

# "MAEVE ANNE"

# STABILITY AND STRENGTH ASSESSMENT FOR OPERATION WITH KOBELCO CKE 2500 CRANE



# DOMESTIC COMMERCIAL VESSEL Accredited Surveyor Plan and Stability Approval

# APPROVED

The undersigned surveyor declares that they have examined the document to which this stamp is affixed in accordance with the requirements of the Marine Safety (Domestic Commercial Vessel) National Law Act 2012 and found it to satisfy the requirements to be approved.

Accredited Surveyor

Name:

ID:

Signatur

...... Date ....14/7/2015...

37 pages

#### Prepared By:

Report No:

Issue Date:

G.A. Glanville & Co. (Naval Architects) Pty Ltd P.O. Box 642 CAIRNS QLD 4870

R2896(01) Rev. A

14<sup>th</sup> July, 2015

#### Prepared For:

Brady Marine & Civil PO Box 5338 WEST END QLD 4101



# G.A. GLANVILLE & CO. (NAVAL ARCHITECTS) PTY LTD

277 Little Spence Street P.O. Box 642, CAIRNS QLD 4870

Telephone Number: (07) 40 351 488 Facsimile Number: (07) 40 351 403

Email: admin@gaglanville.com

Report Title:	"MAEVE ANNE" - Stability and Strength Assessment for operation with Kobelco CKE 2500 Crane
Report No:	R2896(01) Rev. A
Issue Date:	14 <sup>th</sup> July, 2015

Client:	Brady Marine & Civil
Client Address:	PO Box 5338 WEST END QLD 4101
Client Contact:	
Client Reference:	-

Prepared By:	14/07/2015
Checked By:	14/07/2015
Approved By:	14/07/2015

		REVISIONS		
Revision	Issue Date	Comment	Prepared By	Approved By
Α	14/07/2015	Original	TL	DGB



# **CONTENTS**

	<u>P</u>	<u>age</u>
1.0	Introduction	1
2.0	References	2
3.0	Barge Particulars	3
4.0	Classification Notation	5
5.0	Loading Arrangement	6
6.0	Deck Strength	7
7.0	Stability	8
8.0	Conclusions	9
ANNE	XES	
Annex Annex Annex Annex Annex	EB - Intact Stability Condition  CC - Deck Frame Details  Dwg SK-04-S-0020 Rev 1  Dwg SK-04-S-0042 Rev 3  ED - Dwg 2328/01 – Crane Pad Modifications	



## 1.0 INTRODUCTION

- 1.1 This report contains a summary of the calculations made to assess the suitability of the dumb barge MAEVE ANNE (Ex Steel Constructor) to be loaded with a Kobelco CKE 2500 crane for smooth water operations.
- **1.2** The scope of this report is as follows:
  - Assessment of the suitability of the deck structure of MAEVE ANNE for the crane loads during crane operations in smooth waters.
  - b) Assessment of the intact stability of the vessel during crane operation.
- **1.3** Assessment of the proposed operations with the crane, and assessment of the suitability of the crane for the proposed operations is beyond the scope of this report.
- **1.4** Assessment of the crane loading and unloading arrangements onto the barge is beyond the scope of this report.
- **1.5** Assessment of the securing arrangements for the crane is outside the scope of this report.



## 2.0 REFERENCES

- 2.0 "STEEL CONSTRUCTOR" Trim and Stability Booklet prepared by G.A. Glanville & Co. Report R1350(02) Rev. A dated 8/4/2003.
- 2.1 National Standard for Commercial Vessels.
- 2.2 ABS Rules for building and Classing Steel Barges 2003.
- **2.3** G.A. Glanville & Co. Report R2328(01) Rev. A "MAEVE ANNE Stability and Strength for Operation with Kobelco CKE2500 Crane" dated 22<sup>nd</sup> November 2010.
- 2.4 Rules and Regulations for the Classification of Ships, Lloyd's Register of Shipping, July 2004.
- 2.5 Design of Marine Facilities for the Berthing, Mooring and Repair of Vessels, John W Gaythwaite, 2004.
- **2.6** Brady Marine and Civil Drawing: Port Macquarie Bypass Barge Maeve Anne General Arrangement Rev. 1 dated 16/06/2015.



#### 3.0 BARGE PARTICULARS

#### 3.1 Principal Dimensions

Length48.00metresBreadth24.00metresDepth2.20metres

Frame Spacing: 2.40 metres throughout

#### 3.2 Deck Structure

Note: The deck of the barge is reinforced for heavy equipment in the area FR 12-20 over the

centre of the vessel. See diagram on page 4.

Material - Grade 250 Mild Steel

Plating - 20 mm Fr 12-20 between longitudinal bulkheads, 8mm else where

Transverse Framing - 350 x 8 web, 130 x 10 FL FR 1 to 12

- 545 x 10 web, 150 x 20 FL FR 13 to 19 between longitudinal

bulkheads

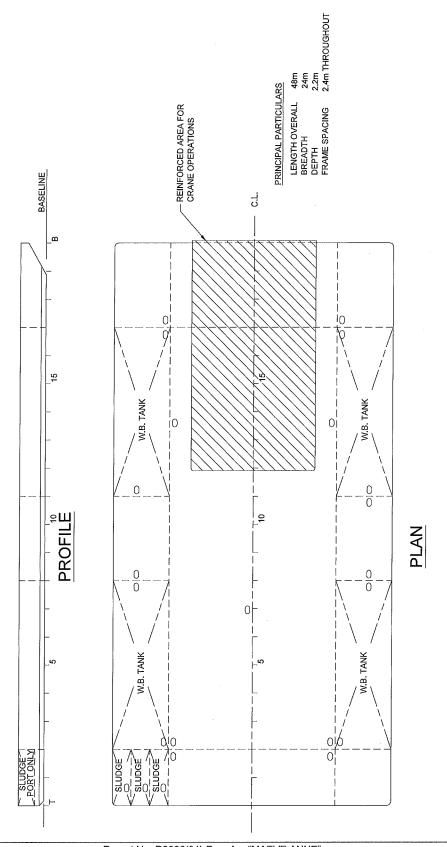
Longitudinal Framing - 127 x 76 x 8L at 800 spacing nom.

#### 3.3 Typical Frame

Typical frame details in way of the crane are shown on drawings SK-014-S-0020 and SK-04-S-0042 shown at Annex C.



## 3.4 Principal Dimensions Diagram



Report No. R2896(01) Rev. A ■ "MAEVE ANNE" ■ Stability and Strength Assessment for Operation with Kobelco CKE 2500 Crane

Date of Issue: 14th July, 2015



## 4.0 CLASSIFICATION NOTATION

Lloyds Register

+100A1 - Barge Pontoon

Service Restriction

Extended protected water service. Service in protected waters and

short distances (less than 15 nm) beyond protected waters in

reasonable weather.

Loadline Assignment

Lloyds Register have assigned loadline based on a previous scantling assessment for maximum draft of 1300 mm. A lesser freeboard would be acceptable geometrically, but would incur a review of scantlings for

the increased draft.



## 5.0 LOADING ARRANGEMENT

- 5.1 The crane is to be loaded onto the barge using ramps, at the bow of the vessel (note the suitability and adequacy of the ramps and crane loading arrangement is outside the scope of this report).
- 5.2 The crane will only crawl along the centerline of the vessel between frames 11 to 19 on crane mats (see dwg 2328/01 at Annex D).
- **5.3** The deck loads shall be adjusted to ensure that the vessel maintains close to level heel and trim. See loading conditions at Annex B.



#### 6.0 DECK STRENGTH

- 6.1 The strength of the main deck has been assessed for the loads from a Kobelco CKE 2500 crawler crane with a 48m long boom and 90 tonnes of counterweights fitted (total crane weight = 221 tonnes). The particulars for the crane are given in Annex A.
- **6.2** The load scenarios considered in this analysis are as follows:
  - a) The crane lifting 40 t @ 15 m over the side of the barge (lifting moment = 600 t.m).
  - b) The crane slewing over the side of the barge with no lift.
- **6.3** The adequacy of stiffening and pillars have been assessed to ABS requirements with the following assumptions.
  - a) The crane operates along the centerline of the barge only with the tracks parallel to the centerline at all times.
  - b) All deck plating and stiffening is assumed to be grade 250 mild steel.
  - c) The crane tracks are assumed to distribute weight evenly over a minimum of 3 main deck frames.
  - d) Maximum lifting moment is assumed to be 75% of the tipping moment for lifts over the side of the barge.
  - e) The crane is a Kobelco CKE 2500 fitted with 90 tonnes of counterweight and a 48 metre long boom total weight 221 tonnes.
  - Additional pillars at FR 13, 15 & 18 i.a.w dwg 2328/01 at Annex D have been fitted to the vessel.
- **6.4** The maximum compressive load per deck frame is estimated to be 65 tonnes when the body is slewed outboard lifting 40 tonnes at 15 metres.
- **6.5** Table 1 summarises the deck strength to ABS (Ref 2.3) requirements based on the assumptions in 6.3.

Item	Influencing Load	Requirement	Actual	Comment
FR 12, 13, 14, 15, 16 & 18 Pillar 200 x 9 SHS	Crane lifting over side	Allowable Load = 80 tonnes	Actual Load = 48 tonnes	Complies with ABS requirements
Deck & Bottom transverse frames	Crane lifting over side	σ <sub>all</sub> = 139 MPa	σ <sub>actual</sub> = 91 MPa	Complies with ABS requirements

Table 1 - Deck Structure to ABS Requirements

**6.6** Note that it is critical that both crane tracks remain parallel to the centerline and over the crane mats when the crane is slewed.



# 7.0 STABILITY

- **7.1** The intact stability of the vessel has been determined using the lightship particulars from Ref. 2.1 and the proposed loading configuration at Annex B.
- 7.2 The intact stability of the vessel during crane operations is shown to comply with NSCV requirements Part C Section 6, Subsection 6A Category 5D (Ref 2.2) in the loading condition shown at Annex B.
- 7.3 Datums used in the stability analysis are as follows:

Longitudinal

+ve fwd of midships (FR 10)

Vertical

+ve above baseline (underside of keel)

Transverse

+ve to starboard



## 8.0 CONCLUSIONS

- **8.1** For the operation of a Kobelco CKE 2500 crane on the barge Maeve Anne in smooth waters, the following conclusions are made.
  - The intact stability of the vessel in the proposed loading configuration complies with NSCV requirements.
  - b) The local deck strength is adequate for the crane loads during operation and lifting as well as during transit, in smooth waters.

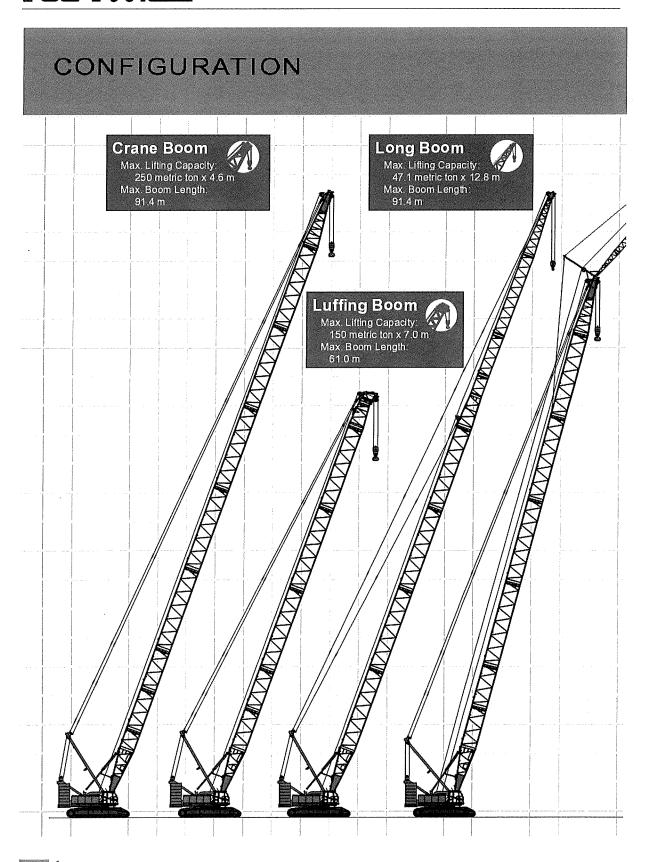


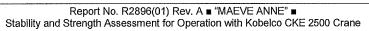
# ANNEX A KOBELCO CKE 2500 PARTICULARS



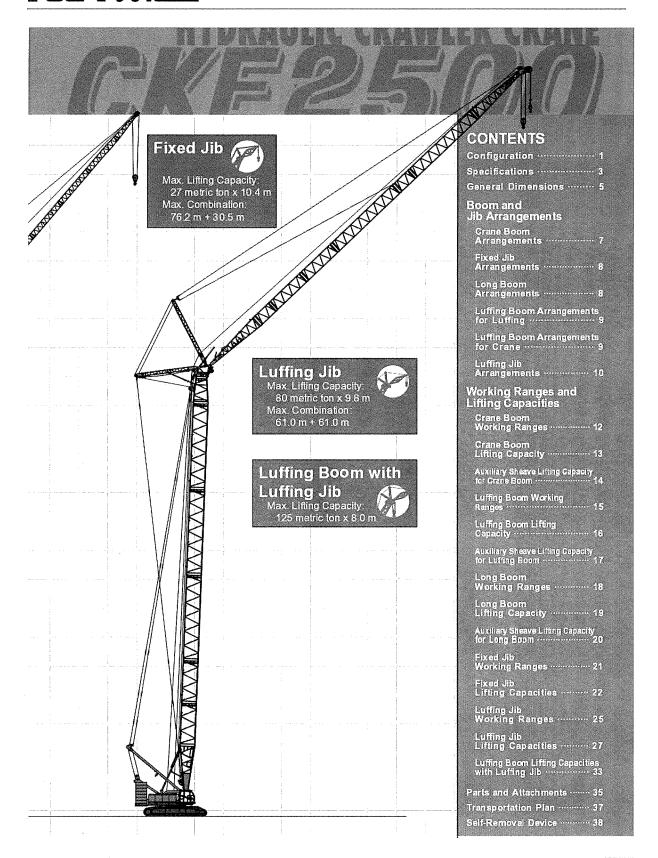
Max. Lifting Capacity: 250 t x 4.6 m Max. Crane Boom Length: 91.4 m Max. Fixed Jib Combination: 76.2 + 30.5 m Max. Luffing Jib Combination: 61.0 + 61.0 m







# **#GLANVILLE**



2





# SPECIFICATIONS



#### **Power Plant**

Model: Hino diesel engine P11C-UN

Type:Water-cooled, direct fuel injection, with turbocharger Compiles with NRMM (Europe) Stage IIIA and US EPA Tier III.

Displacement: 10.520 liters

Rated Power:247 kW/2,000 min-1 (rpm) (ISO) Max. torque: 1,300 N·m/1,500 min-1 Cooling system: Liquid, recirculating bypass

Starter: 24 V/6.0 kW

Radiator: Corrugated type core, thermostatically controlled Air cleaner. Dry type with replaceable paper element Throttle: Electric throttle control, twist grip type Fuel filter: Replaceable paper element

Batteries: Two 12V, 170Ah/20HR capacity batteries, series con-

nected.

Fuel tank capacity: 400 liters



#### **Hydraulic System**

Four variable displacement piston pumps are driven by heavyduty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit auxiliary hook hoist circuit lib hoist circuit and each propel circuit. One of the other two pumps is used in the boom hoist circuit, and the other is used In the swing circuit.

Control: Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist drum and propel. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type) Filtration: Full-flow and bypass type with replaceable element Electrical system: All wiring corded for easy servicing, individual fused branch circuits.

### Max. relief valve pressure:

Load hoist, boom hoist and propel system:

31.9 MPa {325 kgf/cm²}

Swing system: 27.5 MPa {280 kgf/cm²} Control system: 5.4 MPa {55 kgf/cm²}

Reservoir capacity: 600 liters



#### **Boom Hoisting System**

Powered by a hydraulic motor through a planetary reducer. Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.

Drum lock: External ratchet for locking drum.

Drum: Double drum, grooved for 26 mm dia. wire rope.

Line speed: Double line on first drum layer Hoisting/Lowering: 22 to 2 m/min x 2

#### Diameter of wire ropes

Boom guy line: 38 mm

Boom hoist reeving: 16 parts of 26 mm dia.high strength

wire rope

Boom backstops: Required for all boom lengths



#### **Load Hoist System**

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers. Negative Brake: A spring-set, hydraulically released multipledisc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional item.)

Drum lock: External ratchet for locking drum.

#### Drums:

#### Front drum:

617.1 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 480 m working length and 600 m storage length.

#### Rear drum:

617.4 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 390 m working length and 600 m storage length.

Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.

Line speed: Single line on the first drum layer

Hoisting/Lowering: 110 to 3 m/min

Line Pull (Single-line):

Rated line pull: 132 kN {13.5 tf}



#### Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 sets), the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation Swing speed: 2.2 min<sup>-1</sup> (rpm)



#### **Upper Structure**

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level. Complies with EC Directive 2000/14/EC.

Counterweight: 90.0 ton

# **#GLANVILLE**





#### Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (roof and front window).

#### Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

#### Controls:

Four adjustable levers for front drum, rear drum, boom drum and swing controls, and boom hoist pedal.



#### **Lower Structure**

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

#### Carbody weight: 24.0 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

**Crawler brakes:** Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoes (flat): 68 shoes, 1,220 mm wide each crawler (Optional 1,330 mm shoe is availavle)

Max. travel speed: 1.1/0.7 km/h Max. gradeability: 30%



#### Weight

Including upper and lower machine, 90.0 ton counterweight and 24.0 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

 Specification
 Weight
 Ground pressure

 Crane boom
 Approx. 213 ton, 108.4 kPa {1.11 kgf/cm²}

 Fixed jib
 Approx. 214 ton, 108.9 kPa {1.11 kgf/cm²}

 Luffing jib
 Approx. 222 ton, 113.0 kPa {1.15 kgf/cm²}



#### Attachment

#### Boom and Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

#### Boom and Jib Length

	Min. Length	Max. Length	
	(Min. Combination)	(Max. Combination)	
Crane Boom	15.2 m	91.4 m	
Luffing Boom	15.2 m	61.0 m	
Long Boom	64.0 m	91.4 m	
Fixed Jib	27.4 m + 12.2 m	76.2 m + 30.5 m	
Luffing Jib	21.3 m + 21.3 m	61.0 m + 61.0 m	

### Main Specifications (Model: CKE2500-2)

Crane Boom	
Max. Lifting Capacity	250 t/4,6 m
Max. Length	91.4 m
Luffing Boom	
Max. Lifting Capacity	150 t/7.0 m
Max. Length	61.0 m
Long Boom	
Max. Lifting Capacity	47.1 t/12.8 m
Max. Length	91.4 m
Fixed Jib	tan, a
Max. Lifting Capacity	27 t/10.4 m
Max. Length	30.5 m
Max. Combination	76.2 m + 30.5 m
Luffing Jib	and the second second second
Max. Lifting Capacity	80 t/9.8 m
Jib Length	21.3m ~ 61.0 m
Max. Combination	61.0 m + 61.0 m
Luffing Angle	63' ~ 88'
Main & Aux. Winch	
Max. Line Speed	110 m/min (1st layer)
Rated Line Pull (Single Line)	132 kN {13.5 tf}
Wire Rope Diameter	25 mm
Wire Rope Length	480 m (Main) 390 m (Aux.)
Brake Type	Spring set hydraulically released (Negative)
Free-Fall Brake Type	Wet-type multiple disc brake (Optional)

Working Speed	2
Swing Speed	2.2 min-1 {2.2 rpm}
Travel Speed	1.1/0.7 km/h
Power Plant	•
Model	Hino P11C-UN
Engine Output	247 kW/2,000 min-1 {rpm}
Fuel Tank Capacity	400 liters
Hydraulic System	. 6.
Main Pumps	4 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm²}
Hydraulic Tank Capacity	600 liters
Self-Removal Device	Standard
Weight	
Operating Weight*	Approx. 213 t
Ground Pressure*	108.4 kPa {1.11 kgf/cm³}
Counterweight	90.0 t (Upper), 24.0 t (Lower)
Transport Weight**	Approx. 44.9 t

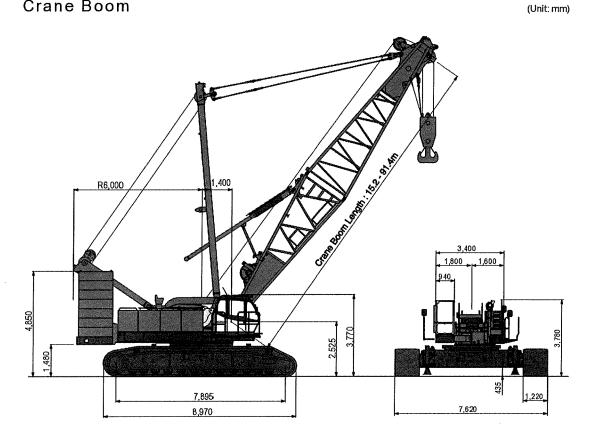
Including upper and lower machine, 90.0 ton counterweight and 24.0 ton carbody weight, basic boom, hook, and other accessories.
 Base machine with trans-lifter, main and aux, winches (non-free fall) including

Base machine with trans-lifter, main and aux, winches (non-free fall) including wire rope, and boom hoist winch including wire rope.
Units are SI units. (§) Indicates conventional units.

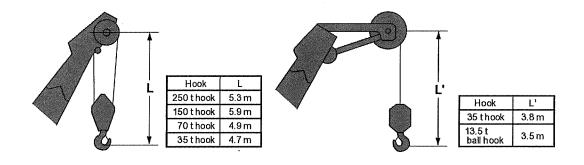


# GENERAL DIMENSIONS

Crane Boom



# Limit of Hook Lifting

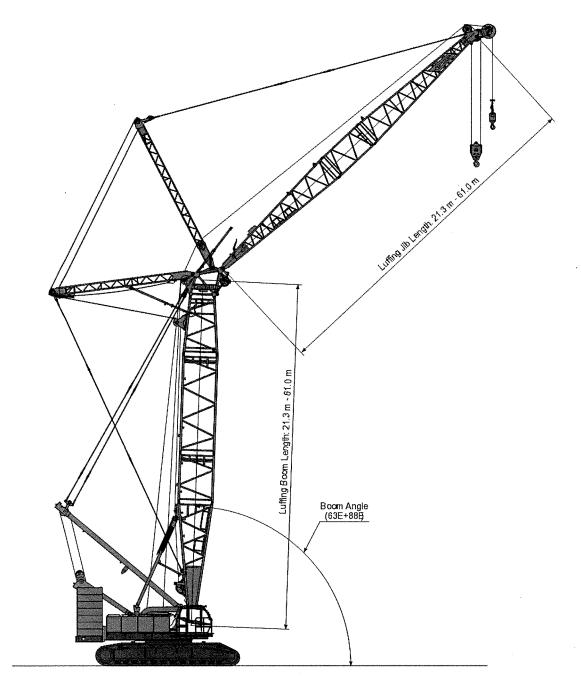






Luffing Jib

(Unit mm)





# **BOOM AND JIB ARRANGEMENTS**

# Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
15.2 (50)	
18.3 (60)	
21.3 (70)	* a 1010F
24.4 (80)	<b>★</b> = £ 10 20 }
27.4 (90)	* IN D
30.5 (100)	* 0 100 20 20 10 0 100 40 17
33.5 (110)	# E1010 20 1 20 17 E11010 40 17
36.6 (120)	* = 10 20 40 T
39.6 (130)	# E 10 10 20 40 T
42.7 (140)	* = 10 20 20 40 F
45.7 (150)	* a 10 10 20 20 40 F
48.8 (160)	<b>★</b> = 10 20 40 40 →
51.8 (170)	# E[10] 20 40 40 E

Symbol	Boom Length	Remarks
	7.6 m	Boom Base
	7.6 m	Boom Top
10	3.0 m	Insert Boom
20	6.1 m	Insert Boom
40	12.2 m	Insert Boom

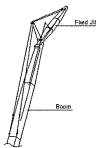
Boom length m (ff)	Boom arrangement
54.9 (180)	# U 10 20 20 40 40 T
57.9 (190)	# I[10 10  20   20   40   40   17   17   17   17   17   17   17   1
61.0 (200)	<b>★ a</b> [10] 20] 40
64.0 (210)	# 5 10 10 20 40 40 40 17  6 40 40 40 40 40 17
67.1 (220)	# 10 20 20 40 40 40 T
70.1 (230)	# Uff010 20 20 40 40 40 T
73.2 (240)	# E[10] 20 40 40 40 E
76.2 (250)	# \$\overline{\ov
79.3 (260)	# E[10] 20 20 40 40 40 10 F
82.3 (270)	\$\begin{array}{c c c c c c c c c c c c c c c c c c c
85.3 (280)	# 6 10 20 40 40 40 40 F
88.4 (290)	# 5 10 10 20 40 40 40 40 40 F
91.4 (300)	€[10] 20   40   40   40   40   10   10

mark shows the guy line installing position when the fixed jib is used.

