	NATIONAL SHIPPING ADJUSTERS INC.	I-NASHA-05
	QUALITY SYSTEM INSTRUCTIVE	Revision 01
NASHA		01/08/2021

INSTRUCTIVE FOR THE SURVEY AND ISSUANCE OF THE INTERNATIONAL LOAD LINES CERTIFICATE.

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	POSITION	DATE	SIGNATURE
PREPARED BY			
REVISED BY			
APPROVED BY			
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INSTRUCTIVE FOR THE SURVEY AND ISSUANCE OF THE INTERNATIONAL LOAD LINES CERTIFICATE.

2.0 OBJECTIVE

To establish an appropriate mechanism to accomplish and control systematically the surveys and completion of the corresponding reports and certificates.

3.0 **RESPONSIBILITY**

- 3.1 It is responsibility of the staff of Technical Department to assure that all procedures contained in this INSTRUCTIVE are fulfilled for the surveys and issuance International Load Lines Certificate.
- 3.2 It is responsibility of the staff of Technical Department to support in the monitoring for the compliance of the mechanisms for the surveys and issuance of the International Load Lines Certificate.
- 3.3 It is responsibility of the surveyors to comply with the procedure contained in this instructive when carrying out the surveys for the International Load Lines Certificate.

4.0 **DEFINITIONS**

- 4.1 **NASHA:** National Shipping Adjusters, Inc. is a Maritime Organization authorized to carry out surveys and Certification on behalf of Maritime Administration of Flag State. In some cases also it is identify as a Recognized Organization (RO) or Recognized Security Organization (RSO).
- 4.2 **Stand by**, to be waiting and ready to do something.
- 4.3 **Classification Rules**: They are referred to those issued by a classification society with which NASHA has signed contractual agreement for sharing such rules in ship surveys and certification activities.
- 4.4 **IMO**, International Maritime Organization: It is a specialized agency of the United Nations devoted to maritime matters.
- 4.5 **ILL-66/88 International Convention on Load Lines**, 1966 as modified by the 1988 Protocol and its amendments.
- 4.6 **Maritime Administration:** is the authority responsible to regulate all aspects related to the marine requirements of the flag.
- 4.7 **National Regulations:** Are those established by each Maritime Administration to implement IMO Regulations or to adopt standards not envisaged in International Conventions.

4.8 **APPLICABLE REGULATIONS**

4.8.1 The surveys of Load Lines will be carried out to ships according to the Article 4 of the ILL-66/88 Convention and its amendments, except for those ships indicated in Article 5.



- 4.8.2 The surveys of Load Lines will be carried out to determine that the ship complies with the applicable Requirements of ILL-66/88 Convention and its amendments.
- 4.8.3 Initial Surveys for the Load Lines will be carried out according to Article 14(1)(a).
- 4.8.4 Renewal Surveys for the Load Lines will be carried out according to Article 14(1)(b)
- 4.8.5 Annual Surveys for the Load Lines will be carried out according to Article 14(1)(c).
- 4.8.6 To the Surveys of Load Lines (initial or renewal) that reflects compliance with the requirements of ILL-66/88 and its amendments, NASHA will issue an International Load Lines Certificate according to the Article 16.
- 4.8.7 The validity of the statutory International Load Lines Certificate is in accordance to the Article 19.
 - 4.8.7.1 The validity of the Statutory International Load Lines Certificate will be five (5) years.

4.9 **TYPES OF SURVEYS**

- 4.9.1 Initial survey, first survey carried out by NASHA for the issuance of International Load Lines Certificate.
- 4.9.2 Surveys for renewal, should be carried out without exception at the expiration of the statutory International Load Lines Certificate.
- 4.9.3 Annual surveys, are carried out within the period of validity of the statutory International Load Lines Certificate to verify that: alterations have not been made to the hull or superstructures which would affect the calculations determining the position of the load lines; also to verify that the fittings and appliances for the protection of openings, guard rails, freeing ports and means of access to crew's quarters are maintained in an effective condition; as well as the freeboard marks are correctly and permanently indicated. Such inspection must be carried out in the period between three months before or three months after the anniversary date of the statutory International Load Lines Certificate, the one which must be endorsed by the surveyor after having completed satisfactorily the survey.

