

## STEEL STEAMER or MOTORSHIP.

Received at London Office

1 APR 1925

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YESDate of completion of report 26th March, 1925.Port of GREENOCK.No. 18373.Survey held at GREENOCK.Date First Survey 9th August, 1923.Last Survey 26th March, 1925.On the TWIN SCREW"RAWALPINDI"State Type COMPLETE SUPERSTRUCTURE WITHOUT TONNAGE OPENING.State Type of Erections LONG BRIDGE & FORECASTLE.TONNAGE under Tonnage Deck 7565.66.CLASS 100. A.1.State if with freeboard as condition of Class YES.Built at GREENOCK.Do. of space of spaces between Tonnage Dk. and Upper Dk. 2969.74.Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 1546.66.Launched 26th March, 1925. Yard No. 660.Total 13298.55.Breadth (greatest moulded) B 71.00.Builders HARLAND & WOLFF LTD.

Gross Tonnage

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 42.83.Owners PENINSULAR & ORIENTAL STEAM NAV. CO.

Register Tonnage

1st Longitudinal Number (L x D) = 23413.Managers ✓

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 162226.Residence LONDON.

## REGISTERED DIMENSIONS.

FEET.

Length 547.7.Framing Depth "d," at middle of length. See Sec. 3 (1d) 9.58.Port of Registry GREENOCK.Breadth 71.2.Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.59.If surveyed while building, afloat, or in dry dock YES.Depths 25.95. 34.45. 43.46.Draught Moulded 28' 6".

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
AMES, Spacing amidships	33.	✓	Bracket Floors, Frame	6 1/2 3 1/2 40.	✓
" " from 1/2 length to Collision bulkhead	29.	✓	" " Reversed Frame	6 3 1/2 40.	✓
" " in peaks	24.	✓	" " Vertical Struts	6 3 1/2 40.	✓
DE FRAMING.			Centre Girder, depth and thickness amidships	50. 68.	✓
Frame Amidships, Angle, [ or ]	18 x 35, 3 1/2 x 3 1/2 x 52.	✓	" " top Angles	3 1/2 3 1/2 64.	✓
" " Extends up to	BRIDGE & 2ND DECK ALT.	✓	" " bottom Angles	5 5 72.	✓
Reversed Frame Amidships, Angle	3 1/2 3 1/2 38.	✓	Side Girders, No. each side and thickness	3 47.	✓
" " Extends up to	ON ALT. FRAMES. 95 PER. PROFILE PLAN. OF SHIP AS BUILT.	✓	Margin Plate depth (excl. of flange) and thickness	44 64.	✓
Depth of Framing Girder	8.	✓	" " Vertical Angles to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 52.	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	6 x 3 1/2 x 42. 8 x 35, 3 1/2 x 3 1/2 x 62.	✓	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	3 1/2 3 1/2 52.	✓
" " Second 'tween Decks, Angle, [ or ]	8 x 35, 3 1/2 x 3 1/2 x 52.	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	CONTINUOUS. GUSSET PLATE. 48.	✓
" " Third " " " "	" " " "	✓	" " Gussets, spacing and scantling forward 1/2 len. from stem	7 1/4 48.	✓
Framing in Peaks, Angle or [	9 3 1/2 46.	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	7 1/4 48.	✓
Diameter and Spacing of Rivets through Shell Plating	7/8. 5 1/4.	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	NO.	✓	Breadth and thickness of Middle Line Strake	6 1/2 62.	✓
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	WEB FRAME SYSTEM. WEBS. 30 x 50.	✓	Thickness of remainder in Holds	51.	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	FRAMES DOUBLED. 95 PER. APP. PLAN.	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	YES.	✓
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	7 x 40 13 1/2 x 3 1/2 x 50.	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [ or ]	" " " "	✓
Middle Line Keelson, on Floors, Angles, [ or ]			Spacing	ON EVERY FRAME.	✓
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, [ or ]	7 x 40 13 1/2 x 3 1/2 x 50.	✓
" " Foundation Plate on Floors			Spacing	ON EVERY FRAME.	✓
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [ or ]	7 x 40 13 1/2 x 3 1/2 x 50.	✓
Side Keelsons, No. each side			Spacing	ON EVERY FRAME.	✓
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, [ or ]	7 x 40 13 1/2 x 3 1/2 x 50.	✓
" " Angle			Spacing	ON EVERY FRAME.	✓
DOUBLE BOTTOM.			FIFTH DECK, Angle, [ or ]	7 x 40 13 1/2 x 3 1/2 x 50.	✓
Solid Floors, thickness and spacing	47 ON EVERY 3RD FRAME. 95 PER. APP. PLAN.	✓	IN WAY OF FORE HOLDS ONLY.		
" " Are Frame and Reversed Frame joggled?	YES.	✓	Spacing	ON EVERY FRAME.	✓
Bracket Floors, breadth and thickness at middle line	37. 47.	✓	Bridge Deck, Angle, [ or ]	7 x 40 13 1/2 x 3 1/2 x 50.	✓
" " breadth and thickness at margin plate	38. 47.	✓	Spacing	ON EVERY FRAME.	✓
" " AT EACH SIDE OF CONTINUOUS SIDE GIRDER	37. 47.	✓	Forecastle Deck, Angle, E or F	7 x 40 13 1/2 x 3 1/2 x 50.	✓
			Spacing	ON EVERY FRAME.	✓



