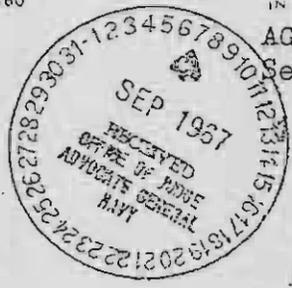




DEPARTMENT OF THE NAVY
 NAVAL SHIP SYSTEMS COMMAND
 WASHINGTON, D.C. 20360



IN REPLY REFER TO
 AGTR-5
 Ser 527-1450
 SEP 1967



From: Commander Naval Ship Systems Command
 To : Judge Advocate General

Subj: Claims Pertaining to USS LIBERTY-(AGTR-5)

Ref : (a) CNM ltr MAT 09C:ETK of 21 August 1967 w/encl.

- Encl: (1) COMSERVLANT memo of 29 August 1967
 (2) COMNAVSHIPYD NORVA ltr AGTR-5/4710 Ser 0196 of 29 August 1967
 (3) Copy of fixed price Contract No. N62678-67-C-0018
 (4) NAVSEC (Code 06R) memo Ser 06R-452 of 28 August 1967
 (5) CO, USS LIBERTY (AGTR-5) ltr AGTR-5/4010 Ser 433 of 30 August 1967
 (6) Sworn Statement of Mr. Paul T. Saari, NAVSHIPSYSOMHQ, Code 527

1. Reference (a) requested this Command to furnish the Judge Advocate General with cost estimates for the repair of damages inflicted upon USS LIBERTY by Israeli Air and Naval units on 8 June 1967.

2. The estimated cost of restoring USS LIBERTY and its equipment to the same condition prior to the attack on 8 June 1967 is \$5,424,202. The following is a breakdown of this estimate:

- | | |
|---|-----------|
| a. Actual Cost of Repairs Completed at Malta - enclosure (1). | 162,608 |
| b. Actual Cost of Norfolk Navy Shipyard Personnel Travel to Malta - enclosure (2). | 7,000 |
| c. Actual Cost of Oil Removal from Bulkheads and Overhead - enclosure (3). | 9,750 |
| d. Estimated Cost of Electronic Systems Restoration - enclosure (4). | 3,901,187 |
| e. Estimated Cost of Hull, Mechanical and Electrical Damage - enclosure (2). | 1,261,459 |
| f. Estimated Replacement Cost of Equipage, Allowance Items, Consumables, etc. - enclosure (5). | 141,656 |
| g. Estimated Cost of Labor Expended by LIBERTY Personnel in Excess of Normal Duties at a Rate of \$5.00 per hour. | 128,500 |

7 SEP 1967

App. E to Encl. (1) of JAG End JAG:131.1:DBB:as
 Ser: 00010 of

3. It is noted that the actual cost of restoring and repairing the LIBERTY and its equipment will probably be increased by an undetermined amount because of the following conditions:

- a. The Norfolk Navy Shipyard estimates (enclosure 2) are based on current labor and overhead rates which are continuing to escalate.
- b. The replacement costs (enclosure 4) of the electronic equipment destroyed by the attack are based on 1964 prices plus escalation. However, these models are no longer available and new equipment to provide the same capability is considerably more expensive.
- c. The cost to eliminate the rubbing of the shaft, indicated in enclosure (2), cannot be determined until tests and inspections are made.
- d. The Shipyard estimates (enclosure 2) for the repair of the ship's electrical system include the correction of only known damage at this time. The remaining tests to be conducted will probably uncover further damage.

4. This Command recommends that consideration be given to providing for a second payment to cover the above probable increases when the exact cost figures are known.



E. A. GRANTHAM
Deputy Commander for
Fleet Maintenance & Logistics

Copy to:
CHNAVMAT W/ENCL.
CNO (OP-04) W/ENCL.
CNO (OP-03) W/ENCL.
CNO (OP-94) W/ENCL.

Commander Service Force
U. S. Atlantic Fleet
Norfolk, Va. 23511

29 August 1967

MEMORADNUM FOR COMMANDER, NAVAL SHIP SYSTEMS COMMAND

Subj: USS LIBERTY (AGTR5) battle damage repairs; cost of

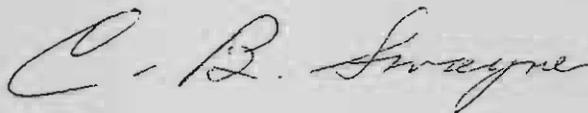
Encl: (1) Copy of Malta Drydocks invoice ser 3235 of July 1967

1. Enclosure (1) is a breakdown of the repairs accomplished by Malta Drydocks during the period 14 June 1967 to 14 July 1967 in order to make USS LIBERTY (AGTR5) seaworthy for transit to CONUS. Certain items in enclosure (1) are not associated with battle damage repairs as outlined below:

Invoice price	\$163,564.50
Less non-battle damage repairs exceptions	
Item 128	\$140.00
Item 505	532.00
Item 510	42.00
Item 512	32.00
Item 810	24.00
Item 811	10.00
Item 812	176.00
	<u>\$956.00</u>

Total cost of temporary battle damage repairs: \$162,608.50.

2. It is certified that the costs outlined in enclosure (1) are those actually paid and that the estimates for the "exception" items are reasonable and just.



C. B. SWAYNE
Ass't Chief of Staff
(Maintenance)

Enclosure (1) to NAVSHIPS
Ser 527-1450

ENCLOSURE (1)

<u>CATEGORY</u>	<u>ESTIMATED VALUE</u>
Storeroom Items - Repair Parts, etc.	\$37,560.00
Clothing, Bedding, etc.	
Protective Clothing	5,050.00
Bedding	2,542.00
Crews clothing	2,000.00
	<u>\$9,592.00</u>
Office Machinery, Supplies	
Typewriters, Adding Machines	
Safe, supplies, etc.	\$13,662.00
	<u>\$13,662.00</u>
Cleaning Gear	
Vacuum Cleaner	\$80.00
Swabs, brooms, etc.	76.00
	<u>\$156.00</u>
Damage Control and Lifesaving Gear	
Life Preservers	\$1,417.00
Rafts	\$27,360.00
Motor Whale Boat	10,000.00
Hoses	560.00
Phones and PA System	1,433.00
Repair party apparatus	1,180.00
Fire Extinguishers, etc.	1,575.00
OBA Cannisters	89.00
Lights	260.00
Shoring, wedges, etc.	500.00
Misc.	235.00
	<u>\$44,609.00</u>
Medical Equipment and Supplies	\$940.00
Navigational Gear:	
Binoculars	\$1650.00
Compasses, bearing circles, etc.	\$2053.00
Signal Flags	607.00
Signal Lights	300.00
	<u>\$4610.00</u>
Weapons:	
.50 Cal. Machine Guns	\$16,000.00
Small Arms	233.00
	<u>\$16,233.00</u>
Fuel and Oil	\$3,115.00
Misc.	
Lines	\$6,140.00
Vehicle	1,300.00
Special Services Equipment	2,051.00
Still Picture Proj.	365.00
Multimeter	118.00
Point	780.00
Mess Utensils	75.00
Carpenter Shop Equipment	350.00
	<u>\$11,179.00</u>

ENCLOSURE (1)

ENCLOSURE (1)

Grand total of Ship's allowance material lost
and/or damaged beyond repair as a result of
Israeli attack on LIBERTY 8 June 1967

\$141,656.00*

*Above total estimates do not include portable electronics test equipment
which will be included in the listing of electronics equipment destroyed
to be submitted separately.

Manhours expended in debris removal, fire and security watches, and resto-
ration of habitability of ship in excess of that normally required to main-
tain health and cleanliness standards:

25,000 man/hrs.

