



# RAYAH MARITIME SERVICES GROUP (RMSG)

**Issuance Date** 29<sup>th</sup> November, 2010

**Pages:** (Total) 8

**Subject: AMENDMENTS TO REGULATION 13, 14 AND NEW APPENDIX VII OF THEREVISED MARPOL ANNEX VI**

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Dear Sirs,

The revised Chapter 3, MARPOL Annex VI – Regulations for the prevention of air pollution which came into force on August 1, 2007 includes requirements for control of emissions from ships.

According to Resolution MEPC.190 (60) adopted on March 26, 2010, paragraphs 6 and 3 of regulations 13 and 14 respectively are amended. Furthermore, a new Appendix VII is added. Regulation 13 discusses requirements for Nitrogen oxides (NOx) emissions and Regulation 14 requirements for Sulphur oxides (SOx) emissions.

1 Paragraph 6 of regulation 13 is amended as follows:

"6 For the purposes of this regulation, emission control areas shall be:

- .1 the North American area, which means the area described by the coordinates provided in appendix VII to this Annex; a
- .2 any other sea area, including any port area, designated by the Organization in accordance with the criteria and procedures set forth in appendix III to this Annex."

2 Paragraph 3 of regulation 14 is replaced by the following:

"3 For the purpose of this regulation, emission control areas shall include:

- .1 the Baltic Sea area as defined in regulation 1.11.2 of Annex I and the North Sea as defined in regulation 5(1)(f) of Annex V;
- .2 the North American area as described by the coordinates provided in appendix VII to this Annex; and
- .3 any other sea area, including any port area, designated by the Organization in accordance with the criteria and procedures sea forth in appendix III to this Annex."

3 New appendix VII is added as follows:

***Appendix VII***

**North American Emission Control Area  
(Regulation 13.6 and regulation 14.3)**

The North American area comprises:

- .1 The sea area located off the Pacific coasts of the United States and Canada, enclosed by geodesic lines connecting the following coordinates:



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POINT	LATITUDE	LONGITUDE
1	32° 32' 10 "N.	117° 06' 11" W.
2	32° 32' 04"N.	117° 07' 29" W.
3	32° 31'39" N.	117° 14' 20" W.
4	32° 33'13"N.	117° 15' 50" W.
5	32° 34'21"N.	117° 22' 01" W.
6	32° 35'23"N.	117° 27' 53" W.
7	32° 37'38"N.	117° 49' 34" W.
8	31° 07'59"N.	118° 36' 21" W.
9	30° 33' 25"N.	121° 47' 29" W.
10	31° 46'11"N.	123° 17' 22" W.
11	32° 21'58"N.	123° 50' 44" W.
12	32° 56'39"N.	124° 11' 47" W.
13	33° 40'12"N.	124° 27' 15" W.
14	34° 31'28"N.	125° 16' 52" W.
15	35° 14' 38"N.	125° 43' 23" W.
16	35° 43' 60"N.	126° 18' 53" W.
17	36° 16' 25"N.	126° 45' 30" W.
18	37° 01' 35"N.	127° 07' 18" W.
19	37° 45' 39"N.	127° 38' 02" W.
20	38° 25' 08"N.	127° 52' 60" W.
21	39° 25' 05"N.	128° 31' 23" W.
22	40° 18' 47"N.	128° 45' 46" W.
23	41° 13' 39"N.	128° 40' 22" W.
24	42° 12' 49"N.	129° 00' 38" W.
25	42° 47' 34"N.	129° 05' 42" W.
26	43° 26' 22"N.	129° 01' 26" W.
27	44° 24'43"N.	128° 41' 23" W.
28	45° 30'43"N.	128° 40' 02" W.
29	46° 11'01"N.	128° 49' 01" W.
30	46° 33'55"N.	129° 04' 29" W.
31	47° 39'55"N.	131° 15' 41" W.
32	48° 32'32"N.	132° 41' 00" W.
33	48° 57' 47"N.	133° 14' 47" W.
34	49° 22' 39"N.	134° 15' 51" W.
35	50° 01'52"N.	135° 19' 01" W.
36	51° 03'18"N.	136° 45' 45" W.
37	51° 54'04"N.	137° 41' 54" W.
38	52° 45'12"N.	138° 20' 14" W.
39	53° 29' 20"N.	138° 40' 36" W.
40	53° 40'39"N.	138° 48' 53" W.
41	54° 13'45"N.	139° 32' 38" W.
42	54° 39'25"N.	139° 56' 19" W.
43	55° 20'18"N.	140° 55'45" W.
44	56° 07'12"N.	141° 36'18" W.
45	56° 28'32"N.	142° 17' 19" W.
46	56° 37'19"N.	142° 48' 57" W.
47	58° 51' 04"N.	153° 15' 03" W.



