd	25cd - W	1cd - W		Complies
M701-5 Red	25%	5cd	25cd - R	1cd - R		Complies
M702-5 Red	25%	5cd	25cd - R	1cd - R		Complies
M704-5 White	High	34.55cd	25cd - W	1cd - W	Complies	Complies
M704-5 Red	High	35.75cd	25cd - R	1cd - R		Complies
M708 White	Medium	39.1cd	25cd - W	1cd - W	Complies	Complies
M708 Red	Medium	39.75	25cd - R	1cd - R		Complies

Sincerely,

G. B. TLAPA
Commander, U. S. Coast Guard
Chief, Visual Navigation Branch
By direction

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CGD8 (dpw)