Inventorying, packing, and shipping
of personal effects:

500 man/hrs

Restowage of Storerooms:

200 man/hrs

700 total man/hrs

Total man hours expended:

25,700 man/hrs

The undersigned solemnly swears that to the best of his knowledge and belief the individuals who prepared the detailed estimates enclosed herewith are recognized and regularly employed as experts in the field of naval repair, construction, and planning.

Paul T. Saari

PAUL T. SAARI
Naval Architect
Naval Ship Systems Command
Code 527

Subscribed and sworn to before me this thirty first day of August, 1967.

Ira W. Blair

IRA W. BLAIR
Commander U.S. Navy
Director of Auxiliary Ships Maintenance

My commission expires at the pleasure
of the President of the United States

Enclosure (6) to NAVSHIPS
Ser 527- 1450

*MSY above
16004/62*

July 1967

TO CAPTAIN, OWNERS AND ALL CONCERNED IN:-

G. G. G. KENNEDY

Dr. to
MALTA DRYDOCKS

(BAILEY (MALTA) LIMITED)

Registered Office:

THE DOCKS, MALTA G.C.

MANAGING AGENTS:

SWAN, HUNTER & WIGHAM RICHARDSON LTD.

Repairs commenced 24. 6. 67
Repairs completed 24. 7. 67

DESCRIPTION

Vessel docked, unmoored and including
1st day dues.

1357

Vessel docked 24. 6. 67
Vessel unmoored 24. 7. 67

G.S.S. 6,150

Thirty (30) subsequent day drydock
dues.

The following work was carried out
as directed:-

120 121 122

120

Manufactured and supplied navy type 214
bags and tarpaulin. (165 214 bags and 60' x 30'
tarpaulin).

2970

121

To weld approx. 500 lb. steel shackles
average size 12" x 22" x 3/16"

1200

122

To power approx. 120 feet guard rail wire.

631

123

Power approx. 24 to 30 lbs. silica certified
glass average size 15" diam. x 3/8"

671

47

1000

2

ENCLOSURE (2)

U.S.S. LIBERTY

104

104

Repair approx. 12 in No. 4/3 doors and
chalk test on completion.

1002

105

Renew approx. 6 in No. 4/3 doors complete
with frames.

1005

106

Renew approx. 12 in No. mesh wire
gratings.

207

107

To clean, wirebrush, apply one (1)
coat under coat approx. 500 sq. yds
damaged paint work (superstructure). Final
coat to be applied to entire topsides
including decks and mast (paint M.D.D. supply).

9075

108

To crop 4 in No. miscellaneous storages
damaged beyond repairs.

02

109

Manufacture 6 in No. galv. cr H/S
boxes without lid, but with 2 handles 15" x 18"
x 33" high.
4 in No. 4" holes to be drilled in bottom.

071

110

Remove all traces of oil from shipside
and clean internally in way of damage, removing
all swidings, also hose down No. 2 deck.

1857

Supply Services of T.O.V. Barisoy. To
remove Oil/Water from following Tanks. Clean
internally and gas free.

- 5 - 52 - 2 - F
- 5 - 52 - 0 - F
- 5 - 52 - 1 - F
- 5 - 57 - 2 - F
- 5 - 59 - 1 - Q
- 5 - 57 - 0 - F
- 5 - 57 - 1 - F

15371

111

To manufacture and fit 1 in No. inflatable
liferaft storage complete with quick-release
gear, approx. size 5' x 5'.

040

112

Supply the following to the Engineer officer:-

- 5 Doz. pairs overalls.
- 3 Doz. pairs gloves.
- 3 Doz. pairs sea boots.

2659

113. 305 M.

113

Supply the Services of Six No. covered
lorries (with drivers) at U.S.S. disposal
as required.

1870

114

Supply lifeboat stbd side aft., holes in
10 in plates. Fibre glass patching to be
carried out in situ and lifeboat water
tested on completion.

234

115

To supply 1 in Bl. 50 gall. drum of
diesel oil and 1 drum 50 galls high octane
gasoline and 4 in No. jerrycans filled
with 2 gallons of gasoline each.

45

116

Main derrick part aft, purchase wire to
be resecured.

54

117

PHOTOGRAPHING DAMAGE STBD. SIDE 50 - 74 STATIONS

(a) Take four (4) shots at different angle
and supply 10 in No. of each, large sizes prints.

(b) Take shots as instructed during various
stages of repair and supply 4 in No. of each,
large sizes prints.

(c) Supply 2 in No. colour films (20 exposures).

534

SMALL REPAIRS

(1) 1st Deck:-

Deck part removed bet. 57 - 63	22' x 13' x 3/8"
2 in No. deck beams removed.	9" x 4" x 1/2"
x 10' angle each.	
Insert fitted on deck	24" x 24" x 3/8"
Insert fitted on deck	36" x 36" x 3/8"
Lower part of 3 in No. divisional bilhd burned for access to deck plating.	2' x 25'
Deep girder part removed (stbd)	10' x 3/4" x 24"
Deep girder part removed (face plate)	10' x 1 1/2" x 19"

2nd Deck:-

No. 52 Transverse bilhd. part removed.	36' x 87' x 1 1/8"
No. 52 Transverse bilhd. insert fitted.	24" x 24" x 3/8"
11 in No. angle stiffeners on bilhd removed	40 x 6" x 1/2" x 10'
5 in No. brackets on stiffeners to deck removed.	15" x 12" x 3/8"
Deck part removed bet. 52 - 63	36' x 22' x 3/8"

ENCLOSURE (2)

U.S.S. LIBERTY

8 in No. Deck beams removed. $9'' \times 4'' \times \frac{1}{2}''$
 $\times 19'$ angle each.

Deep girder part removed
 (stbd) $16'' \times 26'' \times \frac{3}{8}''$

Deep Girder part removed fore
 plating $14'' \times 19'' \times \frac{1}{2}''$

Deep beam on No. 53 frame removed. $23'' \times 25'' \times \frac{3}{4}''$

Face plate $16'' \times 19'' \times \frac{1}{2}''$

8 in No. webs on beam and Girder $24'' \times 18'' \times \frac{1}{2}''$

5 in No. girders removed bet
 52 - 58 $9'' \times 4'' \times \frac{1}{2}'' \times 19'$
 angle each.

Deck faired bet. 52-58 (Centre
 line) $23'' \times 19'$ steel.

Insert fitted on deck bet 58-60 $6'' \times 13'' \times \frac{3}{8}''$

Insert fitted on deck bet 55 - 57 $18'' \times 10'' \times \frac{3}{8}''$

No. 60 Transverse bilge removed $62'' \times 19'' \times \frac{1}{4}''$

18 in No. T bars on same removed $5'' \times 6'' \times \frac{1}{8}''$
 $\times 19'$ each.

Centre line pillar removed 2 bar
 in No. $16'' \times 8'' \times \frac{1}{2}''$
 $12'' \times 8'' \times \frac{3}{4}''$
 1 in No.

2 in No. longl. bilge burned off
 No. 60 transverse bilge. $19'' \times 20''$ each.
 $19'' \times 19''$

(b) LOWER DECK

Longl. bilge on stbd side removed bet 52 - 60
 $24'' \times 5'' \times 14'' \times \frac{1}{4}''$

Centre line bilge removed bet 52 - 60
 $24\frac{1}{2}'' \times 14'' \times \frac{1}{8}''$

Longl. bilge part side part
 removed bet 52 - 60 $24\frac{1}{2}'' \times 8'' \times \frac{3}{8}''$

No. 60 transverse bilge part
 removed. $56'' \times 14'' \times \frac{1}{8}''$

6 in No. T bars on Centre line
 bilge. $5\frac{1}{2}'' \times 8\frac{1}{2}'' \times 14''$ (each)

7 in No. 2 bars on longl bilge
 stbd $5\frac{1}{2}'' \times 6\frac{1}{2}'' \times 14''$ (")
 $5\frac{1}{2}'' \times 6\frac{1}{2}'' \times 14''$ (")

12 in No. T bars on No. 60 bilge $5\frac{1}{2}'' \times 11'' \times 12''$

3 in No. channel bars on 52 bilge $3'' \times 3\frac{1}{2}'' \times 12''$
 $\times 5\frac{1}{2}'' \times 14''$
 $4'' \times 6'' \times 9'' \times 14''$

1 in No. angle on No. 52 bilge $42'' \times 26'' \times \frac{3}{8}''$

Insert fitted on No. 60 bilge

2 in No. T bars on 60 bilge part
 removed. $6'' \times 10'' \times \frac{3}{8}''$
 $\times 4'$ (each).