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.2 The sea areas located off the Atlantic coasts of the United States, Canada, and France (Saint-Pierre-et-Miquelon) and the Gulf of Mexico coast of the United States enclosed by Geodesic lines connecting the following coordinates:

POINT	LATITUDE	LONGITUDE
1	60° 00'00"N.	64° 09'36"W.
2	60° 00'00"N.	56° 43'00"W.
3	58° 54'01"N.	55° 38'05"W.
4	57° 50'52"N.	55° 03'47"W.
5	57° 35'13"N.	54° 00'59"W.
6	57° 14'20"N.	53° 07'58"W.
7	56° 48'09"N.	52° 23'29"W.
8	56° 18'13"N.	51° 49'42"W.
9	54° 23'21"N.	50° 17'44"W.
10	53° 44'54"N.	50° 07'17"W.
11	53° 04'59"N.	50° 10'05"W.
12	52° 20'06"N.	49° 57'09"W.
13	51° 34'20"N.	48° 52'45"W.
14	50° 40'15"N.	48° 16'04"W.
15	50° 02' 28"N.	48° 07'03"W.
16	49° 24'03"N.	48° 09'35"W.
17	48° 39'22"N.	47° 55'17"W.
18	47° 24'25"N.	47° 46'56"W.
19	46° 35'12"N.	48° 00'54"W.
20	45° 19'45"N.	48° 43'28"W.
21	44° 43'38"N.	49° 16'50"W.
22	44° 16'38"N.	49° 51'23"W.
23	43° 53'15"N.	50° 34'01"W.
24	43° 36'06"N.	51° 20'41"W.
25	43° 23'59"N.	52° 17'22"W.
26	43° 19'50"N.	53° 20'13"W.
27	43° 21'14"N.	54° 09'20"W.
28	43° 29'41"N.	55° 07'41"W.
29	42° 40'12"N.	55° 31'44"W.
30	41° 58'19"N.	56° 09'34"W.
31	41° 20'21"N.	57° 05'13"W.
32	40° 55'34"N.	58° 02'55"W.
33	40° 41'38"N.	59° 05'18"W.
34	40° 38'33"N.	60° 12'20"W.
35	40° 45'46"N.	61° 14'03"W.
36	41° 04'52"N.	62° 17'49"W.
37	40° 36'55"N.	63° 10'49"W.
38	40° 17'32"N.	64° 08'37"W.
39	40° 07'46"N.	64° 59'31"W.
40	40° 05'44"N.	65° 53'07"W.
41	39° 58'05"N.	65° 59'51"W.
42	39° 28'24"N.	66° 21'14"W.
43	39° 01'54"N.	66° 48'33"W.
44	38° 39'16"N.	67° 20'59"W.
45	38° 19'20"N.	68° 02'01"W.
46	38° 05' 29"N.	68° 46'55"W.