4.10 **TYPE AND VALIDITY OF CERTIFICATES:**

- 4.10.1 Interim Certificate, with maximum validity of five (5) months counted from the date of initial or renewal survey, it is issued by the surveyor to ship whose survey of Load Lines to his criteria, complies with all the requirements.
- 4.10.2 Conditional Certificate: (Short Term), is issued by the surveyor for no more than two (2) months upon proving in the survey carried out for the Load Lines, that the ship does not complies with some arrangements or requirements of the ILL-66/88 convention and its amendments, and not affecting the safety of its crew and the ship itself, and will proceeds according to the Procedure for Cases of Ships with Deficiencies P-RS-03.
- 4.10.3 Statutory International Load Lines Certificate (FULL-TERM), with a maximum validity according with items 4.8.7.1 of this instructive, is issued exclusively by the Head Office of NASHA, to ship whose inspection and survey demonstrates a satisfactory result.



4.11 SCOPE OF APPLICATION:

The content of this instructive will be applied to all ships of 24 meter length and above and ship with 150 gross tonnage and above on international, national or coastal voyages.

5.0 ACTIVITIES

5.1 PROCEDURE OF SURVEY FOR INTERNATIONAL LOAD LINES CERTIFICATE

5.1.1 GENERAL

Review documentation provided by NASHA Technical Staff as:

- Patent
- Pre-certification
- Inspector's Pate Checklist
- Respective naval documentation (plans, manuals and respective books)

Below is the information provided by NASHA's technical staff; where the information needed to perform the review in the correct manner is shown.

Check the consistency of all the information in all the respective documents corresponding to the type of certificate.

5.1.2 RULES APPLIED WHEN REVIEWING OR MAKING A NAVAL PLAN

- ISO 128-20:1996 (Technical drawings)
- COMDTINST M9000.6 (USCG Naval Engineering Manual, Chapter 085)
- ANSI/ASME Y14.2-2005 (Line Conventions and Lettering)
- ANSI/ASME Y14.5-2009 (Dimensions and Tolerancing)
- ANSI/ASME Y14.35M (Revision of Engineering Drawings and Associated Documents)
- MIL-STD-25 (Ship Structural Symbols for Use on Ship Drawings (See Note)) Note: Ship drawings shall comply with MIL-STD-25 except that steel symbol designations may conform to the current American Institute of Steel Construction (AISC) "Manual of Steel Construction."
- International Convention on Tonnage Measurement of Ships 1969
- International Convention on Load Line 1966



5.1.3 VERIFICATION OF THE PLAN



Points to check (Drawing):

- Verify the generalities of the ship which can be obtained from the checklist filled out by the inspector with the respective competence (length, beam, prop, etc.)
- Consistency of the views (consistency of the view from above, with lashings)
- Verify the length and location of the different accommodations which have to be congruent with those established in the certificate.
- Scale of the plan.
- Type of load, accommodations, superstructure, bulkheads, forecastle, engine room.
- Format of the plan which has to be in accordance with the norms mentioned in point 2 (Applied norms when revising or making a naval plan)
- Last revision of the corresponding plan.
- Verify if there are no structural modifications, which are not reflected in it, which will be taken from the checklist provided by the inspector with the relevant competence.

Points to check (Loading Line):



- Check the generalities of the ship: length, beam, draught, depth, prop, displacement, length of registration, length between perpendiculars.
- Check the type of floor of the ship (if it has wood,)
- Check the length and height of the superstructure, forecastle.

5.1.4 **REVISION OF THE CALCULATIONS**

When reviewing the calculations provided by the shipowner in accordance with the 1966 International Convention on Load Lines, the shipowner must comply with the generalities, restrictions and applicability established by the Convention.