3 in No. brackets on 60 bilge to deck $23'' \times 11'' \times \frac{3}{8}''$
 $5''$ flg. (each)

Tank top part removed 1st strake
 (stbd) $14'' \times 30'' \times \frac{1}{2}''$

Tankpart part removed 2nd & 3rd
 strakes) stbd) $11'' \times 25'' \times \frac{3}{8}''$

Margin plate bet. 53 - 61 removed $30'' \times 36'' \times \frac{1}{2}''$

Insert fitted on tank topbet 53 -
 59 $44'' \times 24'' \times \frac{1}{2}''$

59 - 60 $15'' \times 33'' \times \frac{3}{8}''$

60 - 61 $87'' \times 36'' \times \frac{3}{8}''$

No. 53 floor part removed $60'' \times 48'' \times \frac{1}{2}''$

No. 57 - 59 - 60 & 61 floors
 removed faired refitted. $60'' \times 48'' \times \frac{1}{2}''$ each

ENCLOSURE (2)

Job No	Description	B/R	140518	50
126	Four (4) mast wires to be renewed.			
127	Consequence of Item 116 (Damage repairs) New shell plating to be painted externally i.e. 4 coats anti-corrosive paints (alternate colour) and 1 coat antifouling.		1576	
128	2 in dia. water inlet gaskets, 2 in No. securing lugs and bolts to be fitted.		140	
129	To fit a welded doubler 15" x 6" x 1/2" (in connection with Job No. 125)		100	
500	Renew approx 80ft miscellaneous upper deck piping.		23	
501	In way of funnel damage, fit approx 24 in No. welded doublers, average size 12" x 12" x 1/16"			
502	Supply on land the following to the Engineer Officer: 2 in No. calvege pumps 4 in No. air extractor fans.		650	
503	To remove from deck bottom approx 20 tons of miscellaneous scum.		170	
504	<i>OK</i> <i>Revised during action</i> To shop overhaul and test on completion 1 in No. steam fire/flashing manifold pump.		2576	
505	To cut hoysays in 1 1/2" dia shaft.		532	
506	The following work to be carried out in connection with damage repairs (Item 116) as indicated by Mr. Lardison.		10	
506	Diesel oil supply and return for diesel generator.		60	
507	Salt water discharge from diesel generator.		530	
508	Air escape and sounding tubes to fuel tanks.		85	
509	35 lbs steam supply and drains.		1226	
510	Feed pump shaft coupling to be machined as instructed.		42	
		c/r	143755	50

ENCLOSURE (

- 511 Forecastle Deck
Exhaust pipe to aux. Comstar to be relogged.
 - 512 To manufacture 1 in No. gear wheel as per pattern
 - 515 (60) C.C.2 bottles to be externally cleaned or oil and recharged
 - 503 Overhaul ^{two} in No. gyro repeaters.
 - 504 Overhaul and fix emergency steering binoculars.
 - 505 Gyro compass to have cartomiles renewed.
 - 506 To shop overhaul and test on completion 1 in No. emergency fire pump motor.
 - 507 Salt water circ. pump motor to be shop overhauled.
- The following work to be carried out in connection with damage repairs (Item 118) as indicated by Mr. Hardison.
- 508 Cable glands in W/T structure to be made good.
 - 509 Electric lighting to be installed.
 - 510 To manufacture 2 in No. coils as per pattern (for U.S.S. Chinshia)
 - 511 To rewind 1 in No. solenoid coil as per pattern (for U.S.S. Chinshia).
 - 512 Vent fan motor to be shop overhauled.

SERVICES RENDERED

- Hire of tugs provided for docking, undocking and departure of vessel.
- Services of firewatchmen provided on board vessel for duration of repairs.
- Service of qualified chemist provided certifying vessel free from gas. Tests carried out and certificates issued during repairs.
- Cables laid, connected up to vessel, and shore electric power supplied during repairs. Cables disconnected and removed on completion. 48621 EMI @ \$0.06 per unit.

50
32
50
75
20
46
775
319
78
1516
24
19
175
311
263
463
2917

NO ✓
NO ✓
NO ✓

U.S.S. LIBERTY

Temporary electric lighting installed and service maintained during repairs. Cables disconnected and removed on completion.

850

Shore telephone installed on board for ships use. Service maintained during repairs, disconnected and removed prior to vessels departure.

84

Hoses laid, connected up to vessel and firemain water supplied. Service maintained during repairs, disconnected and removed on completion.

853

Hoses rigged and coupled up. Circulating cooling water supplied to refrigeration machinery. Hoses uncoupled and removed on completion.

809

One thousand six hundred (1600) tons of fresh water supplied to vessel.

950

Shore steam supplied to vessel for duration of repairs.

376

Garbage removed and disposed of daily.

800

157050 50

H.B. THIS ACCOUNT IS EXPRESSED IN AID IS PAYABLE IN DOLLARS

ENCLOSURE (2)



EC

DEPARTMENT OF THE NAVY

NORFOLK NAVAL SHIPYARD

PORTSMOUTH, VIRGINIA 23709

In reply refer to
AGTR5/4710(214)
Ser: 0196

29 AUG 1967

CONFIDENTIAL

From: Commander, Norfolk Naval Shipyard
To: Commander, Naval Ship Systems Command

Subj: Cost Estimate to restore, USS LIBERTY (AGTR-5) to original configuration

Ref: (a) Your 241520Z Aug 67

Encl: (1) Certification of estimator's ability
(2) Certification by Estimators

1. As requested by reference (a), estimates have been prepared for repair of all battle damages inflicted on the USS LIBERTY (AGTR-5) by aircraft and naval units.

2. A breakdown of the estimates is furnished in enclosure (2). Totals for specific areas are:

a. Structural	\$238,887
b. Electrical	\$525,731
c. Piping	\$93,620
d. Sheet metal	\$235,838
e. Machinery	\$50,108
f. Temporary Services and dry docking	\$117,275
g. Total	\$1,261,459

3. Above dollar figures are computed on the basis of current Norfolk Naval Shipyard labor and overhead rate of approximately \$60 per man day. Above machinery estimate includes only inspection and alignment check of shafting, reduction gears and turbines. Problems have been reported with rubbing of shaft after attack, but scope of repairs are unknown until above inspection is completed.

4. Estimates do not include costs of electronic equipment, antenna or allowance items, such as life boats, mattresses, blankets, pillows, etc. Also not included is cost of repairs made at Malta which are considered permanent repairs.

5. In addition to above estimates, five Norfolk Naval Shipyard personnel inspected the LIBERTY in Malta at a cost of \$7,000 which has been paid by the Type Commander.

J. A. SISSON
By Direction Enclosure (2) to NAYSHIPS
Ser 527-1450

1E

UNCLASSIFIED

JAG

NAVAL MESSAGE

FM CINCUSNAVEUR
R 201620Z JUN 67

TO USCINCEUR
CNC

UNCLASSIFIED

COURT OF INQUIRY USS LIBERTY (U)
A. USS LIBERTY 02028Z JUN 67
B. USS LIBERTY 02050Z JUN 67

1. AS A RESULT OF FOLLOW-UP ACTION...
DETERMINED THAT REVA AND B WERE...
LIBERTY TO NAVSECGRUPT 030000...
040359Z AND 050530Z RESPECTIVELY...
THAT EITHER MESSAGE WAS REPELLED INTO COMMAND...

