## 1. Sequence of Ballast Exchange

< Ballast Arrival Condition : Same as page 5 - 9 of Trim & Stability Booklet>

Step	FPT		WB	2WB		3WB		4WB		51	5WB		Draft		TRIM	Max.(%)		Prop.	Visib-	Diff. of
July	С	Р	s	Р	s	Р	s	P	s	Р	s	С	Aft	Fwd	(m)	SF	ВМ	Immer. (%)	ility(m)	Water (M3)
BALLA	ST AF	RR.CO	OND.									-								
0	F	F	F	F	F	F	F	F	F	F	F	F	11.63	8.87	2.77	43.0%	74.1%	106.9%	496.5	0
Deballa	sting	: 2. 8	TEP 1	- BAL	LAST	EXCH	IANGI	E										III I SECOND	100.0	
1	E	E	F	F	F	F	F	F	F	F	雕	F	11.37	6.45	4.91	41.5%	45.6%	103.8%.	628.5	21599.
Ballasti	ng	3. S	TEP 2	- BALL	AST I	EXCH.	ANGE													
2	E	F	F	F	F	F	F	F	F	F	F	F	12.42	7.70	4.72	34.3%	59.6%	114.6%	592	17528.
Deballa	sting	4. S	TEP 3	- BAL	LAST	EXCH	IANG	Ξ						11						
3	E	F	E	F	F	F	F	F	F	E	F	F	11.38	6.45	4.93	41.4%	45.7%	103.9%	629.4	17489.
Ballastir	ng :	1 11535 T	ΓEP 4	- BALL	AST	EXCH	ANGE													
	E	F	F	F	F	F	F	F	F	F	F	F	12.42	7.70	4.72	34.3%	59.6%	114.6%	592	17489.
Deballa	sting:		TEP 5	- BALI	LAST	EXCH	ANGE	Ξ											22	
5	E	F	F		F	F	F	F	E	F	F	F	11.37	6.20	5.17	52.6%	84.9%	103.8%	646.3	19609.
Ballastir	ng:	_	TEP 6	BALL	AST E	EXCH	ANGE													
6		F	F	F	F	F	F	F	F	F	F	F	12.42	7.70	4.72	34.3%	59.6%	114.6%	592	19609.2
Deballas	sting :			_ 6	September 1		4 T									æ:				
7		F	F	-		F	- 1	Æ	F	F	F	F	11.37	6.20	5.17	52.7%	84.9%	103.8%	646.3	19609.2
Ballastin	g Wali		EP8-		_	***														
8 Nobellac	ting	F 10.1	F	F	F	F	F	F	F	F	F	F	12.42	7.70	4.72	34.3%	59.6%	114.6%	592	19609.2
Deballas 9	sung .	F.	S. P. P. S. Street, C.	-	-	EXC	- Table 1	_												
Ballastin		•	50%	F	F		F	F	F	F	50%	F	11.34	6.33	5.01	41.6%	68.3%	103.5%	635.9	18733.1
10	g	F. 5	TEP 1	F I			V (400 )													
Deballas	ting.	_	-		F	F	F	F	F	F	F	F	12.42	7.70	4.72	34.3%	59.6%	114.6%	592_	18733.1
4.4 100	TORSETTAND IN	50%	F	F		- 65	HAN			044400001		~ [	1							
Ballastin	manufacture and	11011122	TEP 12	-	F	F		F	F	50%	F	F	11.35	6.33	5.02	41.6%	68.4%	103.6%	636.5	18713.7
12	E	F	F	F	F	F			-1	- 1			T	T	- т					
Deballas	tina :	_					F	F	F	F	F	F	12.42	7.70	4.72	34.3%	59.6%	114.6%	592	18713.7
13	E	F	F	F	F	F	F	F	F	F	e i		14 50 1	044 1	64.1	na na 1	ALCONO SO I			
Ballastin	g		TEP 14						r	F	F	E	11.58	8.14	3.44	26.5%	42.9%	106.3%	533.3	2220.02
14	F	F	F	F	F	F	F	F.	F	F	F	e 1.	11 62 1	0 07 1	0 77	40 00/ T	T	in and	Logo P	
				-		- 1	- 1	-	г	r	r	F	11.63	8.87	2.77	43.0%	74.1%	106.9%	496.5	6291.5

## Notes:

1. The conditions of Step 0, 14 are the same.

The conditions of Step 2, 4, 6, 8, 10 and 12 are the same.

2. All conditions are made based on ballast Arrival Condition.

3. F indicates full filled. E indicates empty. xx% indicates xx% filled.

4. Visibility is the Invisible Distance according to SOLAS Visibility(Reg.22): Less than 500.00 m

## <u>Legend</u>

; Before Exchange

; Being Exchanged

: After Exchange