		FREEBOARD	AND LO	AD LINE MAR	KS			
VESSEL'S NAME:	M/V TRADER E	XPRESS III	VESSEL'S TYPE:	В				
Information to be	provided (LOAD	D LINE 66/88)]		1	MOUL	DED DEP	TH TO UPPER DECK
Breadth: Depth: Depth with deck	12,19 4,57	[Mts.] [Mts.]	Taked to plan Taked to plan	е С	[FB:	536	According with table 28.2 / Rule 28.
plate Project Moulded Depth Δ;	4,5827 3,8845 1875	[Mts.] [Mts.] [M3.]	Taked to plan This depth is project depth. Salt Water Di	taken as minimun splacement (at 859 moulded depth)	% of project			
Lpp: Lenght: E1:	56,09 57,15 15,68	[Mts.] [Mts.] [Mts.]	Rule 3.1 Effective I	Length on superstru	ctures.(
Deck stringer thickness Coeficiente de	12,7	[mm.]	vessels Taked to plan.	with L< 100 Mts). R	ule 29			
Block (Cb) L/15	0,693 3,81	[Mts.]	Tipo:	1				
		Superstructures		9				
Superstructure	Length [Mts.]	Heigths(h) Rule 33/Table 33.1 [Mts.]	Enclosed Length (S) Rule 34-1	Effective Length (E)				
Fore Castle	· · · · · · · · · · · · · · · · · · ·	():						
Deck House	15,68	1,8	15,68	15,68				
roop		τοταί Σ	15,68	15,68				



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CORRECTIONS

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Correction	for Vessels wit	h L < 100 Mts.
Rule 29		
7.5 (100 - L) (0.35 - E1/L);	
Length:	24,31	[mm.]
Tipo	1	

Correction by Blo	ock Coefficient
Rule 30	
Cb:	1,01
Tipo	1

Correction for Depth						
Rule 31						
Correction:	92,772	[mm.]				
Tipo R	1					
	0					

Correction for Superstructure								
Reduction due complete superstructure 1L	375	[mm.]	(Rule 37)					
% Covered SS/L	0,274	[%]						
% Covered ΣE/L	0,274	[%]						
% Reduction	9,8	[%]	(Table 37.1)					
Deduction	36,75	[mm.]						

SHEER CORRECTION

SECTION	Standart Ordinate [mm]	Factor	Product	Existing Ordinate [mm]	Factor	Product	0.75-(Σs/2L)	
Fore Perpendicular	420	1	420	475	1	475		0,613
1/6 From F.P	137	3	411	211	3	633		
1/3 From F.P	45	3	135	53	3	159	e (w/a) ////////	
Amidship	0	1	0	0	1	0	3=(y/3)/(L/L)	
Sub Total		Σ1	966		Σ2	1267		9,51
Amidship	0	1	0	0	1	0		
1/6 From A.P	9	3	27	106	3	318	[(Σ5 - Σ6)/16)-S] · [0.7	5-(58/2)
1/3 From A.P	85	3	255	422	3	1266		0 (20,22
After Perpendicular	207	1	207	950	1	950	Correction Value	
Sub Total		Σ3	489		Σ4	2534	Correction value	84,0
Grand Total		$\Sigma_5 = \Sigma_{1+}\Sigma_3$	1455		$\Sigma 6 = \Sigma 2 + \Sigma 4$	3801		

RESULTS VALUES IN MM.						
From Freeboard Table 28.2	536	[mm.]				
Correction For Length	24,31	[mm.]				
Sub Total	560,31	[mm.]				
Freeboard included Block Coefficient Correction	565,6	[mm.]				
Correction For Depth	92,8	[mm.]				
Deduction For Superstructure	-36,75	[mm.]				
Correction For Sheer	84,0	[mm.]				
Sub Total	705,7	[mm.]				
Correction for Scantling	3877,0	[mm.]				
FREEBOARD VALUES						
Tropical Fresh	558	[mm.]				
Summer Fresh	632	[mm.]				
Tropical	625	[mm.]				
Summer	706	[mm.]				
Winter	786	[mm.]				
Winter North Atlantic		[mm.]				

DEDUCTION FOR FRESH WATER							
Displacement at Summer Freeboard	1988,6	[ton]					
Tons per cm Immersion at Summer LwI T1	6,74	[ton]/cm					
Deduction Value	74	[mm.]					
Draft: T at Summer Draft	3877	[mm.]					
Differences of Tropical and Winter freeboard	81	[mm.]					





The Plimsoll disc must be verified and recorded by the technical personnel who carried out the corresponding calculation. A very important point is that it must be considered with the data shown in the calculation and the proportions must be in accordance with regulation 5 of this agreement.