3. THE TWO MESSAGES IN QUESTION ARE QUOTED...

QUOTE
P 032028Z JUN 67
FM USS LIBERTY
TO CINCUSNAVEUR
INFO JCS
CNO
CONFIDENTIAL
CINCLANT
CINCLANTFLT
DIRNSA
DIRNAVSECGRU
ASSTDIRNAVSECGRU
DIRNAVSECGRUALNT
COMSERVLANT
COMSERVRON EIGHT
USCIN
NFC
NSALEA
DIRNAVSECGRUEUR
COMSIXTHFLT
COMPAIRMED

61
61
61
61

61 ...ACT
SN OPA 00 09 33 06 92 94 990 00 0000 1P

App. A to Encl. (1) of JAG End JAG:1
DBB:as, Ser: 00010 of

NO.	PAGE	OF	PAGE	TIME OF REVISION
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UNCLASSIFIED

MESSAGE

03240039
NAVCOMSTA MOROCCO
CONFIDENTIAL
MSG PASS TO JRC
CONSULT PAGE 10 JRC
STARTER POSIT

1. 03240039 POSIT 37-10N1 004-08T
EASTERLY 15 KTS.

2. TRUSSOCK HYDRAULIC SYSTEM AGING BEYOND CAPACITY OF SHIP'S FORCE PARTS RECEIVED NEXT PORT OF CALL TRUSSOCK CARRIED SEPARATELY.

BT
BT UNQUOTE
QUOTE
R 040500Z JUN 67
FM USS LIBERTY
TO CINCUSNAVEUR
INFO JCS

CNC
CINCLANT
CINCLANFLT
DIRNSA
DIRNAVSECGRU
ASSTDIRNAVSECGRU
DIRNAVSECGRULANT
COMSERVLANT
COMSERVRON EIGHT
CSCINCEUR
AF010
NSAELR
DIRNAVSECGRUELR
COMSIXTHFLT
COMFAIRMED
CREF 60
CREF 64
NAVCOMSTA MOROCCO

BT
CONFIDENTIAL
MSG PASS TO JRC
CONSULT PAGE 10 JRC
STARTER POSIT

1. 03240039 POSIT 37-10N1 004-08T
EASTERLY 15 KTS.

CONTROL NO.	PAGE	OF	PAGE	FILE NO.
035084/1/20	2		3	

UNCLASSIFIED

UNCLASSIFIED

IN THE MESSAGE

BY
UNQUOTE

4. REQUEST A COPY OF THIS MESSAGE BE INCLUDED IN THE
OFFICIAL RECORD OF THE COURT OF INQUIRY AS
EXHIBIT 48.
CP-4

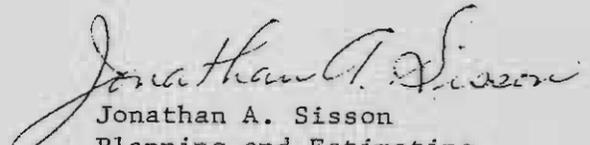
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C35084/17P0	5		5

CERTIFICATION OF ESTIMATORS' ABILITY

I certify that the below listed planners and estimators are qualified through experience to prepare estimates to accomplish work in their area of technical specialty:

Robert V Watkins	Structural
Kenneth E. Dice	Electrical
Bonnie L. Hardison	Piping
Jack S. Grimes	Sheetmetal
Frank Harrington	Machinery
Joseph M. Piland	Temporary Services


Jonathan A. Sisson
Planning and Estimating
Superintendent

Enclosure (1)

STRUCTURAL ESTIMATES

1. Structural repairs main deck and above including holes and dents in shell plating above water line.

Labor: 2788 mandays Matl: \$13,545 Total: \$179,487

2. Structural repairs below main deck in torpedo damage area.

Labor: 918 mandays Matl: \$4,760 Total: \$59,400

I certify that the above estimates have been prepared to the best of my ability and constitute reasonably accurate estimates to perform the stated tasks.

Robert V. Watkins

Robert V. Watkins

Enclosure (2) page 1

ELECTRICAL ESTIMATES

1. Replace cabling and equipment main deck and above with exception of cost of antennas and AN/SPS-10 equipment.

Labor: 1308 mandays Matl: \$21,480 Total: \$100,568

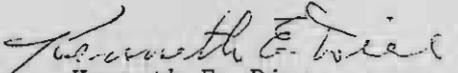
2. Install cable and electronics equipment in crypto 1 and 2 and research room number 1 not including hook up of electrical equipment in research room number 1.

Labor: 4380 mandays Matl: \$43,815 Total: \$301,170

3. Install power, lighting and I.C. equipment in crypto 1 and 2 and research room number 1.

Labor: 1,711 mandays Matl: \$20,733 Total: \$123,993

I certify that the above estimates have been prepared to the best of my ability and constitute reasonably accurate estimates to perform the stated tasks.


Kenneth E. Dice

PIPING ESTIMATE

1. Piping repairs main deck and above as a result of aircraft damage.
Labor: 487 mandays Matl: \$3,710 Total: \$34,012
2. Piping repairs below main deck as a result of torpedo damages.
Labor: 400 mandays Matl: \$5,335 Total: \$29,735
3. Repairs to air conditioning compressor topside.
Labor: 179 mandays Matl: \$3,275 Total: \$14,194
4. Repairs to smoke stacks as a result of aircraft damage.
Labor: 239 mandays Matl: \$1,100 Total: \$15,679

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform the stated tasks.

Bonnie L. Hardison

Bonnie L. Hardison

SHEFT METAL REPAIRS

1. Repairs to ventilation below main deck:

Labor 667 mandays Matl: \$8253 Total: \$49,098

2. Repairs to work benches, stowage bins and safe lockers below main deck:

Labor: 1426 mandays Matl: 13,353 Total: \$99,363

3. Repairs to furniture main deck and above:

Labor: 65 mandays Matl: \$1307 Total: \$5207

4. Repairs to bulkheads, metal joiner doors, secure doors, insulation land deck covering below main deck.

Labor: 695 mandays Matl: \$11,962 Total: \$54,037

5. Repairs to bulkheads, rugs, metal joiner doors, insulation, lockers and stowages; main deck and above.

Labor: 234 mandays Matl: \$5,480 Total: \$19,520

6. Repair ventilation main deck and above.

Labor: 134 mandays Matl: \$573 Total: \$8613

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform stated tasks.

Jack S. Grimes
Jack S. Grimes

MACHINERY REPAIRS

1. Removal and alignment of shafting (does not include access to remove shaft)

Labor: 438 mandays Matl: \$1050 Total: \$27,120

2. Inspect and repair propeller, outboard shaft bearing and rope guard.

Labor: 193 mandays Matl: \$570 Total: \$12,088

3. Take tape readings and reassemble main reduction gear, L.P. and H.P. sides (No repairs included in estimate).

Labor: 149 mandays Matl: \$125 Total: \$8,979

4. Check alignment H.P. and L.P. turbine couplings (no repairs included in estimate).

Labor: 30 mandays Matl: \$75 Total: \$1,921

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform the stated tasks.

Frank Harrington, Jr.
Frank Harrington

SERVICES

1. Temporary services (water, steam, electricity, telephone, fire alarm, etc)

Labor: 739 mandays Matl: \$25 Total: \$51,755

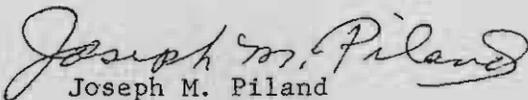
2. Removal of debris and crane operators

Labor: 900 mandays Matl: - Total: \$54,000

3. Dry Docking

Labor: 187 mandays Matl: \$300 Total: \$11,520

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform the stated tasks.