兼 mark shows the standard crane boom arrangement which enables each boom length of less than that boom length to be configured.



# Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
	12.2 (40)	
27.4 m	18.3 (60)	
76.2 m	24.4 (80)	Eliol 20 LO II
	30.5 (100)	

Symbol	Jib Length	Remarks
<b>=1</b>	4.6 m	Jib Base
	4,6 m	Jib Top
CIE	3,0 m	Insert Jib
Call	6.1 m	Insert Jib

# Long Boom Arrangements

Boom length m (ft)	Boom arrangement
040 (040)	B 10 30 30 40 40 1E 1694 17
64.0 (210)	E 10 40 40 TE 10H
67.1 (220)	B 20 40 40 TB T6/4 OT
70.1 (230)	<b>■ 10 20 40 40 40 10 18 MM</b> → JT
	₩ _ [10]10 20 40 40 40 11 10H >>)T
73.2 (240)	E 20 20 40 40 TE MIN 17
	E 40 40 40 10 16 1021 →17
	₩ — [10]10 20 40 40 40 1E.RUMIN
76.2 (250)	# 20 20 40 40 40 10 10 104161 9JT
	₽ 40 40 40 40 TR_DOFIDI
	₩ — Bliefiel 22 40 40 40 To COMMIN → JT
79.3 (260)	B 20 20 40 40 40 B 64 20 JT
	E 40 40 40 40 TR 10M 21 JT
	₩ = 8 10 10 20 40 40 40 16 10 00 10 20 0 JT
82.3 (270)	E 20 20 40 40 1E MAIG 20 11
	11 40 40 40 TE GHID 20 31
	* E 10 10 20 40 40 40 TE 16/4101161 20 7
85.3 (280)	€ 20 20 40 40 40 TE TOU TO TO
	10 40 40 40 10 TH TOW AG
	₩ € 1010 20 40 40 40 TE 10210 30 20 17
88.4 (290)	E 20 20 40 40 40 TE TOHIOL 40 JUL
	€   40   40   40   TELOHIO 40   17
Established Designation	₩
91.4 (300)	R 20 20 40 40 40 TE HISTORIAL SO JT
	£ 49 40 40 10 TR 12 TO 15

<sup>★</sup> mark shows the standard long boom arrangement which enables each boom length of less than that boom length to be configured.

ne configured.		
Symbol	Long Boom Length	Remarks
<b>=</b> II	7.6 m	Boom Base
	9.1 m	Luffing Jib Top
<u> </u>	3.0 m	Insert Boom
[20]	6.1 m	Insert Boom
40	12.2 m	Insert Boom
	4.6 m	Tapered Boom
102	3.0 m	Relay Jib
m	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	12.2 m	Luffing Insert Jib



# Luffing Boom Arrangements for Luffing

Boom length m (fi)	Boom arrangement
21.3 (70)	₩ <b>- 11/13/20</b> 0
	* <b>HIGHT SO 11.30</b> c
24.4 (80)	- 10 10 C
27.4 (00)	* <u> </u>
27.4 (90)	€ 113 40 113€ C
	* <u>1000 80 180 100</u> 0
30.5 (100)	M1010 40 1130
	TIS C
33.5 (110)	₩ <b>- 101 101 10</b> 0
	₩ <b>- 1819101.50   40  </b> 12 <b>3</b> 0 c
36.6 (120)	<b>■ 20   20   10   10   10</b>   0
	40 10 HJD0°
an e (490)	* - MINI NO 1 NO 1130 C
39.6 (130)	- 18 190 40 10 10 10 10 10 10 10 10 10 10 10 10 10
	* = 81810 30 1 30 1 40 1130 0
42.7 (140)	- 5 (SHO) 40 140 (L)
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
45.7 (150)	# = #10 #0 1 #0 10 C

Boom length m (ft)	Boom arrangement
48.8 (160)	* 1000 100 100 100 100 100 100 100 100 1
51.8 (170)	# #10.10.1.40 40 100 00 00 00 00 00 00 00 00 00 00 00 0
54.9 (180)	# = 15(9)(9) 20 120 40 40 170 0 = 15(9) 40 40 40 170 0 = 15(9) 40 40 40 170 0
57.9 (190)	₩ <b>- 18(0.20) - 40   - 40   - 40   - 40</b>   - <b>40</b>   <b>- 40</b>   <b>- 4</b>
61.0 (200)	# 15010120 40 40 40 100 100 100 100 100 100 100 1

% mark shows the standard luffing boom arrangement which enables each boom length of less than that boom length to be configured.

Symbol	Luffing Boom Length	Remarks
< 1	7.6 m	Boom Base
Oc.	1.0 m	Luffing Boom Top
פטוכן	3.6 m	Luffing Tapered Boom
110	3.0 m	Insert Boom
(36)	6.1 m	Insert Boom
	12.2 m	Insert Boom

# Luffing Boom Arrangements for Crane

Boom length m (11)	Boom arrangement
15.2 (50)	CONTRACTOR OF THE PARTY OF THE
18.3 (60)	* CHRISTO
21.3 (70)	* - 10 00 Upo
24.4 (80)	# #100 8 100 0 # 100 100 0 # 100 100 0
27.4 (90)	# #101.20   20   C   C   C   C   C   C   C   C   C
30.5 (100)	* = 1910 20 120 130 0 = 1910 40 130 0 = 180 1 40 130 0
33.5 (110)	¥ <u>■10 20 1 40 1130</u> 0
36.6 (120)	# = 101010 #0 10 10 0 = 102 120 1 40 10 0 = 10 40 10 10 0
39.6 (130)	# = #100 250 1 250 1 40 1130 C
42.7 (140)	# 1990 40 140 178 0 1990 40 140 178 0 1990 40 140 178 0

Boom length m (ff)	Boom arrangement
45.7 (150)	₩ <b>-18/0/201-40-1-40-1</b> 00
48.8 (160)	* 1019 20 40 40 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0
51.8 (170)	# = #101.20   40   40   10   10   10   10   10   1
54.9 (180)	# 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
57.9 (190)	* - 1819 20 1 40 1 40 1130 C
61.0 (200)	# #(8) #30 #40 #40 #40 #40 #40 #40 #40 #40 #40 #4

\*\* mark shows the standard luffing boom arrangement which enables each boom length of less than that boom length to be configured.

Symbol	Luffing Boom Length	Remarks
=1	7.6 m	Boom Base
00	1.0 m	Luffing Boom Top
[:::::::::::::::::::::::::::::::::::::	3.6 m	Luffing Tapered Boom
ETGI	3.0 m	Insert Boom
(360)	6.1 m	insert Boom
46	12.2 m	Insert Boom





# Luffing Jib Arrangements

Jib length m (11)	Jib arrangement
21.3 (70)	*
24.4 (80)	*
27.4 (90)	
30.5 (100)	* 
33.5 (110)	
36.6 (120)	* C - 100 10 10 10 10 10 10 10 10 10 10 10 10

Jib length m (ft)	Jib arrangement	
	*O	
39.6 (130)		
	O	
42.7 (140)	*0	
	*O	
45.7 (150)	Q	
	0-10-11-11-11-11-11-11-11-11-11-11-11-11	
10 0 (150)	*0	
48.8 (160)	<u>O                                    </u>	
mark shows the installing position for mid suspension guy line.		
* mark shows the standard luffing jib arrangement which enables each luffing jib length of less than that jib length to be configured.		

51.8 (170)	O HADIOIOU N   40	
54.9 (180)	*	<u>}</u>
57.9 (190)		
61.0 (200)	* Q	101 0 11
Symbol	Luffing Jib Length	Remarks
03111001	O 1 m	Luffing lib Doop

length m (ft)

Jib arrangement

Symbol	Luffing Jib Length	Remarks
	9.1 m	Luffing Jib Base
OT.	9.1 m	Luffing Jib Top
62	3.0 m	Relay Jib
1300	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
(	12.2 m	Luffing Insert Jib

## Luffing Boom and Jib Combinations.

								Jib Len	gth (m)						
L		21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	57.9	61.0
	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 1	24.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	27.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	33.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	36.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$	39.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E E	42.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	45.7	0	0	0	0	0	0	Ο.	0	0	0	0	0	0	0
moo	48.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
l g	51.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	54.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	57.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	61.0	×	×	×	0	0	0	0	0	0	0	0	0	0	0

O: Combinations which is allowed. X: Combinations which is not allowed.





## Hook Blocks

A range of hook blocks can be specified, each with a safety latch

	147	No. of	No. of lines and max rated loads (tons)							
Hooks	Weight (kg)	sheaves	1	2	3	4	5	6	7	8
2.50-ton	4,200	11	-	-		54.0	-	81.0	*	108.0
150-ton	2,300	6	-	-	40.5	54.0	67.5	81.0	94.5	108.0
70-ton	1,200	3	-	27.0	40.5	54.0	67.5	70.0	-	-
35-ton	900	1		27.0	35.0		•	-	-	-
13.5-ton ball hook	450	0	13.5	_	-	-	-	-		-

I to also	Weight (kg)	(kg) No. of sheaves	44000	No. of lines and max. rated loads (tons)								
Hooks	vveignt (kg)		9	10	12	14	16	18	20	22		
250-ton	4,200	11	-	135.0	160.0	183.0	205.0	227.0	240.0	250.0		
150-ton	2,300	6	121.5	135.0	150.0	-				-		
70-ton	1,200	3	-	-	-	-	•	-				
35-ton	900	1	-	-	-	-	-	-	-			
13.5-ton ball hook	450	0	-	-	-	-	•	-	-	-		

No. of Parts of Line	1	2	3	4	5	6	7	8
Max. Loads (ton)	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0
No. of Parts of Line	9	10	12	14	16	18	20	22
Max. Loads (ton)	121.5	135.0	160.0	183.0	205.0	227.0	240.0	250.0

## Style and Combination of Boom and Jib

$\Gamma$	Style	Crane Boom	Luffing Boom	Long Boom	Fixed Jib	Luffing Jib
	7.6 m boom base	Common use(1)	Common use(1)	Common use(1)	Common use(1)	Common use(1)
	7.6 m boom top	Common use(1)	N.A.	N.A.	Common use(1)	N.A.
	1.0 m luffing boom top	N.A.	Common use(1)	N.A.	N.A.	Common use(1)
E	3.0 m insert boom	Common use(1)	Common use(2)	Common use(2)	Common use(2)	Common use(2)
ã	6.1 m insert boom	Common use(2)	Common use(1)	Common use(1)	Common use(1)	Common use(1)
	12.2 m insert boom	Common use(5)	Common use(3)	Common use(3)	Common use(4)	Common use(3)
	3.6 m luffing tapered boom	N.A.	Common use(1)	N.A.	N.A.	Common use(1)
1	4.6 m tapered boom	N.A.	N.A.	Long Boom only(1)	N.A.	N.A.
	4.6 m jib base	-	-	N.A.	Fixed jib only(1)	N.A.
	4.6 m jib top	-	-	N.A.	Fixed jib only(1)	N.A.
١.	3.0 m insert jib		-	N.A.	Fixed jib only(1)	N.A.
1	6.1 m insert jib	-	-	N.A.	Fixed jib only(3)	N.A.
횰	9.1 m luffing jib base	-		N.A.	N.A.	Luffing jib only(1)
1 .2	9.1 m luffing jib top	-	-	Common use(1)	N.A.	Common use(1)
	3.0 m relay jib	-	-	Common use(1)	N.A.	Common use(1)
	3.0 m luffing insert jib		-	Common use(2)	N.A.	Common use(1)
	6.1 m luffing insert jib	-	-	Common use(2)	N.A.	Common use(2)
	12.2 m luffing insert jib	-	<u>.</u>	Common use	N.A.	Common use(2)

Note 1. Figure in ( ) means the numbers of the maximum usable boom (or jib) respectively, 2. N.A.: Not applicable

## Symbols for Attachments:

















Crane Boom

Auxiliary Sheave for Crane Boom Luffing Boom

Auxiliary Sheave for Luffing Boom

Long Boom

Auxiliary Sheave for Long 3 oom

Fixed Jib

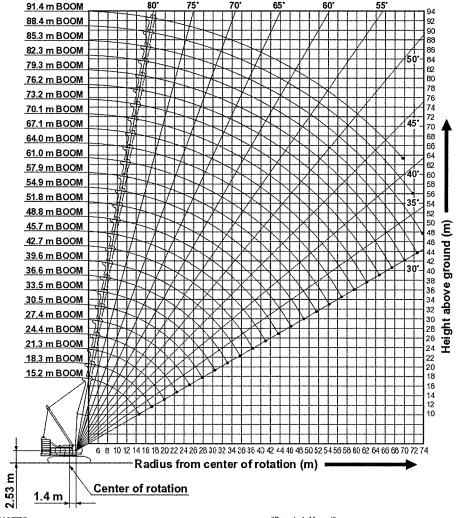
Luffing Jib

Luffing Boom with Luffing Jib



# WORKING RANGES

## Crane Boom Working Ranges



#### NOTES:

- Ratings according to EN13000.
   Ratings in metric tons for 360° working area.
- 3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
- 4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
- 5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- 6. Ratings are for operation on a firm and level surface, up to 1% gradient.
- 7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- 8. Boom inserts and guy lines must be arranged as shown in the

- "Operator's Manual".
- 9. Boom hoist reeving is 16 part line. 10. Gantry must be in raised position for all conditions.
- 11. Boom backstops are required for all boom lengths
- 12. The boom should be erected over the front of crawlers, not laterally.
- 13. Ratings shown in are determined by the strength of the boom or other structural component.
- 14. When erecting or lowering the boom length of 88.4 m or over, the pillow plate for erection must be placed at the end of crawlers 15. Instruction in the "Operator's Manual" must be strictly observed when
- operating the machine. 16. Crane boom ratings: Deduct weight of hook block, slings, and all other
- load handling accessories from crane boom ratings shown. 17. Auxiliary sheave ratings for crane boom: Deduct weight of hock block, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown
- 18. Crane boom lengths for auxiliary sheave mounting are 15,2 m to 88.4 m.





# Crane Boom Lifting Capacity

Unit: metric ton

Counterweight	90.0 t,	Carbody	weight: 24.0 t
---------------	---------	---------	----------------

Boom Length Working (rr) radius (rr)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	Boom Length (m) Working radius (m)
4.6	4.6 m/25C.0													4.6
5.0	230.7	226.7	5 5(1),205.0											5.0
6.0	191.5	191.5	191.1	6.' m''83 0	6,3 m/174.5							<u> </u>	l	6.0
7.0	165.9	165.6	165.2	165.0	164.7	7.1 m/154.2	77 m'143.8							7.0
8.0	146,1	145.8	145.4	145.2	144.9	144.6	141.4	8.2 1/273	8.7 1115.7					8.0
9.0	130.4	130.1	129.8	129.6	129.2	127.0	127.3	123.8	114.8	9.2 m/107.2	9.3 🗆 98.3			9.0
10.0	117.7	117.4	117.1	116.9	114.7	115.0	113.3	110.5	107.4	103.8	97.0		10.317/84.7	10.0
12.0	90.0	90.2	90.2	90.2	90.2	90.1	90.0	89.9	87.8	85.9	83.8	82.0	79.5	12.0
14.0	72,2	72.4	72.4	72.4	72.3	72.2	72.1	72.0	72.0	72.0	70.8	69.4	68.0	14.0
16.0	14.8 m/65.7	60.2	60.2	60.2	60.0	59.9	59.8	59.8	59.7	59.6	59.4	59.3	58.7	16.0
18.0		17.5 m/53.5	51.3	51.3	51.1	51.1	50.9	50.8	50.7	50.7	50.4	50.3	50.2	18.0
20.0			44,6	44.6	44.4	44.3	44.1	44.0	43.9	43.9	43.6	43.5	43,4	20.0
22.0			20.1m/4-3	39.3	39.1	39.0	38.7	38.7	38.6	38.5	38.3	38.2	38.0	22,0
24.0				22 7 my 37 6	34.8	34.7	34.5	34.4	34.3	34,2	34.0	33.8	33.7	24.0
26.0					25.4 m/32.3	31.3	30.9	30.8	30,7	30.7	30.4	30.3	30.1	26.0
28.0						28.3	28.0	27.9	27.8	27.7	27.4	27.3	27.1	28.0
30.0							25.5	25.4	25.2	25.2	24.9	24.8	24.6	30.0
32.0							33.7 m/24.6	23.4	23.1	23.0	22.7	22.6	22.4	32.0
34.0								33.3 m/22 1	21.2	21.1	20,8	20.7	20.5	34.0
36.0									35.9 T/19.7	19.5	19.2	19.1	18.9	36.0
38.0										18.0	17.7	17.6	17.4	38.0
40.0										38.6 m/17.6	16.4	16.3	16.1	40.0
42.0											41.2 m/15.7	15.2	14.9	42.0
44.0												43.9 17 4.2	13.9	44.0
46.0													13.0	46.0
48.0													46.5 m/12.8	48.0
Reeves	22	18	16	14	14	12	12	10	10	8	8	7	7	Reeves

Boom Length Working (m) radius (m)	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	79.3	82.3	85.3	88.4	91.4	Boom Length (m) Working radius (m)
10.0	11.4 m <sup>1</sup> 81.4	11.3 m76.1	1						<u> </u>					10.0
12.0	78.0	75.5	12.4 m/38.B	12 9 m/67 5	13.5 m/63.8									12.0
14.0	66.5	65.2	63,3	62.5	61.3	59.4	14.5 m/54.5	15.1 m/49.1	15.6 7/44.7					14.0
16.0	57.5	56.4	55.4	54.2	53.2	51.2	51.1	48.4	44.5	16.1 m/40.3		17.2 m/33.8		16.0
18.0	50.0	49.5	48.6	47.6	46.8	45.6	44.9	44.2	43.2	39.7	36.6	33.3	30.9	18.0
20.0	43.2	43.0	42.9	42.2	41.5	40.6	39.9	39.2	38.4	37.6	35.4	32.2	29.8	20.0
22.0	37.8	37.7	37.5	37.3	37.2	36.5	35.7	35.1	34.4	33,6	32.9	31.2	28.8	22.0
24.0	33.5	33.3	33.2	32.9	32.9	32.6	32.2	31.6	30.9	30.2	29.6	29.2	27.7	24.0
26.0	29.9	29.7	29.6	29.4	29.3	29.0	28.9	28.6	28.0	27.3	26.8	26,3	25.7	26.0
28.0	26.9	26.8	26.6	26.4	26.3	26.0	25.9	25.8	25.4	24.8	24.3	23.9	23.3	28.0
30.0	24.4	24.2	24.1	23.8	23.7	23.5	23.3	23.2	23.0	22.6	22.1	21.7	21.2	30,0
32.0	22.2	22.0	21.9	21.6	21.5	21.3	21.1	21.0	20.8	20.5	20.2	19.8	19.3	32.0
34.0	20.3	20.1	20.0	19.7	19,6	19.4	19.2	19.1	18.9	18.6	18.4	18.1	17.6	34.0
36.0	18.6	18.5	18.3	18.1	17.9	17.7	17.5	17.4	17.2	16.9	16.8	16.6	16.1	36,0
38,0	17.2	17.0	16.9	16.6	16.5	16.2	16.0	15.9	15.7	15.4	15.3	15.2	14.7	38.0
40.0	15.9	15.7	15.5	15,3	15.2	14.9	14.7	14.6	14.4	14.1	13.9	13.8	13.5	40.0
42.0	14.7	14.5	14,4	14.1	14.0	13.7	13.5	13.4	13.2	12.9	12.8	12.7	12.4	42.0
44.0	13.7	13.5	13,3	13.0	12.9	12.6	12.5	12.3	12.1	11,8	11.7	11.6	11.3	44.0
46.0	12.7	12.5	12.4	12.1	12.0	11.7	11.5	11.4	112	10.9	10.7	10.6	10.4	46.0
48.0	11.9	11.6	11.5	11.2	11.1	10.8	10.7	10.5	10.3	10.0	9.8	9.7	9.4	48.0
50.0	49.' m'11.4	10.9	10.7	10.4	10.3	10,0	9.9	9.7	9.5	9.1	8.9	8.8	8.5	50.0
52.0		51.3 110.2	10.0	9.7	9.6	9.3	9.1	8.9	8.7	8.3	8.1	8.0	7.7	52.0
54.0			9.3	9.1	8.9	8,6	8.4	8.2	7.9	7.6	7.4	7.2	7.0	54.0
56.0			54.4 m 9.2	8.4	8.3	7,9	7.7	7.5	7.2	6.9	6.7	6.5	6.3	56.0
58.0				57.1 m/8.1	7.7	7.3	7.1	6.9	6.6	6.3	6.1	5.9	5,6	58.0
60.0					59.7 m/7.2	6.7	6.5	6.3	6.0	5.7	5.5	5.3	5.0	60.0
62.0						6.2	6.0	5.8	5.5	5.1	4.9	4.8	4.5	62.0
64.0						62 3 m/6 1	5.5	5.3	5.0	4.6	4.4	4.3	4.0	64,0
66.0							65.0 1/5.3	4.8	4.5	4.2	4.0	3.8	3.5	66.0
68.0								37.5 m/4.5	4.1	3.7	3.5	3.3	2.9	68.0
70.0									3.7	3.3	3.1	2.9	2.4	70.0
72.0									70.2 m/36	2.9	2.7	2.5		72.0
74.0										72 9 m'2.8	2.4			74.0
Reeves	7	6	6	5	5	5	5	4	4	4	3	3	3	Reeves

Note: Retings according to EN13000.

Ratings shown in \_\_\_\_\_\_are determined by the strength of the boom or other structural components.

Refer to notes P12.





