Billing Statement Cust No. NN Item Sub Div Auth Doc Task Description	79-7					
	<u>Price</u>					
"PORT AND STARBOARD MAIN CONDENSER REPAIRS" continued	,					
Starboard Condenser Furnish labor and material to replace thirty-three (33) stays on inboard side of condenser. Cle outboard bottom plates inside condenser. Remove loose belzona. Clean and reweld between o outboard vertical wall along entire length. Coat new stays with belzona, coat bottom repairs w	utooara vottom piate ana					
611.03.01 67A 3500 S004 STARBOARD AND PORT MAIN CONDENSERS	\$0					
Furnish labor and material to repair and calibrate both the starboard and port main condenser jacks (4 each condenser). Remove, clean, repair and calibrate jacks.						
611.03.01 67A-1 3500 S009 STARBOARD AND PORT MAIN CONDENSER	\$0					
Cancel Item 67A-1.						
641.01 68A 3600 S000 BOILER SUPERVISION	\$27,000					
Furnish the services of Mr. Satow to check and adjust the boilers and burner controls. Work to vessel's stay in yard and while in operation at sea, total of fourteen (14) days.	be carried out during					
641.01 68A-1 3600 S013 BOILER SUPERVISION	\$29,700					
Furnish the services of Mr. Satow thirty-three (33) days in lieu of fourteen (14) days.						
641.02 68B 3600 S000 INSPECTION OF MAIN BOILER NO. 21	\$5,500					
A. Furnish labor and equipment to carry out the following: Front, back and side casing doors to be opened. Condition of boiler on fire side to be examine	ed prior to decision on					
cleaning procedure. Cleaning, if required, to be done on time and material basis.	. • •					
After all work on boiler is completed, all doors to be reinstalled with new rope or tape gasket t	naterial.					
B. Brickwork in furnace of boiler to be inspected and repairs agreed upon as found necessary basis).	(work on time and material					
C. Yard to open up manhole covers on waterside and arrange light and ventilation and also attend survey of boiler together with owners representatives, Class surveyor and Governmental representatives during the inspection.						
Repairs considered necessary to be specified and separate price agree upon.						
641.02 68B-1 3600 S004 INSPECTION OF MAIN BOILER NO. 21	(\$5,500)					
Cancel Item 68B.						
641.04 68C 3600 S000 INSPECTION OF MAIN BOILER NO. 22	\$5,500					
A. Furnish labor and equipment to carry out the following:						
Front, back, and side casing doors to be opened. Condition of boilers on fire side to be examing cleaning procedure. Cleaning, if required, to be done on time and material.	ned prior to decision on					
After all work on boiler completed, all doors to be reinstalled with new rope or tape gasket me	terial.					

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Newport News Shipbuilding ~ Ship Repair Operations

Job Order: 1166E

Date 10/7/93 Billing Statement Price Task Description Auth Doc NN Item Sub Div Cust No. "INSPECTION OF MAIN BOILER NO. 22" continued B. Brickwork in furnace of boiler to be inspected and repairs agreed upon as found necessary. C. Yard to open up manhole covers on waterside and to arrange light and ventilation and also to attend survey of boiler together with owners representatives and class surveyor. (\$5,500)**INSPECTION OF MAIN BOILER NO. 22** S004 68C-1 3600 641.04 Cancel Item 68C. \$5,500 INSPECTION OF MAIN BOILER NO. 23 S000 68D 3600 641.07 A. Front, back and side casing doors to be opened. Condition of boiler on fire side to be examined prior to decision on cleaning procedure. Cleaning if required to be done on time and material. After all work on boiler completed, all doors to be reinstalled with new rope or tape gasket material. B. Brickwork in furnace of boiler to be inspected and repairs agreed upon as found necessary. (Work on time and material). C. Yard to open up manhole covers on waterside and to arrange light and ventilation and also to attend survey of boiler together with Owners representatives, class surveyor and governmental representatives during the inspection. Repairs considered necessary to be specified and separate price agreed upon. (\$5,500)INSPECTION OF MAIN BOILER NO. 23 3600 SOOA 641.07 68D-1 Cancel Item 68D. \$5,500 S000 **INSPECTION MAIN BOILER NO. 24** 3600 641.10 A. Front, back and side casing doors to be opened. Condition of boilers on fire side to be examined prior to decision on cleaning procedure. Cleaning if required, to be done on time and material. After all work on boiler completed, all doors to be reinstalled with new rope or tape gasket material. B. Brick work in furnace of boiler to be inspected and repairs agreed upon as found necessary. Yard to open up manhole covers on waterside and to arrange light and ventilation and also to attend survey of boiler together with owners representatives and class surveyor. D. Hairline fractures in steam drum and water drum to be repaired as recommended by Deutsche Babcock and approved by Classification Society and as previous carried out on Boiler No. 24. (\$5,500)S004 INSPECTION OF MAIN BOILER NO. 24. 3600 641.10 68E-1 Cancel Item 68E. VIBRATION DAMPERS BOILER FAN \$23,500 S000 3610 641.14 69 Furnish labor and material to replace total 112 vibration dampers, (Owners supply), on the eight (8) boiler fan. Cabling and discharge flange to be disconnected. Frame to be lifted approx. 5 inches in order to replace the new dampers.