Joseph M. Piland

JCB ORDER (Master Contract for Repair and Alteration of Vessels)		PAGE NO. 1	NO. OF PAGES 1
JOB ORDER ISSUED UNDER CONTRACT NO. N62678-67-C-0018		REQUISITION NO./PURCHASE AUTHORITY ComServLant msg. 152043Z August 1967	
THIS JOB ORDER IS ISSUED PURSUANT TO 10 U.S.C. 2301 ET SEC. <input type="checkbox"/> BY ADVERTISING UNDER INVITATION NO. N62678-68-R-32 <input checked="" type="checkbox"/> BY NEGOTIATION UNDER 10 U.S.C. 2304(a) (2)		JOB ORDER NO. 60/68	
OFFICE TO MAKE PAYMENT (If other than that designated by contract)		DATE OF ORDER 19 August 1967	
ISSUED BY Supervisor of Shipbuilding, Conversion and Repair, USN Fifth Naval District P. O. Box 215 Portsmouth, Virginia 23705		VESSELS (Name or number) USS LIBERTY (AGTR-5)	
TO: (Contractor and Address) Norfolk Shipbuilding, & Drydock Corp. P. O. Box 2100 Norfolk, Virginia 23501		PER DIEM RATE OF LIQUIDATED DAMAGES. \$400.00 not to exceed XXXX 10% of Job Order price	
		AMOUNT \$ 9,750.00	
		COMPLETION DATE 5 September	
		COMMENCEMENT DATE 21 August 19	
		PLACE OF PERFORMANCE <input type="checkbox"/> CONTRACTOR'S PLANT <input checked="" type="checkbox"/> AS SPECIFIED BELOW OR IN SPECIFICATIONS OR SCHEDULE U. S. Naval Amphibious Base Little Creek Virginia	
		APPLICABLE SPECIFICATIONS AND/OR SCHEDULE Attached	

ACCOUNTING AND APPROPRIATION DATA

Appropriation & Subhd. **1781804.2460**
 Object Class **--**
 Bu. Cont. & Sub. Allot. **94143**
 Auth. Acctg. Activity **181**
 Transaction Type **2D**

Property Acctg. Activity **--**
 Cost Code **None 98015**
 Code **02-532P**

An order hereby placed with you under and pursuant to the provisions of the above numbered contract between you and THE UNITED STATES OF AMERICA to effect the repair, completion, alteration of, or additions to the above named (or numbered) vessel as described in the above numbered specifications and/or schedule. You shall perform the following items at the price or prices specified therefor:

Item 1

DO-A-3 has been assigned this Job Order.

Clause 45 applies to this Job Order.

CONFORMED COPY

If this job order is issued on a negotiated basis, the Contractor shall execute the following acceptance:

Accepted this 19 day of August 29 1967

Norfolk Shipbuilding & Drydock Corp.

CONTRACTOR

By [Signature]

SIGNATURE

Vice President

TYPED NAME AND TITLE

THE UNITED STATES OF AMERICA

By [Signature]

SIGNATURE

W. F. TALMAGE

TYPED NAME OF CONTRACTING OFFICER

DD FORM 731-1
1 NOV. 56

PREVIOUS EDITIONS ARE OBSOLETE

NAVY CONTRACTING BUSINESS FORM NO. 100 NORFOLK, VA. 23
Enclosure (3) to NAVSHIPS
Ser 527-1450

1441

Norfolk Shipbuilding & Dry Dock Corp.
P. O. Box 2100, Norfolk, Virginia

8.

U.S.S. LIBERTY (AGTR-5) 18 AUG 1967

SUPERVISOR OF SHIPBUILDING, USN
FIFTH NAVAL DISTRICT
P. O. BOX 215
Portsmouth, Virginia

GENERAL PROVISIONS
Pertaining to Specifications for
Repair and Alterations

The general provisions contained herein are applicable to, and form a part of the various items contained in specifications for work under a Master Contract for Repair and Alteration of Vessels (DD-ASPR Form No. 731).

1. Delays. In the event the contractor encounters difficulty in meeting performance requirements, or when he anticipates difficulty in complying with the contract schedule dates, he shall immediately notify the Contracting Officer via the Naval Inspector, in writing, giving pertinent details; provided, however, that this data shall be informational only in character and that this provision shall not be construed as a waiver by the government of any delivery schedule or date for any rights or remedies provided by law or under this contract.

2. Plans and Test Specifications.

a. Labor, materials and equipment indicated on plans or test specifications as being provided by "shops", "codes", "manufacturer", or "government", or listed as existing, which are required to complete work in these specifications are to be furnished by the contractor unless specifically listed as government-furnished in the specifications items. (Disregard all sources of supply referred to on the plans).

b. One non-reproducible (blueprint) copy of each plan referenced in the specifications will be furnished each contractor tendered an IFB and one reproducible copy of each plan will be furnished the successful bidder.

c. One non-reproducible copy of each test specification referenced in the specifications will be furnished each contractor tendered an IFB and three copies will be furnished the successful bidder.

3. Work Performance.

a. The contractor shall diligently perform the required work in accordance with an orderly schedule that will enable him to progressively complete the various phases of the work in a timely fashion. This work schedule shall be developed around certain milestone dates that are established in the specifications, including, but not limited to: drydocking, submission of various reports, post repair trials, and completion date.

b. Inspection and reports must be thorough and complete and made by experienced and fully qualified personnel, to assure an informed decision on necessary repairs. Sufficient time and manpower shall be scheduled by the contractor to make inspections properly and complete reports early in the contract period or in accordance with the dates required in the specifications.

4. Tests.

a. Whenever a test is required by the specifications, it shall be witnessed by the Naval Inspector and by a ship's inspector.

b. All work which requires acceptance tests shall be progressed in sufficient time to allow the contractor to complete such tests and correct deficiencies prior to the final job order completion date or at such earlier dates as may be directed in the specification.

c. Newly installed or reinstalled electronics or ordnance equipment shall not be energized except with the prior approval of a representative of the Supervisor of Shipbuilding.

d. In every case where it is necessary to operate ship's equipment for purpose of contractor's test or work, permission shall be obtained from the appropriate department head or the duty officer of the vessel via the Naval Inspector before proceeding with such operation.

e. Any work or tests requiring the inspection and approval of the Naval Inspector are to be performed during normal working hours, unless prior approval of the Naval Inspector is obtained. Normal hours are 8:00 A.M., to 4:30 P.M., Monday through Friday except on Federal Legal holidays. Work or tests performed by the contractor during other than normal working hours will be subject to inspection and approval by the Naval Inspector upon his return to duty on the next working day.

5. Fire Prevention and Safety:

The contractor shall abide by the requirements of "Safety and Health Regulations for Ship Repairing" as required by Clause 29 of the MSR Contract. The following precautions supplement those required by the "Regulations":

a. Whenever it is necessary to bring a quantity of any inflammable liquid in excess of five (5) gallons aboard ship via portable containers, the Naval Inspector shall be informed. The following precautions apply:

(1) The container is to be adequately protected during handling and while it is aboard ship.

(2) Provisions for confining any accidental spillage from such temporary storage tank to a small area are to be made by either fitting a pan underneath or a coaming around the tank with sufficient capacity to hold the entire contents of the tank.

(3) A fire hazard zone shall be designated and plainly marked around the container.

(4) Appropriate firefighting equipment and material shall be at hand in the vicinity of the fire hazard zone.