# ANNEX B INTACT STABILITY CONDITION



#### **LOADING CONDITION 1**

SHIP NAME: MAEVE ANNE

CONDITION: OPERATION IN PROTECTED HARBOUR WATERS

DESCRIPTION: KOBELCO CKE2500 CRAWLER CRANE

WITH 48.8 m BOOM

40 t LIFT AT 15 m RADIUS OVER THE SIDE

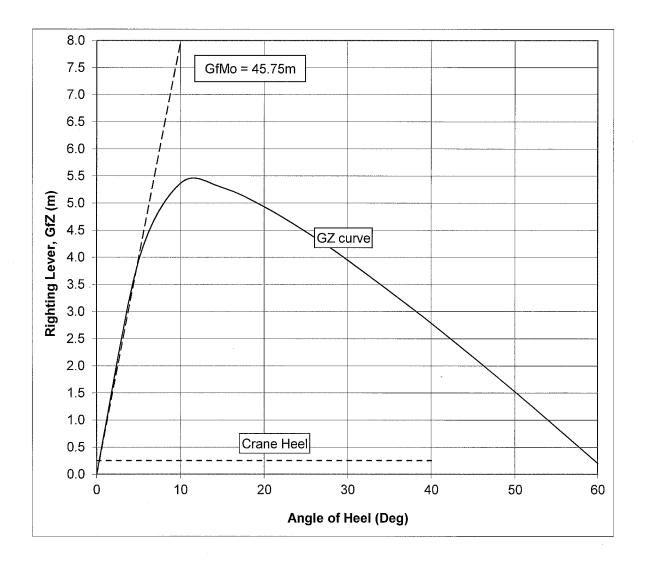
ITEM	MASS	V.C.G.	V.MOM	L.C.G.	L.MOM	T.C.G.	T.MOM	F.S.M
	tonnes	metres	t.m	metres	t.m	m	t.m	t.m
CRANE TRACK PORT	150.32	5.86	880.9	17.00	2555.4	-3.20	-481.0	
CRANE TRACK STBD	70.08	5.86	410.7	17.00	1191.4	3.20	224.3	
			0.0		0.0		0.0	
CRANE LIFT	40.00	51.00	2040.0	24.00	960.0	15.00	600.0	
			0.0		0.0		0.0	
W.B. TANK AFT (P)	147.90	1.11	164.17	-12.00	-1774.80	-9.60	-1420	130.1
W.B. TANK AFT (S)	147.90	1.11	164.17	-12.00	-1774.80	9.60	1420	130.1
W.B. TANK FWD (P)	0.00	0.00	0.00	0.00	0.00		0.0	
W.B. TANK FWD (S)	0.00	0.00	0.00	0.00	0.00		0.0	
SLUDGE 1 (P)	0.00	0.00	0.00	0.00	0.00		0.0	
SLUDGE 2 (P)	0.00	0.00	0.00	0.00	0.00		0.0	
SLUDGE 3 (P)	0.00	0.00	0.00	0.00	0.00		0.0	
			0.00		0.0		0.0	
CRANE MAT	25.00	2.37	59.3	12.00	300.0	0.00	0.0	
SITE OFFICE & CRIB SHED	4.50	3.40	15.30	-10.70	-48.2	10.60	47.7	
STBD PILE	23.00	3.00	69.0	-0.70	-16.1	7.10	163.3	
PORT PILES	46.00	3.00	138.0	-0.70	-32.2	-6.70	-308.2	
JUNNTAN 18S HAMMER	36.50	3.20	116.8	-3.75	-136.9	3.10	113.2	
V360 VIBRO HAMMER	18.00	3.00	54.0	-0.58	-10.4	-2.60	-46.8	
POWERPACK 1	14.00	3.40	47.6	-5.40	-75.6	-1.40	-19.6	
POWERPACK 2	8.50	3.40	28.9	-7.70	-65.5	-1.40	-11.9	
Dead Weight	731.70		4188.7		1072.4		280.9	260
Light Ship	381.86	2.20	840.09	1.65	630.72	0.00	0.00	0
Resultant Vessel	1113.6	4.52	5028.8	1.53	1703.1	0.25	280.9	260
KG fluid		4.75						260

FROM HYDROSTATICS (	0.0m Trim )		TRIM & DRAFTS		
K-M trans.	50.50	metres	L.B.P.	54.86	metres
G-M fluid	45.75	metres	L.B.P. / 75	0.73	metres
Draft @ L.C.F.	0.98	metres	Trim (+ve by stern)	-0.51	metres
L.C.F.	-0.45	metres	Draft F.P.	0.98	metres
L.C.B.	-0.90	metres	Draft A.P.	0.47	metres
M.C.T. 1cm	52.64	t.m./cm.		-	



#### CONDITION 1 CONTD...

ANGLE	0	5	10	15	20	25	30	40	50	60
SIN THETA	0.000	0.087	0.174	0.259	0.342	0.423	0.500	0.643	0.766	0.866
KN	0.000	4.352	6.191	6.515	6.556	6.478	6.323	5.839	5.160	4.317
KGf SIN THETA	0.000	0.414	0.825	1.229	1.624	2.007	2.375	3.053	3.638	4.113
GZ	0.000	3.938	5.367	5.286	4.932	4.471	3.948	2.786	1.521	0.203
CRANE LEVER	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252		

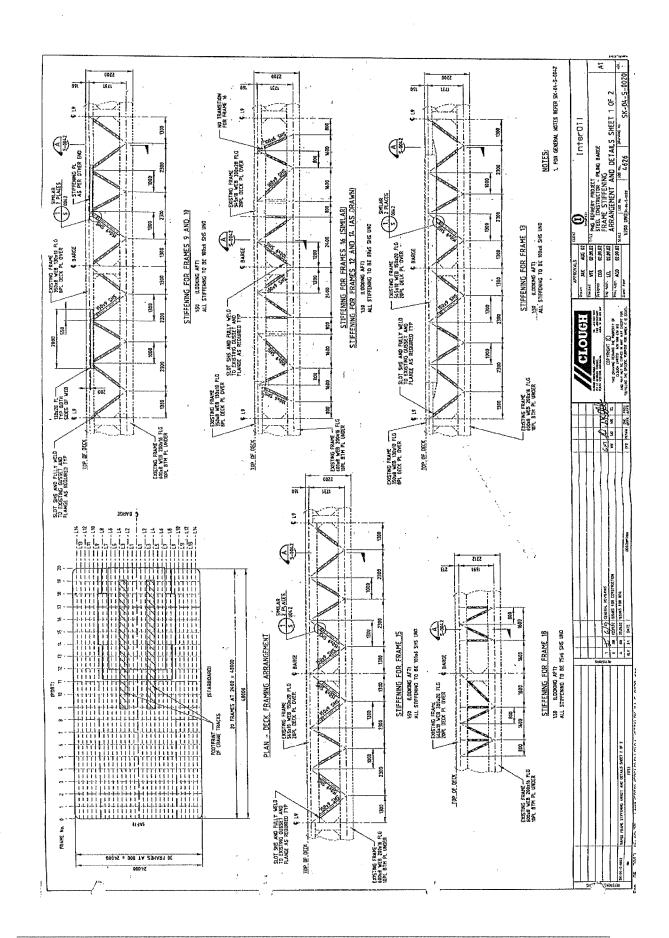


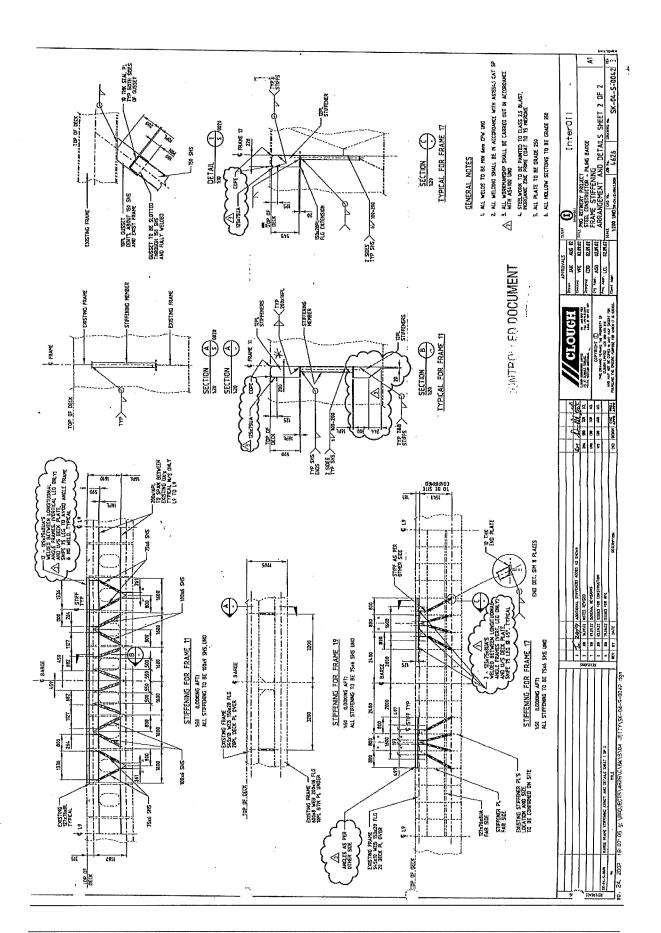
## NSCV PARTC, SECTION 6A, CHAPTER 5D STABILITY CRITERIA

CRITERIA		REQ'D		ACTUAL	COMMENTS	
**************************************						
AREA 0 TO GZMAX >	4.58	m.Deg	40.57	m.Deg	COMPLIES	
HEEL DUE TO CRANE LIFT <	5	Degrees	0.32	Degrees	COMPLIES	



# ANNEX C DECK FRAME DETAILS

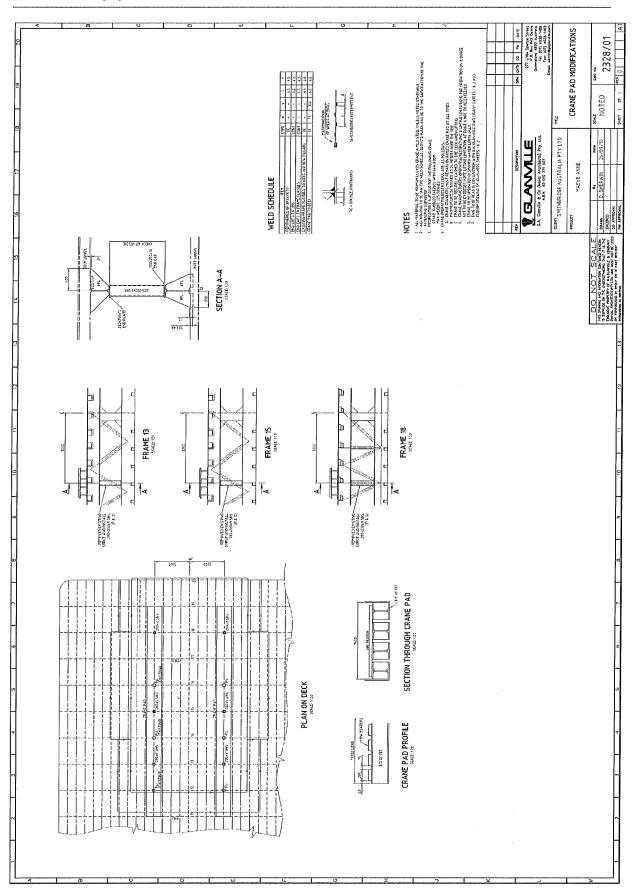






# ANNEX D DWG 2328/01 CRANE PAD MODIFICATIONS

# **#GLANVILLE**

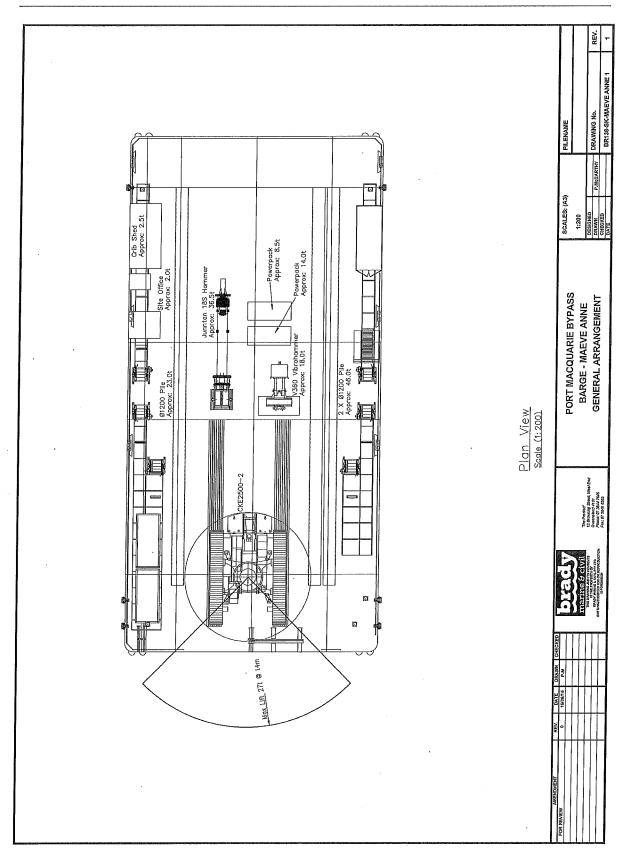




## **ANNEX E**

BARGE GENERAL ARRANGEMENT BR138-SK-MAEVE ANNE Rev. 1









## Naval Architects & Marine Consultants

G.A GLANVILLE & CO (Naval Architects) Pty. Ltd. ABN 89 010 771 507

Our Ref. 2896(4)

277 Little Spence Street P.O Box 642 Cairns Queensland 4870 Australia

Telephone: (07) 4035 1488
Facsimile: (07) 4035 1403

June, 2016

Email: admin@gaglanville.com

Brady Marine and Civil P.O. Box 5338 WEST END QLD 4101

ATTENTION:

Dear Sir,

REF: MAEVE ANNE

Please find enclosed the following documents:

Document Number Pages		Title	Status
AMSA 606 Cert.	2	-	-
R2896(02) Rev. A 11		"Maeve Anne" Stability Addendum	Approved

A copy of these documents (including this letter) is to be forwarded to RMS for processing.

Yours faithfully,

G.A. GLANVILLE & CO. (NAVAL ARCHITECTS) PTY. LTD.





# "MAEVE ANNE"

# **STABILITY ADDENDUM**



# DOMESTIC COMMERCIAL VESSEL Accredited Surveyor Plan and Stability Approval

# APPROVED

The undersigned surveyor declares that they have examined the document to which this stamp is affixed in accordance with the requirements of the Marine Safety (Domestic Commercial Vessel) National Law Act 2012 and found it to satisfy the requirements to be approved.

For any comments see approval letter number ..2896(4). Dated..03/06/2016

Accredited Surveyor

Name:

ID:

Signatur

...... Date ...03/06/2016

11 pages

## Prepared By:

Report No: Issue Date:

G.A. Glanville & Co. (Naval Architects) Pty Ltd P.O. Box 642 CAIRNS QLD 4870

R2896(02) Rev. A

3rd June, 2016

## Prepared For:

Brady Marine & Civil PO Box 5338 WEST END QLD 4101





# G.A. GLANVILLE & CO. (NAVAL ARCHITECTS) PTY LTD

277 Little Spence Street P.O. Box 642, CAIRNS QLD 4870

Telephone Number: (07) 40 351 488 Facsimile Number: (07) 40 351 403

Email: admin@gaglanville.com

Report Title:	"MAEVE ANNE" - Stability Addendum
Report No:	R2896(02) Rev. A
Issue Date:	3rd June, 2016

Client:	Brady Marine & Civil
Client Address:	PO Box 5338 WEST END QLD 4101
Client Contact:	
Client Reference:	-

Prepared By:	03/06/2016
Checked By:	03/06/2016
Approved By:	03/06/2016

REVISIONS										
Revision	Issue Date	Comment	Prepared By	Approved By						
A	03/06/2016	Report renumbered from R2896(01) Rev. A dated 14/7/2015. Report renamed "Stability Addendum". Structural assessment removed from report as per RMS request 01/06/2016.								
		·	ν	,						

# **#GLANVILLE**

# **CONTENTS**

		<u>Page</u>
1.0	Introduction	1
2.0	References	1
3.0	Barge Particulars	· 2
4.0	Stability	3
ANNE	EXES	

Annex A - Intact Stability Condition
Annex B - Barge General Arrangement
BR138-SK-Maeve Anne Rev. 1



## 1.0 INTRODUCTION

- 1.1 This addendum contains a summary of the stability calculations made for the dumb barge MAEVE ANNE (Ex Steel Constructor) to be loaded with a Kobelco CKE 2500 crane for smooth water operations.
- 1.2 This addendum is to be read in conjunction with the stability booklet for the vessel "STEEL CONSTRUCTOR" Trim and Stability Booklet prepared by G.A. Glanville & Co. Report R1350(02) Rev. A dated 8/4/2003 (Ref 2.1).
- **1.3** Assessment of the suitability of the crane for the proposed operations is beyond the scope of this report.
- **1.4** Assessment of the crane loading and unloading arrangements onto the barge is beyond the scope of this report.
- **1.5** Assessment of the securing arrangements for the crane is outside the scope of this report.

#### 2.0 REFERENCES

- **2.1** "STEEL CONSTRUCTOR" Trim and Stability Booklet prepared by G.A. Glanville & Co. Report R1350(02) Rev. A dated 8/4/2003.
- 2.2 National Standard for Commercial Vessels (NSCV).



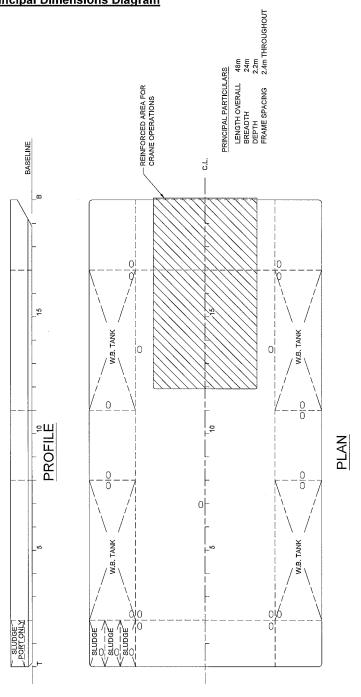
# 3.0 BARGE PARTICULARS

## 3.1 Principal Dimensions

Length48.00 metresBreadth24.00 metresDepth2.20 metres

Frame Spacing: 2.40 metres throughout

# 3.2 Principal Dimensions Diagram





## 4.0 STABILITY

- **4.1** The intact stability of the vessel has been determined using the lightship particulars from Ref. 2.1 and the proposed loading configuration at Annex B.
- 4.2 The intact stability of the vessel during crane operations is shown to comply with NSCV requirements Part C Section 6, Subsection 6A, Table 13 Category 5D.1b (Ref 2.2)

Table 13 — Chapter 5D criteria—Alternative criteria for dumb barges

Criterion No	Limits to application	Chapter 5D criterion description			
5D.1a	Seagoing <i>barges</i> Operational areas A, B, C	The area beneath the $G_FZ$ curve measured between 0 degrees and the angle of maximum righting arm $G_FZ_{max}$ , the downflooding angle $\theta_f$ , or 40 degrees, whichever angle is smallest shall not be less than 4.58 metre-degrees.			
5D.1b	Sheltered water <i>barges</i> Operational areas D, E	The area beneath the $G_FZ$ curve measured between 0 degrees and the angle of maximum righting arm $G_FZ_{max}$ , the downflooding angle $\theta_f$ , or 40 degrees, whichever angle is smallest shall not be less than 3.05 metre-degrees.			

4.3 Additionally for a dumb barge engaged in lifting the intact stability is shown to comply with NSCV requirements Part C Section 6, Subsection 6A, Table 39 Category 8D.1b (Ref 2.2).

Table 39 — Chapter 8D criterion—Alternative simplified criteria for dumb barges lifting heavy loads

Criterion No	Limits to application	Chapter 8D criterion description					
		The angle of heel $\theta_{\rm h}$ resulting from the worst case combination of loading condition and heeling moment due to lifting shall not exceed the lesser of—					
8D.1a	Operational areas A, B or C	a) 5 degrees;					
	Operational areas	b) the angle corresponding to a loss of 50 per cent of the freeboard to the deck; or					
		c) the angle of bilge emersion.					
		The angle of heel $\theta_{\rm h}$ resulting from the worst case combination of loading condition and heeling moment due to lifting shall not exceed the lesser of—					
8D.1b		a) 5 degrees;					
	D 01 E	b) the angle corresponding to a loss of 100 per cent of the freeboard to the deck; or					
		c) the angle of bilge emersion.					

**4.4** Datums used in the stability analysis are as per Ref 2.1 as follows:

Longitudinal

+ve fwd of midships (FR 10)

Vertical

+ve above baseline (underside of keel)

Transverse

+ve to starboard



# ANNEX A INTACT STABILITY CONDITION



## **LOADING CONDITION 1**

SHIP NAME: MAEVE ANNE

CONDITION: OPERATION IN PROTECTED HARBOUR WATERS

DESCRIPTION: KOBELCO CKE2500 CRAWLER CRANE

WITH 48.8 m BOOM

40 t LIFT AT 15 m RADIUS OVER THE SIDE

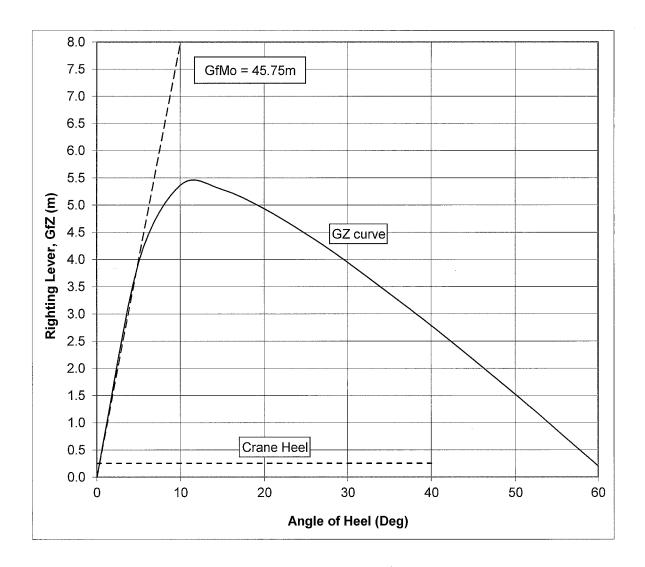
ITEM	MASS	V.C.G.	V.MOM	L.C.G.	L.MOM	T.C.G.	T.MOM	F.S.M
	tonnes	metres	t.m	metres	t.m	m	t.m	t.m
		·						
CRANE TRACK PORT	150.32	5.86	880.9	17.00	2555.4	-3.20	-481.0	
CRANE TRACK STBD	70.08	5.86	410.7	17.00	1191.4	3.20	224.3	
			0.0		0.0		0.0	
CRANE LIFT	40.00	51.00	2040.0	24.00	960.0	15.00	600.0	
			0.0		0.0		0.0	
W.B. TANK AFT (P)	147.90	1.11	164.17	-12.00	-1774.80	-9.60	-1420	130.1
W.B. TANK AFT (S)	147.90	1.11	164.17	-12.00	-1774.80	9.60	1420	130.1
W.B. TANK FWD (P)	0.00	0.00	0.00	0.00	0.00		0.0	
W.B. TANK FWD (S)	0.00	0.00	0.00	0.00	0.00		0.0	
SLUDGE 1 (P)	0.00	0.00	0.00	0.00	0.00		0.0	
SLUDGE 2 (P)	0.00	0.00	0.00	0.00	0.00		0.0	
SLUDGE 3 (P)	0.00	0.00	0.00	0.00	0.00		0.0	
			0.00		0.0		0.0	
CRANE MAT	25.00	2.37	59.3	12.00	300.0	0.00	0.0	
SITE OFFICE & CRIB SHED	4.50	3.40	15.30	-10.70	-48.2	10.60	47.7	
STBD PILE	23.00	3.00	69.0	-0.70	-16.1	7.10	163.3	
PORT PILES	46.00	3.00	138.0	-0.70	-32.2	-6.70	-308.2	
JUNNTAN 18S HAMMER	36.50	3.20	116.8	-3.75	-136.9	3.10	113.2	
V360 VIBRO HAMMER	18.00	3.00	54.0	-0.58	-10.4	-2.60	-46.8	
POWERPACK 1	14.00	3.40	47.6	-5.40	-75.6	-1.40	-19.6	
POWERPACK 2	8.50	3.40	28.9	-7.70	-65.5	-1.40	-11.9	
Dead Weight	731.70		4188.7		1072.4		280.9	260
Light Ship	381.86	2.20	840.09	1.65	630.72	0.00	0.00	0
Resultant Vessel	1113.6	4.52	5028.8	1.53	1703.1	0.25	280.9	260
VO fi : I	1	, -,, - [						
KG fluid		4.75						260

FROM HYDROSTATICS (I	0.0m Trim )		TRIM & DRAFTS		
K-M trans.	50.50	metres	L.B.P.	48.00	metres
G-M fluid	45.75	metres	L.B.P. / 75	0.64	metres
Draft @ L.C.F.	0.98	metres	Trim (+ve by stern)	-0.51	metres
L.C.F.	-0.45	metres	Draft F.P.	0.98	metres
L.C.B.	-0.90	metres	Draft A.P.	0.47	metres
M.C.T. 1cm	52.64	t.m./cm.			

# **#GLANVILLE**

#### CONDITION 1 CONTD...

ANGLE	0	5	10	15	20	25	30	40	50	60
SIN THETA	0.000	0.087	0.174	0.259	0.342	0.423	0.500	0.643	0.766	0.866
KN	0.000	4.352	6.191	6.515	6.556	6.478	6.323	5.839	5.160	4.317
KGf SIN THETA	0.000	0.414	0.825	1.229	1.624	2.007	2.375	3.053	3.638	4.113
GZ	0.000	3.938	5.367	5.286	4.932	4.471	3.948	2.786	1.521	0.203
CRANE LEVER	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252		



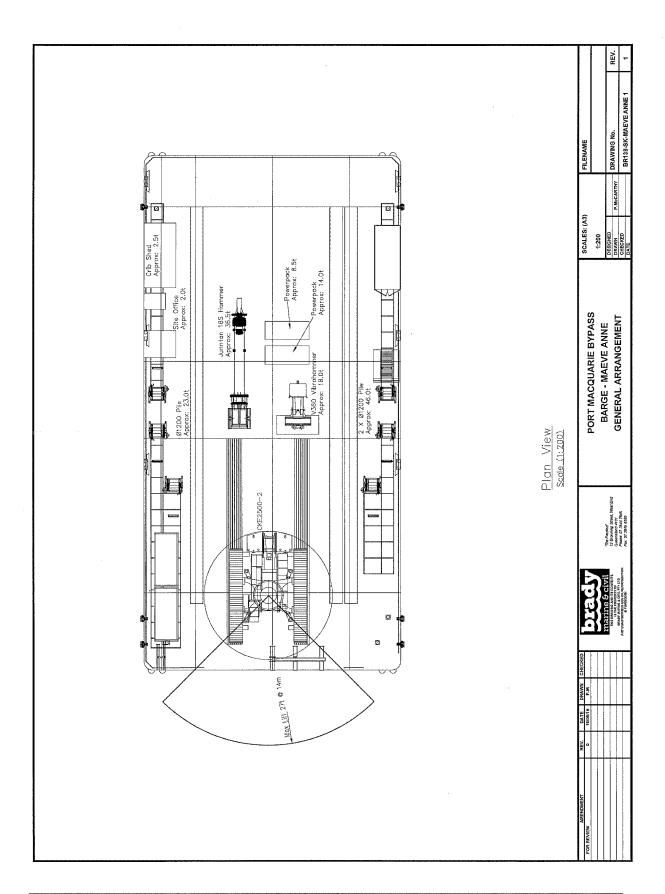
# NSCV PARTC, SECTION 6A, CHAPTER 5D & 8D STABILITY CRITERIA

11001 171110, 0201101	1 0/1, 0/1/11 121	· • • • • •	O I / ( BIE I I I O I ( I I E			
CRITERIA		REQ'D		ACTUAL		COMMENTS
5D.1b AREA 0 T	O GZMAX >	3.05	m.Deg	40.57	m.Deg	COMPLIES
8D.1b HEEL DUE	TO CRANE <	4.67	Degrees	0.32	Degrees	COMPLIES



# **ANNEX B**

BARGE GENERAL ARRANGEMENT BR138-SK-MAEVE ANNE Rev. 1



Certificate no: Page 1 of 3 MEL 1600604



# International Oil Pollution Prevention Certificate

Note: This certificate shall be supplemented by a Record of Construction and Equipment No:

8127737/01

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto and as amended (hereinafter referred to as 'the Convention"), under the authority of the Government of Australia by Lloyd's Register International

Particulars of Ship

Name of ship

**MAEVE ANNE** 

Not Applicable.

