

**PURCHASE ORDER
MODIFICATION**

FORM PA-POMD-1. (3322160)

**NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY
NEWPORT NEWS, VIRGINIA**

O.B.R.P. ☐ YES ☐ NO
VENDOR ORDER NO.

NO
MODIFICATION NO. 2
TO PURCHASE ORDER NUMBER

11-573-635A-7

IMPORTANT - See Note Below

DATE OF ISSUE (BY PA)
May 26, 1964

INSPECTION BY

Owners

INSPECTION AT

Destination

TO: DeLaval Turbine, Incorporated
Power Auxiliaries Division
853 Nottingham Way
Trenton, New Jersey

20730

PLEASE MODIFY THIS PURCHASE ORDER AS SPECIFIED HEREIN. ALL TERMS AND CONDITIONS OF THE ORIGINAL PURCHASE ORDER AND APPENDICES ATTACHED THERETO REMAIN IN EFFECT UNLESS SPECIFICALLY ALTERED BY A MODIFICATION.

ACKNOWLEDGE RECEIPT OF THIS MODIFICATION IMMEDIATELY, ADVISING ITS EFFECT ON PRICE AND DELIVERY.

L. B. PETERSON, MANAGER OF PURCHASES (OR)
W. K. WILLS, PURCHASING AGENT

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
4		PUMPS: FUEL OIL SERVICE, LUBRICATING OIL SERVICE AND DIESEL OIL TRANSFER, MOTOR DRIVEN, ROTARY, (MECHANICAL PORTIONS) - Cancel. (Special tools)		
		P.A.: Development. No special tools are required. Will not affect price.		

ARB
WJH-sf
A-FBB*
A-AO
T-JTT
A-ESP
E-IJC
5/21

SHEET NO. 1 OF 1 SHEETS
MODIFICATION

This Number MUST Appear On All
Correspondence, Invoices, Packages
And Shipping Papers.

MODIFICATION NO. 2
TO PURCHASE ORDER NUMBER

11-573-635A-7

**PURCHASE ORDER
MODIFICATION**

FORM PA-POMD-1 (3322160)

**NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY
NEWPORT NEWS, VIRGINIA**

O.B.R.P. ☐ YES ☐ NO

VENDOR ORDER NO.

NO

MODIFICATION NO. 1
TO PURCHASE ORDER NUMBER

20730

H-573-635A-7

IMPORTANT -

See Note Below

DATE OF ISSUE (BY PA)

January 27, 1964

INSPECTION BY

Owners

INSPECTION AT

Destination

TO: DeLaval Turbine Incorporated
Power Auxiliaries Division
853 Nottingham Way
Trenton, New Jersey

PLEASE MODIFY THIS PURCHASE ORDER AS SPECIFIED HEREIN. ALL TERMS AND CONDITIONS OF THE ORIGINAL PURCHASE ORDER AND APPENDICES ATTACHED THERETO REMAIN IN EFFECT UNLESS SPECIFICALLY ALTERED BY A MODIFICATION.

ACKNOWLEDGE RECEIPT OF THIS MODIFICATION IMMEDIATELY, ADVISING ITS EFFECT ON PRICE AND DELIVERY.

L. B. PETERSON, MANAGER OF PURCHASES (OR)
W. K. WILLS, PURCHASING AGENT

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL														
		PUMPS: FUEL OIL SERVICE, LUBRICATING OIL SERVICE AND DIESEL OIL TRANSFER, MOTOR DRIVEN, ROTARY, (MECHANICAL PORTIONS) - GROUP 635-1 - For Humble Oil and Refining Co. Tankers Change the "Title" to read as shown above. On Sheet 1, at top of the Quantity Column, add: <u>2 Ships</u>. Increase quantities as follows: <table><tr><td><u>From</u></td><td><u>To</u></td></tr><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>4</td></tr><tr><td>3</td><td>1</td></tr></table> Change items 4 and 6 to read as follows: <table><tr><td>4</td><td>2</td><td>Outfits of special tools in accordance with Appendix B, Section V, one outfit per ship.</td></tr><tr><td>6</td><td>7</td><td>Instruction books in accordance with Appendix B, Section IV.</td></tr></table> This modification exercises the option in the Basic Purchase Order concerning purchase for a second vessel. Add shipment for second shipset of material August 24, 1964. Increase Total Price by 1-573-635A	<u>From</u>	<u>To</u>	1	2	2	4	3	1	4	2	Outfits of special tools in accordance with Appendix B, Section V, one outfit per ship.	6	7	Instruction books in accordance with Appendix B, Section IV.		
<u>From</u>	<u>To</u>																	
1	2																	
2	4																	
3	1																	
4	2	Outfits of special tools in accordance with Appendix B, Section V, one outfit per ship.																
6	7	Instruction books in accordance with Appendix B, Section IV.																
ARB 1/21 WJH-dm FBB*			Advise															

Advise

SHEET NO. 1 OF 1 SHEETS
MODIFICATION

This Number MUST Appear On All
Correspondence, Invoices, Packages
And Shipping Papers.