(5) It shall be removed as soon as it has served the purpose for which it was brought aboard.

b. Where a significant quantity of wood is required for work inside a ship, as much of the wood as practicable shall be treated to make it fire retardant.

c. The contractor shall assure that a supply of adapters and spanner wrenches for mating shipboard firefighting equipment (hoses and nozzles) with facility and/or municipal fire equipment is readily available on each pier.

d. Prior to the commencement of any "hot" work, the contractor will assure that adequate fire watch is stationed at the scene of the operation and in adjacent areas where a fire hazard might exist. When fire hazard is increased due to a large number of persons working in a limited area, or by location of hot work or other physical factors, the fire watches and equipment must be increased accordingly. If the ship's fire main is inactivated due to repairs specified, sufficient temporary fire stations shall be installed with hose and fittings to reach any point aboard with not more than one-hundred (100) feet of hose.

e. Before any welding, burning or other "hot" work is undertaken, the contractor shall obtain a certificate from a certified chemist showing that all spaces, compartments, tanks, voids, etc., including pipe lines, in, adjacent to, or upon which such work is to be performed, are gas free and safe for work. Subsequent tests shall be performed as necessary. Signs shall be posted as required by Sub-part B of the "regulations".

f. The contractor shall provide suitable precaution cards and post them in conspicuous places, on or near any equipment or material which offers a hazard to the security of the ship or the safety of personnel. Such warning signs shall be posted whenever precautions are necessary for the safe handling, stowage and security of dangerous materials, such as ammunitions, explosives or inflammables. Warning signs shall be posted whenever conditions of a hazardous nature are known to exist. Conditions which would prohibit smoking or welding, the presence of toxic or explosive vapors, acids or caustics, high voltage lines, breathing air supply lines, and radioactive materials are examples of conditions which would require the posting of warning signs. The contractor is also to assure that the protection afforded by such warning displays is further augmented by the familiarization of personnel with and the enforcement of, safety precautions.

6. Precautions against flooding:

a. Whenever the list of a ship or boat while waterborne or the failure of docking or hauling facilities could result in flooding through unattended hull openings open for repair or examinations, the contractor shall, at the end of each work shift not immediately followed by a shift engaged in work on these openings, secure all intact seachest and overboard discharge valves or fit temporary closures to these and to all other hull openings upon which work is being undertaken.

b. When the area of shell plating removal makes temporary closure impracticable, the contractor shall secure each vulnerable compartment in order to minimize potential damage. To the extent permitted by scope and urgency of work, underwater hull operations shall be scheduled to maintain positive vessel stability and maximum hull watertight integrity in event of flooding.

7. Piping.

All piping disconnected in performance of work shall be suitably blanked to prevent entrance of foreign objects.

8. Classified Work.

Clause 34 of the MSR Contract sets forth the military security requirements for classified work under the contract. The contractor shall have a Facility Security Clearance consistent with the degree of access required in order to undertake any classified work involved in attached specifications.

AGTR-5

es

I N D E X

Item No.

Title

1. OIL AND DEBRIS; REMOVAL FROM COMPARTMENTS

UNITED STATES GOVERNMENT

Memorandum

TO : Code 527

Ser O6R-452

DATE: 28 AUG 1967

FROM : Code O6R

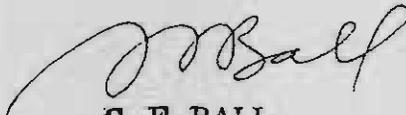
SUBJECT: USS LIBERTY, AGTR-5, Research Electronics Systems cost

Reference: (a) Chief of Naval Material letter serial O9C:ETK dated 21 August 1967

Enclosure: (1) Estimated cost breakdown of Special Electronics in the Radio Research system on subject ship
(2) Statements of qualifications of personnel preparing estimates

1. As requested by reference (a) and enclosures thereto enclosures (1) and (2) are herewith submitted.

2. Equipment listed in paragraph I enclosure (1) can be broken down into detailed lists however to do so would require high security classification of the enclosure. Detailed back up information is available in this office if needed.


G. E. BALLEnclosure (4) to NAVSHIPS
Ser 527-1450

D. Preece, 62108; S. Allen, 8/28/67

Cost of Special Electronics in the Radio Research System
on the USS LIBERTY AGTR-5

I. Equipment Replacement Costs	
A. Major electronics equipment destroyed or damaged beyond repair. (based on INSURV Board Report)	\$972,678
B. Portable test equipment destroyed. (based on INSURV Board Report)	\$ 30,922
C. Spare parts destroyed. (based on COMSERVLANT estimates)	\$200,000
D. Ancillary equipment destroyed. (based on "On-Site" survey and review of installation drawings)	\$189,560
E. Antenna system components destroyed. (based on "On-Site" survey)	<u>\$ 58,000</u>
TOTAL -	\$1,451,160
II. Damaged Equipment Refurbishment Costs	
A. Electronics Equipment. (based on contractors estimates)	\$390,000
B. Antenna Systems. (based on manufacturers estimates)	<u>\$100,000</u>
TOTAL -	\$490,000
III. Design and Installation Costs	
A. Engineering	\$210,233
B. Engineering overhead	\$149,265
C. Manufacturing labor	\$ 19,435
D. Manufacturing overhead	\$ 9,718
E. Sub contract costs	\$854,425
F. Other direct costs	\$ 68,243
G. Material	<u>\$102,806</u>
SUB-TOTAL -	\$1,414,125
H. General and Administrative	240,401
I. Profit	<u>132,362</u>
TOTAL -	\$1,786,888
IV. Cost on Items I escalation. (based on escalation of 4% per year 1964 to 1967)	\$173,139
V. Total cost to replace Special Electronics (Items I, II, III and IV above)	<u>\$3,901,187</u>

ENCLOSURE (1) to NAVSHIPS Serial 06R-452

1. OIL AND DEBRIS; REMOVAL FROM COMPARTMENTS (wah)

1. Remove all oil including oil film, water, and debris from decks, false decks, bulkheads, overheads, foundations, cabinets including equipment cabinets, lockers, stowage racks, frame members, ventilation, cables and wiring and piping. This includes the interior surfaces of the listed spaces, interior and exterior of ventilation, cabinets (except as noted below), and lockers and exterior surfaces of other listed items.

a. Exceptions - This does not cover internal parts of equipments in Radio Research Room No. 2 2-52-2-C and disassembly of cable runs.

b. Spaces to be cleaned.

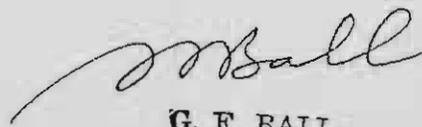
- | | | |
|------|----------|-------------------------------------|
| (1) | 2-52-2-C | Research Radio Room 2 |
| (2) | 2-59-0-L | Passage |
| (3) | 2-73-0-4 | Aviation Photo Lab |
| (4) | 2-52-1-C | Special Electronics Room |
| (5) | 2-62-3-C | Research Operations |
| (6) | 3-52-2-C | Crypto II |
| (7) | 3-52-0-C | Crypto I and Communication Center |
| (8) | 3-60-0-C | Research Radio Room Number 1 |
| (9) | 3-60-1-L | Passage |
| (10) | 3-60-3-C | Coordination Center |
| (11) | 3-69-1-A | Classified Mail Store Room |
| (12) | 3-69-3-C | Recorder Transcribing Room |
| (13) | 3-72-1-Q | Operations Department Office |
| (14) | 4-52-1-Q | Electronics Repair Shop |
| (15) | 4-52-3-A | Spare Parts Store Room |
| (16) | 4-52-2-A | Teletype, Typewriter Repair Shop |
| (17) | 4-52-4-A | Spare Parts Store Room |
| (18) | 4-60-0-L | Passage |
| (19) | 4-60-1-T | Trunk |
| (20) | 4-60-3-0 | Heater Fan Room |
| (21) | 4-60-2-Q | Training Class Room |
| (22) | 4-61-1-A | Registered Publications Strong Room |

NOTE: The internal compartment division bulkheads have been removed from compartments in paragraphs (8), (9), (10), (11), (12), (13) and (20) above.