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47	37° 58'14" N.	69° 34'07" W.
48	37° 57'47"N.	70° 24' 09"W.
49	37° 52'46"N.	70° 37'50"W.
50	37° 18'37"N.	71° 08'33"W.
51	36° 32'25"N.	71° 33'59"W.
52	35° 34'58"N.	71° 26'02"W.
53	34° 33'10"N.	71° 37'04"W.
54	33° 54'49"N.	71° 52'35"W.
55	33° 19'23"N.	72° 17'12"W.
56	32° 45' 31 N.	72° 54'05"W.
57	31° 55'13"N.	74° 12'02"W.
58	31° 27'14"N.	75° 15'20"W.
59	31° 03'16"N.	75° 51'18"W.
60	30° 45'42"N.	76° 31'38"W.
61	30° 12'48"N.	77° 18'29"W.
62	29° 25'17"N.	76° 56'42"W.
63	28° 36'59"N.	76° 47'60" W.
64	28° 17'13"N.	76° 40'10"W.
65	28° 17'12"N.	79° 11'23"W.
66	27° 52'56"N.	79° 28'35"W.
67	27° 26'01"N.	79° 31'38"W.
68	27° 16'13"N.	79° 34'18"W.
69	27° 11'54"N.	79° 34'56"W.
70	27° 05'59" N.	79° 35'19"W.
71	27° 00'28" N.	79° 35'17"W.
72	26° 55'16"N.	79° 34'39"W.
73	26° 53'58"N.	79° 34'27"W.
74	26° 45' 46"N.	79° 32'41"W.
75	26° 44'30"N.	79° 32'23"W.
76	26° 43'40"N.	79° 32'20"W.
77	26° 41'12"N.	79° 32'01" W.
78	26° 38'13"N.	79° 31'32" W.
79	26° 36'30"N.	79° 31'06" W.
80	26° 35'21"N.	79° 30' 50W.
81	26° 34'51"N.	79° 30'46"W.
82	26° 34'11"N.	79° 30'38"W.
83	26° 31'12"N.	79° 30'15"W.
84	26° 29'05"N.	79° 29'53"W.
85	26° 25'31"N.	79° 29'58"W.
86	26° 23'29"N.	79° 29'55"W.
87	26° 23'21"N.	79° 29'54"W.
88	26° 18'57"N.	79° 31'55"W.
89	26° 15'26"N.	79° 33'17"W.
90	26° 15'13"N.	79° 33'23"W.
91	26° 08'09"N.	79° 35'53" W.
92	26° 07'47"N.	79° 36'09"W.
93	26° 06'59"N.	79° 36'35"W.
94	26° 02'52"N.	79° 38'22"W.
95	25° 59'30"N.	79° 40'03"W.
96	25° 59'16"N.	79° 40'08"W.
97	25° 57'48"N.	79° 40'38"W.



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98	25° 56'18"N.	79° 41'06"W.
99	25° 54'04"N.	79° 41'38"W.
100	25° 53'24"N.	79° 41'46"W.
101	25° 51'54"N.	79° 41'59"W.
102	25° 49'33"N.	79° 42'16"W.
103	25° 48'24"N.	79° 42'23"W.
104	25° 48'20"N.	79° 42'24"W.
105	25° 46'26"N.	79° 42'44"W.
106	25° 46'16"N.	79° 42'45"W.
107	25° 43'40"N.	79° 42'59"W.
108	25° 42'31"N.	79° 42'48"W.
109	25° 40'37"N.	79° 42'27"W.
110	25° 37'24"N.	79° 42'27"W.
111	25° 37'08"N.	79° 42'27"W.
112	25° 31'03"N.	79° 42'12"W.
113	25° 27'59"N.	79° 42'11"W.
114	25° 24'04"N.	79° 42'12"W.
115	25° 22'21"N.	79° 42'20"W.
116	25° 21'29"N.	79° 42'08"W.
117	25° 16'52"N.	79° 41'24"W.
118	25° 15'57"N.	79° 41'31"W.
119	25° 10'39"N.	79° 41'31"W.
120	25° 09'51"N.	79° 41'36"W.
121	25° 09'03"N.	79° 41'45"W.
122	25° 03'55"N.	79° 42'29"W.
123	25° 02'60"N.	79° 42'56"W.
124	25° 00'30"N.	79° 44'05"W.
125	24° 59'03"N.	79° 44'48"W.
126	24° 55'28"N.	79° 45'57"W.
127	24° 44'18"N.	79° 49'24"W.
128	24° 43'04"N.	79° 49'38"W.
129	24° 42'36"N.	79° 50'50"W.
130	24° 41'47"N.	79° 52'57"W.
131	24° 38'32"N.	79° 59'58"W.
132	24° 36'27"N.	80° 03'51"W.
133	24° 33'18"N.	80° 12'43"W.
134	24° 33'05"N.	80° 13'21"W.
135	24° 32'13"N.	80° 15'16"W.
136	24° 31'27"N.	80° 16'55"W.
137	24° 30'57"N.	80° 17'47"W.
138	24° 30'14"N.	80° 19'21"W.
139	24° 30'06"N.	80° 19'44"W.
140	24° 29'38"N.	80° 21'05"W.
141	24° 28'18"N.	80° 24'35"W.
142	24° 28'06"N.	80° 25'10"W.
143	24° 27'23"N.	80° 27'20"W.
144	24° 26'30"N.	80° 29'30"W.
145	24° 25'07"N.	80° 32'22"W.
146	24° 23'30"N.	80° 36'09"W.
147	24° 22'33"N.	80° 38'56"W.
148	24° 22'07"N.	80° 39'51"W.