Billing Statement

Job Order: 1166E Date 10/7/93

	Cust No.	NN Item	Sub Div	Auth Doc	Task Description	Price
					OVHL OF SHUT OFF VALVES ON	510,100
	641.03	70A	3620	S000		410,100
	1				BOILER NO. 21	

Furnish labor and equipment to carry out the following:

Boiler shut off valves as follows to be overhauled:

- a. 2 stop valves for level control transmitter, ND 12mm
- b. Stop valves for surface and bottom blowing:
 - 1 Surface blowing
 - 1 Drum bottom blowing

All valves ND 15mm

- 1 Header bottom blowing
- c. Venting valves:

3 on boiler drum ND 12mm

- 1 on pipe to primary superheater ND 12mm
- 1 on pipe from secondary superheater ND 12mm
- d. 3 superheater header drain valves
- e. I drain valve from desuperheated steam line upstream of B051 valve, ND 25mm
- f. 2 drain valves from internal desuperheater ND 25mm
- g. 3 dumping valves 1-69 from economizers ND 25mm
- h. 3 air vent valves I-68 from economizers ND 25mm
- i. Nonreturn valve in boiler starting line B-80 ND 25mm
- j. 1 gate valve in boiler starting line B-80 ND 25mm
- k. 1 command air vent valve B-80 ND 25mm
- 1. I starting valve on modified boiler starting line
- m. 2 stop valves for steam to soot blowers ND 40mm
- n. 6 drain valves on impulse line to water level transmitters ND 10mm
- 2 stop valves for water injection to primary superheater
- p. 1 nonreturn valve I-62 ND 100mm
- q. 1 manometer valve, 2 closing valves to be overhauled.
- r. 1 isolating valve downstream of safety valve on boiler drum