Distinctive number or letters

ON: 856910; Unique Identifier: 28812QC

Port of registry

Brisbane

Gross tonnage

654

Deadweight of ship (metric tons) 1

8127737

IMO number
Type of ship\*

Oil-tanker

Ship other than an oil tanker with cargo tanks coming under

regulation 2(2) of Annex Lof the Convention

Ship other than any of the above

This is to certify:

1. that the ship has been surveyed in accordance with regulation 6 of Annex I of the Convention; and

2. that the survey shows that the structure, equipment, systems, fittings, arrangement and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex I of the Convention.

This certificate is valid until <sup>2</sup>

02 November 2016

subject to surveys in accordance with regulation 6 of Annex I of the Convention.

Lioyd'a Register International

Completion date of the survey on which this certificate is based

03 June 2016

Issued at

Sydney

on 07 June 2016

Compliance with regulation 14.1 is not required for operations in Port Jackson and within 15 nm thereof under the provisions of regulation 14.3.

#### Conditions:

1. An approved SOPEP to be placed on board.

Surveyor to Lloyd's Register International

a member of the Lloyd's Register group.

\*Delete as appropriate

For oil tankers only.

Insert the date of expiry as specified by the Administration in accordance with regulation 10.1 of Annex I of the Convention. The day and the month of this date correspond to the anniversary date as defined in regulation 1.27 of Annex I of the Convention, unless amended in accordance with regulation 10.8 of Annex I of the Convention.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate no: Page 2 of 3 MEL 1600604

# **Endorsement for annual and intermediate surveys**

This is to certify the Convention.	nat, at a survey required by regulation 6 of Annex I of the	Convention, the ship was found to comply with the relevant provisions of
Annual survey		
Signed: Place of survey Date	NOT APPLICABLE	
Annual / Interme	ediate* survey	
Signed: Place of survey Date	NOT APPLICABLE	
Annual / Interme	ediate* survey	
Signed: Place of survey Date	NOT APPLICABLE.	
Annual survey		
Signed: Place of survey Date	NOT APPLICABLE	
Annual/inter	mediate survey in accordance with regula	tion 10.8.3
This is to certify th		egulation 10.8.3 of Annex I of the Convention, the ship was found to
Annual / Interme	ediate* survey	

NOT APPLICABLE

Form 2222 (2015.06)

Signed: Place of survey

Date

<sup>\*</sup> Delete as appropriate

Certificate no: Page 3 of 3

MEL 1600604

# Endorsement to extend the certificate if valid for less than 5 years where regulation 10.3 applies

The ship complies with the relevant provisions of the Convention, and this certificate shall, in accordance with regulation 10.3 of Annex I of the Convention, be accepted as valid until

Signed:			
Place of survey Date	NOT APPLICABLE		
Endorsement	where the renewal survey has been comp	pleted and regulation 10.4 applies	
	with the relevant provisions of the Convention, and this c egulation 10.4 of Annex I of the Convention, be accepted		
Signed:			
Place of survey Date	NOT APPLICABLE		
	to extend the validity of the certificate ur regulation 10.5 or 10.6 applies	ntil reaching the port of survey or for a period of	
	ll, in accordance with regulation 10.5 / 10.6 * of Annex cepted as valid until	I of the	
Signed:			
Place of survey Date	NOT APPLICABLE		
Endorsement	for advancement of anniversary date whe	re regulation 10.8 applies	
In accordance with	regulation 10.8 of Annex I of the Convention, the new a	nniversary date is	
Signed:			
Place of survey Date	NOT APPLICABLE		
In accordance with	regulation 10.8 of Annex 1 of the Convention, the new a	nniversary date is	
Signed:			
Place of survey Date	NOT APPLICABLE		_

\* Delete as appropriate

Form 2222 (2015.06)

Certificate no: Page 1 of 3

MEL 1600604



# International Oil Pollution Prevention Certificate

Note: This certificate shall be supplemented by a Record of Construction and Equipment No:

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto and as amended (hereinafter referred to as 'the Convention'), under the authority of the Government of Australia by Lloyd's Register International

Particulars of Ship

Name of ship

**MAEVE ANNE** 

Distinctive number or letters

ON: 856910; Unique Identifier: 28812QC

Port of registry

Brisbane

Gross tonnage

Not Applicable.

Deadweight of ship (metric tons)

IMO number 8127737 Oil tanker

Type of ship\*

Ship other than an oil tanker with cargo tanks coming under

regulation 2(2) of Annex I of the Convention

Ship other than any of the above

This is to certify:

that the ship has been surveyed in accordance with regulation 6 of Annex I of the Convention; and 1.

that the survey shows that the structure, equipment, systems, fittings, arrangement and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex I of the Convention.

This certificate is valid until 2

03 November 2016

subject to surveys in accordance with regulation 6 of Annex I of the Convention.

Completion date of the survey on which this certificate is based

03 June 2016

Issued at

Sydney

Compliance with regulation 14.1 is not required for operations in Port Jackson and within 15 nm thereof under the provisions of regulation 14.3.

07 June 2016 on

> Lloyd's Register International Initials:

Sydney

Register

Conditions:

1. An approved SOPEP to be placed on board.

Surveyor to Lloyd's Register International

a member of the Lloyd's Register group.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

<sup>\*</sup>Delete as appropriate

For oil tankers only

<sup>&</sup>lt;sup>2</sup> Insert the date of expiry as specified by the Administration in accordance with regulation 10.1 of Annex I of the Convention. The day and the month of this date correspond to the anniversary date as defined in regulation 1.27 of Annex I of the Convention, unless amended in accordance with regulation 10.8 of Annex I of the

Certificate no: Page 2 of 3 MEL 1600604

# **Endorsement for annual and intermediate surveys**

This is to certify that, at a survey required by regulation 6 of Annex I of the Convention, the ship was found to comply with the relevant provisions of the Convention.

Annual survey		
Signed: Place of survey Date	NOT APPLICABLE	
Annual / Interme	diate* survey	
Signed: Place of survey Date	NOT APPLICABLE	
Annual / Interme	diate* survey	
Signed: Place of survey Date	NOT APPLICABLE.	
Annual survey		
Signed: Place of survey Date	NOT APPLICABLE	
Annual/interm	nediate survey in accordance with regulati	on 10.8.3
	t, at an annual/intermediate survey in accordance with requestern provisions of the Convention.	gulation 10.8.3 of Annex I of the Convention, the ship was found to
Annual / Intermed	diate* survey	
Signed: Place of survey		

<sup>\*</sup> Delete as appropriate

Certificate no: Page 3 of 3 MEL 1600604

# Endorsement to extend the certificate if valid for less than 5 years where regulation 10.3 applies

The ship complies with the relevant provisions of the Convention, and this certificate shall, in accordance with regulation 10.3 of Annex I of the Convention, be accepted as valid until

Signed: Place of survey Date	NOT APPLICABLE	
Endorsement	where the renewal survey has been comp	pleted and regulation 10.4 applies
	with the relevant provisions of the Convention, and this or gulation 10.4 of Annex I of the Convention, be accepted	
Signed: Place of survey Date	NOT APPLICABLE	
	to extend the validity of the certificate un egulation 10.5 or 10.6 applies	ntil reaching the port of survey or for a period of
	l, in accordance with regulation 10.5 / 10.6 * of Annex repted as valid until	I of the
Signed: Place of survey Date	NOT APPLICABLE	
Endorsement	for advancement of anniversary date wh	ere regulation 10.8 applies
In accordance with	regulation 10.8 of Annex I of the Convention, the new a	nniversary date is
Signed: Place of survey Date	NOT APPLICABLE	
In accordance with	regulation 10.8 of Annex 1 of the Convention, the new	anniversary date is
Signed: Place of survey Date	NOT APPLICABLE	

<sup>\*</sup> Delete as appropriate

8127737/01

Page 1 of 4



# Record of Construction and Equipment for Ships other than Oil Tankers

FORM A

Supplement to the International Oil Pollution Prevention Certificate

in respect of the provisions of Annex I of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (hereinafter referred to as "the Convention").

#### Notes:

- This form is to be used for the third type of ships as categorized in the IOPP Certificate, i.e. "ships other than any of the above". For oil tankers and ships other than oil tankers with cargo tanks coming under regulation 2.2 of Annex I of the Convention, Form B shall be used.
- 2. This Record shall be permanently attached to the IOPP Certificate. The IOPP Certificate shall be available on board the ship at all times.
- 3. Entries in boxes shall be made by inserting either a cross (X) for the answer "yes" and "applicable" or a dash (-) for answers "no" and "not applicable" as appropriate.

BEACUT ANNE

- 4. Regulations mentioned in this Record refer to regulations of Annex I of the Convention and resolutions refer to those adopted by the International Maritime Organisation.
- 1. Particulars of Ship

Name of chin

	1.1	Name of ship	MAEVE ANNE
	1.1.1	IMO number	8127737
	1.2	Distinctive number or letters	ON: 856910; Unique Identifier: 28812QC
	1.3	Port of registry	Brisbane
	1.4	Gross tonnage	654
	1.5	Date of Build	
	1.5.1	Date of building contract	Not Known
	1.5.2	Date on which keel was laid or ship was at a similar stage of construction	28 November 1981
	1.5.3	Date of delivery	01 September 1982
	1.6.	Major conversion (if applicable)	
	1.6.1	Date of conversion contract	Not Applicable
	1.6.2	Date on which conversion was commenced	Not Applicable
	1.6.3	Date of completion of conversion	Not Applicable
	1.7	The ship has been accepted by the Administration as a "ship of 1.28.1 due to unforeseen delay in delivery	delivered on or before 31 December 1979" under regulation
<u>2</u> .	Equipment :	for the control of oil discharge from machinery space bilges and	i oil fuel tanks (regulations 16 and 14)
	2.1	Carriage of ballast water in oil fuel tanks:	
	2.1.1	The ship may under normal conditions carry ballast water in o	il fuel tanks
	2.1.2	The ship does not under normal conditions carry ballast water	in oil fuel tanks
	2.2	Type of oil filtering equipment fitted:	
	2.2.1	Oil filtering (15ppm) equipment (regulation 14.6):	
	2.2.1.1	Manufacturer	
	2,2.1.2	Type and model number as per Certificate of Type Test	

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register's. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

2.

8127737/01

Page 2 of 4

-	2.2.2	Oil filtering (15ppm)	equipment with alarm and automatic stop	pping device (regulation 14.7):	
	2.2.2.1	Manufacturer	Filter:	•	
			Alarm:		
	2.2.2,2	Type and model	Automatic Stopping Device: Filter:		
	2.2.2.2	number as per Certificate of Type Test	rate.		
			Alarm:		
	2.3	Approval Standards*			
	2.3.1	The separating/filter			
_	2.3.1.1		n accordance with resolution A.393(X)		
-	2.3.1.2		n accordance with resolution MEPC.60 (33	1)	
_	2.3,1.3		n accordance with resolution MEPC.107(4		
-	2.3.1.4		n accordance with resolution A.233(VII)	•	
-	2.3.1.5	· ·	n accordance with national standards not	based upon resolution A.393(X) or	A.233(VII)
-	2.3.1.6	has not been approv			
-	2.3.2	The process unit has	been approved in accordance with resolu-	tion A.444(XI)	
	2.3.3	The oil content meter	er:		
	2.3,3,1	has been approved i	n accordance with resolution A.393(X)		
-	2.3.3.2	has been approved i	has been approved in accordance with resolution MEPC,60(33)		
-	2.3.3.3	has been approved i	n accordance with resolution MEPC.107(4	9)	
	2.4	Maximum throughp	ut of the system is m³/h		
	2.5	Waiver of regulation	14:		
-	2.5.1	The requirements of	regulation 14.1 or 14.2 are waived in resp	ect of the ship in accordance with	regulation 14.5.
-	2.5.1.1	The ship is engaged	exclusively on voyages within special area(	s)	
	2.5.1.2	The ship is certified to turn-around time no	under the International Code of Safety for t exceeding 24 hours	High-Speed Craft and engaged on	a scheduled service with a
-	2.5.2	The ship is fitted wit	h holding tank(s) for the total retention on	board of all oily bilge water as followed	ows;
Tank I	dentification			Tank Location	Volume
( a) six (	acmaneacion		Frames (from)-(to)	Lateral Position	(m²)
					1
		. •			
				,	ere enderendere
				1	
				To	tal Volume (m³) 0

<sup>\*</sup> Refer to the Recommendation on international performance and test specifications of oily-water separating equipment and oil content meters adopted by the Organization on 14 November 1977 by resolution A.393(X), which superseded resolution A.233(VII). Further reference is made to the Guidelines and specifications for pollution prevention equipment for machinery space bilges adopted by the Marine Environment Protection Committee of the Organisation by resolution MEPC.60(33), which, effective on 6 July 1993, superseded resolutions A.393(X) and A.444(XI) and to the revised Guidelines and specifications for pollution prevention equipment for machinery spaces of ships adopted by the Marine Environment Protection Committee of the Organization by resolution MEPC.107(49) which, effective on 1 January 2005, superseded resolutions MEPC.60(33), A.393(X) and A.444(XI)

8127737/01

Page 3 of 4

-	2A.1	The ship is required to be constructed according to regulation	on 12A and complies with the requiren	nents of:
•		paragraphs 6 and either 7 or 8 (double hull construction)		
-	2A.2	paragraph 11 (accidental oil fuel outflow performance).  The ship is not required to comply with the requirements of	regulation 17.0	
- 3.		retention and disposal of oil residues (sludge) (regulation 12)		
-	3.1	The ship is provided with oil residue (sludge) tanks for reten		follows:
Tank	Identification	, ,	Tank Location	; Volume
		Frames (from)-(to)	Lateral Position	(m³)
				Same de la constitución de la co
				ennoner ( en
				1000年1月1日日本
				§ 1 1449
- - x	3.2 3.2.1 3.2.2 3.2.3	Means for the disposal of oil residues (sludge) retained in oil Incinerator for oil residues (sludge)  Auxiliary boiler suitable for burning oil residues (sludge)  Other acceptable means, state which  All oil residues to be disposed ashore to an approved si		
- Tank l	3.3 dentification	The ship is provided with holding tank(s) for the retention on	board of oily bilge water as follows: Tank Location	 Volume
		Frames (from)-(to)	Lateral Position	(m³)
			:	
,			Total	Volume (m³) 0

<sup>\*</sup> Oily bilge water holding tank(s) are not required by the Convention; if such tank(s) are provided they shall be listed in Table 3.3.

8127737/01

Page 4 of 4

- 4. Standard Discharge Connection (regulation 13)
- The ship is provided with a pipeline for the discharge of residues from machinery bilges and sludges to reception facilities, fitted with a standard discharge connection in accordance with regulation 13.
- 5. Shipboard Oil/Marine Pollution Emergency Plan (regulation 37)
- 5.1 The ship is provided with a shipboard oil pollution emergency plan in compliance with regulation 37
- $\mathbf{x}$  5.2 The ship is provided with a shipboard marine pollution emergency plan in compliance with regulation 37.3 approved by

SOPEP Rev 2 provided; a memoranda imposed for its approval within 5 months.

dated

02 August 2011

- 6. Exemption
- Exemptions have been granted by the Administration from the requirements of chapter 3 of Annex I of the Convention in accordance with regulation 3.1 on those items listed under paragraph(s) of this Record
- 7. Equivalents (regulation 5)
- 7.1 Equivalents have been approved by the Administration for certain requirements of Annex I on those items listed under paragraph(s) of this Record

This is to certify that this Record is correct in all respects.

Issued at Sydney

on 07 June 2016

Compliance with regulation 14.1 is not required for operations in Port Jackson and within 15nm thereof under the provisions of regulation 14.3.

Lloyd's Register International
Initials: I
Sydney
Register

Surveyor to Lloyd's Register International a member of the Lloyd's Register group.



4/E52 Gold Coast City Marina, Coomera QLD Australia 4209 PO Box 383 Burleigh Heads QLD Australia 4220 info@auroramarinedesign.com www.auroramarinedesign.com P: +61 7 5502 3260

# **NATIONAL REGULATOR RECOMMENDATION SCHEDULE**

Schedule Reference Number: C-0592-SRN-030616

#### **Vessel Details**

VC33CI DCCall3	
Vessel Name	Maeve Anne
Vessel Type	Dumb Barge
Recommendation Date	03/06/16
Unique Identifier	28812QC
File Number	245/03023
Vessel Class	2C,2D,2E
	on behalf of
Accredited Entity	Aurora Marine Pty Ltd
Accreditation No.	

**Design Compliance** 

Design Compnance		
Hull configuration		Monohull
Hull Construction Material		Steel
Superstructure material		N/A
Length measured		13.46m
Loadline Length	If Required	48.00
Equivalent length	Fast Craft	N/A
Beam		24.0m
Depth		2.20m
Main Engine	Make	N/A
	Model	
	Fuel Type	
	No Engines	
	Max Kw	
Vessel Purpose		Dumb Barge

**Stability Compliance** 

ocability compliance			
Plan / document No	Rule used	Criteria	
C-0592-115-S2	NSCV	C6A - 5D and 6D	

Class	Crew	Passengers
2E		N/A

Operational restrictions

Cargo limitations	As outlined in stability addendum
Crane Operations	As outlined in stability addendum
General	Crane operations limited to operations as defined in stability documentation - operations/ lifts or configurations in excess of those listed in the stability Addendum to be checked by Naval Architect prior to operations commencing

Signed

For Aurora Marine Design

OUTOTO monne design



# **PROHIBITION NOTICE**

Notice No: PR00267

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1 ("National Law") section 111

Vessel ID / Name	Certificate ID	Date of observation	Time of observation		
28812 : MAEVE ANNE	COOQ900032759	30/05/2016	17:00		
MSI ID MSI telephone No	Location of vessel at	time of observation (coordi			
MSI-120998 0428 321 573		'S	)		
Location of observation		Personal and a second s			
Barangaroo, Port Jackson		om an arrandom con angulas angulas <sub>mangulas</sub> <sub>mangul</sub> as pandahkan angunas ing mangulas angulas angulas kabban kabb			
Details of: Master / Holder	of Certificate of Operation	Person with possession of	or control of the vessel		
Name	(Circle approp	riate)			
BMC EQUIPMENT PTY LTD		Idress			
Telephone		O BOX 5338, VEST END			
07 3844 7465 QUEENSLAND 4101					
Declaration <del>-I, make the following declaration (</del>	n <del>s</del> :				
- <del>I, make the following declaration (</del>	Name, address and occupation of per	on making the declaration			
1, make the following declaration of	***********************************	on making the declaration	in my capacity as a		
1, make the following declaration of the foll	Name, address and occupation of pers	Ptvltd ACN	in my capacity as a		
The state of the following declaration of the state of th	Name, address and occupation of pers	Pty Ltd, ACN	*,		
OR  Name and address  duly authorised [sole] director of Ihave-/  Name and Exiles	Name, address and occupation of pers	Pty Ltd, ACN	in my capacity as a  *, the following item(s) as		
OR  Name and address  duly authorised [sole] director of Ihave-/ RMC FRUIP required by Prohibition	Name, address and occupation of pers	Pty Ltd, ACN Pty Ltd has* actioned	*, the following item(s) as		
OR  Name and address  duly authorised [sole] director of Ihave-/ RMC FRUIP required by Prohibition	Name, address and occupation of pers	Pty Ltd, ACN	*, the following item(s) as		
OR  Name and address  duly authorised [sole] director of [have-/ BHC Expl-(exprequired by Prohibition Notice P  List item numbers:	Name, address and occupation of personal companies of personal companies and occupation occupation of personal companies and occupation occupat	Pty Ltd, ACN Pty Ltd has* actioned	the following item(s) as onal Law.		
OR  Name and address  duly authorised [sole] director of I have / RMC ERSIPHES required by Prohibition  Notice P  List item numbers:	Name, address and occupation of personal companies of personal companies and occupation occupation of personal companies and occupation occupat	Pty Ltd, ACN Pty Ltd has* actioned nder section 111 of the Natio	the following item(s) as onal Law.		

# **IMPORTANT NOTE**

The notice remains in force until an MSI has notified the recipient in writing that the notice ceases to have effect. Every action listed on the notice at the section entitled "clearance" must be completed and cleared by an MSI before an MSI will consider terminating the effect of this notice.



# **PROHIBITION NOTICE**

Notice No: PR00267

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1 ("National Law") section 111

Vessel ID / Name		Certificate ID	Date of observation	Time of observation				
28812 : MAEV	E ANNE	COOQ900032759	30/05/2016	17:00				
MSI ID MSI-120998	MSI telephone No. 0428 321 573	Location of vessel at t	el at time of observation (coordinates GDA94 preferred) 'S 's 's 'E					
Location of obs	ervation							
Barangaroo, P	ort Jackson							
Details o	f: Master Holder of	Certificate of Operation	Person with possession	or control of the vessel				
Name		7 7 7	dress					
BMC EQUIPMENT PTY LTD			) BOX 5338,					
Telephone			EST END					
07 3844 7465		au	JEENSLAND 4101					
l.	man, and an analysis of the second se		. a Marine Safety Insp	ector ("MSI") under the				
, National Law or	n this 30 da	y of May ,						
do reasonably k	pelieve that an activity	(s) is occurring or may o	ccur, that involves or will in	ivolve, it it occurs,				
		(s) is occurring or may o erious risk to the enviro						
a risk to the saf	ety of person(s), or a s		nment, the details of which					
a risk to the saf	ety of person(s), or a s	erious risk to the enviro	nment, the details of which					
a risk to the saf I direct that the	ety of person(s), or a s activity(s) cease or ce	erious risk to the enviro ase in a manner so direc	nment, the details of which ted by this notice  Signed	ara listed halow				
a risk to the saf I direct that the Activities and rea	ety of person(s), or a s activity(s) cease or ce asons for believing they	erious risk to the enviro ase in a manner so direc involve serious risks to the	nment, the details of which ted by this notice  Signed	risk to the environment				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Op	ety of person(s), or a s activity(s) cease or ce asons for believing they peration of a domestic	erious risk to the environase in a manner so direction involve serious risks to the Commercial Vessel (DCV	nment, the details of which ted by this notice  Signed  safety of persons or a serious // that is not authorised by	risk to the environment National Law certification.				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope	ety of person(s), or a s activity(s) cease or ce asons for believing they peration of a domestic eration of a DCV witho	erious risk to the environase in a manner so direction in the control of the commercial vessel (DCV) at appropriate National	nment, the details of which ted by this notice  Signed  safety of persons or a serious /) that is not authorised by Law certification that evide	risk to the environment				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope	ety of person(s), or a s activity(s) cease or ce asons for believing they peration of a domestic eration of a DCV witho	erious risk to the environase in a manner so direction in the control of the commercial vessel (DCV) at appropriate National	nment, the details of which ted by this notice  Signed  safety of persons or a serious /) that is not authorised by Law certification that evide	risk to the environment National Law certification. nces that the vessel and its				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope operation compension	ety of person(s), or a sectivity(s) cease or ce asons for believing they peration of a domestic eration of a DCV withoutlies with the safety st	erious risk to the environase in a manner so directions in a manner so direction involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it	nment, the details of which ited by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po	risk to the environment National Law certification. nces that the vessel and its				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope operation comp environment.	ety of person(s), or a sectivity(s) cease or ce asons for believing they peration of a domestic eration of a DCV withoutlies with the safety st followed in relation to t	erious risk to the enviro ase in a manner so direct involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it he above activities to com	nment, the details of which ited by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po	risk to the environment National Law certification. Inces that the vessel and its erson or a serious risk to the				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope operation compension compension compension compension compension compensions to be a compension to	ety of person(s), or a sectivity(s) cease or ceasons for believing they peration of a domestic eration of a DCV withoutles with the safety stollowed in relation to the the vessel in connection	erious risk to the environase in a manner so direction involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it the above activities to combion with a commercial,	nment, the details of which ted by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po  ply with this notice research or government ac	risk to the environment National Law certification. Inces that the vessel and its erson or a serious risk to the				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope operation comp environment. Directions to be A . DO NOT us	ety of person(s), or a sectivity(s) cease or ceasons for believing they peration of a domestic eration of a DCV without olies with the safety state of the vessel in connector the following action of the following action	erious risk to the environase in a manner so direction involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it the above activities to combion with a commercial,	nment, the details of which ted by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po  ply with this notice research or government ac	risk to the environment National Law certification. Inces that the vessel and its erson or a serious risk to the				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope REASONS - Ope operation comp environment. Directions to be A . DO NOT us	ety of person(s), or a sectivity(s) cease or ceasons for believing they peration of a domestic eration of a DCV withoutles with the safety stollowed in relation to the the vessel in connection	erious risk to the environase in a manner so direction involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it the above activities to combion with a commercial,	nment, the details of which ted by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po  ply with this notice research or government ac	risk to the environment National Law certification. Inces that the vessel and its erson or a serious risk to the tivity.  before an MSI will consider				
a risk to the saf I direct that the Activities and rea ACTIVITIES - Ope Operation comp environment. Directions to be A . DO NOT use Clearance: All terminating the	ety of person(s), or a sectivity(s) cease or ceasons for believing they peration of a domestic eration of a DCV without olies with the safety state of the vessel in connector the following action of the following action	erious risk to the environase in a manner so direction involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it the above activities to combion with a commercial,	nment, the details of which ted by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po  ply with this notice research or government ac	risk to the environment National Law certification. Inces that the vessel and its erson or a serious risk to the tivity.  before an MSI will consider				
a risk to the safe direct that the Activities and react ACTIVITIES - Operation compension to be a Directions to be a DO NOT use Clearance: All derminating the Action required	ety of person(s), or a sectivity(s) cease or cease or cease or cease or detection of a domestice ration of a DCV without on the safety state of the vessel in connection of the following action effect of this notice.	erious risk to the environase in a manner so direct involve serious risks to the Commercial Vessel (DCV ut appropriate National andards that apply to it the above activities to combine with a commercial, as must be taken and clean	nment, the details of which ted by this notice  Signed  safety of persons or a serious  that is not authorised by Law certification that evide is a risk to the safety of a po  ply with this notice research or government ac	risk to the environment National Law certification. Inces that the vessel and its erson or a serious risk to the tivity.  before an MSI will consider  Clearance method Inspect - I; Proof - P; Declare - I				

IMPORTANT INFORMATION ON REVERSE

AMSA 500 (9/14)

#### **IMPORTANT**

A person subject to a prohibition notice commits an offence and is subject to a penalty if an act or omission of the person breaches a direction of this notice. (National Law section 111).