CONTR REP _____ SHIPS REP _____ SUPSHIP REP _____ % _____

1. The cost figures submitted in enclosure (1) are estimates derived by Mr. Daniel R. Preecs and Mr. Paul R. Freund of Code 6050 NAVSEC. Mr. Preecs has been the Program Manager for the Naval Ships Engineering Center for the design and installation of Special Electronics Systems used for the research functions on AGTR type and other ships for the past two and one-half years. He has made operational cruises on these ships and made an on-site inspection of the damage to the LIBERTY in the drydock at MALTA. He is presently directing the efforts of NAVSEC in studies for future ships of this nature. Mr. Freund as Project Coordinator has worked on projects associated with the AGTR type ships and many projects of a similar nature on other ships for the past year and one-half and is completely familiar with this type special system.

2. As Program Manager and Project Coordinator respectively Mr. Preecs and Mr. Freund are completely familiar with all technical and financial aspects involved in the Special Electronics System installed on the LIBERTY and are considered to be highly qualified experts in this area.



G. F. BALL

We, the undersigned, certify that to the best of our knowledge and belief the cost estimates shown in enclosure (1) to this memorandum constitute reasonably accurate estimates of costs to perform the stated tasks.


DANIEL R. PREECS
PAUL R. FREUND

Enclosure (2) to NAVSHIPS Serial 06R-452

CONFIDENTIAL

Item Name

Quantity

Unit Cost

Total Cost

CU-1099/FRR	4	800	3,200
CV-157/URR	3	5,000	15,000
CV-591A/URR	6	400	2,400
CV-1089A/TLR-28	1	2,000	2,000
CV-1744/UG	1	17,500	17,500
DEM-21-4	1	1,000	1,000
HFM-6-PT-330-8	2	2,700	5,400
KY-463/EGC	10	200	2,000
LS-474/U	13	100	1,300
MX-27-M-ED	1	2,000	2,000
MX-2962/USM	1	600	600
NV-2	3	900	2,700
PP-1767/UG	2	400	800
R-390A/URR	50	2,500	125,000
R-1039/TLR-28	1	2,300	2,300
R-1274A/URR	2	800	1,600
R-1279A/URR	2	2,700	5,400
RO-98A	6	5,000	30,000
RO-1048-4	2	1,500	3,000
SB-15A	1	2,300	2,300
SB-315B/U	1	100	100
SB-1203A/UG	6	400	2,400
SB-1210/UG	6	400	2,400
TD-529/FRR	1	1,500	1,500
TD-687/URR	2	1,000	2,000

CONFIDENTIAL

U. S. S. LIBERTY (AGTR-5)
FPO, NEW YORK 09501

AGTR5/00
4010
Ser: 433

30 AUG 1967

From: Commanding Officer, USS LIBERTY (AGTR-5)
To: Commander, Naval Ship Systems Command

Subj: Ship's allowance material lost and/or damaged beyond repair as a
result of Israeli attack on LIBERTY 8 JUN 67

Encl: (1) Category listing and estimated value of material lost

1. It is hereby certified that to the best of my knowledge and belief the list of categories contained in enclosure (1) and their estimated replacement value are correct and correctly reflect the ship's allowance material which was lost, damaged, or disposed of as hazardous to the health, safety, and comfort of the crew or safety of the ship as a result of the Israeli attack of LIBERTY 8 JUN 67 and must be replaced prior to the ship being fit for unrestricted service.

W. L. McGonagle

W. L. MCGONAGLE

Copy to:
Commander Service Squadron EIGHT
COMSERVLANT

Enclosure (5) to NAVSHIPS
Ser 527-1450

511	Forecastle Deck Exhaust pipe to aux. Generator to be relagged.	
NO ✓ 512	To manufacture 1 in No. gear wheel as per pattern	30
513	60 C.C.2 bottles to be externally cleaned or oil and recharged	52
503	Overhaul ⁷⁴⁰ 10 in No. gyro repeaters.	54 75
504	Overhaul and fix emergency steering bimble.	20
505	Gyro compass to have cartouches removed.	46
506	To shop overhaul and test on completion 1 in No. emergency fire pump motor.	
507	Salt water circ. pump motor to be shop overhauled.	775
		319
	The following work to be carried out in connection with damage repairs (Item 118) as indicated by Mr. Hardison.	
508	Cable glands in W/T structure to be made good.	
509	Electric lighting to be installed.	73 1616
NO ✓ 510	To manufacture 2 in No. axis as per pattern (for U.S.S. Chikashio)	
NO ✓ 511	To rewind 1 in No. solenoid coil as per pattern (for U.S.S. Chikashio).	24
NO ✓ 512	Vent fan motor to be shop overhauled.	10 175

SERVICES PROVIDED

Hire of tugs provided for docking, undocking and departure of vessel.

311

Services of firewatchmen provided on board vessel for duration of repairs.

253

Service of qualified chemist provided certifying vessel free from gas. Tests carried out and certificates issued during repairs.

443

Cables laid, connected up to vessel, and shore electric power supplied during repairs. Cables disconnected and removed on completion. 48221 EMI @ \$0.06 per unit.

2917

c/s 157069 50

ENCLOSURE 2

Job No	Description	Quantity	Unit
126	Four (4) mast wires to be removed.		
127	Consequence on Item 118 (Damage repairs) New shell plating to be painted externally i.e. 4 coats anti-corrosive paints (alternate colour) and 1 coat antifouling.	1578	
128	... Main circ. water inlet girting, 2 in No. securing lugs and bolts to be fitted.	140	
129	To fit a welded doubler 15" x 6" x 1/2" (in connection with Job No. 125)	120	
300	Renew approx 80ft miscellaneous upper deck piping.	23	
501	In view of funnel damage, fit approx 24 in No. welded doublers, average size 12" x 12" x 1/16"		
502	Supply on land the following to the Engineer Officer: 2 in No. calvege pumps 4 in No. air extractor fans.	630	
503	To remove from deck bottom approx 20 tons of miscellaneous scrap.	130	
504	<i>OK</i> <i>Re-inspected during start</i> To shop overhaul and test on completion 1 in No. steam fire/flashing manifold pump.	2526	
505	To cut keyways in 1 1/2" diam shaft.	330	
506	The following work to be carried out in connection with damage repairs (Item 118) as indicated by Mr. Lordican.	10	
506	Diesel oil supply and return for diesel generator.		
507	Salt water discharge from diesel generator.	60	
508	Air escape and sounding tubes to fuel tanks.	530	
509	35 lbs Steam supply and drains.	85	
510	Feed pump shaft coupling to be machined as instructed.	1226	
		42	

c/r 143755 50

ENCLOSURE (

U.S.S. LIBERTY

Temporary electric lighting installed and service maintained during repairs. Cables disconnected and removed on completion.

240

Shore telephones installed on board for ships use. Service maintained during repairs, disconnected and removed prior to vessels departure.

84

Hoses laid, connected up to vessel and firemain water supplied. Service maintained during repairs, disconnected and removed on completion.

420

Hoses rigged and coupled up. Circulating cooling water supplied to refrigeration machinery. Hoses uncoupled and removed on completion.

420

One thousand six hundred (1600) tons of fresh water supplied to vessel.

960

Shore steam supplied to vessel for duration of repairs.

3360

Garbage removed and disposed of daily.