Newport News Shipbuilding ~ Ship Repair Operations

Job Order: 1166E S/S NORWAY - Kloster Cruise Limited Date 10/7/93 Billing Statement Price Task Description **Auth Doc** Cust No. NN Item Sub Div \$12,990 **BOILER SHUT OFF VALVES** 70A-1 3440 S002 641.03 S). Furnish labor and material to open, inspect internally, overhaul, checked and calibrate the Cockburn A, B, C automatic rapid closure valve (A-41). Remote and local operation to be verified in good order after overhaul. Note: Do not charge work on this valve to Sub-division 3620. OVHL OF SHUT OFF VALVES ON \$2,750 S006 70A-2 3620 641.03.01 **BOILER NO. 21** Furnish labor and material to overhaul seven (7) additional drain valves. See X62 W. Hayes for location. \$920 INSULATION PER REMOVAL S007 756.04.01 70A-3 3620 Furnish labor and material to remove pads and insulation on pipe in Aft engine room center in way of rigging in and out steam valves. See X62 Wilson Hayes for location. \$8,280 OVERHAUL SHUT OFF VALVES S012 3620 641.03 70A-4 **BOILER NO. 21** Furnish labor and material for AALBORG CISERV to accomplish additional repairs per inspection reports. OVHL OF SHUT OFF VALVES ON \$10,100 S000 70B 3620 641.05 **BOILER NO. 22** Furnish labor and equipment to carry out the following: Boiler shut off valves as follows to be overhauled: 2 @ stop valves for level control transmitter ND 12mm b. Stop valves for level control transmitter ND 12mm 1 @ surface blowing All valves ND 15mm 1 @ drum bottom blowing 1 @ header bottom blowing c. Venting valves: 3 @ on boiler drum ND 12mm 1 @ on pipe to primary superheater ND 12mm 1 @ on pipe from secondary superheater ND 12mm 3 @ superheater header drain valves 1 @ drain valve from desuperheated steam line upstream of B051 valve, ND 25mm 2 @ drain valves from internal desuperheater ND 25mm 3 @ dumping valve I-69 from economizers ND 25mm 3 @ air vent valves I-68 from economizers ND 25mm 1 @ nonreturn valve in boiler starting line B-80 ND 25 @ gate in boiler starting line B-80 ND 25mm **CERTIFIED TO BE A TRUE COPY**

Page 44

k. 1 @ common air vent valve B-80 ND 25mm

Newport News Shipbuilding ~ Ship Repair Operations

Billing Statement

Job Order: 1166E

Date 10/7/93

Auth Doc Task Description Sub Div Cust No. NN Item "OVHL OF SHUT OFF VALVES ON BOILER NO. 22" continued Price

1 @ starting valve on modified boiler starting line

m. 2 @ stop valves for steam to soot blowers ND 40mm

n. 6 @ drain valves on impulse line to water level transmitters ND 10mm

o. 2 @ stop valves for water injection to primary superheater

p. 1 @ nonreturn valve I-62 ND 100mm

q. 1 @ manometer valve, 2 @ closing valves to be overhauled

1 @ isolating valve downstream of safety valve on boiler drum

1 @ main stop valves #A-42 ND 200mm to be overhauled in place.

BOILER SHUT OFF VALVES 3440 S002 70B-1 641.05

\$12,990

S). Furnish labor and material to open, inspect internally, overhaul, checked and calibrate the Cockburn A, B, C automatic rapid closure valve (A-41). Remote and local operation to be verified in good order after overhaul. NOTE: Do not charge work on this valve to Sub-Division 3620.

641.05.01

70B-2

3620

S006

S012

OVHL OF SHUT OFF VALVES ON

\$2,750

BOILER NO. 22

Furnish labor and material to overhaul seven (7) additional drain valves. See X62 W. Hayes for location.

641.05

70B-3

3620

OVERHAUL SHUT OFF VALVES -

\$15,950

BOILER NO. 22

Furnish labor and material for AALBORG CISERV to accomplish additional repairs per inspection reports.

641.08

70C

3620

S000

OVHL OF SHUT OFF VALVES ON **BOILER NO. 23**

\$10,100

Boiler shut off valves as follows to be overhauled:

a. 2 @ stop valves for level control transmitter ND 12mm

b. Stop valves for surface and bottom blowing:

1 @ surface blowing

1 @ drum bottom blowing all valves ND 15mm

1 @ header bottom blowing

c. Venting valves:

3 @ on boiler drum ND 12mm

1 @ on pipe to primary superheater ND 12mm

1 @ on pipe from secondary superheater ND 12mm

d. 3 @ superheater header drain valves

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4057, LTJG USCG

e. 1 @ drain valve from desuperheater steam line upstream of B051 valve, ND 25mm

Job Order: 1166E S/S NORWAY - Kloster Cruise Limited Date 10/7/93 Billing Statement Price Task Description Auth Doc Sub Div Cust No. NN Item "OVHL OF SHUT OFF VALVES ON BOILER NO. 23" continued f. 2 @ drain valves from internal desuperheater ND 25mm g. 3 @ dumping valve I-69 from economizers ND 25mm h. 3 @ air vent valves I-68 from economizers ND 25mm 1 @ nonreturn valve in boiler starting line B-80 ND 25mm 1 @ gate valve in boiler starting line B-80 ND 25mm 1 @ common air vent valve B-80 ND 25mm 1 @ starting valve on modified boiler starting line m. 2 @ sop valves for steam to soot blowers ND 40mm 6 @ drain valves on impulse line to water level transmitters ND 10mm 2 @ stop valves from water injection to primary superheater p. 1@ nonreturn valve I-62 ND 100mm 1 @ manomter valve, 2 @ closing valves to be overhauled 1 @ isolating valve downstream of safety valve on boiler drum 1 @ main stop valves #A-42 ND 200mm to be overhauled in place \$12,990 S002 BOILER SHUT OFF VALVES 3440 70C-1 641.08 S). Furnish labor and material to open, inspect internally, overhaul, checked and calibrate the Cockburn A, B, C automatic rapid closure valve (A-41). Remote and local operation to be verified in good order after overhaul. Note: Do not charge work on this valve to Sub-division 3620. \$2,750 OVHL OF SHUT OFF VALVES ON S006 3620 70C-2 641.08.01 **BOILER NO. 23** Furnish labor and material to overhaul seven (7) additional drain valves. See X62 W. Hayes for location. \$6,150 OVERHAUL SHUT OFF VALVES -S012 70C-3 3620 641.08 **BOILER NO. 23** Furnish labor and material for AALBORG CISERV to accomplish additional repairs per inspection reports. \$10,100 OVHL OF SAFETY VALVES ON S000 70D 3620 641.11 **BOILER NO. 24** Furnish labor and equipment to overhaul the following valves: a. 2 stop valves for surface and bottom blowing: 1 surface blowing All valves ND 15mm 1 drum bottom blowing

Newport News Shipbuilding ~ Ship Repair Operations

b. Stop valves for surface and bottom blowing:

1 header bottom blowing

Billing Statement

Job Order: 1166E

Date 10/7/93

NN Item

Task Description Auth Doc Sub Div

Price

Cust No. "OVHL OF SAFETY VALVES ON BOILER NO. 24" continued

1 surface blowing

1 drum bottom blowing

All valves ND 15mm

1 header bottom blowing

Venting valves:

3 on boiler drum ND 12mm

1 on pipe for primary superheater ND 12mm

1 on pipe from secondary superheater ND 12mm

- 3 superheater header drain valve
- 1 drain valve from desuperheated steam line upstream of B051 valve, ND 25mm
- 2 drain valves from internal desuperheater ND 25mm
- 3 dumping valve I-69 from economizers ND 25mm
- 3 air vent valves I-68 from economizers ND 25mm
- I nonreturn valve in boiler starting line B-80 ND 25mm
- 1 @ gate valve in boiler starting line B-80 ND 25mm
- 1 @ common air vent valve B-80 ND 25 mm k.
- 1 @ starting valve on modified boiler starting line 1.
- 2 @ stop valve for steam to soot blower ND 40mm
- 6 @ drain valves on impulse line to water level transmitters ND 10mm
- 2 @ stop valves for water injection to primary superheater
- 1 @ nonreturn valve I-62 ND 100mm
- 1 @ manometer valve, 2 @ closing valves to be overhauled q.
- 1 @ isolating valve downstream of safety valve on boiler drum
- 1 @ main stop valves #A-42 ND 200mm to be overhauled in place. ŧ.

S002

641.11

70D-1

3440

BOILER SHUT OFF VALVES

\$12,990

S). Furnish labor and material to open, inspect internally, overhaul, checked and calibrate the Cockburn A, B, C automatic rapid closure valve (A-41). Remote and local operation to be verified in good order after overhaul. Note: Do not charge work on this valve to Sub-division 3620.