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Foundation



## PILLARS AND DECKS.

	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>	4			Stringer Plate, breadth and thickness in way of Bridge .....	54	44	
" in 'tween Decks, Size and Spacing.....	2 1/2" ON ALL BEAMS	2 3/4" ROUND.		Thickness of Plating abreast Deck openings in way of Wells .....		44	
" " " " " " ✓ 2 1/2" . . . . .		3" .		Thickness of Plating abreast Deck openings in way of Bridge .....		40	
" in Holds " " ✓ 4 1/2" ON EVERY 4TH BEAM.				If Sheathed, material and thickness .....		✓	
" " " " " " ✓ 5 1/2" . . . . .				<b>Third Deck.</b>			
" " " " " " ✓ 6 1/2" . . . . .				Stringer Plate, breadth and thickness.....	54	42	
<b>Centre Line Bulkhead.</b>				If Plated, state thickness.....		40 IN. WAY OF BRIDGE	
<b>Stiffeners and Spacing.</b>				<b>Fourth Deck.</b>			
Plating thickness of .....				Stringer Plate, breadth and thickness.....	54	34	
<b>STRINGERS AND DECKS.</b>				If Plated, state thickness .....	30		
<b>Uppermost Continuous Deck.</b>				<b>FIFTH DECK. IN. WAY OF FORE HOLDS ONLY.</b>			
Stringer Plate, breadth and thickness in Wells	77 x 83.7	94	✓	Stringer Plate, breadth and thickness .....	54	34	
" " " " in way of Bridge	66	50	✓	Plating, Sheathing, material and thickness ...	30		
" Angle in Wells .....	6 x 6 x 83		✓	<b>Bridge Deck.</b>			
Thickness of Plating abreast Deck openings in way of Wells .....	64	70	✓	Stringer Plate, breadth and thickness.....	77	60	
Thickness of Plating abreast Deck openings in way of Bridge .....	46		✓	DECK PLATING.	48		
If Sheathed, material and thickness .....	3" TEAK IN WELLS ONLY.		✓	Plating, Sheathing, material and thickness ...	23	TEAK.	
<b>Second Deck.</b>				<b>Forecastle Deck.</b>			
Stringer Plate, breadth and thickness in Wells...	54	48	✓	Stringer Plate, breadth and thickness.....	37	41	
				DECK PLATING.	38		
				Plating, Sheathing, material and thickness ...	21	TEAK.	

## SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	No.	SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL .....	60.	96 ✓	86 ✓	86 ✓	✓		DOUBLE.	1 1/8	4 1/2	✓	4 R.	1 1/8	4 1/2	STRAPPED
„ DELG. (if any)	✓													
BOTTOM PLATING, No. of Strakes .....		71 ✓	58 ✓	58 ✓	✓		✓	7/8	3 3/4	✓	4 R. to 3 R.	7/8	3 1/2	LAPPED.
BILGE PLATING, No. of Strakes .....		71 ✓	58 ✓	58 ✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
SIDE PLATING, No. of Strakes .....		71 ✓	54 ✓	54 ✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
UPPER DECK, Sheer- strake in Wells.....	66.	83 ✓	54 ✓	54 ✓	✓		✓	1	3 3/4	✓	✓	1	4	✓
UPPER DECK, Sheer- strake in Bridge ...	66	71 ✓			✓		✓	7/8	3 3/4	✓	✓	7/8	3 1/2	✓
STRAKE BELOW Sheer- strake in Wells.....	52 1/2	78 ✓	54 ✓	54 ✓	✓		✓	1	3 3/4	✓	✓	1	4	✓
STRAKE BELOW Sheer- strake in Bridge ...	✓	71 ✓			✓		✓	7/8	3 3/4	✓	✓	7/8	3 1/2	✓
POOP SIDE PLATING .....	✓													
BRIDGE SIDE PLATING ...	60 46 1/2	72 ✓ 65 ✓	48 ✓ 48 ✓	44 ✓ 44 ✓	✓		✓	7/8	3 3/4	✓	✓	7/8	3 1/2	✓
FORE'C'TLE SIDE PLATING			48.		✓		SINGLE.	3/4	3	✓	2 R.	3/4	2 5/8	✓

## WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—							Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c) <u>ONE.</u>										
Deck next below <u>ELEVEN.</u>										
As per Rule <u>NINE.</u>										
		Plating Thickness.	STIFFENERS.							
			VERTICAL.		HORIZONTAL.					
			Scantling.	Spacing.	Scantling.	Spacing.				
MIDSHIP BULKHEAD,	Tween decks ...	• 26.	<u>Angle.</u> 5 x 3 x 38	30	✓	✓				
"	" "	• 28.	5½ x 3 x 38	30	✓	✓				
"	" "									
"	" "									
"	" "									
"	" "									
"	" "									
"	Holds .....	• 44.	12 x 3½ x 50	30	✓	✓				
COLLISION	(in Hold) ....	• 56/27.	9 x 3½ x 50	24	✓	✓				
AFTER PEAK	" "	• 60/28.	36 x 3½ x 50	24	✓	✓				

  

		Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<del>KEEL Bar</del>	.....				
STEM	.....	✓ ROLLED STEEL	11 x 3.	D. COLVILLE & SONS.	
STERN FRAME	{ Propeller Post	✓ STEEL CASTING		DARLINGTON FORGE CO.	
	{ Rudder	"			
RUDDER—A x D	.....	✓ 15' 7"			
Speed of Vessel	.....	✓ 17 KNOTS.		DARLINGTON FORGE CO.	
RUDDER mainpiece at head	.....		✓ 18½"		
" " heel	.....		✓ 14½"		✓ 13¾"
" how constructed	.....	BUILT FORGING.			
" double or single plate coupling, vertical or horizontal	.....		✓ 1. 24"		
STEEL.					
Manufacturer's name or trade mark of the Steel used in the construction of the					
Vessel (state process of manufacture) OPEN HEARTH. STEEL CO. OF SCOTLAND.					
D. COLVILLE & SONS, LANARKSHIRE STEEL CO.					
Has the Steel been tested as required by the Rules? YES					



1 APR 1925

EQUIPMENT NO. UNDER 70200

LETTER Kt

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	owts.	qrs.	lbs.	Owts.				
71685	1st Bower	114	3	18	STOCKLESS			72	17	2	0	113	2	0	HALL'S.	N. HINGLEY & SONS, NETHERTON, 19/6/24 H. GREEN.
71600	2nd "	114	3	14				72	17	2	0	113	2	0		
87334	3rd "	108	1	4				70	12	2	0	97	0	0		
	Collective weight.	338	0	8								324	0	0		24/25
87301	Stream	44	2	9				39	0	1	7	42	2	0		26/25