Example of the load line calculation provided by the shipowner to the corresponding company (NASHA), this must contain sufficient information to guarantee that it was performed in the correct manner according to the guidelines established by the International Convention on Load Line 1966.

The following guidelines should be checked in the document:

- Boat General (Rule 2 / Application and Rule 3 / Definitions)
- Corresponding Modules (draft, registration length, length between perpendiculars, etc.)
- The calculation provided by the shipowner shall be verified according to chapter III of the 1966 International Convention on Load Lines, which shall be comprised from rule 27 to rule 40.



5.1.5 **VERIFICATION**

The following steps are stipulated when verifying the tonnage calculations of a vessel, in order to verify its accuracy.

• Step #1

Export the PDF drawing (provided by the shipowner) corresponding to the AutoCad Program, which will allow us to take the measurements in a more precise and fast way.

After exporting the plan, it must be scaled according to the generality of the ship.

This will allow us to verify the registration length, length between perpendiculars, beam, distance and height of the superstructure, which are representative parameters when calculating the load lines.



• Step #2

After clarifying the ship's measurements to its real dimensions, they must be exported to the MaxSurf naval program.





• Step #3

After modelling the ship in the Maxsurf program, the analysis of the reports delivered by the program is carried out in order to compare the data obtained.



The results obtained will allow us to know the corresponding volumes of all the parts of the ship in order to corroborate that the values given in the calculation of tonnage supplied by the ship owner are correct.

• Step #4

After obtaining the volume data (MaxSurf), proceed to perform the cycle stipulated in point 5 (Calculation) of this manual.

5.1.6 **EXPLANATION**

The explanation presented in the manual of each rule is based on the author's interpretation in a summarized way, which will help the technician when interpreting the corresponding rule of the load line agreement. Note: It is recommended that the 1966 International Load Line Agreement be checked at all times.

Rule 27

We are presented with the type of boat "A" and "B"

- A type "A" ship is one designed to carry only liquid cargo in bulk, and in which the cargo tanks have only small access openings closed by lids of steel or other equivalent material.
- Type B vessels are all vessels which do not meet the conditions indicated for type "A" vessels

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In the case that the vessel is type B, the increase in the free on board must be verified, which must be in accordance with the information provided; this increase is tabulated_according to the length of the vessel.

Length ship (metres)	of	Freeboard increase (millimetres)	Length of ship (metres)	Freeboard increase (millimetres)	Length of ship (metres)	Freeboard increase (millimetres)
108	and	50	130	175	170	290
helow	anu	50	1.55	175	170	250
109		52	140	181	171	292
110		55	141	186	172	294
111		57	142	101	173	297
112		59	143	196	174	299
113		62	144	201	175	301
114		64	145	206	176	304
115		68	146	210	177	306
116		70	147	215	178	308
117		73	148	219	179	311
118		76	149	224	180	313
119		80	150	228	181	315
120		84	151	232	182	318
121		87	152	236	183	320
122		91	153	240	184	322
123		95	154	244	185	325
124		99	155	247	186	327
125		103	156	251	187	329
126		108	157	254	188	332
127		112	158	258	189	334
128		116	159	261	190	336
129		121	160	264	191	339
130		126	161	267	192	341
131		131	162	270	193	343
132		136	163	272	194	346
133		142	164	275	195	348
134		147	165	278	196	350
135		153	166	280	197	353
136		159	167	283	198	355
137		164	168	285	199	357
138		170	169	287	200	358

Rule 28

The tabular freeboard is shown, which must have all the ship's dimensions depending on the type "A" and "B", which will depend on the length of the ship.

Note: This freeboard is defined as an ideal reference for the ship, which has no correction of any kind.