A person commits an offence and is subject to a penalty if the person fails to display this notice as directed by the MSI or tampers with or removes the notice before the notice ceases to have effect. (National Law section 112 & 113).

#### Maximum penalty: 60 penalty units

The issue of a prohibition notice is a reviewable decision pursuant to section 139 of the National Law.

#### **REVIEW OF DECISION**

#### internal review

A person affected by the decision to issue this notice may, within 30 days of the date of notice, apply to the National Regulator for review of that decision.

The application for internal review must be made in writing to the Internal Reviewer, Domestic Vessel Division ("Internal reviewer"), and must be accompanied by such information as the Internal Reviewer requires to enable the decision to be properly reviewed.

The Internal Reviewer may:

- (a) affirm, vary, or revoke the original decision by the Marine Safety Inspector; or
- (b) if the Internal Reviewer revokes the decision, make such other decision as the Internal Reviewer thinks appropriate.

#### Review by the Administrative Appeals Tribunal

Following internal review, application may be made to the Administrative Appeals Tribunal for review of a decision by the Internal Reviewer.

The notice of an internal review decision by the Internal Reviewer must include a statement to the effect that, if the person is dissatisfied with the decision, application may, subject to the *Administrative Appeals Tribunal Act 1975*, be made to the Administrative Appeals Tribunal for review of the decision. The notice must also include a statement to the effect that the person may request a statement under section 28 of that Act. However, failure to provide such statement does not affect the validity of that decision.

#### Decisions under review

Section 44A of the *Administrative Appeals Tribunal Act 1975*, section 15 of the *Administrative Decisions (Judicial Review) Act 1977* and section 20 of the *Federal Court of Australia Act 1976* provide for a stay of a decision. However, in the absence of a stay being ordered, an application for review does not affect the operation of the decision, or prevent the taking of action to enforce the implementation of the decision.

#### **CLEARANCE**

The notice remains in force until an MSI has notified the recipient in writing that the notice ceases to have effect. Every action listed on the notice at the section entitled "clearance" must be completed and cleared by an MSI before an MSI will consider terminating the effect of this notice. The evidence required to meet each of the clearance methods is as follows:

Inspect ("I") - An MSI must inspect the vessel to verify that the action has been completed to a satisfactory standard.

**Proof** ("P") – The relevant document(s) mentioned in the Action required column must be provided in the manner directed as proof that the action has been taken to a satisfactory standard.

Declare ("D") - A declaration by the responsible person stating that all of the actions listed have been carried out must be provided.

# **APPLICATION FOR TEMPORARY OPERATIONS**



Marine Safety (Domestic Commercial Vessel) National Lew Act 2012
EX07 Marine Safety (Temporary operations) Exemption 2016
This form is to be used to apply to the National Regulator for approval under section 6 or section 7 of EX07 Marine Safety (Temporary operations) Exemption 2016. Approval may only be granted by the National Regulator where the relevant criteria stated in EX07 Marine Safety (Temporary operations) Exemption 2016 is mat.

If you are unaure of any information, or it is not applicable, please leave blank. Please attach a seperate sheet if you need to provide additional information. A. Applicant details Surname Given names BMC EQUIPMENT ACN) ABN (if applicable) Vessel name MAEVE 28812 OC **B. Provision of information** Are you seeking approval under EX07 Marine Safety (Temporary operations) Exemption 2016 to: 1 Operate your vessel while waiting for a certificate of survey to be issued? Yes No 2 Operate your vessel while waiting for a certificate of operation to be issued? TYES KNO 3 Enable the building, disposing of, fitting out, relocation, removing or repair of the vessel, or for a sea trial? ☐Yes ☑No 4. Operate your vessel in a way that is not authorised by the certificate of operation? ☐ Yes ZNo 5. Operate your vessel in a way for which the certificate of survey does not provide? Yes X No Explain how the permit sought will not jeopardise the safety of the vessel, or other vessels, or people on board (please provide supporting evidence). Vessel has a valid Certificate of Operation in place (attached) Vessel has a Safety Management System in Place (attached) Vessel is certified in Class by Lloyd's Register Stability and deck strength calculations have been prepared and endorsed by an accredited Marine Surveyor (attached) in addition to the original stability booklet Vessel has a good track record of operating in current condition and for similar use Required Safety Equipment in place C. Applicant's declaration and consent I declare that: To the best of my knowledge the information provided by me in this application (and any attechments I have included with this application) is true and correct. I consent to the Australian Marilime Safety Authority, as the National Regulator, making all reasonable enquiree in order to verify that the information provided by me in this application (and any attachments I have included with this application) is true and I understand and acknowledge that the Australian Marilime Safety Authority, as the National Regulator, may ask that I provide any information or document that the National Regulator reasonably considers necessary for consideration of this application. I understand and acknowledge that the Australian Marilime Safety Authority, as the National Regulator, may ask another person to provide any information, document or agreement that the National Regulator reasonably considers necessary for consideration of this application. Signature Name Where to lodge: Roads and Marilime Services NSW . Maritime Salety QLD . Transport Salety V/C . Marine and Salety TAS Department of Planning, Transport and Infrastructure SA . Department of Transport WA . Marine Safety NT. Frivacy Statement
The collection of information requested in this form is required or authorised by Schadule 1 of the Marine Sefety (Domestic Commercial Vessel) National Law Act 2012 (the Act). It will be used for purposes related to the Act and may be provided to Commonwardth or State / Torritory government agencies for the purposes of marine safety. Falure to provide the information may result in the transaction not being processed. To contact us, or for more information on how to govern or correct your personal information, how to make a privacy complaint, of how your information may be used or disclosed for purposes beyond those described in this statement, what www.ninea.gov.eu/privacy.



OF	FICE U	SE ONLY	<del></del>					
D. Action by National Regulator			•					
Has the applicant signed the declaration?			⊠ Yes 🗀	No 🗌 N/A				
2. Will a certificate of survey be issued?			X Yes .	No NA				
3. Will a certificate of operation be issued?	⊠ Yes □	No 🗌 N/A						
<ol> <li>The approval, together with the conditions to with earlety of a vessel or a person on board a vessel.</li> </ol>	⊠ Yes □	No N/A						
6. Is a report on the condition of the vessel require								
If 'Yes, has an inspection and a report on the o		No   N/A						
6. Will the approval be granted?	⊠ Yes ∐	No UN/A						
if 'Yee', complete Approval Section E if 'No', provide reasons below	If 'Yes', complete Approval Section E							
11 140 h Manna tetanina harata								
	•			İ				
	······································	7.2 7.1						
E. Approval			<b>.</b>	. din				
I hereby grant a temporary permit to operate the vest. Exemption 2018, subject to the conditions of the exedocument.	el listed b nption, the	elow under Maine Safety (1 e conditions below, and any o	emporary opera conditions attac	hed to this				
Applicant name	<b>—</b> 1.		~	⊠ v □ N.				
	Appro	ovel under Section 6 or section	on r is granted	M 168 ☐ NO				
Company name		, ·						
BMC Equipment Pty Ltd								
Vessel name	<u>u</u>	inique identifier						
Maeve Anne		28812QC						
Conditions Imposed		· ·						
This temporary exemption authorises the vessel to	operate in	smooth waters (2E) as defin	ed in NSCV Par	tB.				
Maximum number of persons fourteen (14). Crew	nd special	personnel only, no passeng	ers to be carried	d.				
Operations restricted to daylight hours only.	Ith the NS	CV Part E.	*					
Appropriate crew to be determined in accordance with the NSCV Part E.  Current class documentation for hull and machinery to be carried aboard.								
Appropriate safety equipment is to be provided for the full complement.								
All crew and special personel to wear self-inflating pfd's at all times.								
All applicable state waterway legislation is to be observed.								
A Safety Management System (SMS) is to be implemented in accordance with NSCV Part E.  Procedures for vessel loading including ballasting and crane operations are to be in accordance with the information								
contained within the stability booklet, addendums a								
A copy of this Temporary Operation Exemption to I								
Effective from		fective to						
08/06/2016		6/09/2016						
UOIUUIZU IU			,					
Delegate of the National Regulator Sign	ature	ST- HO WARITIME S. S. P.		Date				
for Roads and Maritime Services		Lings; g Sec. 3		08/06/2016				
		1		1				
		GOTT TOWNER WAS CO.						



AMSA EX07

## Marine Safety (Temporary operations) Exemption 2016

I, Michael Kinley, Chief Executive Officer of the Australian Maritime Safety Authority (the National Marine Safety Regulator under section 9 of the *Marine Safety (Domestic Commercial Vessel) National Law*), make this instrument under subsection 143(1) of the *Marine Safety (Domestic Commercial Vessel) National Law*.

4 February 2016

## Michael Kinley

Chief Executive Officer

## 1 Name of instrument

This instrument is Marine Safety (Temporary operations) Exemption 2016.

### 2 Duration

This instrument:

- (a) commences when it is made; and
- (b) ceases to have effect at the end of 30 June 2018.

## 3 Repeal

Marine Safety (Temporary operations) Exemption 2015 made on 12 November 2015 is repealed.

## 4 Definitions

In this instrument:

accredited marine surveyor has the meaning given by section 19 of the Marine Safety (Domestic Commercial Vessel) National Law Regulation 2013.

*Note* The list of accredited marine surveyors is available on the AMSA website at <a href="http://www.amsa.gov.au">http://www.amsa.gov.au</a>.

*sea trial* means a trial, test or demonstration, at sea, of seaworthiness or other operational aspect of a vessel or its equipment.

#### 5 Exemption — application being decided

- (1) A domestic commercial vessel is exempt from the requirement to have a certificate of survey for the period mentioned in subsection (2) if:
  - (a) a certificate of survey has been in force for the vessel; and
  - (b) the certificate of survey:
    - (i) was not revoked; or
    - (ii) is not suspended; and
  - (c) an application for a further certificate of survey for the vessel has been made; and
  - (d) an accredited marine surveyor:
    - (i) has surveyed the vessel within 60 days before or after the certificate of survey ceased to be in force; and
    - (ii) considers that the vessel complies with the construction and equipment standards that apply to the vessel; and
    - (iii) given the owner a signed document to that effect; and
  - (e) the owner keeps the document on the vessel; and
  - (f) the vessel is not subject to a current detention order under section 101 of the Marine Safety (Domestic Commercial Vessel) National Law.

Note for paragraph (d) A list of accredited marine surveyors is available on the AMSA website at <a href="http://www.amsa.gov.au">http://www.amsa.gov.au</a>.

- (2) The exemption:
  - (a) starts when the certificate of survey that has been in force expires; and
  - (b) ends at the earlier of:
    - (i) when the owner of the vessel receives the certificate of survey mentioned in paragraph (1)(c); or
    - (ii) 90 days after it commences.
- (3) A vessel that is exempt under this section cannot be exempt again before the certificate of survey mentioned in paragraph (1)(c) is issued.

#### 6 Exemption — operation without certificates

A domestic commercial vessel is exempt from the requirement to have a certificate of survey and a certificate of operation for a period if:

- (a) an application for approval is made to the National Regulator in the approved form; and
- (b) the National Regulator is satisfied that:
  - (i) the vessel has been surveyed and that a certificate of survey and certificate of operation will be issued; or
  - (ii) approval is necessary to enable the building, disposing of, fitting out, relocating, removing or repair of the vessel; or
  - (iii) the approval is for a sea trial; and
- (c) a report on the condition of the vessel is provided to the National Regulator if required; and
- (d) for a sea trial mentioned in subparagraph (b)(iii) the owner of the vessel gives the National Regulator a passage plan for the sea trial, if required; and

(e) the National Regulator approves in writing the operation of the vessel without the certificates for the period.

Note 1 Approval may be given despite expiry of the certificate of survey or certificate of operation or non-compliance with any conditions of the certificate.

Note 2 For an application under this section or section 7 a fee may be charged — see s 9 of the Marine Safety (Domestic Commercial Vessel) National Law Act 2012.

Note for paragraph (a) For the form of application for this section or section 7, and how it will be processed, contact the National Regulator.

#### 7 Exemption — operation outside scope of certificate

- (1) This section applies to a vessel:
  - (a) that has a certificate of operation and a certificate of survey; and
  - (b) for which the owner applies to the National Regulator for approval to operate in a way:
    - (i) that is not authorised by the certificate of operation; or
    - (ii) for which the certificate of survey does not provide.
- (2) The vessel is exempt from the requirement to comply with the certificates for a period if:
  - (a) an application is made in the approved form; and
  - (b) a report on the condition of the vessel is given to the National Regulator, if required; and
  - (c) the National Regulator approves in writing the operation of the vessel in the way sought in the application.

#### 8 Conditions for sections 6 and 7

For an exemption to which section 6 or 7 applies:

- (a) the period must not be more than 90 days; and
- (b) the National Regulator may make the approval subject to further conditions.

#### 9 Transitional matters

An approval issued under *Marine safety (temporary operations) Exemption* 2014 or *Marine Safety (Temporary operations) Exemption* 2015 that is in force when this instrument commences continues to be in force as if the exemption under which it was issued had not been repealed.



Exemption Number EX2016/A273

#### SPECIFIC EXEMPTION

Issued under the provisions of the *Marine Safety (Domestic Commercial Vessel)*National Law Act 2012 by the

### **Australian Maritime Safety Authority**

#### Particulars of vessel

Name of Vessel  MAEVE ANNE	Name of Vessel  MAEVE ANNE		Unique Identifier 28812QC		
Measured Length	Service	Category	Vessel Type		
48.0	2C,	2D, 2E	BARGE		
Owner / Operator		ABN / ACN			
BRADY MARINE & CIVIL PTY LTD		·	55 152 153 636		

#### THIS IS TO CERTIFY:

That, under the authority conferred by s.143 of the *Marine Safety (Domestic Commercial Vessel) National Law Act 2012*, the non self propelled barge identified above is exempt from the requirements outlined below.

#### Relevant legislation:

- Marine Order 503 (Certificates of survey) 2013 Section 8(b) (i), 10(2)(b), 12(b)(ii) and 14(f) in so far as it requires the vessel to comply with the National Standard for Commercial Vessels (NSCV) NSCV, Part C1 3.4, Part C5A Chapters 3, 5, and 6, NSCV Part C7A, NSCV Part C7B, and NSCV Part C7C.
- 2. Marine Order 504 (certificates of operation National Law) in so far as it requires compliance with NSCV Part E for the carriage of a core complement.

#### Exemptions granted:

- 1. The requirement for provision of masts and positions for signals to comply with NSCV C1 Chapter 3.3.
- 2. The requirement for the vessel's propulsion, fluid, and steering systems to comply with NSCV Part C5A Chapters 3, 5, and 6 respectively.



- 3. The requirement to carry safety equipment as specified in NSCV Part C7A.
- The requirement to carry communications equipment as specified in NSCV Part C7B.
- 5. The requirement to carry navigation equipment as specified in NSCV Part C7C.
- 6. The requirement to carry the core complement specified in NSCV Part E Schedule 2 Item 6 Clause 9

#### Conditions on which AMSA grants this Exemption Certificate:

- 1. Lifejackets to be worn at all times and a means of re-boarding from the water to be provided.
- 2. Navigation lights and shapes in accordance with COLREGs to be displayed when undertaking transit voyages. Lighting and shapes to be in accordance with local waterway requirements when the vessel is on-site.
- 3. The operator must provide a stand by vessel to carry safety equipment for the total number of persons on board the barge.
- 4. A reliable method of communication between the stand by vessel and the barge is to be provided whenever persons are on the barge.
- 5. The owner of the vessel must determine the appropriate crew for each type of operation of the vessel by evaluating the risks to the vessel, the environment and all persons who will be on or near the vessel.
- 6. Stability and structural calculations for each specific operation and loading to be completed by an AMSA accredited surveyor.
- 7. Manufacturers' instructions for lock safe working load and deck pressures are not to be exceeded (where applicable).
- 8. 2C operations restricted to transit voyages only within fifteen (15) nautical miles from sheltered waters in reasonable weather in accordance with Lloyds register certificate of class. No persons permitted onboard in 2C operations.
- 9. Vessel to be maintained in class with a recognised classification society.

Please note this decision does not relieve you of your general safety duties which arise under Part 3 of the National Law.

This Exemption shall remain in force indefinitely unless revoked by AMSA.

Issued at Canberra 6 October 2016

(Place of issue of certificate) (Date of issue)

(Signature of authorised official issuing the certificate)

Brian Hemming PSM
National Operations Manager
Domestic Vessels

#### **APPENDIX A**

#### **Decision to grant exemption**

AMSA is satisfied that the exemption granted, taken together with the conditions imposed, will not jeopardise the safety of the vessel or a person on board the vessel.

#### Review of decision to impose conditions - internal review

This decision is a reviewable decision under section 139(1)(q) of the National Law. You may, within 30 days of receipt of this notice, apply to the National Regulator for internal review of this decision.

An application for internal review should be completed using the approved form, together with any supporting documentation, and emailed to DVDInternalreview@amsa.gov.au, or alternatively addressed in writing to:

The Secretariat
Domestic Vessels
Australian Maritime Safety Authority
GPO Box 2181
Canberra ACT 2601

This form can be found at: <a href="http://amsa.gov.au/forms-and-publications/domestic/forms/">http://amsa.gov.au/forms-and-publications/domestic/forms/</a>

Under section 140(5), the person conducting the internal review of this decision may:

- (a) make a decision affirming, varying or revoking this decision; and
- (b) if this decision is revoked, make such other decision as the person thinks appropriate.

The National Regulator will advise you, in writing, of the outcome of the internal review.

## **CERTIFICATE OF SURVEY AND**

## **OPERATION**



Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1

Marine Order 503 (Certificates of Survey - national law) Marine Order 504 (Certificates of Operation - national law)

Name of Vessel		Hull Material	Type of Vesse	
MAEVE ANNE	JAEVE ANNE		CRANE BAR	GE <b>28812QC</b>
Measured Length (m)	Moulded Breadth (r		epth (m)	Gross Tonnage
48.00	24.00	2.20		654
	N11	Control	rel NSAMS Level 1	
Engine(s)	Number	Drive Type	el Novivio rever i	
Description	Power (kW)	Drive Type		
Class	Vessel Owner			
2E	BMC Equipment Pty	/ Ltd.		
Vessel Operator				
BMC Equipment Pty Ltd.				
Operational Limits and Cond	litions			
THIS CERTIFICATE AUTHORISES	THE VESSEL TO OPERATE:-			
IN SMOOTH WATERS AS DEFINED	IN NSCV PART E			
THIS CERTIFICATE IS ISSUED S				
	ESTRICTED TO THE HOURS BETWEEN			
HOLDING VALID & UNEXPIRED CE	RTIFICATES FROM A CLASSIFICATI	ON SOCIETY FOR HULL & MACHINE	ERY.	
IN ACCORDANCE WITH SECTION 6 VESSEL ARE TO ENSURE IT COMP ENVIRONMENTAL AND WATERWAY M	LIES WITH RELEVANT LUCKE LAWS	THAT APPLY TO ITS OPERATION	CONS WITH A LEGAL RESPONS INCLUSIVE OF WORKPLACE SA	SIBILITY TO THE SAFE OPERATION OF THIS AFETY AND LAWS PERTAINING TO
	OPERATED WITHIN THE STABILITY	ADDENDUM REQUIREMENTS AND LI	AITATIONS	
		•		
		•		
Survey Due Dates: See	Appendix C	Equivalen	Solutions and Exemptio	ons: See Appendix D
Number of persons this ves	sel is certified to carry			
Crew	Maximum Passengers	Special/Other Personnel	Total Persons 14	Berthed
Minimum safety crewing:		Required	Safety Equipment:	
William ducty didening.				
This is to certify that the pro	visions of the appropriate legis	slation with respect to the surv	ey of the vessel have be	en complied with.
This certificate is due to exp	ire on 07/06/2021			

NB: This certificate is valid unless revoked or suspended by the National Regulator.

Date 21/10/2016

Delegate of the National Regulator Roads and Maritime Services, NSW

Date 21/10/2016

21/10/2016

Delegate of the National Regulator Roads and Maritime Services, NSW

Due Dates - Periodic Survey	Due Dates – Out of Water Survey	Due Dates – Shaft Survey
07/06/2017 , 07/06/2018 , 07/06/2019 , 07/06/2020 , 07/06/2021		
Due Dates – Liferaft Survey	Due Dates – Compass Adjustment	Due Dates – Insulation Test
Due Dates – Fuel Tank Inspection	Due Dates - Rudder Survey	Due Dates – Loadline Survey 08/10/2017
Due Dates - Anchor Locker Inspection	Due Dates – Internal Hull Inspection	Due Dates – Radio Survey

ROADS AND MARITIME SERVICES
DELEGATE OF THE NATIONAL REGULATOR
DATE: 21/10/2016

#### APPENDIX D

#### EXEMPTIONS AND EQUIVALENT SOLUTIONS

VESSEL IDENTIFIER: 28812QC

VESSEL NAME: MAEVE ANNE

CLASS: 2C, 2D, 2E

IT IS A CONDITION ON THE CERTIFICATE OF SURVEY THAT THE VESSEL MUST COMPLY WITH THE CONSTRUCTION, SUBDIVISION, STABILITY AND EQUIPMENT STANDARDS THAT APPLIES TO THE VESSEL. COMPLIANCE WITH THE REQUIRED OUTCOMES OF THE STANDARD MAY ALSO ACHIEVED THROUGH APPLICATION OF EQUIVALENT MEANS OF COMPLIANCE OR EXEMPTIONS.