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate. Stress-Breaking.	WEIGHT OF CHAIN CABLE.			Length and size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire.	Length and size per Table 53.	
	Length.	Diam.		Supplied.	Per Rule.							Length.	Diam.		Length.	Diam.
76613.	165.	3.	145 1/2	204 1/2	752	0 7.		STEEL.	N. HINGLEY & SONS, NETHERTON, 22/25 H. GREEN.		TOWLINE	140.	7 1/2.	128.	140.	7 1/2.
76624	165.	3.			752	0 16.				4/9/25	HAWSERS & WARPS	2-100.	4 1/2.	39.	3-120.	2 3/4.
	230.	3.			1304	3 23.	1440. 0 0.	330	2 1/2.			2-100	3 1/2.	26.	2-120	2 3/4.
Lean Stream or Steel Wire	150.	6 1/2.		102.				150.	6 1/2.			2-100	2 3/4.	22.		

Steering Gear, Steam BY BROWN, BROS. EDINBURGH.

Steering Gear, Hand HYDRAULIC AUXILIARY GEAR.

Boats

Steering Chains, Size and Test

Windlass STEAM BY CLARKE, CHAPMAN.

Ceiling in Holds, thickness and material 2 1/2" P.P. UNDER HATCHWAYS AND Cargo Battens, thickness, material and spacing 2" P.P. SPACED 6" APART CENTRES OVER LIMBERS ONLY.

Cargo Hatchways.-(Upper Deck) STEEL PLATES AND ANGLES Thickness of Hatches 3" AND 2 1/2"

Size of No. 1 Hatchway (Forward) 18'0" x 14'0" No. 2 21'6" x 14'0" No. 3 16'6" x 14'0" No. 4 13'9" x 14'0" No. 5 13'9" x 14'0" No. 6 13'9" x 14'0"

Number of Shifting Beams and/or Fore and Afters 3 in Nos 1 & 3. 4 in No 2. & 2 in Nos 4, 5, 6, & 7.

BUILDER'S SIGNATURE.

For Harland and Wolff, Limited

J. W. Kempster.  
Director.

Builder's Signature

A. W. W. Rab.

GENERAL DECLARATION

This vessel has been built in accordance with the approved plans, instructions & printed rules of this Society. The materials and workmanship are of good quality. In the fore & after bodies extending for a distance of about 1/4 the length of the vessel one seam of shell plating is triple riveted and two seams have an additional pair of rivets fitted in each frame space. Double bottom tanks Nos 5 & 6 are intended for oil fuel & together with the oil fuel side & thwartship bunkers have been tested accordingly & Dec. 35 of the Rules complied with. The remainder of the double bottom tanks & fore & after peak tanks have been tested as water ballast compartments. The tunnels have been here tested. The bulkheads and weather decks have been tested (see list of work remaining to be done to complete survey) The freeboard has been verified and the marks cut in on the vessel's side. The fresh water tanks have also been tested.

The amount of Entry Fee ..... £ 12: - - - - - Fees applied for  
To BE RENDERED FROM BELFAST OFFICE. 8. 9. 1925  
Special Survey Fee.... £ 532: 14: 9  
Travelling Expenses, if any £ : : : Received by me, 23/10/25

I am of opinion the Vessel should be Classed  $\pm$  100 A1.

"WITH FREEBOARD"

State whether the Vessel has been built under Special Survey. YES.

Signature

A. W. W. Rab.

Surveyor to Lloyd's Register of Shipping.

Hull Certificate to be sent to Gls. City.

Date of issue 24/10/25

Committee's Minute GLASGOW 31 MAR 1925

TUES. 15 SEP 1925

Character assigned Deferred.

+ 100 A1 (on Bel 9412) with freeboard

Lloyd's Assoc.

Write Oil

+ Limb. 9.25 3D, CL  
Fitted for oil fuel 9.25  
3P. above 150° F

21/9/25

my



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GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

The following approved plans & reports have been sent to the Belfast Surveyor for guidance in completing the vessel.