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Job Order: 1166E S/S NORWAY - Kloster Cruise Limited Date 10/7/93 Billing Statement Price Task Description Auth Doc Sub Div Cust No. NN Item \$2,750 OVHL OF SHUT OFF VALVES ON S006 70D-2 3620 641.11.01 **BOILER NO. 24** Furnish labor and material to overhaul seven (7) additional drain valves. See X62 W. Hayes for location. \$10,100 OVERHAUL SHUT OFF VALVES -S012 70D-3 3620 641.11 **BOILER NO. 24** Furnish labor and material for AALBORG CISERV to accomplish additional repairs per inspection reports. OVHL OF SAFETY VALVES ON \$2,100 S000 3630 641.06 71A **BOILER NO. 22** Furnish labor and equipment to carry out the following: The following safety valves to be overhauled: a. For saturated steam, two (2) Cocard Crosby valves, type HC65MS, set point 71.3 and 71.5 kg/cm2 respectively. Blow down to be 3-5%. b. For superheated steam, one (1) Forster Vapor Valve set at 66 kg/cm2. Also pilot valve and slave jack assembly to be thoroughly checked and adjusted. Blow down to be 3-5%. c.. Safety valve for Penhoet economizer type Cocard Crosby JO.55.A, set point 95 kg/cm2. Blow down to be approximately 5%. \$980 OVERHAUL OF SAFETY VALVES ON S004 3630 71A-1 641.06.01 **BOILER 22** Modify Item 71A to read two (2) safety valves in lieu of one (1). OVERHAUL OF SAFETY VALVES ON \$1,380 S008 3630 71A-2 641.LATE **BOILER 22** Furnish labor and material to manufacture twelve (12) pieces of 2 1/8" O.D. x 2" I.D. x 1/8" thick out of mild steel and heat treat. Rings are to be used as valve replacement for boiler safety valves. \$2,100 OVHL OF SAFETY VALVES ON S000 641.09 71B **BOILER NO. 23** The following safety valves to be overhauled: A. For saturated steam, two (2) Cocard Crosby valves, type HC 65 MS, set point 71.3 and 71.5 kg/cm2 respectively. Blow down to be 3.5%. B. For superheated steam, one (1) Forster Vapor Valve set at 66 kg/cm2. Also pilot valve and slave jack assembly to be thoroughly checked and adjusted. Blow down to be 3.5%. C. Safety valve for Penhoet economizer type Cocard Crosby J.O.55.A set point 95 kg/cm2. Blow down to be 3.5%. OVERHAUL OF SAFETY VALVES ON \$980 S004 3630 641.09.01 71B-1 **BOILER 23** Modify Item 71B to read two (2) safety valves in lieu of one (1). \$2,100 OVHL OF SAFETY VALVES FOR S000 71C 3630 641.12 **BOILER NO. 24** Furnish labor and equipment to carry out the following: A. For saturated steam two (2) Cocard Crosby valves type HC 65 MS, set point 71.3 and 71.5 kg/cm2 respectively. Blow

Newport News Shipbuilding - Ship Repair Operations

down to be 3.5%.

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Billing Statement

Job Order: 1166E Date 10/7/93

Task Description Auth Doc Sub Div Cust No. NN Item

Price

"OVHL OF SAFETY VALVES FOR BOILER NO. 24" continued

- B. For superheated steam, one (1) Forster Vapor Valve, set at 66 kg/cm2. Also pilot valve and slave jack assembly to be thoroughly checked and adjusted. Blow down to be 3.5%.
- C. Safety valve for Penhoet economizer type Cocard Crosby J.O.55.A, set point 95 kg/cm2. Blow down to be approximately 5%.

641.12.01

71C-1

3630

S004

OVERHAUL OF SAFETY VALVES ON

5980

BOILER 24

Modify Item 71C to read two (2) safety valves in lieu of one (1).

751.04

71D

3630

S000

OVHL OF SAFETY VALVES FOR

\$2,100

BOILER NO. 21

Furnish labor and equipment to release and bring to specialty shop the following safety valves for complete overhaul, testing and inspection:

- A. Two (2) Cocard Crosby valves, type HC65MS, to be set at 71.3 and 71.5 kg/cm2 respectively. Blow-down to be 3-5%. Valves are for saturated steam.
- B. One (1) Forster vapor valve to be set at 66 kg/cm2. Blow down to be 3-5%. Pilot valve and slave jack assembly to be thoroughly checked and adjusted.
- C. One (1) safety valve for penhoet economizer, type cocard Crosby JO. 55 A, with set point at 95 kg/cm2. Blow-down to be approx. 5%.