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Length of ship (metres)	Freeboard (millimetres)	Length of ship (metres)	Freeboard (millimetres)	Length of ship (metres)	Freeboard (millimetres)
24	200	60	573	96	1074
25	208	61	587	97	1089
26	217	62	600	98	1105
27	225	63	613	99	1120
28	233	64	626	100	1135
29	242	65	639	101	1151
30	250	66	653	102	1166
31	258	67	666	103	1181
32	267	68	680	104	1196
33	275	69	693	105	1212
34	283	70	706	106	1228
35	292	71	720	107	1244
36	300	72	733	108	1260
37	308	73	746	109	1276
38	316	74	760	110	1293
39	325	75	773	111	1309
40	334	76	786	112	1326
41	344	77	800	113	1342
42	354	78	814	114	1359
43	364	79	828	115	1376
44	374	80	841	116	1392
45	385	81	855	117	1409
46	396	82	869	118	1426
47	408	83	883	119	1442
48	420	84	897	120	1459
49	432	85	911	121	1476
50	443	86	926	122	1494
51	455	87	940	123	1511
52	467	88	955	124	1528
53	478	89	969	125	1546
54	490	90	984	126	1563
55	503	91	999	127	1580
56	516	92	1014	128	1598
57	530	93	1029	129	1615
58	544	94	1044	130	1632
59	559	95	1059	131	1650

Freeboard Table for Type 'A' Ships



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Table B

Freeboard	Table for	Type	'B' Ships
-----------	-----------	------	-----------

Length of ship (metres)	Freeboard (millimetres)	Length of ship (metres)	Freeboard (millimetres)	Length of ship (metres)	Freeboard (millimetres)
24	200	48	420	72	754
25	208	49	432	73	769
26	217	50	443	74	784
27	225	51	455	75	800
28	233	52	467	76	816
29	242	53	478	77	833
30	250	54	490	78	850
31	258	55	503	79	868
32	267	56	516	80	887
33	275	57	530	81	905
34	283	58	544	82	923
35	292	59	559	83	942
36	300	60	573	84	960
37	308	61	587	85	978
38	316	62	601	86	996
39	325	63	615	87	1015
40	334	64	629	88	1034
41	344	65	644	89	1054
42	354	66	659	90	1075
43	364	67	674	91	1096
44	374	68	689	92	1116
45	385	69	705	93	1135
46	396	70	721	94	1154
47	408	71	738	95	1172

Rule 29

Freeboard correction for busses less than 100 m in length Note: This freeboard correction will be made to type "B" boats, with a length of less than 100 m. Equation : 7,5 (100 - L) (0,35 - E/L) millimetres

• A very important parameter is the E coefficient (effective length of the superstructure, which is explained in rule 35 of the manual and the convention)



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<u>Rule 31</u>

In this rule we are shown the correction of the block coefficient, which will have as reference 0.68 (as we know the block coefficient is an adimencianl value that refers to the shape of the boat, the closer to 1 is the coefficient its shape will be similar to a cube)

Note: For the verification of the block coefficient we will use the help of the Naval MaxSurf program which allows us to obtain this data in a precise way.

Equation: $(C_b + 0.68)/1.36$

• This factor will be multiplied if the block coefficient is greater than 0.68 (block coefficient).

Rule 31

This point refers to the correction per prop which must be multiplied, as long as the prop exceeds this ratio L/15, (L= length of the boat).

Rule 32

When the actual prop of the vessel is greater or less than the height of the deck line, it shall be added to or subtracted from the ship's harness respectively.

Note: As we know the prop is defined as the distance measured from the keel to the deck, in the case that the deck is not completely straight (curved downwards or upwards) this difference must be added to or subtracted from the prop established by definition.

Rule 33

This point refers to the normal height of the superstructure, which will be a function of the length of the boat.

Standard Height (in metres)

L (metres)	Raised Quarter Deck	All other Superstructures
30 or less	0,90	1,80
75	1,20	1,80
125 or more	1,80	2,30

Rule 34

This point refers to how the longevity of the superstructure should be taken. Note: this length must be taken by separating the super structure and the forecastle (in such a case that the ship has one).

Rule 35

This point refers to the effective length of the superstructure, which is restricted by the type of superstructure the ship has

- Super structure of normal height removed from the sides of the ship.
- Super structure which has a width that is equal to the beam in the given reference point.

Rule 37

Correction of the fringe on board by the effect of the corrspondent super structure.

Note: this point is dictated by the respective vessel type, but a very important point is that these calculations must be made with the effective length of the superstructure.