Midship Section, Profile, Alternative arrangement of double bottom, Alternative arrangement of pillars, Fore end stiffening, Stern frame & shaft brackets, Modification to stern frame and shaft brackets, Amended sketch of rudder, Plan of after framing, Plan of pillars & girders in fore framing in way of oil bunkers, Plan of W.T. & oil fuel bulkheads, Plan of W.T. bulkhead on oil fuel bunkers, Plan of tunnels & fresh water tanks, Plan of forward oil fuel bunkers, Pumping & Plan of steering gear, Arrangement of fresh water filling pipe to No 1 double bottom & fore peak tank, Boat deck plating & beams, Officers houses on boat deck, Engineer's houses on boat deck, After promenade deck house, Forward promenade deck house, Second class smoke & music, Sun deck plating, Midship Section of ship as built, Profile of ship as built. (28 Plans) also report on cast steel stern frame & shaft brackets & forged steel rudder frame. Cast steel fore foot, and steel forged tiller (3 reports).

To complete Survey on the hull the following items still required to be carried out.

- ✓ Mark to be stepped on board & rigging set up.
- ✓ Installation of boats to be completed.
- ✓ Windlass & steering gears to be tested under working conditions.
- ✓ Centre Part of W.T. bulkhead on frame 7. fore body to be riveted, caulked & hose tested, after boilers are shipped.
- ✓ All weather decks to be hose tested except gutter waterway of Forecastle and upper (B) decks.
- ✓ All bulkhead doors & doors through ship's side to be tested.
- ✓ Hand Pump to fore peak tank top flat to be tested.
- ✓ Part of engine & boiler casing left loose for shipment of machinery to be riveted & completed.

To complete 1<sup>st</sup> entry report. Details of tonnage, boats, water ballast Particulars fees & officials to be inserted.

The Belfast Surveyors have been advised

Particulars of Drop Test of Cast Steel Anchors, viz. :—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower (HEAD)	65	1	14	W.C.	6507 R.	3 <sup>RD</sup> 16 <sup>TH</sup> MARCH 1914.
2nd "	65	0	0	W.C.	6505 R.	21 <sup>ST</sup> & 28 <sup>TH</sup> JAN. 1914.
3rd "	61	3	0	D.D.W.	138	11 <sup>TH</sup> DEC. 1924.
STREAM.	26	0	7	N.D.	1844	27 <sup>TH</sup> JUNE 1924.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., (Bridge 304 ft., Forecastle 84 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓  
JOINED TO PROMENADE DECK AT AFTER END.

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book).

4 DKS (STL). 5<sup>TH</sup> DK (STL) IN WAY OF FORE HOLDS ONLY. U.P. - TEAK S.

Official No. : Signal Letters

If bottom of Vessel has been coated Inside YES.

particulars of composition BITUMASTIC ENAMEL IN NO 7. (ENGINE ROOM TANK). NO COMPOSITION IN NOS 5 & 6 (OIL FUEL TANKS) REMAINDER OF DOUBLE BOTTOM TANKS. PORTLAND CEMENT AND PAINT.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom; aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.					

Order for Special Survey No. 3097

Date 26.4.23.

Dates of Surveys held while building

1923 Aug. 7. 13. 15. 20. 22. 27. 31. Sept. 3. 10. 19. 21. 26. 28. Oct. 2. 5. 9. 11. Nov. 26. Dec. 3. 5. 10. 17. 1924 Jan. 10. 15. 22. 30. Feb. 6. 11. 15. 18. 25. 28. Mar. 1. 3. 7. 12. 14. 24. 26. 28. Apr. 3. 4. 8. 11. 16. 21. 23. 28. May 1. 7. 15. 16. 28. June 3. 6. 10. 24. 27. July 22. August 5. 11. 17. 28. Sept. 2. 10. 12. 16. 22. 27. 30. Oct. 3. 10. 13. 20. 23. 27. Nov. 3. 5. 10. 14. 19. 20. 24. 27. Dec. 2. 5. 9. 12. 18. 22. 24. 30. (1925) Jan. 9. 12. 15. 19. 22. 26. 30. Feb. 3. 5. 7. 10. 13. 18. 19. 25. Mar. 1. 2. 9. 16. 20. 23. 30.



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