#### SPECIFIC EXEMPTIONS

IN ACCORDANCE WITH AMSA SPECIFIC EXEMPTION EX2016/A273 THIS VESSEL IS EXEMPT FROM MO 503

(Certificates of Survey) 2013 -Section 89b) (i), 10(2)(b), 12(b)(ii) and 14(f)IN SO FAR AS IT REQUIRES THE VESSEL TO COMPLY WITH THE NSCV, PART C1 3.4, PART C5A CHAPTERS 3, 5, AND 6, NSCV PART C7A, NSCV PART C7B, AND NSCV PART C7C AND ALSO; MO 504 (certificates of operation - National Law) IN SO FAR AS IT REQUIRES COMPLIANCE WITH NSCV PART E FOR THE CARRIAGE OF A CORE COMPLEMENT, THE VESSEL IS EXEMPT FROM THE REQUIREMENT:

- 1. FOR PROVISION OF MASTS AND POSITIONS FOR SIGNALS TO COMPLY WITH NSCV C1 CHAPTER 3.3.
- 2. FOR THE VESSEL'S PROPULSION, FLUID, AND STEERING SYSTEMS TO COMPLY WITH NSCV PART C5A CHAPTERS 3, 5, AND 6 RESPECTIVELY.
- 3. TO CARRY SAFETY EQUIPMENT AS SPECIFIED IN NSCV PART C7A.
- 4. TO CARRY COMMUNICATIONS EQUIPMENT AS SPECIFIED IN NSCV PART C7B.
- 5. TO CARRY NAVIGATION EQUIPMENT AS SPECIFIED IN NSCV PART C7C.
- 6. TO CARRY THE CORE COMPLEMENT SPECIFIED IN NSCV PART E SCHEDULE 2 ITEM 6 CLAUSE 9.

#### UNDER THE CONDITIONS

- 1. LIFEJACKETS TO BE WORN AT ALL TIMES AND A MEANS OF RE-BOARDING FROM THE WATER TO BE PROVIDED.
- 2. NAVIGATION LIGHTS AND SHAPES IN ACCORDANCE WITH COLREGS TO BE DISPLAYED WHEN UNDERTAKING TRANSIT VOYAGES. LIGHTING AND SHAPES TO BE IN ACCORDANCE WITH LOCAL WATERWAY REQUIREMENTS WHEN THE VESSEL IS ON-SITE.
- . 3. THE OPERATOR MUST PROVIDE A STAND BY VESSEL TO CARRY SAFETY EQUIPMENT FOR THE TOTAL NUMBER OF PERSONS ON BOARD THE BARGE.
- 4. A RELIABLE METHOD OF COMMUNICATION BETWEEN THE STAND BY VESSEL AND THE BARGE IS TO BE PROVIDED WHENEVER PERSONS ARE ON THE BARGE.
- 5. THE OWNER OF THE VESSEL MUST DETERMINE THE APPROPRIATE CREW FOR EACH TYPE OF OPERATION OF THE VESSEL BY EVALUATING THE RISKS TO THE VESSEL, THE ENVIRONMENT AND ALL PERSONS WHO WILL BE ON OR NEAR THE VESSEL.
- 6. STABILITY AND STRUCTURAL CALCULATIONS FOR EACH SPECIFIC OPERATION AND LOADING TO BE COMPLETED BY AN AMSA ACCREDITED SURVEYOR.
- 7. MANUFACTURERS' INSTRUCTIONS FOR LOCK SAFE WORKING LOAD AND DECK PRESSURES ARE NOT TO BE EXCEEDED (WHERE APPLICABLE).
- 8. 2C OPERATIONS RESTRICTED TO TRANSIT VOYAGES ONLY WITHIN FIFTEEN (15) NAUTICAL MILES FROM SHELTERED WATERS IN REASONABLE WEATHER IN ACCORDANCE WITH LLOYDS REGISTER CERTIFICATE OF CLASS. NO PERSONS PERMITTED ONBOARD AND MARITIME SERVER
  - TN 2C OPERATIONS.
- 9. VESSEL TO BE MAINTAINED IN CLASS WITH A RECOGNISED CLASSIFICATION SO

#### EOUIVALENT MEANS OF COMPLIANCE

NONE

# **CERTIFICATE OF SURVEY AND**





OPERATION

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1 Marine Order 503 (Certificates of Survey - national law) Marine Order 504 (Certificates of Operation - national law)

Name of Vessel		Hull Materia	al T	ype of Vessel	Identifying Number
MAEVE ANNE		STEEL	C	RANE BARGE	28812QC
Measured Length (m)	Moulded Dron dib (no)	t for all d			
48.00	Moulded Breadth (m) 24.00	2.20	ed Depth (m)	Gross 654	s Tonnage
Engine(s)	Number	Survo	y Level NSAMS	Lovald	
Description	Power (kW)	Drive 1	•	Level 1	
Class	Vessel Owner				
2D	BMC Equipment Pty Ltd	i.			
Vessel Operator BMC Equipment Pty Ltd.	-				
Operational Limits and Conditions	<b>3</b>	<u> </u>	<b>F</b> . (1)		
THIS CERTIFICATE AUTHORISES THE V	essel to operate:-		<del>,</del>		
IN PARTIALLY SMOOTH WATERS AS DEFI	INED IN NSCV PART B				
THIS CERTIFICATE IS ISSUED SUBJECT	· TO; -				
THE VESSEL OPERATION BEING RESTRIC	TTED TO THE HOURS BETWEEN SUN	RISE AND SUNSET ONLY.			
HOLDING VALID & UNEXPIRED CERTIFIC	TATES FROM A CLASSIFICATION S	OCIETY FOR HULL & MAC	HINERY.		
IN ACCORDANCE WITH SECTION 6 OF TH JESSEL ARE TO ENSURE IT COMPLIES W ENVIRONMENTAL AND WATERWAY MANAGEM	ITH RELEVANT LOCAL LAWS THAT				
NO PERSONS TO BE CARRIED ON BOARD	DURING VOYAGES				
KOBELCO CKE2500 CRANE NOT TO BE OP	erated in partially shooth w	ATERS			
Survey Due Dates: See Apper	dix C	Equival	ent Solutions and	Exemptions: See A	ppendix D
Number of persons this vessel is c	ertified to carry				
Crew Max 12	dmum Passengers S	pecial/Other Personn	el Total Pers 12	ons	Berthed
Minimum safety crewing:		Require	ed Safety Equipme	enl;	
This is to certify that the provisions	of the appropriate legislation	with respect to the su	rvey of the vessel	have been complied	d with.
his certificate is due to expire on 0	7/06/2021				
NB: This certificate is valid unless	revoked or suspended by the	e National Regulator,			

Date 21/10/2016 Delegate of the National Regulator Roads and Maritime Services, NSW≤ क्ट्र<sub>हरू गुण्</sup>ि क्षेत्रिक Number: 28812QC \ 1-2AM6KA7 \ 20161021</sub>

Oue Dates - Periodic Survey 07/06/2017 , 07/06/2018 ,	Due Dates – Out of Water Survey	Due Dates – Shaft Survey
07/06/2019 , 07/06/2020 , 07/06/2021		
Due Dates – Liferaft Survey	Due Dates – Compass Adjustment	Due Dates – Insulation Test
Due Dates – Fuel Tank Inspection	Due Dates - Rudder Survey	Due Dates – Loadline Survey 08/10/2017
Due Dates - Anchor Locker Inspection	Due Dates – Internal Hull Inspection	Due Dates – Radio Survey

ROADS AND MARITIME SERVICES
DELEGATE OF THE NATIONAL REGULATOR
DATE: 21/10/2016

COMPRED TO PERATIONS UN

#### APPENDIX D

#### EXEMPTIONS AND EQUIVALENT SOLUTIONS

VESSEL IDENTIFIER: 288120C

VESSEL NAME: MAEVE ANNE

CLASS: 2C, 2D, 2E

MARITIME SERVE

OPERATIONS UNIT

IT IS A CONDITION ON THE CERTIFICATE OF SURVEY THAT THE VESSEL MUST COMPLY WITH THE CONSTRUCTION, SUBDIVISION, STABILITY AND EQUIPMENT STANDARDS THAT APPLIES TO THE VESSEL. COMPLIANCE WITH THE REQUIRED OUTCOMES OF THE STANDARD MAY ALSO ACHIEVED THROUGH APPLICATION OF EQUIVALENT MEANS OF COMPLIANCE OR EXEMPTIONS.

#### SPECIFIC EXEMPTIONS

IN ACCORDANCE WITH AMSA SPECIFIC EXEMPTION EX2016/A273 THIS VESSEL IS EXEMPT FROM MO 503

(Certificates of Survey) 2013 -Section 89b) (i), 10(2)(b), 12(b)(ii) and 14(f) IN SO FAR AS IT REQUIRES THE VESSEL TO COMPLY WITH THE NSCV, PART C1 3.4, PART C5A CHAPTERS 3, 5, AND 6, NSCV PART C7A, NSCV PART C7B, AND NSCV PART C7C AND ALSO; MO 504 (certificates of operation - National Law) IN SO FAR AS IT REQUIRES COMPLIANCE WITH NSCV PART E FOR THE CARRIAGE OF A CORE COMPLEMENT, THE VESSEL IS EXEMPT FROM THE REQUIREMENT:

- 1. FOR PROVISION OF MASTS AND POSITIONS FOR SIGNALS TO COMPLY WITH NSCV C1 CHAPTER 3.3. 2. FOR THE VESSEL'S PROPULSION, FLUID, AND STEERING SYSTEMS TO COMPLY WITH NSCV PART C5A CHAPTERS 3, 5, AND 6 RESPECTIVELY.
- 3. TO CARRY SAFETY EQUIPMENT AS SPECIFIED IN NSCV PART C7A.
- 4. TO CARRY COMMUNICATIONS EQUIPMENT AS SPECIFIED IN NSCV PART C7B.
- 5. TO CARRY NAVIGATION EQUIPMENT AS SPECIFIED IN NSCV PART C7C.
- 6. TO CARRY THE CORE COMPLEMENT SPECIFIED IN NSCV PART E SCHEDULE 2 ITEM 6 CLAUSE 9.

#### UNDER THE CONDITIONS

- 1. LIFEJACKETS TO BE WORN AT ALL TIMES AND A MEANS OF RE-BOARDING FROM THE WATER TO BE PROVIDED.
- 2. NAVIGATION LIGHTS AND SHAPES IN ACCORDANCE WITH COLREGS TO BE DISPLAYED WHEN UNDERTAKING TRANSIT VOYAGES. LIGHTING AND SHAPES TO BE IN ACCORDANCE WITH LOCAL WATERWAY REQUIREMENTS WHEN THE VESSEL IS ON-SITE.
- 3. THE OPERATOR MUST PROVIDE A STAND BY VESSEL TO CARRY SAFETY EQUIPMENT FOR THE TOTAL NUMBER OF PERSONS ON BOARD THE BARGE.
- 4. A RELIABLE METHOD OF COMMUNICATION BETWEEN THE STAND BY VESSEL AND THE BARGE IS TO BE PROVIDED WHENEVER PERSONS ARE ON THE BARGE.
- 5. THE OWNER OF THE VESSEL MUST DETERMINE THE APPROPRIATE CREW FOR EACH TYPE OF OPERATION OF THE VESSEL BY EVALUATING THE RISKS TO THE VESSEL, THE ENVIRONMENT AND ALL PERSONS WHO WILL BE ON OR NEAR THE VESSEL.
- 6. STABILITY AND STRUCTURAL CALCULATIONS FOR EACH SPECIFIC OPERATION AND LOADING TO BE COMPLETED BY AN AMSA ACCREDITED SURVEYOR.
- 7. MANUFACTURERS' INSTRUCTIONS FOR LOCK SAFE WORKING LOAD AND DECK PRESSURES ARE NOT TO BE EXCEEDED (WHERE APPLICABLE).
- 8. 2C OPERATIONS RESTRICTED TO TRANSIT VOYAGES ONLY WITHIN FIFTEEN (15) NAUTICAL MILES FROM SHELTERED WATERS IN REASONABLE WEATHER IN ACCORDANCE WITH LLOYDS REGISTER CERTIFICATE OF CLASS. NO PERSONS PERMITTED ONBOARD

IN 2C OPERATIONS.

9. VESSEL TO BE MAINTAINED IN CLASS WITH A RECOGNISED CLASSIFICATION SQ

#### EQUIVALENT MEANS OF COMPLIANCE

NONE

## **CERTIFICATE OF SURVEY AND**





Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1

Marine Order 503 (Certificates of Survey - national law)
Marine Order 504 (Certificates of Operation - national law)

Name of Vessel		Hull	Material	Type of Vesse	əl	Identifying Number	
MAEVE ANNE		STE	EL.	CRANE BAR	GE	28812QC	
Measured Length (m)	Moulded Breadth (m)		Moulded Dept	n (m)	Gross Toni	nage	
48.00	24.00		2.20	· X-4	654	₩ °	
				water the second			
Engine(s)	Number		Survey Level	NSAMS Level 1			
Description	Power (kW)		Drive Type				
Class	Vessel Owner		**************************************				
2C	BMC Equipment Pty Ltd	i					
Vessel Operator  BMC Equipment Pty Ltd.			•				
DINO Equipment i ty Eta.		······································					
Operational Limits and Conditions							
THIS CERTIFICATE AUTHORISES THE VESSE		MITTER COMMANDA	OF THE SACETY	E AE DESTREE TH NECH !	DADT B		
IN RESTRICTED OFFSHORE OPERATIONS UP		WILLES SEAWARD	oe ine saserin	e wa herman tu maca i	enit D		
THIS CERTIFICATE IS ISSUED SUBJECT TO THE VESSEL OPERATION BEING RESTRICTED		NRISE AND SUNS	er only.				
	THE VESSEL OPERATION BEING RESTRICTED TO THE HOURS BETWEEN SUNRISE AND SUNSET ONLY. HOLDING VALID & UNEXPIRED CERTIFICATES FROM A CLASSIFICATION SOCIETY FOR HULL & MACHINERY.						
HOLDING VALID & UNEXPIRED CERTIFICATE							
IN ACCORDANCE WITH SECTION 6 OF THE NARINE SAFETY (DCV) NATIONAL LAW ACT 2012, ALL PERSONS WITH A LEGAL RESPONSIBILITY TO THE SAFE OPERATION OF THIS VESSEL ARE TO ENSURE IT COMPLIES WITH RELEVANT LOCAL LAWS THAT APPLY TO ITS OPERATION INCLUSIVE OF WORKPLACE SAFETY AND LAWS PERTAINING TO ENVIRONMENTAL AND WATERWAY MANAGEMENT							
RESTRICTED TO TRANSIT VOYAGES ONLY IN	ACCORDANCE WITH LLOYDS F	REGISTER CERTI	FICATE OF CLASS	. NO PERSONS TO BE CA	RRIED ONBOARD	DURING VOYAGES.	
LIFEJACKETS TO BE WORN AT ALL TIMES AND A MEANS OF RE-HOARDING FROM THE WATER TO BE PROVIDED.							
THE OPERATOR MUST PROVIDE A STAND BY VESSEL TO CARRY SAFETY EQUIPMENT FOR THE TOTAL NUMBER OF PERSONS ON BOARD THE BARGE. A RELIABLE METHOD OF COMMUNICATION BETWEEN THE STAND BY VESSEL AND THE BARGE IS TO BE PROVIDED WHENEVER PERSONS ARE ON THE BARGE.							
						×.	
						•	
Survey Due Dates: See Appendix	C	I	Equivalent Sol	utions and Exemption	s: See Apper	ndix D	
		L					
Number of persons this vessel is cert		On maiol/Other -	Doroonnol	Total Persons	~C]	rthed	
Crew Maxim	num Passengers	Special/Other	гетѕоплет	i otal mersons	de	TUICU	
Minimum safety crewing:			Required Safe	ety Equipment:			
R							

This is to certify that the provisions of the appropriate legislation with respect to the survey of the vessel have been complied with.

This certificate is due to expire on 07/06/2021

NB: This certificate is valid unless revoked or suspended by the National Regulator.

Date 21/10/2016

Delegate of the National Regulator Roads and Maritime Services, NSW PRATION OF THE PROPERTY O

Due Dates Insulation Test  Due Dates Loadline Survey
Due Dates - Leadline Suries
08/10/2017
Du Differ D. W. G.
Due Dates – Radio Survey

ROADS AND MARITIME SERVICES
DELEGATE OF THE NATIONAL REGINATOR
DATE: 21/10/2016 COMPREDITIVE ODERATIONS UNIT

#### APPENDIX D

#### EXEMPTIONS AND EQUIVALENT SOLUTIONS

VESSEL IDENTIFIER: 28812QC

VESSEL NAME: MAEVE ANNE

CLASS: 2C, 2D, 2E

OPERATIONS UNI

IT IS A CONDITION ON THE CERTIFICATE OF SURVEY THAT THE VESSEL MUST COMPLY WITH THE CONSTRUCTION, SUBDIVISION, STABILITY AND EQUIPMENT STANDARDS THAT APPLIES TO THE VESSEL. COMPLIANCE WITH THE REQUIRED OUTCOMES OF THE STANDARD MAY ALSO ACHIEVED THROUGH APPLICATION OF EQUIVALENT MEANS OF COMPLIANCE OR EXEMPTIONS.

#### SPECIFIC EXEMPTIONS

IN ACCORDANCE WITH AMSA SPECIFIC EXEMPTION EX2016/A273 THIS VESSEL IS EXEMPT FROM MO 503

(Certificates of Survey) 2013 -Section 89b) (i), 10(2)(b), 12(b)(ii) and 14(f) IN SO FAR AS IT REQUIRES THE VESSEL TO COMPLY WITH THE NSCV, PART C1 3.4, PART C5A CHAPTERS 3, 5, AND 6, NSCV PART C7A, NSCV PART C7B, AND NSCV PART C7C AND ALSO; MO 504 (certificates of operation - National Law) IN SO FAR AS IT REQUIRES COMPLIANCE WITH NSCV PART E FOR THE CARRIAGE OF A CORE COMPLEMENT, THE VESSEL IS EXEMPT FROM THE REQUIREMENT:

- 1. FOR PROVISION OF MASTS AND POSITIONS FOR SIGNALS TO COMPLY WITH NSCV C1 CHAPTER 3.3. 2. FOR THE VESSEL'S PROPULSION, FLUID, AND STEERING SYSTEMS TO COMPLY WITH NSCV PART C5A CHAPTERS 3, 5, AND 6 RESPECTIVELY.
- 3. TO CARRY SAFETY EQUIPMENT AS SPECIFIED IN NSCV PART C7A.
- 4. TO CARRY COMMUNICATIONS EQUIPMENT AS SPECIFIED IN NSCV PART C7B.
- 5. TO CARRY NAVIGATION EQUIPMENT AS SPECIFIED IN NSCV PART C7C.
- 6. TO CARRY THE CORE COMPLEMENT SPECIFIED IN NSCV PART E SCHEDULE 2 ITEM 6 CLAUSE 9.

#### UNDER THE CONDITIONS

- 1. LIFEJACKETS TO BE WORN AT ALL TIMES AND A MEANS OF RE-BOARDING FROM THE WATER TO BE PROVIDED.
- 2. NAVIGATION LIGHTS AND SHAPES IN ACCORDANCE WITH COLREGS TO BE DISPLAYED WHEN UNDERTAKING TRANSIT VOYAGES. LIGHTING AND SHAPES TO BE IN ACCORDANCE WITH LOCAL WATERWAY REQUIREMENTS WHEN THE VESSEL IS ON-SITE.
- 3. THE OPERATOR MUST PROVIDE A STAND BY VESSEL TO CARRY SAFETY EQUIPMENT FOR THE TOTAL NUMBER OF PERSONS ON BOARD THE BARGE.
- 4. A RELIABLE METHOD OF COMMUNICATION BETWEEN THE STAND BY VESSEL AND THE BARGE IS TO BE PROVIDED WHENEVER PERSONS ARE ON THE BARGE.
- 5. THE OWNER OF THE VESSEL MUST DETERMINE THE APPROPRIATE CREW FOR EACH TYPE OF OPERATION OF THE VESSEL BY EVALUATING THE RISKS TO THE VESSEL, THE ENVIRONMENT AND ALL PERSONS WHO WILL BE ON OR NEAR THE VESSEL.
- 6. STABILITY AND STRUCTURAL CALCULATIONS FOR EACH SPECIFIC OPERATION AND LOADING TO BE COMPLETED BY AN AMSA ACCREDITED SURVEYOR.
- 7. MANUFACTURERS' INSTRUCTIONS FOR LOCK SAFE WORKING LOAD AND DECK PRESSURES ARE NOT TO BE EXCEEDED (WHERE APPLICABLE).
- 8. 2C OPERATIONS RESTRICTED TO TRANSIT VOYAGES ONLY WITHIN FIFTEEN (15) NAUTICAL MILES FROM SHELTERED WATERS IN REASONABLE WEATHER IN ACCORDANCE WITH LLOYDS REGISTER CERTIFICATE OF CLASS. NO PERSONS PERMITTED ONBOARD AND MARITIME SEALER

IN 2C OPERATIONS.

9. VESSEL TO BE MAINTAINED IN CLASS WITH A RECOGNISED CLASSIFICATION S

#### EQUIVALENT MEANS OF COMPLIANCE

Certificate no: Page 1 of 3

MEL 1500812



# Document of Compliance for Load Line

This is to state that the vessel has been surveyed in accordance with the provisions of the International Convention on Load Lines, 1966,

by Lloyd's Register International

Particulars of Ship

Name of ship **MAEVE ANNE** 

ON: 856910; Unique Identifier: 28812QC Distinctive number or letters

> Port of registry **Brisbane**

Length (L) as defined in article 2(8) (metres) 46.080

> IMO number 8127737

Freeboard assigned as A new ship

> Type of ship Type B

#### Freeboard from deck line 1

Tropical	575	mm (T)
Summer	575	mm (S)
Winter	Not Assigned	mm (W)
Winter North Atlantic	Not Assigned	mm (WNA)
Timber tropical	_	mm (LT)
Timber summer	-	mm (LS)
Timber winter	-	mm (LW)

mm (LWNA) Allowance for fresh water for all freeboards other than timb

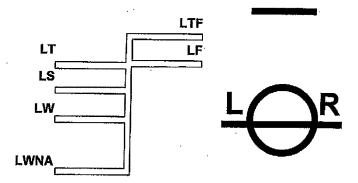
Allowance for fresh water for timber freeboard

The upper edge of the deck line from which these freeboards are measured is below the top of steel upper deck continued to side.

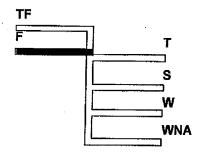
Load line

	0	mm above (\$)
	Upper edge of line through	centre of ring
	Not Assigned	mm below (S)
	Not Assigned	mm below (S)
	-	mm above (LS)
	-	mm above (S)
	-	mm below (LS)
	-	mm below (LS)
er	27	mm .
ds	_	mm
is	333	mm

This certificate is only valid for the service as endorsed on page 2.\*



Timber winter North Atlantic



Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Delete as appropriate

Freeboards and load lines which are not applicable need not be entered on the certificate. Subdivision load lines may be entered on the certificate on a voluntary basis.

MEL 1500812

Page 2 of 3

This document is valid until <sup>2</sup> Convention.

08 October 2017

subject to periodical inspections in accordance with article 14(1)(c) of the

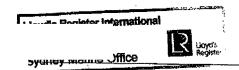
Completion date of the survey on which this document is based 25 July 2012

Issued at

Sydney

០រា

10 July 2015



Surveyor to Lloyd's Register International

A subsidiary of Lloyd's Register Group Limited

Service endorsement\*

Extended protected waters service at the port of Port Macquarie, Australia.

#### Notes

- 1. When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for consumption between the point of departure and the sea.
- 2. When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of fresh water allowance shown above. Where the density is other than unity, the allowance shall be made proportional to the difference between 1.025 and the actual density.

Insert the date of expiry as specified by the Administration in accordance with article 19(1) of the Convention.

Delete as appropriate

MEL 1500812

Page 3 of 3

This is to certify that, at a periodical inspection required by article 14(1)(c) of the Convention, this ship was found to comply with the relevant provisions of the Convention.

		Lloyd's Register International
Signed: .		Office Register
Place of survey	Southport, Australia	
Date	06 January 2014 ,	
		I I tour's Ranister International
Signed:		e Office
Place of survey	Brisbane, Australia	
Date	17 November 2014	·
		r international
Signed:	•	- R Lloyd's
Place of survey	Port Macquarie, Australia	yaney marine Office
Date	10 July 2015	
Signed:		
Place of survey	<del></del>	
Date		
<b></b>		•
The provisions of the Convention, extended	Convention being fully complied with by this ship, the validid I until	ty of this document is, in accordance with article 19(2) of the
<i>.</i>	•	
Signed:		•
Place of survey		
Pate		
	•	





# ACCREDITED SURVEYORS RECOMMENDATION TO THE NATIONAL REGULATOR

Marine Safety (Domestic Commercial Vessel) National Law Act 2012 Marine Order 503 (Certificates of survey – national law) 2013

This form can be used to make a recommendation to the National Regulator once an accredited surveyor has conducted an initial survey and is satisfied that the vessel and/or equipment meets the requirements of the standards.

This form may also be used to provide a recommendation to the National Regulator relating to modifications to an existing vessel.