751.04.01

71D-1

3630

S004

S000

S000

OVERHAUL OF SAFETY VALVES ON

\$980

BOILER 21

Modify Item 71D to read two (2) safety valves in lieu of one (1).

641.13

3640

ISOLATING VALVE FOR BOILER FAN

\$4,600

Eight (8) isolating valves for boiler fan to be cleaned, freed up and lubricated on place. This is made possible by manhole covers in air duct and inspection covers over valve stem. Teleflex cabling for remote operation to be removed, and hand wheel to be mounted directly on valve stem. Ref. drwg. CHP 5.18.

757.01

73

3660

INSPECTION OF LOW PRESSURE STEAM GENERATOR

\$11,600

Furnish labor and equipment to release and remove two (2) manhole covers on the steam drum. When directed, covers to be reinstalled with new owner-furnished gaskets.

The following steam drum mountings to be overhauled as detailed in section A-general conditions, paragraphs A-30 and A-33.

- a) One (1) safety valve ND 80mm
- -b) One (1) stop valve ND 125mm
- c) Two 92) vent valves ND 25mm
- d) Two (2) pressure indicator valves ND 15mm
- e) One (1) valve for impulse ND 15mm
- Two (2) valves for level control ND 25mm
- g) Two (2) valves for sampling test ND 15mm
- h) Four (4) valves for blowdown ND 25mm
- One (1) drain valve ND 32mm
- Two (2) feedwater valves ND 50mm

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Billing Statement

Job Order: 1166E Date 10/7/93

Cust No. NN Item

Sub Div Auth Doc Task Description

Price

"INSPECTION OF LOW PRESSURE STEAM GENERATOR" continued

- k) Two (2) valves for drain cooler level ND 25mm
- 1) One 91) vent valve level contr. ND 15mm
- m) One (1) drain valve level contr. ND 15mm

After all repairs, steam generator to be hydrostatically tested on primary and secondary sides, including level control balloon and drain cooler, same to be witnessed by Lloyd's surveyor.

757.01.01

72_1

3660

S012

INSPECTION OF LOW PRESSURE

S11,540

STEAM GENERATOR

Furnish labor and material to remove head from L.P. steam generator condensate cooler. Ship to plug any leaking tubes found during hydro. After completion of Hydro; Reinstall head and relag.

554.04

74

3900

S000

CONTAINERS FOR TEMPORARY

\$5,600

STORING OF FROZEN &

Provide four (4) 40ft. containers for storing of perishable food as follows:

Two (2) containers for frozen food. Two (2) containers for refrigerated food.

All containers to be placed on the pier and as close to the crew gangway as possible. Temperatures in the containers to meet the standards of U.S. Public Health Service.

135.02

75

4020

S000

INSTALLATION OF HEAT LAMPS

\$8,800

Furnish labor and material to install, maintain and remove suitable heating lamps on electric motors for the various pieces of machinery listed below, a total of 157 lamps.

In forward boiler room:

One (1) bilge water pump No. 23

One (1) trimming pump

Two (2) transfer pumps No. 11-13

Seven (7) motors for Serck Evaporator

One (1) ash pump for incinerator

In after boiler room:

One (1) cooling pump for boiler fans

Two (2) fire pumps No. 22-24

Two (2) spiros compressors No. 1-2

Two (2) transfer pumps No. 21-23

Four (4) fuel oil pumps No. 21-23-25-27

One (1) bilge pump No. 22

One (1) ballast drain pump No. 22

One (1) trimming pump

One (1) general service pump No. 22

One (1) bilge ejector pump

In forward engine room:

One (1) spray water pump for evaporator

Two (2) purge recovery pumps No. 11-12

Two (2) brine pumps No. 11-13

One (1) fire pump No. 12

1

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