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149	24° 19' 31" N.	80° 45' 21" W.
150	24° 19' 16" N.	80° 45' 47" W.
151	24° 18' 38" N.	80° 46' 49" W.
152	24° 18' 35" N.	80° 46' 54" W.
153	24° 09' 51" N.	80° 59' 47" W.
154	24° 09' 48" N.	80° 59' 51" W.
155	24° 08' 58" N.	81° 01' 07" W.
156	24° 08' 30" N.	81° 01' 51" W.
157	24° 08' 26" N.	81° 01' 57" W.
158	24° 07' 28" N.	81° 03' 06" W.
159	24° 02' 20" N.	81° 09' 05" W.
160	23° 59' 60" N.	81° 11' 16" W.
161	23° 55' 32" N.	81° 12' 55" W.
162	23° 53' 52" N.	81° 19' 43" W.
163	23° 50' 52" N.	81° 29' 59" W.
164	23° 50' 02" N.	81° 39' 59" W.
165	23° 49' 05" N.	81° 49' 59" W.
166	23° 49' 05" N.	82° 00' 11" W.
167	23° 49' 42" N.	82° 09' 59" W.
168	23° 51' 14" N.	82° 24' 59" W.
169	23° 51' 14" N.	82° 39' 59" W.
170	23° 49' 42" N.	82° 48' 53" W.
171	23° 49' 32" N.	82° 51' 11" W.
172	23° 49' 24" N.	82° 59' 59" W.
173	23° 49' 52" N.	83° 14' 59" W.
174	23° 51' 22" N.	83° 25' 49" W.
175	23° 52' 27" N.	83° 33' 01" W.
176	23° 54' 04" N.	83° 41' 35" W.
177	23° 55' 47" N.	83° 48' 11" W.
178	23° 58' 38" N.	83° 59' 59" W.
179	24° 09' 37" N.	84° 29' 27" W.
180	24° 13' 20" N.	84° 38' 39" W.
181	24° 16' 41" N.	84° 46' 07" W.
182	24° 23' 30" N.	84° 59' 59" W.
183	24° 26' 37" N.	85° 06' 19" W.
184	24° 38' 57" N.	85° 31' 54" W.
185	24° 44' 17" N.	85° 43' 11" W.
186	24° 53' 57" N.	85° 59' 59" W.
187	25° 10' 44" N.	86° 30' 07" W.
188	25° 43' 15" N.	86° 21' 14" W.
189	26° 13' 13" N.	86° 06' 45" W.
190	26° 27' 22" N.	86° 13' 15" W.
191	26° 33' 46" N.	86° 37' 07" W.
192	26° 01' 24" N.	87° 29' 35" W.
193	25° 42' 25" N.	88° 33' 00" W.
194	25° 46' 54" N.	90° 29' 41" W.
195	25° 44' 39" N.	90° 47' 05" W.
196	25° 51' 43" N.	91° 52' 50" W.
197	26° 17' 44" N.	93° 03' 59" W.
198	25° 59' 55" N.	93° 33' 52" W.
199	26° 00' 32" N.	95° 39' 27" W.



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200	26° 00' 33" N.	96° 48' 30" W.
201	25° 58' 32" N.	96° 55' 28" W.
202	25° 58' 15" N.	96° 58' 41" W.
203	25° 57' 58" N.	97° 01' 54" W.
204	25° 57' 41" N.	97° 05' 08" W.
205	25° 57' 24" N.	97° 08' 21" W.
206	25° 57' 24" N.	97° 08' 47" W.