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Percentage of Deduction for Type "A" ships

	Tota	fotal Effective Length of Superstructures and Trunks									
	0	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	1.0 L
Percentage of deduction for all types of superstructures	0	7	14	21	31	41	52	63	75,3	87,7	100

Percentage of Deduction for Type "B" ships

			Te	otal Eff	ective I	ength o	of Super	rstructu	res and	Trunks			
		Line	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
				L	L	L	L	L	L	L	L	L	L
Ships forecastle without detached bridge	with and	I	0	5	10	15	23,5	32	46	63	75,3	87,7	100
Ships forecastle detached bridge	with and	п	0	6,3	12,7	19	27,5	36	46	63	75,3	87,7	100

Rule 38

This point refers to the correction by the boat's wreck. A very relevant point is that it must be placed in a tabular way (table shown in this rule) and in a real way which must be presented by a mathematical model, for which MaxSurf (structural module) will be used.

Next, the tables are shown (Theoretical map)

	Station	Ordinate (in mm)	Factor
Forward half	Amidships	0	1
	1/3 L from F.P	5,6 (L/3 + 10)	3
	1/6 L from F.P	22,2 (L/3 + 10)	3
	Forward Perpendicular	50 (L/3 + 10)	1

	Station	Ordinate (in mm)	Factor
After half	After Perpendicular	25 (L/3 + 10)	1
	1/6 L from A.P.	11,1 (L/3 + 10)	3
	1/3 L from A.P.	2,8 (L/3 + 10)	3
	Amidships	0	1

Rule 39

This point refers to the minimum height of the bow as a function of the length, and the respective block coefficient

Note: This check must be performed with the help of the following programs.

- Autocad
- MaxSurf

<u>Rule 40</u>

At this point we show the minimum summer freeboard that we have to obtain which is the arithmetic sum of all the corrections mentioned above, a very important point is that to obtain the minimum freeboard must be obtained by data obtained at draught (summer freeboard), to obtain the same Maxsurf will be used as a means of analysis.



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Hy	Jensel and the set DIA/I			1
	Mosqueromont	Makua	×	
	1 Displacement	375.864	tonne	
	2 Volume	366 697	m^3	
	3 Draft to Baseline	2.97	m	
	Immersed depth	2.97	m	
	5 LWI	26,792	m	
	6 Beam wl	6.852	m	
	WSA	263.856	m^2	
	Max cross s area	18.785	m^2	
9	Waterplane area	148.505	m^2	
	0 Cp	0.729		
	1 Cb	0.673		N'S
	2 Cm	0.924		204
	3 Cwp	0.809		44
1	4 LCB from zero pt	-13.964	m	
1	5 LCF from zero pt	-14.247	m 88	SAL
	6 KB	1.621	m RXX	4+
1	7 KG	0	m BAAC	1
1	8 BMt	1.247	m diff	
	9 BMI	18.592	m	
2	0 GMt	2.868	m 🧃	
2	1 GMI	20.212	m	
2	2 KMt	2.868	m	
2	3 KMI	20.212	m	
2	4 Immersion (TPc)	1.522	tonne/cm	
2	5 MTc	2.832	tonne.m	
2	RM at 1deg = GMt.Di	18.812	tonne.m	
2	7 Precision	Medium	50 station	

5.2 **PROCEDURE FOR CERTIFICATION OF INTERNATIONAL LOAD LINES**

Surveyor

- 5.2.1 Adjusts the certification of Load Lines to the Procedure for the Survey and Interim Certification P-RS-01 and will include the specific instructions of this instructive.
- 5.2.2 Issues an interim certificate LL-IC whose validity in no case will exceed five (5) months counted from the date of concluding the initial or renewal. Load Lines survey and satisfy the requirements of the ILL-66/88 Convention and its amendments on the contrary will proceed with item 5.2.3.
- 5.2.3 Issues a conditional certificate LL-IC (Short Term) whose validity will not exceed two (2) months from the date of the survey of Load Lines to ships with deficiency remarks that do not affect the safety of the ship and according with the Procedure for Ships with Deficiencies P-RS-03.