MODIFICATION NO. 1
TO PURCHASE ORDER NUMBER
H-573-635A-7

**PURCHASE ORDER
DISTRIBUTION COPY**
FORM PA-POD-1 (3322100)

NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY
LEAD YARD ORDER NO.

O.B.R.P. ☐ YES ☐ NO
VENDOR ORDER NO.

VENDOR

DeLaval Turbine, Incorporated
Power Auxiliaries Division
853 Nottingham Way
Trenton, New Jersey

N.N. VENDOR NO.

10750

YD. REQ. NO.

PURCHASE ORDER NUMBER

H-573-635A-7

IMPORTANT -

See Note Below

DATE OF ISSUE (BY PA)

September 13, 1964

INSPECTION BY

Owners

INSPECTION AT

Destination

APPLICABLE
APPENDIX

A - See below

BUYER	PLACEMENT	COMMODITY	AMOUNT	DATE SHIPMENT WANTED	DATE SHIPMENT PROMISED															
				1964																
F.O.B.		TERMS		CHARGE NO.	STOP NO.															
Trenton, New Jersey		Net 30 Days		635																
ITEM	QUANTITY	DESCRIPTION	IDENT. NO.	UNIT PRICE	TOTAL PRICE															
		See notes on last sheet	35																	
		PUMPS: FUEL OIL SERVICE, LUBRICATING OIL SERVICE AND DIESEL OIL TRANSFER, MOTOR DRIVEN, ROTARY, (MECHANICAL PORTIONS) - GROUP 635-1 - For Humble Oil and Refining Co. Tanker																		
		<table><tr><td>Service</td><td>Capacity GPM</td><td>Discharge Pressure PSIG</td></tr><tr><td>1</td><td>2</td><td>Fuel oil service 25 375</td></tr><tr><td>2</td><td>2</td><td>Lubricating oil service 400 60</td></tr><tr><td>3</td><td>1</td><td>Diesel oil transfer 5 50</td></tr><tr><td>4</td><td>1</td><td>Outfit of special tools in accordance with Appendix B, Section V.</td></tr></table>	Service	Capacity GPM	Discharge Pressure PSIG	1	2	Fuel oil service 25 375	2	2	Lubricating oil service 400 60	3	1	Diesel oil transfer 5 50	4	1	Outfit of special tools in accordance with Appendix B, Section V.			
Service	Capacity GPM	Discharge Pressure PSIG																		
1	2	Fuel oil service 25 375																		
2	2	Lubricating oil service 400 60																		
3	1	Diesel oil transfer 5 50																		
4	1	Outfit of special tools in accordance with Appendix B, Section V.																		

PURCHASE ORDER NO.

H-573-635A-7

SHEET 1 OF SHEETS
DISTRIBUTION COPY

This Number MUST Appear On All Correspondence, Invoices, Packages And Shipping Papers.

NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY
PUMPS, FUEL OIL SERVICE, LUBRICATING
OIL SERVICE AND DIESEL OIL TRANSFER,
MOTOR DRIVEN, ROTARY, (MECHANICAL
PORTIONS)

PURCHASE ORDER NO.

11-573-635A-7

DISTRIBUTION COPY

FORM PA-POD-2 (3322102)

ITEM	QUANTITY	DESCRIPTION	RECORDS
5	See Appendix	Drawings.	
5-A	See Appendix	Drawings for preliminary and/or foundation information, in accordance with Appendix B, Section III A.	
5-B	See Appendix	Commercial type drawings for approval, in accordance with Appendix B, Section III B.	
6	See Appendix	Instruction books in accordance with Appendix B, Section IV. The fuel oil service pumps covered by item 1 shall be self-priming vertical rotary screw type, with cast steel casings, gray iron rotor housing and steel power and idler rotors. The pumps shall be complete with flexible couplings (including motor half coupling), foundation baseplate and motor brackets suitable for mounting the motors. Each unit shall be capable of satisfactorily delivering its required rated capacity and discharge pressure when handling fuel oil of from 2° A.P.I. to 20° A.P.I. gravity and viscosity of from 500 to 25 seconds Saybolt Furol at 122°F. with suction lift of 20 feet with the pump primed. The lubricating oil service pumps covered by item 2 shall be self priming vertical rotary screw type with cast steel casings fitted with replaceable bronze rotor housings. Power & Idler rotors shall be steel. The pumps shall be complete with flexible couplings (including motor half coupling), foundation baseplates and motor brackets suitable for mounting the motors. Each unit shall be capable of satisfactorily delivering its rated capacity and discharge pressure when handling lubricating oil having a viscosity of 185 to 205 seconds Saybolt Universal at 130°F. and a suction lift of 20 feet when the pump is primed. The diesel oil transfer pump covered by item 3 shall be designed for flooded suction and is to have a cast steel casing with gray iron rotor housing. The pump is to have a steel power rotor and gray iron idler rotors. The pump shall be complete with flexible coupling (including motor half coupling), foundation baseplate and motor brackets suitable for mounting the motor. The unit shall be capable of handling marine diesel oil at a viscosity of 1.4/1.2 Seconds Saybolt Furol at 122°F.	