.3 The sea area located off the coasts of the Hawaiian Islands of Hawai'i, Maui, Oahu, Molokai, Niihau, Kauai, Lanai, and Kahoolawe, enclosed by geodesic lines connecting The following coordinates:

POINT	LATITUDE	LONGITUDE
1	22° 32' 54" N.	153° 00' 33" W.
2	23° 06' 05" N.	153° 28' 36" W.
3	23° 32' 11" N.	154° 02' 12" W.
4	23° 51' 47" N.	154° 36' 48" W.
5	24° 21' 49" N.	155° 51' 13" W.
6	24° 41' 47" N.	156° 27' 27" W.
7	24° 57' 33" N.	157° 22' 17" W.
8	25° 13' 41" N.	157° 54' 13" W.
9	25° 25' 31" N.	158° 30' 36" W.
10	25° 31' 19" N.	159° 09' 47" W.
11	25° 30' 31" N.	159° 54' 21" W.
12	25° 21' 53" N.	160° 39' 53" W.
13	25° 00' 06" N.	161° 38' 33" W.
14	24° 40' 49" N.	162° 13' 13" W.
15	24° 15' 53" N.	162° 43' 08" W.
16	23° 40' 50" N.	163° 13' 00" W.
17	23° 03' 20" N.	163° 32' 58" W.
18	22° 20' 09" N.	163° 44' 41" W.
19	21° 36' 45" N.	163° 46' 03" W.
20	20° 55' 26" N.	163° 37' 44" W.
21	20° 13' 34" N.	163° 19' 13" W.
22	19° 39' 03" N.	162° 53' 48" W.
23	19° 09' 43" N.	162° 20' 35" W.
24	18° 39' 16" N.	161° 19' 14" W.
25	18° 30' 31" N.	160° 38' 30" W.
26	18° 29' 31" N.	159° 56' 17" W.
27	18° 10' 41" N.	159° 14' 08" W.
28	17° 31' 17" N.	158° 56' 55" W.
29	16° 54' 06" N.	158° 30' 29" W.
30	16° 25' 49" N.	157° 59' 25" W.
31	15° 59' 57" N.	157° 17' 35" W.
32	15° 40' 37" N.	156° 21' 06" W.
33	15° 37' 36" N.	155° 22' 16" W.
34	15° 43' 46" N.	154° 46' 37" W.
35	15° 55' 32" N.	154° 13' 05" W.
36	16° 46' 27" N.	152° 49' 11" W.
37	17° 33' 42" N.	152° 00' 32" W.



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38	18° 30' 16" N.	151° 30' 24" W.
39	19° 02' 47" N.	151° 22' 17" W.
40	19° 34' 46" N.	151° 19' 47" W.
41	20° 07' 42" N.	151° 22' 58" W.
42	20° 38' 43" N.	151° 31' 36" W.
43	21° 29' 09" N.	151° 59' 50" W.
44	22° 06' 58" N.	152° 31' 25" W.
45	22° 32' 54" N.	153° 00' 33" W.

(end of text)"

These amendments to statutory instrument are retroactive and apply for all type of ships (new and existing ships).

### Summary

Convention	Ref.	Entry into force	New Ship	Existing	Type of ship	Summary	Origin	Comments
MARPOL ANNEX VI	Reg. 13 & 14	01/08/2011	X	X	ALL	The North American area is an emission control area (ECA) for the purpose of Reg. 13 (NOx) and Reg. 14 (SOx)	MEPC.190(60)	Retroactive

### Background Information

1. MARPOL (2007), “*MARPOL CONSOLIDATED EDITION 2006: Articles, Protocols, Annexes, Unified Interpretations of the International Convention for the Prevention of Pollution from ships, 1973, as modified by the Protocol of 1978 relating thereto*”. International Maritime Organization Publications, 2006, ISBN 978-92-801-4216-7
2. IMO (2010), “*Resolution MEPC.190 (60), Amendments to Regulations 13, 14 and new Appendix VII of the revised MARPOL Annex VI*”. International Maritime Organization, 2010

Best regards

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