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'echnical Director	5.2.4	Contacts to the ship owner/operator of the Ship when noti was found with deficiencies that do not affect the safety inform the port in which is possible to coordinate a furthe indicated deficiencies.	fied by the surveyor that the of the same, with the purpos er visit to verify correction of	
urveyor	5.2.5	Only upon receiving authorization from NASHA Technica item 5.2.3 to issue an interim certificate LL-IC, with va complete the five (5) months from the survey date if the no	al Director proceeds when app alidity of an additional perio ted deficiencies were rectified	
'echnical Director	5.2.6	Coordinates with the concerned Maritime Administration validity of the LL-IC (short term) a maximum of two (owner/operator/Captain of the Ship with deficiencies, req reasons.	the possibility for extending (2) additional months if the uests additional time by justi	
	5.2.7	Issues a International Load Lines Certificate LL, who established period in items 4.8.7.1 of this instructive to all the general procedures and what is indicated in this instruct	se validity will not exceed Load Lines surveys that satistive.	
Surveyor	5.2.8	Endorses the International Load Lines Certificate LL in satisfactory annual Load Line Survey.	the section Annual Survey	
5.2.9	Endorses the International Load Lines Certificate LL, applying Articles 19(8)(c), 19(3), 19(4), 19(5), 19(6), 19(8)	in the appropriate section w		
	5.2.10	Complies with the Procedure for the Survey and Interim the notification via fax or e-mail to Technical Department endorsement of the full term International Load Lines Certi	Certification P-RS-01 concert of the issued interim certification ficate.	
	5.2.11	All the information of the Load Line survey will be evapproved by head office.	aluate by a Naval Architect	
5.3	PROC	CEDURE FOR FREEBOARD CALCULATION		
Surveyor	5.3.1	In case of calculate the freeboard is necessary the following of	documents:	
Surveyor	5.3.1 5.3.2	Copy of General Arrangement Plan Hydrostatic Tables		
	This	document will be evaluated by a Naval Architect / Head offic	е.	
	5.3.2	In case the freeboard calculation was done by the Naval Shipping Adjusters, the freeboard calculation will be approve	Architect approved by National Architect approved by the head off	
5.4	PROC	EDURE FOR INCREASE DEADWEIGHT / DRAFT		
	5.4.1	In case of increase deadweight / draft is necessary approved 5.4.1.1 Stability booklet 5.4.1.2 Freeboard calculation 5.4.1.3 ITC certificate 5.4.1.4 LL certificate 5.4.1.5 Tonnage calculation	the following documents:	

5.4.1.6 Grain booklet

×	NATIONAL SHIPPING ADJUSTERS INC.	I-NASHA-05
NASHA		Revision 01
	QUALITY SYSTEM INSTRUCTIVE	01/08/2021

This document will be evaluated by a Naval Architect / Head office.

6.0 RECORD OF INFORMATION

- 6.1 Request of Survey
- 6.2 Quotation
- 6.3 Approval/ Acceptance of survey
- 6.4 Authorization for survey
- 6.5 Reports and Records of surveys for Load Lines LL-SR, LL-RA
- 6.6 Interim Certificate LL-IC
- 6.7 Control of Documentation
- 6.8 Statutory International Load Lines Certificate LL/PA.

7.0 CRITERIA FOR EVALUATION

The Control of Documentation form will be used to verify and evaluate the procedures and stages that have been executed pursuant to the established requirements.

7.1 ACCORDANT PROCEDURE

When the survey and Certification procedure has been fulfilled completely, the Control of Documentation form will be filled together with all the respective documentation in the vessel file.

7.2 NOT ACCORDANT PROCEDURE

When the survey and Certification procedure does not fulfill some of the demanded requirements, the documentation that has been received and the Control of Documentation form, will be maintained on standby until requirements are fulfill, according to the Review Procedure, Full Term Certificate and Endorsement P-RS-02.

8.0 RELATED DOCUMENTATION

8.1	P-RS-01	Procedure for the Survey and Interim Certification
8.2	P-RS-02	Review Procedure, Full Term Certificate and Endorsement
8.3	P-RS-03	Procedure for Cases of Ships with Deficiencies
8.4	Documents o	f External Support (IMO, ILO, Administrations)

9.0 **REFERENCE**

9.1 P-RS-01 Procedure for the Survey and Interim Certifie	cation
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- 9.2 P-RS-02 Review Procedure, Full Term Certificate and Endorsement
- 9.3 P-RS-03 Procedure for Cases of Ships with Deficiencies