The accredited surveyor is required to keep a copy of the completed form for their records.

		sel details						
Vessel nam	ie				Date buil	t		Unique identifier
MAEVE AN		1						
Hull number	r(e) H	lull material			Measure	d length (met		Fuel type
		STEEL			48.00	a length (met	162)	NIL
		) I E E L			46.00			IVIL
Propulsion t	type / config	guration						
NIL								
Description	of vessel o	peration						
DUMB BAR						r		
Ctondord(a)	oursessed a	against aguiteala	none used etc					
NSCV	surveyed a	against, equivale	nces used etc.	1				
NOCV								
		Unberthed	Berthed	Special	То	tal number	0	U I Has it.
Class	Crew	passengers	passengers	persons		persons	ļ	tional limits
2E							SMO	OTH WATER LIMITS
Recommend	ded condition	ons or limitations		J	<b>'</b>			
		ORT R2896(02) I						
7.0 227 1112								
B. Type	of surve	y conducte	d					
Please selec		-	<del></del>					
Plan ap		, p.y.	Construction	n phase				
Initial S			Periodic sur					
_	er survey		Out of wate	-				
☐ Safety	equipment	survey	🔀 Other – type	e <u>s</u>	TABILITY	· · · · · · · · · · · · · · · · · · ·		

## C. Accredited surveyor's details Name of accredited surveyor Surveyor identification number Street name and number Town / suburb State Postcode Postal Address ☐ Same as street address Town / suburb State Postcode Phone Mobile Email D. Accredited surveyor's declaration I declare that: I have conducted a survey of the above mentioned vessel in accordance with the applicable standards as set out in Marine Order 503 Certificates of Survey and am satisfied that the vessel meets them. · I understand and acknowledge that the Australian Maritime Safety Authority, as the National Regulator, may ask that I provide any information or document that the National Regulator reasonably considers necessary in relation this recommendation. Name of accredited surveyor Surveyor identification number Company or trading name Date Signature o 03/06/2016 E. Where to lodge Where to lodge: Roads and Maritime Services NSW · Maritime Safety QLD · Transport Safety VIC · Marine and Safety TAS · Department of Planning, Transport and Infrastructure SA • Department of Transport WA • Marine Safety NT. **Privacy Statement** The collection of information requested in this form is required or authorised by Schedule 1 of the Marine Safety (Domestic Commercial Vessel) National Law Act 2012 (the Act). It will be used for purposes related to the Act and may be provided to Commonwealth or State / Territory government agencies for the purposes of marine safety. Failure to provide the information may result in the transaction not being processed. To contact us, or for more information on how to access or correct your personal information, how to make a privacy complaint, or how your information may be used or disclosed for purposes beyond those described in this statement, visit www.amsa.gov.au/privacy/ The following documentation is also being provided to support this recommendation:

Item #	Document Name
R2896(02) REV A	"MAEVE ANNE" STABILITY ADDENDUM

Additional rows may be added by clicking the tab key at the end of the last entry.

Cert No: 2896-DOI



# ATTESTED / ACCREDITED MARINE SURVEYORS RECOMMENDATION TO THE NATIONAL REGULATOR

Marine Safety (Domestic Commercial Vessel) National Law Act 2012 Marine Order 503 (Certificates of survey – national law) 2013

This form can be used to make a recommendation to the National Regulator once an attested/accredited marine surveyor has conducted an initial survey and is satisfied that the vessel and/or equipment meets the requirements of the standards.

This form may also be used to provide a recommendation to the National Regulator relating to modifications to an existing vessel.

A C					*****	for their records.	
M. JUIVE	eyed ves	sel details					
Vessel nam	ne			Dat	e built	Unique identifier	
MAEVE AN	NE			-		-	
full numbe	rís) Hu	ll material	······	Me	asured length (met	res) Fuel type	
		EEL		48.		NIL NIL	
Description  DUMB BAF	of vessel op	eration	<del> </del>				
JOINID DAI	(OL						
		jainst, equivale IS BARGE RUI	nces used etc.				
	- NSCV PAR		-LO				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Class	Crew	Unberthed	Berthed	Special	Total number	Operational limits	
2E		passengers	passengers	persons	of persons	SMOOTH WATER LIMIT	<u> </u>
						OMOOTH WATER ENGIN	
	<u>                                     </u>						
		is or limitations RT R2896(01) F					
O DEI INE	D IN INLI OI	(1 1(2030(01)1	NEV A				
, a							
Type	of survey	conducte					
	_	conducte	d				
lease selec	ct all that app		_	n phase -			
lease selec	ct all that app oproval		Construction				
Please selection Plan ap	ct all that app oproval		_	vey			

## C. Attested / accredited marine surveyor's details Name of attested / accredited marine surveyor Marine surveyor number Postal Address Town / suburb State Postcode Phone Mobile Email D. Attested / accredited marine surveyor's declaration I declare that: I have conducted a survey of the above mentioned vessel in accordance with the applicable standards as set out in Marine Order 503 Certificates of Survey and am satisfied that the vessel meets them. I understand and acknowledge that the Australian Maritime Safety Authority, as the National Regulator, may ask that I provide any information or document that the National Regulator reasonably considers necessary in relation this recommendation. Name of Attested / Accredited Marine Surveyor Attested / Accredited Marine Surveyor Number Signature of Attested / Accredited Marine Surveyor Date 14/07/2015 Privacy Statement The collection of information requested in this form is required or authorised by Schedule 1 of the Marine Safety (Domestic Commercial Vessel) National Law Act 2012 (the Act). It will be used for purposes related to the Act and may be provided to Commonwealth or State/Territory government agencies for the purposes of marine safety. Failure to provide the information may result in the transaction not being processed. To contact us, or for more information on how to access or correct your personal information, how to make a privacy complaint, or how your information may be used or disclosed for purposes beyond those described in this statement, visit: www.amsa.gov.au/privacy.

The following documentation is also being provided to support this recommendation:

Item#	Document Name
R2896(01)	Stability and Strength for Operation with Kobelco CKE 2500 Crane
Rev A	

Additional rows may be added by clicking the tab key at the end of the last entry.



# ATTESTED / ACCREDITED MARINE SURVEYORS RECOMMENDATION TO THE NATIONAL REGULATOR

Marine Safety (Domestic Commercial Vessel) National Law Act 2012 Marine Order 503 (Certificates of survey – national law) 2013

This form can be used to make a recommendation to the National Regulator once an attested/accredited marine surveyor has conducted an initial survey and is satisfied that the vessel and/or equipment meets the requirements of the standards.

This form may also be used to provide a recommendation to the National Regulator relating to modifications to an existing vessel.

The attested/accredited marine surveyor is required to keep a copy of the completed form for their records.

					•	•		
A. Surv	eyed ve	ssel details						
Vessel nan	ne				Date	built		Unique identifier
Maeve Anı	ne				Unkr	nown		245/03023
Hull numbe	er(s)	Hull material			Meas	sured length (met	res)	Fuel type
28812QC		Steel			48.00			N/A
Description	of vessel	operation			L			
Class 2C,								110
Standard(s	) surveyed	against, equivale	ences used etc.				m'+ -	
NSCV - CE	3							
Stability Ad	ddendum c	overs only specifi	c crane operati	ons				
		,	·					
		•						
	_							
Class	Crew	Unberthed	Berthed passengers	Special persons		Total number of persons	Opera	ational limits
2C	0	passengers 0	0	0		0	Rest	ricted Offshore
2D	12	0	0	0		12	Parti	ally Smooth Waters
2E	14	0	0	0		14	Smo	oth Waters
Recommen	ided condit	tions or limitations	**************************************	•		Sawa -		
				ability doc	umenta	etion - operations	/ lifts or	configurations in excess of
those listed	in the sta	bility Addendum t	o be checked b	y Naval Ar	chitect	prior to operation	ns comm	nencing
		•		•				•
								Aventure management (a)
В. Туре	of surv	ey conducte	d					
Please sele	ect all that a	apply:						
	approval	<del>-</del>	Constructio	n phase				
=	Survey		Periodic su	-				
∐ In wat	er survey		Out of wate					<b>\</b>
Ш			Safety equipme	ent survey				Other – type <b>Stability</b>

## C. Attested / accredited marine surveyor's details Name of attested / accredited marine surveyor Marine surveyor number Postal Address Town / suburb State Postcode Phone Mobile Email D. Attested / accredited marine surveyor's declaration I declare that: I have conducted a survey of the above mentioned vessel in accordance with the applicable standards as set out in Marine Order 503 Certificates of Survey and am satisfied that the vessel meets them. I understand and acknowledge that the Australian Maritime Safety Authority, as the National Regulator, may ask that I provide any information or document that the National Regulator reasonably considers necessary in relation this recommendation. Name of Attested / Accredited Marine Surveyor Attested / Accredited Marine Surveyor Number Signature of Attested / Accredited Marine Surveyor Date 03/06/2016 **Privacy Statement** The collection of information requested in this form is required or authorised by Schedule 1 of the Marine Safety (Domestic Commercial Vessel) National Law Act 2012 (the Act). It will be used for purposes related to the Act and may be provided to Commonwealth or State/Territory government agencies for the purposes of marine safety. Failure to provide the information may result in the transaction not being processed. To contact us, or for more information on how to access or correct your personal information, how to make a privacy complaint, or how your information may be used or disclosed for purposes beyond those described in this statement, visit: www.amsa.gov.au/privacy. The following documentation is also being provided to support this recommendation: **Document Name** Item # C-0592-115-S2 Trim and Stability Addendum

Additional rows may be added by clicking the tab key at the end of the last entry.

MEL 1600604

Page 1 of 3



## Certificate of Class

This certificate is issued to the

MAEVE ANNE

LR Number

8127737

Date of Build

01/09/1982

Port of Registry

Brisbane

Gross tons

to confirm that having been surveyed by Lloyd's Register International and having been found in compliance with the Rules and Regulations for the Classification of Ships, the aforesaid ship has been assigned the class

#100AN Pontoon, Extended Protected Waters Service at the port of Port Jackson, Australia.

Date Special Survey Assigned

09 October 2012

This Certificate is valid until\*

08 October 2017

\* Unless extended after completion of a Special Survey (see page 3) or in accordance with Part 1, Chapter 2, Section 3.5.9 of the Rules and Regulations (see page 3) and is subject to surveys as prescribed (see page 2) being satisfactorily completed. (See notes 1 to 4, page 3)

Issued at Sydney, Australia

07 June 2016 on

Lloyd's Register International

Initials

Sydnet

Llayd's Register

Surveyor to Lloyd's Register International

A subsidiary of Lloyd's Register Group Limited

Note:

To establish the classification status of this ship, the Class Direct web site and the Interim Certificates issued on completion of classification surveys should be consulted in addition to this certificate. Access to Class Direct is available via http://www.cdlive.lr.org.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

MEL 1600604

Page 2 of 3

Ships Name

MAEVE ANNE

LR number

8127737

Annual	/Interme	ateih	SHINAV	endors	amanto
Milliuai	milenne	ulate	SUIVEV	CHUUIS	ennemi

1" Annual Survey endorsement

Signed:

Place of Survey

Southport, Australia

Date

06 January 2014

2nd Annual Survey endorsement

Signed:

Place of Survey

Brisbane, Australia

Date

17 November 2014

Intermediate Survey endorsement

Signed:

Place of Survey

Sydney

Date

03 June 2016

4th Annual Survey endorsement

Signed:

Place of Survey

Date

Lloyd's Register International

Initia**!**§

Sydne

ste

Lloyd's Register International

Initials

Sydne

pydia Kuista

Lloyd's Register International

Initial:

Sydnii

Regista

MEL 1600604

Page 3 of 3

Ships Name

Place of Survey

Date

MAEVE ANNE

LR number

8127737

Extension of	f special	survey	completion	ı date
--------------	-----------	--------	------------	--------

In accordance with the Rules and Regulations for the Classification of ships this	s certificate is extended until (see note 2) .	
Signed:		
Place of Survey		
Date		
Special survey completion		
This Special Survey having been completed, this certificate is extended until	•	
Signed:		

#### Notes

- In accordance with the Rules and Regulations for the Classification of Ship's, class will be automatically suspended and this certificate becomes invalid if not endorsed annually within three months of the due date of the Annual or Intermediate Surveys.
- 2 This certificate expires on the due date of the Special Survey. Consideration can be given at the discretion of the Committee to any exceptional circumstances justifying an extension to the Special Survey completion date for a maximum period of three months beyond the validity of this certificate.
- 3 Prior to the endorsement of this certificate all overdue hull and machinery surveys should be dealt with or postponed by agreement.
- 4 In normal circumstances the Annual or Intermediate Survey is to be held in conjunction with the Periodical Load Line Inspection and the Safety Construction Annual Survey.

This Certificate replaces Certificate of Class Number BSB 1200099 issued at Brisbane on 25 July 2012 which is hereby cancelled.

Certificate no: Page 1 of 3 MEL 1500812



## Certificate of Class

This certificate is issued to the

**MAEVE ANNE** 

LR Number

8127737

Date of Build

01/09/1982

Port of Registry

Brisbane

Gross tons

to confirm that having been surveyed by Lloyd's Register International and having been found in compliance with the Rules and Regulations for the Classification of Ships, the aforesaid ship has been assigned the class

**₹100AN Pontoon, Extended Protected Waters Service at the port of Port Macquarie, Australia** 

Descriptive Note: Salvage barge, maximum lifting capacity 150 tonnes.

Date Special Survey Assigned 09 O

09 October 2012

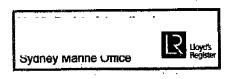
This Certificate is valid until\*

08 October 2017

\* Unless extended after completion of a Special Survey (see page 3) or in accordance with Part 1; Chapter 2, Section 3.5.9 of the Rules and Regulations (see page 3) and is subject to surveys as prescribed (see page 2) being satisfactorily completed. (See notes 1 to 4, page 3)

Issued at Sydney, Australia

on 10 July 2015



Surveyor to Lloyd's Register International .

A subsidiary of Lloyd's Register Group Limited

Note:

 To establish the classification status of this ship, the Class Direct web site and the Interim Certificates issued on completion of classification surveys should be consulted in addition to this certificate. Access to Class Direct is available via http://www.cdlive.ir.org.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Lioyd's Register International

zrine Office

International

MEL 1500812

Page 2 of 3

Ships Name

**MAEVE ANNE** 

LR number

8127737

## **Annual/Intermediate survey endorsements**

1<sup>st</sup> Annual Survey endorsement

Signed:

Place of Survey

Southport, Australia

Date

06 January 2014

2nd Annual Survey. endorsement

Signed:

Place of Survey

Brisbane, Australia

Date

17 November 2014

ey Marine Office

Intermediate Survey endorsement

Signed:

Place of Survey

Date

4th Annual Survey endorsement

Signed:

Place of Survey

Date

MEL 1500812

Page 3 of 3

Ships Name

MAEVE ANNE

LR number

8127737

#### Extension of special survey completion date

In accordance with the Rules and Regulations for the Classification of ships this certificate is extended until (see note 2)

Signed:					
Place of Survey	Productiva Inches		•	1 = 1 1 1 1	
Date					
		·			
Special survey completion					
This Special Survey having been completed, this certificate is extended until		•			
•					
·					
Signed:	•				
Place of Survey					
Date					

#### Notes

- 1 In accordance with the Rules and Regulations for the Classification of Ship's, class will be automatically suspended and this certificate becomes invalid if not endorsed annually within three months of the due date of the Annual or Intermediate Surveys.
- 2 This certificate expires on the due date of the Special Survey. Consideration can be given at the discretion of the Committee to any exceptional circumstances justifying an extension to the Special Survey completion date for a maximum period of three months beyond the validity of this certificate.
- 3 Prior to the endorsement of this certificate all overdue hull and machinery surveys should be dealt with or postponed by agreement.
- 4 In normal circumstances the Annual or Intermediate Survey is to be held in conjunction with the Periodical Load Line Inspection and the Safety Construction Annual Survey.

# **Certificate of Operation**

Certificate Holder:

PO BOX 5338

BMC EQUIPMENT PTY LTD

WESTEND QUEENSLAND 4101



Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1 I am satisfied the certificate holder has demonstrated appropriate competence and capacity in relation to the safe operation of the vessel specified and that the criteria prescribed by Marine Order 504 (Certificate of Operations - National Law) 2013 are met in relation to the issue of this certificate.

This certificate is subject to the conditions prescribed by Marine Order 504 (Certificate of Operations - National Law) 2013 and the conditions imposed by the National Regulator in the attachments below.

DMS: 245/03023

Certificate Number: 900032759

Ship: MAEVE ANNE

Unique Identifier. 28812QC

Boat Mark: -

HIN / Serial No:

USL Class: 2C 2D 2E

Hull Material: STEEL

Ship Type: BARGE

Measured Length	Breadth	Depth	Gross Tonnage
48.00 m	24.00 m	2.20 m	-
	Main Engl	ne Details	
·	n	d1	

## Limits and conditions of operations and maximum persons permitted to be carried

Class 2C - SEAGOING NON-PASSENGER VESSEL FOR USE IN ALL OPERATIONAL AREAS UP TO AND INCLUDING RESTRICTED OFFSHORE OPERATIONS.

TO CARRY A MAXIMUM OF 0 PERSON

RESTRICTED TO TRANSIT VOYAGES ONLY WITHIN FIFTEEN (15) NAUTICAL MILES FROM SHELTERED WATERS IN REASONABLE WEATHER IN ACCORDANCE WITH LLOYDS REGISTER CERTIFICATE OF CLASS.

Class 2D - SHELTERED WATERS NON-PASSENGER VESSEL FOR OPERATIONS IN PARTIALLY SMOOTH AND SMOOTH WATERS ONLY.

TO CARRY A MAXIMUM OF 12 PERSONS.

CREW ONLY.

NO PERSONS ON BOARD DURING VOYAGES.

Class 2E - SHELTERED WATERS NON-PASSENGER VESSEL FOR USE IN SMOOTH WATERS ONLY.

TO CARRY A MAXIMUM OF 14 PERSONS.

CREW ONLY.

TO CARRY A MAXIMUM OF 6 PERSONS DURING VOYAGES.

All Classes - TO BE MAINTAINED IN CLASS WITH A RECOGNISED CLASSIFICATION SOCIETY.

All Classes - THE VESSEL MUST BE OPERATED IN FULL COMPLIANCE WITH THE NATIONAL STANDARD FOR

COMMERCIAL VESSELS PART E- OPERATIONS.

All Classes - THIS CERTIFICATE HAS BEEN ISSUED FOR AN EXISTING VESSEL AS DEFINED IN MARINE ORDER 504.

Unless suspended or cancelled, this certificate shall remain current from 18 September 2015 to 17 September 2016

17 September 2015



Offi	cial	Num	bei	100	in the	N. Carre	ill.	in i	N	am	of S	hip	100	No.	Niji.	3 <sup>139</sup> . 3	90° 199	127	1,17	11: 11: 10: 10:	, iii	, iii		ir. Ir. Hi	17. J. 1.	17/1/2			11. 11		A STATE			ing.	والمتأرية		igi.
85,6	91	0,	u. Gr	di.			1). 1). (1)		M	ÀΕΊ	VE 4	NN	E.		right.	1812 1812	7 .	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	e digital di	7			97. 20. 33		) () ()	April Links	<u> </u>	1111	Sy.	از آن کلیب	18. 18. 18. 18.		1,5) (1,5)	Marie .	3. 9	<u> </u>	2, 13 2, 13
	****		1171	*****	<u></u>	***	-	ښښښ	سنبنب				******			-		-	· ·	 		· · · · · ·	-7.74	-7.			1/1	N.		A A	N. 9	, .).		Ga.	N .	· //.	4.4

Š	A A A A A A A A A A A A A A A A A A A	at the total the total the total	<u>ر الآور كار الآور كار الآور كار الآور /u>	
	Home Port was a same of Call Sign of	A Stay Stay Stay Stay Stay Stay Stay Stay	Year of Registration	Year of Completion
Ì	Brisbane		2002	1982
	Type Build		Stem	Stern
34	Dumb Barge Double Ch	ine	straight.	Transom
	Rigging No. of Decks	A Mary May Day Say and	No. of Bulkheads	No. of Masts
şî]	None None None None None None None None			
	Principal Material of Construction   Length		Maximum Breadth	Moulded Depth Amidships
<u>,  </u>	Steel 48.00 m.	Markey Strain Strain Strain	24.00 m.	2.20 m.
	Brake Power Indicated Pow	ver	Shaft Power	Estimated Speed
\$ ]	O RW W	- 499 XX	May 1 3 1 May 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	o ckn y y y y y
84	12 45 12 13 13 14 1 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			The state of the s

Port Adelaide, South Australia

## Particulars of Propulsion

٠.	AN AN	$\Lambda^{i} = \Lambda^{i}$	- 60 × 60	· */	N N TO	•	17.		2. 17. 1.	·												л.
े	Met	o bor	f Propu	lsion	gitt, gjerkit.	(1879)	: (g)	75 65 65 9 75 65 65 9		P	ower	Trans	missio	n e	Part of	r. ili Se kënit	· 16, 18 ·		M. S.	18 M		
9	Non		11 11 12 12 12 12 12 12 12 12 12 12 12 1	1	9 . 19 . 155	ight in A stage	n okrivk	<u> Na Sa</u>	3 (A)	2 2	\$65° 5	1 ( b) 1.	3	<del> </del>		er er ge	N. C. S. S.	- 1	- 120 - 20 - 120 -	3		
	No.	ind T	ype of l	Boilers	, ANA		in the second	er Lein Maria				Partition of the	Same Same	in the state of	Andreas Andreas		diti	ith ar in	Egy. My Th	and the figure	8. 3. J.	
ii	Harry Feet	Herr. He	r Hen Here E	in aller aller	Hen Hen H	in Pin Me, "	101 May 1101	in all age	10 W	100	No. May	. W.	en en en	a Han la	, <sup>(1</sup> 2, 20,	1621, 164.	14, Mey 44	ir Hir li	y 14. 1.	7, 12, 14,	7 24 80	
3	No.	and T	ype of l	Engines	A 15 7	Section Sectio	Salah M	San	N. A	No. 1	, v	Agg Agg	8,43	of top 19	y, 5 %	16 18 . 9	itig lifter i	Gr. May 1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	e <sub>th</sub> hay hi		}:
\$	Nil	and The	i ingili		i iki iki. Marana	rich Kathir tari		i it in the site of the site o	or di w or s	ĸ, Ø,	di di Paga	10 10 30 2 44 3	di di Kanada	Age Call	8 18 18		90 W. 3	The Maria	gi yir. Ngayar	in it.	1. 1907 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
3	F 38 3	1. 19.	11. 11. 11.	300	1. 12. Mg	Sty off our	. T. B. B.	a in the	1.3	3. S	Sec. 11.		Mer Ash		S 18 3	1. 12. 1	. "		48 H.	3 3 c	B. B. 9	S) -

## Particulars of Tonnage

	* 750 TAY 175	7.07	100		A		· · · •		1, 117,			4.4			141.		A					,, .,,	. 150					
	Type of	Tonn	age C	ertifi	cate	ار الادار. از الادار.	To Ja	or gard	Section 1		5		v av . ·β	(8 8) 	- 15 E	3.8				Again.	ala jira	أوانغ أناوا	Arrive	ight shift	die in	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	iqi, Yag	Marin.
	Inter	nati	ona.	10 M	7.64 Eq.	Zicia.	Sign.	in This	18. 14.	V 1817. 1	hen in	1600 H	8 J. B. W.	8 . B	in the	1 20 760	1 " 14 M 1932	1, 14,	<u> </u>	i in	7 34	11 12 12 12 12 12 12 12 12 12 12 12 12 1	1. 14th 1.	$u_{i_j}$	16 14	<u> </u>	<u> </u>	365
ġ¹	Gross T	onnag	e , i	45° 45	4. 19.	4.14	Skill F	W. Str.	N. A.	1,11	111 112	\$	36 (17) 53 (4)		Net/F	legiste	r Tonn	age						gr <sup>e</sup> git <sup>h</sup>	West of			
:	654	Bg 24	25, 27	in in	X. X	h yê.	X.	K S		k x	N. X	a gá ja		Ç + 3	196	18 No.	1 A	X X	X X	1 18	A. A.	18 B	£ 185	K K	<u> </u>	<u>81 pi-</u>	N. 4.	33
Š	Alterna	tive T	onnag	e <sup>ll</sup>	1.110	A Pile	Sign.	ilije, ij	ir, ith		All S	$y_{i,j_{k_i}}$	an aria	M. A	ri rahir d	a applica		Sign Files	14.14	yr y	Mary St.	A. H.	Mr. Siller	Hilly H	12 July 1	40, 20,		
ζ.	N. 8 . 8 . 8 . 8		lae va	V	S. S.	8.3	ti si	i S	é'zá'	كبافي		80. 60.	. K. 15.	51.3	V 60	e	S. B. 18	Section Section		1 1	Sugar.	Ć,,,:	Pos 110	8 0	آگھے تھے	18:18	1500	Sec. 18

L Peter BAKER, Deputy Registrar of Ships, certify that the ship, particulars of which are set out above, is duly registered under the Shipping Registration Act 1981 and that those particulars and the particulars of ownership and particulars of registered agent that are set out below, are in accordance with the relevant entry in the Australian Register of Ships.



