SAILING PLAN

WP NO.	DTG to ECA EXIT	WAYPOINTS	LAT / LONG	COURSE	DISTANCE	DTG to BERTH
0	309.5	UGC BERTH	45° 37.7' N 122° 41.6' W			309.5
1	308.6	Tower tower	45° 38.3' N 122° 42.6' W	310.5°	0.9	308.6
2	308.1	Vancouver upper	45° 38.5' N 122° 43.3' W	292.2°	0.5	308.1
3	306.9	Vancouver range	45° 38.8' N 122° 44.9' W	285.0°	1.2	306.9
4	306.0	Belle Blue Pt.	45° 39.4' N 122° 45.9' W	310.5°	0.9	306.0
5	304.6	St M100	45° 40.7' N 122° 46.5' W	342.1°	1.4	304.6
6	304.3	Morgan Bar	45° 41.0' N 122° 46.5' W	000.0°	0.3	304.3
7	301.2	Willow lower range	45° 44.0' N 122° 45.6' W	011.9°	3.1	301.2
8	299.3	Pile	45° 45.9' N 122° 45.7' W	357.9°	1.9	299.3
9	298.5	Fales	45° 46.6' N 122° 46.1' W	338.2°	0.8	298.5
10	296.7	Henrici range	45° 48.1' N 122° 47.4' W	328.8°	1.8	296.7
11	296.2	R10	45° 48.6' N 122° 47.6' W	344.4°	0.5	296.2
12	295.8	Duck club 8	45° 49.0' N 122° 47.8' W	340.7°	0.4	295.8
13	295.4	Duck club 6	45° 49.4' N 122° 47.8' W	000.0°	0.4	295.4
14	295.1	Duck club	45° 49.7' N 122° 47.7' W	013.1°	0.3	295.1
15	294.0	Warrior rock	45° 50.7' N 122° 47.1' W	022.8°	1.1	294.0
16	287.1	Saint Helens	45° 57.6' N 122° 47.0' W	000.6°	6.9	287.1
17	281.4	QR80	45° 51.9' N 122° 47.1' W	180.7°	5.7	281.4
18	281.1	G79	45° 52.2' N 122° 47.2' W	346.9°	0.3	281.1
19	279.8	QG 77	45° 53.3' N 122° 48.1' W	330.3°	1.3	279.8
20	279.4	Columbia city	45° 53.7' N 122° 48.3' W	340.8°	0.4	279.4
21	278.4	Columbia city channel	45° 54.7' N 122° 48.6' W	348.2°	1.0	278.4
22	277.2	Burke Is. G69	45° 55.9' N 122° 48.3' W	009.9°	1.2	277.2
23	276.2	Martin island	45° 56.9' N 122° 48.4' W	356.0°	1.0	276.2
24	275.5	Martin bluff	45° 57.6' N 122° 48.1' W	016.6°	0.7	275.5
25	273.4	QR 54	45° 58.9' N 122° 50.5' W	307.8°	2.1	273.4
26	271.4	Kalama	46° 00.8' N 122° 51.3' W	343.6°	2.0	271.4

REMARK

M.V. MV GLOBAL MIRAI
Voy No. 17-L 11 Jan.2015
From: UGC berth Vancouver
To: ECA EXIT
Via:

TOTAL DISTANCE

1. PORT TO PORT	310
2. PILOT TO PILOT	310

TIME ZONE

Portland Oregon	GMT-8.0
Nagoya	GMT+9.0

TIME DIFFERENCE

I.D.L. Crossing?	Yes
-7 Hrs. and +1 Day	

STEAMING TIME 310

11.00 kn	1 day	04:10 Hr
11.25 kn	1 day	03:33 Hr
11.50 kn	1 day	02:57 Hr
11.75 kn	1 day	02:22 Hr
12.00 kn	1 day	01:50 Hr
12.25 kn	1 day	01:18 Hr

DEPARTURE PORT

PILOT STATION, BOUY, ANCHORAGE, ETC....
ENTER WAY POINT NO. 0
UGC BERTH

ARRIVAL PORT

PILOT STATION, BOUY, ANCHORAGE, ETC....
ENTER WAY POINT NO. 70
ECA EXIT

Prepared by:
Nino Jesus C. Madria
2nd Officer

Approved by:
Capt. Eric Jeffrey S. Renegio
Master

GLOBAL MIRAI
CHINA STEAMSHIP CO., LTD.