SHEET NO.

2

DISTRIBUTION COPY

PURCHASE ORDER NO.

11-573-635A-7

EXX-MOR-002494

NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY

PUMPS: FUEL OIL SERVICE, LUBRICATING

PURCHASE ORDER NO.

DISTRIBUTION COPY OIL SERVICE AND DIESEL OIL TRANSFER,

H-573-635A-7

FORM PA-POD-2 (3322102) MOTOR DRIVEN, ROTARY, (MECHANICAL

PORTIONS) -

ITEM	QUANTITY	DESCRIPTION	RECORDS
		All of the above pumps shall have steel thrust collars and bronze bearings. Foundation bolts are not to be less than 5/8" in diameter for any pump. All pump couplings shall be steel. All flanged connections are to be in accordance with A.S.A. Standard for the pressures used. Where the pump is lubricated by the fluid pumped, the bearings, rotors and gears shall be of such design that the pumps will operate for short periods when pumping fluids of non-lubricating character. Alemite fittings, type A-336 or equal, shall be provided for all pump bearings requiring lubrication. The pumps are to be provided with oil troughs. The motors for item 1 will be two-speed, full and one-half. Motors, controls and electrical spares will be furnished by the shipbuilder. The motors will be shipped to the pump manufacturers plant for assembly with the pumps. Pumps shall be tested hydrostatically to twice the working pressure. Connections for shipbuilders piping shall be suitable for withstanding loads imposed on them due to normal expansion and contraction of the piping attached thereto in accordance with good marine practice. After completion of shop tests at the Vendor's plant any packing liable to cause corrosion by remaining in place during shipping or storage of the equipment is to be removed, stowed separately, and carefully marked so as to assist in its reinstallation. Rods or shafts, in way of packing, are to be protected properly from corrosion during shipment or storage of the equipment. The above pumps must meet all applicable requirements of Appendix B.	

SHEET NO. 3

DISTRIBUTION COPY

PURCHASE ORDER NO.

H-573-635A-7

EXX-MOR-002495

NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY
PUMPS: FUEL OIL SERVICE, LUBRICATING
OIL SERVICE AND DIESEL OIL TRANSFER,
MOTOR DRIVEN, ROTARY, (MECHANICAL
PORTIONS) -

PURCHASE ORDER NO.

H-573-635A-7

DISTRIBUTION COPY

FORM PA-POD-2 (3322102)

ITEM	QUANTITY	DESCRIPTION	RECORDS
		Each pump must be substantially tagged or clearly marked for identification with the item and purchase order number thereof. <u>Applicable Appendices</u> A-573 B-573 Rev. A, dated June 26, 1963 Vendors sketch giving preliminary information, with sufficient data to design foundation, is required in Newport News on or before 8-12-63. Vendors plans for approval are required in Newport News on or before 8-19-63. Manufacturing Authorization: Release to manufacture is withheld pending approval of vendor's drawings. Any work done prior to approval of the drawings and authorization to proceed with work, except by specific written instructions from this Company, will be at the vendor's own risk. Release to manufacture will be given by a letter. Option: In the event the Owners, by February 15, 1964, contract with the Purchaser for the construction of a tanker essentially duplicating that for which the equipment specified herein is to be used, the Vendor agrees to furnish to the Purchaser equipment duplicating that specified herein at a price of: In the event the Owners, within eighteen months, contract with the Purchaser for the construction of a third and/or fourth vessel of the same design, the Vendor agrees to furnish to the purchaser a third and/or fourth set of equipment duplicating that specified herein at the price of the second shipset of equipment escalated in accordance with The Bureau of Labor Statistics Index for Metal and Metal Products, but not to exceed 10%.	

SHEET NO. 4

DISTRIBUTION COPY

PURCHASE ORDER NO.

H-573-635A-7

EXX-MOR-002496

NEWPORT NEWS SHIPBUILDING AND DRY DOCK COMPANY

PUMPS: FULL OIL SERVICE, LUBRICATING
OIL SERVICE AND DIESEL OIL TRANSFER,
MOTOR DRIVE, ROTARY. (MECHANICAL
PORTIONS)

PURCHASE ORDER NO.

DISTRIBUTION COPY
FORM PA-POD-2 (3322102)

H-573-635A-7

ITEM	QUANTITY	DESCRIPTION	RECORDS
		Total Price Less 10% =	
WJH-HMP-B FBB+ ACW JTT ESP HJC		<u>FOR NEWPORT NEWS INFORMATION ONLY:</u> Schd. Req'd. Date 5-25-64 Wanted 5-25-64 This order should have been placed by 7-8-63 in order to meet the "required in yard" date, when using average lead time. Est. item 4 = 	
7/23 8/26			

SHEET NO.
DISTRIBUTION COPY

PURCHASE ORDER NO.
H-573-635A-7