## **Particulars of Registered Agent**

Name of Registered Agent

Address

## Particulars of Ownership

No. of Shares

Name of the Owner BMC EQUIPMENT PTY LTD

Address

12 Browning Street, West End, Queensland, 4101, Australia Nationality Australian

## **Endorsement of Master**

Name of Master

Address

No. of Certificate of Competency (if applicable) Date and Signature of delegate of the Registrar

#### Important Notes

- 1. A Registration Certificate is required to be carried for the lawful navigation of any ship proceeding on overseas voyages and on thos occasions must be produced to a Customs officer.
- 2. A Registration Certificate is not a title document. A search of the Register will reveal the current registered ownership and registere encumbrances and caveats.
- 3. It is an offence for a person to use a Registration Certificate which contains entries not made by or endorsed by the Registrar or Der Registrar of Ships or by a delegate of the Registrar (Section 25).
- 4. Upon transfer of ownership of a registered ship:
  - This Certificate must be handed to the new owner, or to the Registrar upon request.
  - The new owner must forward the Certificate together with the prescribed documentation evidencing the transfer to the Registrar within 14 days of the transfer.
- 5. Should the ship be lost, broken up or sold to foreigners the Registrar must be notified immediately and the Certificate, if existing, given to the Registrar. Changes of ownership, address or other registered particulars should be notified to the Registrar within 14 da
- 6. The ship's name, home port, official number and tonnage (or length overall) must be marked according to law on the ship at all time.

  It is an offence to change any markings on a registered ship without the Registrar's authorisation.
- 7. For further information, contact the:

Registrar of Ships Australian Shipping Registration Office GPO Box 2181 Canberra ACT 2601 Australia Telephone: (02) 6279 5925 Facsimile: (02) 6279 5922 E-mail: sro@amsa.gov.au Web: www.amsa.gov.au



# **DIRECTION NOTICE**

Notice No: NO3145

Australian Government

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1 ("National Law") section 109

Vessel ID / Name	Certificate ID	Date of observation	Time of observation
28812QC / Maeve Ann	C00Q9000327	59 27/03/2017	11:00 hrs
MSI ID MSI telephone No.  18613  Location of observation	Location of vessel at t	time of observation (coordinates G	DA94 preferred
Barangaroo - Ferry Hub projec	t , On- Board Maev	e Ann Barge	
Details of Person			
Name	A	ddress	
Brady Marine and Civil PTY, LTD.		12 BROWNING STREET WEST END / QLD / 4101	
Telephone			
<sup>( )</sup> ( 07 ) 3844 7465			
violess	address and occupation of persor	n making the declaration	
OR  Name and address duly authorised [sole] director of		Pty Ltd, ACN	in my capacity as a
HOVE / BRADY MARINE &	LIVU P	• •	Item/e) se required by
Direction Notice NO3145 issu	ied under section 109 of t	he National Law.	iteritia) as required by
List item numbers: ( to 7			
t a person who intentionall 137. t a person who intentionall ninal Code Act 1995.	y makes a false statement	t in a declaration is guilty of an offe	ence under section
Signa naking the declaration	лчт		
Declared at WEST END	on6h	of APRU	2017
*Strike through and initial selection that is not app	uay olicable	สอกต	year (

Notice No:

NO3145 DIRECTION NOTICE Marine Safety (Domestic Commercial Vessel) National Law Act 2012 Schedule 1 ("National Law") section 109 Australian Maritime Salety Authority /essel ID./.Name Certificate ID Date of observation C00Q900032759 28812QC / Maeve Ann 27/03/2017 11:00 hrs MSI ID \_\_\_\_\_\_ MSI telephone No 18613 ocation of observation Barangaroo - Ferry Hub Project on board Maeve Ann Barge Details of Person Address Name BRADY MARINE AND CIVIL PTY.LTD 12 BROWNING STREET WEST END / QLD / 4101 (07)38447465 \_\_, a Marine Safety Inspector ("MSI") under the National Law on this 28th, day of March 2017, at RMS - Rozelle office do reasonably believe that the person being the recipient of this notice is contravening a provision(s) of the National Law, or that it is necessary to exercise this direction power to protect the safety of people of the contravening or the exercise. of the direction power is desirable in the public interest, and direct the person being the int to comply with this notice. Steps to be taken by the date shown to comply with this direction Date by which compliance required / 2017 1 - Update displayed Safety plan to latest version for all safety equipment on-board. Safety Plan to be in 3A Size laminated paper. 2 - Guardralls Stanchions around barge to be repaired as per notes taken during inspection in various locations. 3 - Guardralls open end chains to stanchions to be properly secured for all main & intermediate horizontal chain courses. 4 Damaged / cracked Life buoys to be replaced all life buoys to have vessel name and ID No. displayed. 5 - Forward new updated Stability Addendum report for added shed (Container ) and/or any other addition or removal different to document # [R22896(02) Rev A], revision to be done by AMSA Accredited Surveyor. 6- Re-locate Life Buoy near winch No. 6 due to protruding drum handle, 7- All in the way and exposed winch cables and rotating guide drums to be either caged or to have a barrier. If this box is ticked, the recipient is directed to provide a declaration

Office Use only:

Other evidence

by the due date that all of the above steps have been taken.

F . 

#### **IMPORTANT**

A person subject to a direction commits an offence and is subject to a penalty if the person does not take the steps as directed within the time frame specified. (National Law section 109).

# Maximum penalty: 60 penalty units

If a person does not take the steps as directed, the MSI may arrange for those steps to be taken. Any costs incurred by the inspector in taking those steps will become a debt due to the National Regulator by the person and recoverable in a court of competent jurisdiction. (National Law section 109).

The issue of a direction is a reviewable decision pursuant to section 139 of the National Law.

#### REVIEW OF DECISION

#### Internal review

A person affected by the decision to issue this notice may, within 30 days of the date of notice, apply to the National Regulator for review of that decision.

The application for internal review must be made in writing to the Internal Reviewer, Domestic Vessel Division ("Internal reviewer"), and must be accompanied by such information as the Internal Reviewer requires to enable the decision to be properly reviewed.

The Internal Reviewer may:

- (a) affirm, vary, or revoke the original decision by the Marine Safety Inspector; or
- (b) if the Internal Reviewer revokes the decision, make such other decision as the Internal Reviewer thinks appropriate.

The Internal Reviewer must give his or her decision in writing within 28 days of receiving the application for Internal review.

# Review by the Administrative Appeals Tribunal

Following Internal review, application may be made to the Administrative Appeals Tribunal for review of a decision by the Internal Reviewer.

The notice of an internal review decision by the Internal Reviewer must include a statement to the effect that, if the person is dissatisfied with the decision, application may, subject to the *Administrative Appeals Tribunal Act 1975*, be made to the Administrative Appeals Tribunal for review of the decision. The notice must also include a statement to the effect that the person may request a statement under section 28 of that Act. However, failure to provide such statement does not affect the validity of that decision.

# Decisions under review

Section 44A of the Administrative Appeals Tribunal Act 1975, section 15 of the Administrative Decisions (Judicial Review) Act 1977 and section 20 of the Federal Court of Australia Act 1976 provide for a stay of a decision. However, in the absence of a stay being ordered, an application for review does not affect the operation of the decision, or prevent the taking of action to enforce the implementation of the decision.

Certificate no: Page 1 of 3

MEL 1600604



# Document of Compliance for Load Line

This is to state that the vessel has been surveyed in accordance with the provisions of the International Convention on Load Lines, 1966,

by Lloyd's Register International

Particulars of Ship

MAEVE ANNE Name of ship

ON: 856910; Unique Identifier: 28812QC Distinctive number or letters

> Brisbane Port of registry

46.080 Length (L) as defined in article 2(8) (metres)

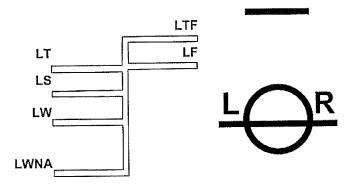
8127737

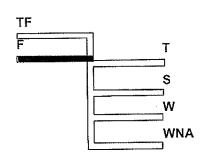
IMO number Freeboard assigned as

A new ship

Type of ship Type B

Freeboard from deck line '		L	oad line	
Tropical	575	mm (T)		0 mm above (S)
Summer	575	mm (S)	Upper edge of line throu	gh centre of ring
Winter	Not Assigned	mm (W)	Not Assigne	d mm below (S)
Winter North Atlantic	Not Assigned	mm (WNA)	Not Assigne	d mm below (S)
Timber tropical	-	mm (LT)		- mm above (LS)
Timber summer	-	mm (LS)		- mm above (S)
Timber winter	-	mm (LW)		- mm below (LS)
Timber winter North Atlantic	-	mm (LWNA)		- mm below (LS)
Allowance for fresh water	for all freeboards	other than timbe	er 2	.7 mm
Allowance fo	ds	- mm		
The upper edge of the deck line from which these freeboards are measured is			is 33	3 mm
below the top of				





This certificate is only valid for the service as endorsed on page 2.\*

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

<sup>&#</sup>x27; Delete as appropriate

Freeboards and load lines which are not applicable need not be entered on the certificate. Subdivision load lines may be entered on the certificate on a voluntary basis.

Certificate no:

MEL 1600604

Page 2 of 3

This document is valid until 2 Convention.

08 October 2017

subject to periodical inspections in accordance with article 14(1)(c) of the

Completion date of the survey on which this document is based 25 July 2012

Issued at

Sydney

07 June 2016

Lloyd's Register International

Initials: Sydney

Surveyor to Lloyd's Register International

a member of the Lloyd's Register group.

Service endorsement\*

Extended protected waters service at the port of Port Jackson, Australia.

#### Notes

When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for consumption between the point of departure and the sea.

When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of fresh water allowance shown above. Where the density is other than unity, the allowance shall be made proportional to the difference between 1.025 and the actual density.

Insert the date of expiry as specified by the Administration in accordance with article 19(1) of the Convention. · Delete as appropriate

Certificate no:

MEL 1600604

Page 3 of 3

This is to certify that, at a periodical inspection required by article 14(1)(c) of the Convention, this ship was found to comply with the relevant provisions of the Convention.

			400000000000000000000000000000000000000
		Lloyd's Register International	AZHAMIZKANI
		Initials: PĀ	champto sci
Signed:		Sydney Mr.	57 B
Place of survey	Southport, Australia	Variable statement and the medical confidence with	40.48.5
Date	06 January 2014		
		Lloyd's Renieson International	SECTION SECTIO
c' 1		Initials: F	Weller and Total
Signed:	Publican Assatualia	** Sydney !	المنظمة المنظمة المنظمة
Place of survey	Brisbane, Australia	The property of the second contract of the se	
Date	17 November 2014		en euthar Printer •
		Lioyd's Renister International	
		Initials: F	Standardina PS
Signed:		Syánay f	-
Place of survey	Port Macquarie, Australia	Express production and control designed for all the control of the	-
Date	10 July 2015		
Signed:			
Place of survey			
Date		· ·	
		•	
The provisions of the	Convention being fully complied with by this	ship, the validity of this document is, in accordance with article 19(2) of	the
Convention, extende	d until .		
Signed:			
Place of survey			
Date			



# SURVEY REPORT AND RECOMMENDATION

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1 Marine Order 503 (certificates of survey – national law) 2013

Australian Maritime Safety Authority

03/06/2017

Next survey due

This form may be used by an accredited surveyor when undertaking the survey of a vessel in accordance with the requirements of NSAMS Chapter 4.

If after conducting a periodic survey, the surveyor is satisfied that the vessel and/or equipment meets the requirements of the standards this form can be used to make a recommendation to the National Regulator. This form may also be used in conjunction with AMSA 606 when conducting an initial survey.

The accredited surveyor is required to keep a copy of this report for their records. Vessel details Vessel name Unique Identifier Standard MAEVE ANNE 28812QC Length (metres) **Hull Material** Engine (kWp) STEEL Date of survey **Survey location** 06/06/2016 Darling Harbour Owner details Given name Title (Mr, Mrs, Dr, etc.) Surname Company name Trading name (if different to company name) **Brady Marine** BMC Equipment Pty Ltd ACN / ABN 152153636 Town/Suburb State Street number and name West End QLD PO Box 5338 Contact numbers Email Home phone Business phone Mobile Vessel/operation Type Unberthed **Berthed** Class Crew Special persons Operational limits passengers passengers 2E 14 0 Smooth waters 0 0 12 0 0 0 Partially Smooth waters 2D Restricted Offshore 2C 0 0 0 Special Conditions (exemptions/equivalents) Crane or piling operations Periodic Survey Shaft Compass 03/06/2016 Date of Survey

I declare that I have cond standards as set out in M am satisfied that the ves	1arine Order 503 Ce	ertificates of Survey	, and that to the exter	vesse nt evid	l, in accordance ent from the ins	e with to pectio	the appl n/s carri	icable ied out,
Select all that apply:  Periodic survey	In water survey	Out of water surv	rey 🛚 Safety equip	ment s	urvey 🗌 Othe	er –		
	re identified were identified as li	sted in survey activit sted in survey activit		<i>[</i>	and rectified	d /	/ /	
Name of Surveyor		Signature of Surv	/evor	Date	of Completion	Sur	veyor ic Numb	dentification per
				25/08/2016				
Documentation Classification Society			na;	ļ,	L	_ast C	lassifica	tion Survey
Lloyds Register						07/06	6/16	
Life raft Certificate(s)							\ . # .	
Type			Serial No(s)			Due D	Date	
Compass Adjusters Certific	ate		Fixed Fire Fighting I	nstallat	ion / Service Repo	ort / Ce	ertificate	
Date of Adjustment: N/A								
Radio Survey Date N/A			Safety Management Plan Yes					
						*****		
Logbooks, maintenance re	cords, training drill red	cords and manifests or	n-board as necessary			*******		
Stability documentation on	-hoard		LPG Compliance Co	ertificate	e			
Yes								
Ships Equipment								
Item	Com	ment	ltem			Comm	nent	
Pyrotechnics and Container	Yes		EPIRB (test and record S	/N)	N/A			
Medical Supplies	Yes		(1001 and 100014 0711)		Type: Smoke/light: No. 0			
Torch(es)	Yes		Lifebuoys		Type: Line: No. 6 Type: Light: No. 1			
Daylight signalling lamp (SL 1 only)	N/A			ŀ	Type: Plain: No	o. 2		
Code flags (SL 1 only)	Yes		Buoyant appliance	es	Туре	(	Capacity	<i>!</i>
Lifejackets, Lights & Whistles	Type Coastal 150N	No 28	Life raft hydrostati release	ic	N/A	'		
Sound signals (Whistle / Bell / Horn)	Yes hand held a	air horn	Rescue boat/life r launching arrangen and lighting		N/A			
Magnetic Compass	N/A		D. d. H. Fiv		Type: 4.5kg ABE powder		No: 4	
Nav.Aids - Radar, GPS, Barometer, Clock, AIS			Portable Fire Extinguishers		Type: 9kg AB powder	E	No: 3	
Depth Sounder/Lead Line	N/A				Type:		No:	
Engine instruments (on the bridge)	N/A				Type:		No:	- Verente de la constitución de
Radio	Radio Call sign		Fire bucket / blan	ıket	Expiry: 3			***************************************
Communications Batteries, Radio lights and voltmeter / Hydrometer	Station Called		Fire and safety p	lan	Yes			

Anchor	Weight	Туре	Chain: Size & Length	Rope: Size & Length
1.				
2.				

**Deck Survey** 

Charts and publications

Item	Comment
Anchor (condition)	
Anchor chain shackles / anchor rope (condition where visible)	
Anchor Windlass (SL 1 only)	
Bulwarks, guardrails, stairs and grab rails	
Hull / Deck (where visible)	
Escapes, Freeing ports and Scuppers	
Weather tight doors / hatches and latching devices (SL 1 only)	
Windows / Side scuttles and deadlights	
Passenger Boarding, Seating and Berths	
Bollards and Deck Cleats	

N/A

**Engineering** 

Item	Comment
Engine	Make: Model: KWP:
Gearbox	Make:
Auxiliary machinery	
Machinery guards	
Raw Water piping	
Exhaust System/Lagging	
Valves and skin fittings (where visible)	
Bilge pumps /plping/ valves/ manifolds	Pump type:
Refrigeration equipment	
Compressors/Air Receivers/Relief Valves	
Instruments (within the machinery space)	
Engine room cleanliness	
Steering Gear	
Emergency Steering	
Bilge alarms (test)	· in · · · · · · · · · · · · · · · · · ·
Emergency Power (test)	
Emergency lighting (test)	
Remote fuel shutoff (test)	

**Fire Systems** 

Fireman's outfit

i ii c Oystonis		
SFP (SL 1 Only)	N/A	
Fixed fire system (SL 1 only)	N/A	
Fire detectors/alarms (SL 1 only)	N/A	
Fire dampers (SL 1 only)	N/A	
Fire pump system (SL 1 only)	Yes. working	

N/A

Required during intermediate and renewal surveys only

Item	Comment
Huli / Deck external out of water	
Hull / Deck internally	
Tanks/ voids internally	
Anchoring (out of vessel)	
Internal Examination of Chain Locker	
Shaft Coupling and Stern Gland	
Shaft Bracket / Appendages	
Stern Bearing and Propeller Shaft Bearing Clearance:	
Propellers	
Rudder	
Rudder Stock Bearing	Clearance:
Test Anchor Windlass	

To be inspected during 10, 20 and 30 year renewal surveys

Item	Comment
UT Measurement of Hull (Metallic Vessels)	
Withdraw sample fastening from hull (Wooden vessels)	
Verify internal foam buoyancy (if not carried out at previous renewal survey)	
Pressure Test all Sea Water pipes	
NDT of Shaft/Rudder Stock iwo keyway, taper and threads	
Internal Inspection of Fuel Tanks	

# Where to Lodge

Where to lodge: Roads and Maritime Services NSW • Maritime Safety QLD • Transport Safety VIC • Marine and Safety TAS • Department of Planning, Transport and Infrastructure SA • Department of Transport WA • Marine Safety NT.



#### PROVISIONAL ISSUE

Ship's Name: MAEVE ANNE

LR/IMO Number: 8127737

Port of Survey: Port Macquarie,

Australia

Date of Build: **01/09/1982** 

Certificate Number: MEL 1500812

Port of Registry: Brisbane, Qld

First Visit: 10/07/15

Gross Tons: 654

Last Visit: 10/07/15

I have carried out the surveys detailed below. All recommendations made by me have been dealt with to my satisfaction. I am recommending that class be maintained with new records as follows.

	SURVEYS HELD	STATUS	NEW RECORD	
	HULL	·		
IWS	In-Water	COMPLETE	10/07/15	
AS	Annual	PART HELD	Date on Completion	
ITSS	Intermediate	PART HELD	Date on Completion	
HULL	Arrival survey in new port	COMPLETE	10/07/15	
	CONDITIONS OF CLASS NO	W IMPOSED		DUE
	Manholes and sounding pipe with the space they serve.	es to be marked		01/16
·	Load line grids P & S curren F-S lines. To be adjusted to S line and vertical joining line expunged.	show only F line.		01/16
	MEMORANDA IMPOSED			DUE
H01	Certificate of Class and DOC Macquarie.	for Load Line issu	ed showing operating at Port	
S01	The pontoon barge holds Australian domestic Certificate of Operation for 2C (up to 15 nm offshore), 2D and 2E, issued by MSQ for AMSA.			
S02	The barge has been issued a Lloyd's Register Form 1333 Document of Compliance for Load Line without reference to any flag state.			

(contd ... 2)

The above recommendation is made subject to any outstanding conditions of class being dealt with as previously recommended.

Signed:

H

Surveyor(s) to Lloyd's Register International

A member of the Lloyd's Register Group.

Date: 10/07/2015

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



#### PROVISIONAL ISSUE

Ship's Name: MAEVE ANNE

LR/IMO Number: 8127737

Certificate Number: MEL 1500812

SURVEYS HELD

**STATUS** 

NEW RECORD

STATUTORY SURVEYS NOW HELD

PLRN

PERIODICAL LL RENEWALCOMPLETE

NON

10/07/15 Certificate Expires 08/10/17

# **HULL DETAILS**

ITEMS OUTSTANDING TO COMPLETE 'AS'

Z

Items Outstanding

See ITSS items outstanding, otherwise AS complete.

ITEMS OUTSTANDING TO COMPLETE 'ITSS'

AAAA001150

General

Classification Certificate endorsement for Int

ermediate Survey

AAAA037400

Additional Survey Requirements

Ships of 10 years old and over: All salt water

ballast tanks

\*\*\* END \*\*\*



Ship's Name: MAEVE ANNE

LR/IMO Number: 8127737

Port of Survey: Port Macquarie,

Australia

Date of Build: 01/09/1982

Port of Registry: Brisbane, Qld

Gross Tons: 654 Certificate Number: MEL 1500812

First Visit: 10/07/15 Last Visit: 10/07/15

I have carried out the surveys listed below. All recommendations made by me have been dealt with to my satisfaction. I am recommending that class be maintained with new records as follows.

SURVEYS HELD

STATUS

NEW RECORD

HULL

In-Water TWS

COMPLETE

10/07/15

Annual AS

PART HELD

Date on completion

ITSS Intermediate

PART HELD COMPLETE

Date on completion

arrival HULL Gen Examsurvey in new port

COMPLETE

HULL Withdraw descriptive

note

#### CONDITIONS OF CLASS NOW IMPOSED

DUE 01/16

Load line grids P & S currently marked with F-S lines. To be adjusted to show only F line. S line and vertical joining

line to be expunged.

DUE

# MEMORANDA NOW IMPOSED

Certificate of Class and DOC for Load Line issued showing operating at Port

Macquarie.

Form 1491

The above recommendation is made subject to any outstanding conditions of class being dealt with as previously recommended.



Surveyor(s) to Lloyd's Register International A subsidiary of Lloyd's Register Group Limited Date: 20/07/2015

Lloyd's Register Group Limited, its affiliates and subsidiares and their respective officers employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall notbe liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provid ed, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

# INTERIM CERTIFICATE SHEET 2

Ship's Name: MAEVE ANNE LR/IMO Number: 8127737

Certificate Number: MEL 1500812

MEMORANDA NOW IMPOSED

DUE

The pontoon barge holds Australian domestic Certificate of Operation for 2C (up to 15 nm offshore), 2D and 2E, issued by MSQ for AMSA.

The barge has been issued a Lloyd's Register Form 1333 Document of Compliance for Load Line without reference to any flag state. Freeboard was assigned under LL66 as Type B unmanned pontoon; Regs 25, 26 and 39 not applicable.

SURVEYS HELD (contd)

STATUS

NEW RECORD

STATUTORY SURVEYS NOW HELD
PLRN PERIODICAL LL RENEWAL
NON

COMPLETE

10/07/15 Certificate Expires 08/10/17

#### HULL DETAILS

ITEMS OUTSTANDING TO COMPLETE 'AS '

Z

Items Outstanding See ITSS items outstanding, otherwise AS complete.

ITEMS OUTSTANDING TO COMPLETE 'ITSS'

AAAA001150 General

Classification Certificate endorsement for Intermediate Survey

AAAA037400

Additional Survey Requirements
Ships of 10 years old and over: All salt water
ballast tanks

\*\*\*END\*\*\*(total pages 2)



#### PROVISIONAL ISSUE

Ship's Name: MAEVE ANNE

LR/IMO Number: 8127737

Port of Survey: Sydney

Date of Build: **01/09/1982** 

Certificate Number: MEL 1600604

Port of Registry: Brisbane, Qld

First Visit: 03/06/16

Gross Tons: 654

Last Visit: 07/06/16

The ship/installation has been surveyed in accordance with the relevant Rules and Statutory Regulations and the items examined as shown were found good unless indicated otherwise on any attached sheets. It is recommended that Class be reinstated with new records of survyey as shown subject to any conditions imposed now being dealt with as recommended.

	SURVEYS HELD	STATUS	NEW RECORD
	HULL		
AS	Annual	COMPLETED	07/06/16 Certificate Endorsed
ITSS	Intermediate	COMPLETED	07/06/16 Certificate Endorsed
5	CONDITIONS OF CLASS  Load line grids P & S cur with F-S lines. To be adju only F line. S line and vei line to be expunged.	rently marked usted to show	
	SURVEYS HELD	STATUS	NEW RECORD
	STATUTORY SURVEYS NO	W HELD	
MORH	Marpol Oil Renewal	COMPLETE	Certificate Expires 03/11/16
		*** END ***	

The above recommendation is made subject to any outstanding conditions of class being dealt with as previously recommended by the Register International

Signed:

Initials: Sydney Uoyds Register

Surveyor(s) to Lloyd's Register International A member of the Lloyd's Register Group.

Date: 07/06/2016

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.