SAILING PLAN

WP NO.	DTG to ECA EXIT	WAYPOINTS	LAT / LONG	COURSE	DISTANCE	DTG to BERTH	REMARK
26	271.4	Kalama	46° 00.8' N 122° 51.3' W			271.4	
				293.8°	1.0		
27	270.4	Kalama lower	46° 01.2' N 122° 52.6' W			270.4	
				350.1°	0.8		
28	269.6	Coffin Rk.	46° 02.0' N 122° 52.8' W			269.6	
				356.9°	1.3		
29	268.3	Prescot	46° 03.3' N 122° 52.9' W			268.3	
				348.8°	0.7		
30	267.6	Carrols Bluff	46° 04.0' N 122° 53.1' W			267.6	
				279.3°	3.1		
31	264.5	ST M 70	46° 04.5' N 122° 57.9' W			264.5	
				077.7°	2.4		
32	262.1	G33	46° 05.0' N 122° 54.2' W			262.1	
				310.8°	0.5		
33	261.6	G31	46° 05.3' N 122° 54.7' W			261.6	
				295.6°	1.4		
34	260.2	Cottonwood Is.	46° 05.9' N 122° 56.5' W			260.2	
				297.9°	1.5		
35	258.7	St M 65	46° 06.6' N 122° 58.4' W			258.7	
				315.8°	2.1		
36	256.6	Lord Is	46° 08.1' N 123° 00.5' W			256.6	
				297.2°	1.1		
37	255.5	Barlow pt.	46° 08.6' N 123° 01.9' W			255.5	
				305.7°	1.4		
38	254.1	Walker Is.	46° 09.4' N 123° 03.5' W			254.1	
				291.4°	0.8		
39	253.3	Fisher Is.	46° 09.7' N 123° 04.6' W			253.3	
				308.6°	2.4		
40	250.9	Stella range	46° 11.2' N 123° 07.3' W			250.9	
				277.5°	1.5		
41	249.4	Gull Is.	46° 11.4' N 123° 08.5' W			249.4	
				253.9°	0.4		
42	249.0	Abernathy pt.	46° 11.3' N 123° 10.0' W			249.0	
				245.6°	2.9		
43	246.1	Ureka upper channel	46° 10.1' N 123° 13.8' W			246.1	
				233.0°	1.8		
44	244.3	Wallace Is.	46° 09.0' N 123° 15.9' W			244.3	
				253.9°	1.1		
45	243.2	Westport channel	46° 08.7' N 123° 17.4' W			243.2	
				258.4°	1.0		
46	242.2	QR 66	46° 08.5' N 123° 18.8' W			242.2	
				270.0°	1.4		
47	240.8	Westport channel	46° 08.5' N 123° 20.8' W			240.8	
				285.5°	1.9		
48	238.9	Driscoll range.	46° 09.0' N 123° 23.4' W			238.9	
				321.7°	2.8		
49	236.1	Puget Is.	46° 11.2' N 123° 25.9' W			236.1	
				005.9°	2.0		
50	234.1	Hunting Is.	46° 13.2' N 123° 25.0' W			234.1	
				353.4°	1.2		
51	232.9	Steamboat reach	46° 14.4' N 123° 25.8' W			232.9	
				320.8°	2.2		
52	230.7	Skamokawa chan	46° 18.1' N 123° 27.8' W			230.7	
				293.4°	0.8		
53	229.9	R30 Bayview	46° 16.4' N 123° 28.8' W			229.9	

SAILING PLAN

WP NO.	DTG to ECA EXIT	WAYPOINTS	LAT / LONG	COURSE	DISTANCE	DTG to BERTH	REMARK
53	229.9	R30 Bayview	46° 16.4' N 123° 28.8' W			229.9	
				262.5°	0.8		
54	229.1	R 28 Fitzpatrick	46° 16.3' N 123° 29.9' W			229.1	
				246.9°	2.0		
55	227.1	Woody Is.	46° 15.5' N 123° 32.8' W			227.1	
				262.5°	1.5		
56	225.6	Jim Crow	46° 15.3' N 123° 34.8' W			225.6	
				276.3°	2.7		
57	222.9	Miller sand M25	46° 15.6' N 123° 38.7' W			222.9	
				251.5°	1.9		
58	221.0	Rice Is.	46° 15.0' N 123° 41.3' W			221.0	
				235.2°	2.3		
59	218.7	R50 M20	46° 13.7' N 123° 44.0' W			218.7	
				246.6°	1.5		
60	217.2	G 44	46° 13.1' N 123° 46.0' W			217.2	
				240.1°	2.8		
61	214.4	Astoria Bridge G3	46° 11.7' N 123° 49.5' W			214.4	
				265.0°	3.4		
62	211.0	G29	46° 11.4' N 123° 54.4' W			211.0	
				281.6°	0.5		
63	210.5	Tancy Pt.M10	46° 11.5' N 123° 55.1' W			210.5	
				312.3°	5.3		
64	205.2	R14	46° 15.1' N 124° 00.8' W			205.2	
				299.4°	0.6		
65	204.6	R12	46° 15.4' N 124° 01.6' W			204.6	
				284.7°	0.8		
66	203.8	G11	46° 15.6' N 124° 02.7' W			203.8	
				258.9°	1.6		
67	202.2	R8	46° 15.3' N 124° 04.9' W			202.2	
				225.0°	3.5		
68	198.7	R2	46° 12.8' N 124° 08.5' W			198.7	
				204.2°	1.9		
69	196.8	Columbia river Pilot	46° 11.1' N 124° 09.6' W			196.8	
				266.8°	196.8		
70	0.0	ECA EXIT	46° 00.0' N 128° 52.0' W			0.0	