420

\$ 167564 50

H.B. THIS ACCOUNT IS EXPRESSED IN AED IS PAYABLE IN DOLLARS

ENCLOSURE (2)



EC

DEPARTMENT OF THE NAVY
NORFOLK NAVAL SHIPYARD
PORTSMOUTH, VIRGINIA 23709

In reply refer to
AGTR5/4710(214)
Ser: 0196

29 AUG 1967

~~CONFIDENTIAL~~

From: Commander, Norfolk Naval Shipyard
To: Commander, Naval Ship Systems Command

Subj: Cost Estimate to restore, USS LIBERTY (AGTR-5) to original configuration

Ref: (a) Your 241520Z Aug 67

Encl: (1) Certification of estimator's ability
(2) Certification by Estimators

1. As requested by reference (a), estimates have been prepared for repair of all battle damages inflicted on the USS LIBERTY (AGTR-5) by aircraft and naval units.

2. A breakdown of the estimates is furnished in enclosure (2). Totals for specific areas are:

a. Structural	\$238,887
b. Electrical	\$525,731
c. Piping	\$93,620
d. Sheet metal	\$235,838
e. Machinery	\$50,108
f. Temporary Services and dry docking	\$117,275
g. Total	\$1,261,459

3. Above dollar figures are computed on the basis of current Norfolk Naval Shipyard labor and overhead rate of approximately \$60 per man day. Above machinery estimate includes only inspection and alignment check of shafting, reduction gears and turbines. Problems have been reported with rubbing of shaft after attack, but scope of repairs are unknown until above inspection is completed.

4. Estimates do not include costs of electronic equipment, antenna or allowance items, such as life boats, mattresses, blankets, pillows, etc. Also not included is cost of repairs made at Malta which are considered permanent repairs.

5. In addition to above estimates, five Norfolk Naval Shipyard personnel inspected the LIBERTY in Malta at a cost of \$7,000 which has been paid by the Type Commander.

J. A. SISSON
By Direction Enclosure (2) to NAVSHIPS
Ser 527-1450

JAG

UNCLASSIFIED

NAVAL MESSAGE

FM CINCUSNAVEUR
R 202620Z JUN 67

TO USCINCEUR
CNO

UNCLASSIFIED

COURT OF INQUIRY USS LIBERTY (U)
A. USS LIBERTY 032028Z JUN 67
B. USS LIBERTY 042050Z JUN 67

1. AS A RESULT OF FOLLOW-UP ACTION
DETERMINED THAT RECS A AND B WERE
LIBERTY TO NAVSECGRU (HT 130000
040359Z AND 050530Z RESPECTIVELY. THERE
THAT EITHER MESSAGE WAS REFILED INTO COMINT

3. THE TWO MESSAGES IN QUESTION ARE QUOTE

QUOTE
R 032028Z JUN 67
FM USS LIBERTY
TO CINCUSNAVEUR
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App. A to Encl. (1) of JAG End JAG:1
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NAVCOMNET MOROCCO
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LOG PASS TO JRC
INCIDENT PASS TO JRC
DISTRIB POSIT

1. 032400Z9 POSIT 37-10N1 004-037
EASTERLY 19 KTS.

2. PROBLEM HYDRAULIC SYSTEM AGAIN
BEYOND CAPACITY OF SHIP'S FORCE
REPAIRS RECEIVED NEXT PORT OF CALL
PROBLEM PASSED SEPARATELY.

BT
BT UNQUOTE
QUOTE
R 043050Z JUN 67
FM USS LIBERTY
TO CINCSNAVEUR

INFO JCS
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3. 032400Z0 POSIT 37-10N1 004-037
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... THE MESSAGE

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4. REQUEST A COPY OF THIS MESSAGE BE INCLUDED IN THE
OFFICIAL RECORD OF THE COURT OF INQUIRY AS
EXHIBIT 48.
GP-4

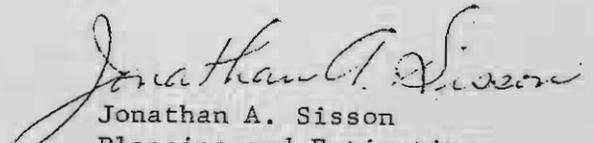
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C35094/17P0	5		5

CERTIFICATION OF ESTIMATORS' ABILITY

I certify that the below listed planners and estimators are qualified through experience to prepare estimates to accomplish work in their area of technical specialty:

Robert V Watkins	Structural
Kenneth E. Dice	Electrical
Bonnie L. Hardison	Piping
Jack S. Grimes	Sheetmetal
Frank Harrington	Machinery
Joseph M. Piland	Temporary Services


Jonathan A. Sisson
Planning and Estimating
Superintendent

Enclosure (1)

STRUCTURAL ESTIMATES

1. Structural repairs main deck and above including holes and dents in shell plating above water line.

Labor: 2788 mandays Matl: \$13,545 Total: \$179,487

2. Structural repairs below main deck in torpedo damage area.

Labor: 918 mandays Matl: \$4,760 Total: \$59,400

I certify that the above estimates have been prepared to the best of my ability and constitute reasonably accurate estimates to perform the stated tasks.

Robert V. Watkins

Robert V. Watkins

Enclosure (2) page 1

ELECTRICAL ESTIMATES

1. Replace cabling and equipment main deck and above with exception of cost of antennas and AN/SPS-10 equipment.

Labor: 1308 mandays Matl: \$21,480 Total: \$100,568

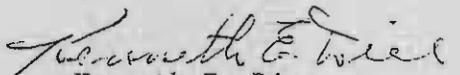
2. Install cable and electronics equipment in crypto 1 and 2 and research room number 1 not including hook up of electrical equipment in research room number 1.

Labor: 4380 mandays Matl: \$43,815 Total: \$301,170

3. Install power, lighting and I.C. equipment in crypto 1 and 2 and research room number 1.

Labor: 1,711 mandays Matl: \$20,733 Total: \$123,993

I certify that the above estimates have been prepared to the best of my ability and constitute reasonably accurate estimates to perform the stated tasks.


Kenneth E. Dice

Enclosure (2) page 2

PIPING ESTIMATE

1. Piping repairs main deck and above as a result of aircraft damage.
Labor: 487 mandays Matl: \$3,710 Total: \$34,012
2. Piping repairs below main deck as a result of torpedo damages.
Labor: 3400 mandays Matl: \$5,335 Total: \$29,735
3. Repairs to air conditioning compressor topside.
Labor: 179 mandays Matl: \$3,275 Total: \$14,194
4. Repairs to smoke stacks as a result of aircraft damage.
Labor: 239 mandays Matl: \$1,100 Total: \$15,679

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform the stated tasks.

Bonnie L. Hardison

Bonnie L. Hardison

SHEET METAL REPAIRS

1. Repairs to ventilation below main deck:
Labor 667 mandays Matl: \$8253 Total: \$49,098
2. Repairs to work benches, stowage bins and safe lockers below main deck:
Labor: 1426 mandays Matl: 13,353 Total: \$99,363
3. Repairs to furniture main deck and above:
Labor: 65 mandays Matl: \$1307 Total: \$5207
4. Repairs to bulkheads, metal joiner doors, secure doors, insulation land deck covering below main deck.
Labor: 695 mandays Matl: \$11,962 Total: \$54,037
5. Repairs to bulkheads, rugs, metal joiner doors, insulation, lockers and stowages; main deck and above.
Labor: 234 mandays Matl: \$5,480 Total: \$19,520
6. Repair ventilation main deck and above.
Labor: 134 mandays Matl: \$573 Total: \$8613

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform stated tasks.

Jack S. Grimes
Jack S. Grimes

Enclosure (2) page 4

MACHINERY REPAIRS

1. Removal and alignment of shafting (does not include access to remove shaft)

Labor: 438 mandays Matl: \$1050 Total: \$27,120

2. Inspect and repair propeller, outboard shaft bearing and rope guard.

Labor: 193 mandays Matl: \$570 Total: \$12,088

3. Take tape readings and reassemble main reduction gear, L.P. and H.P. sides (No repairs included in estimate).

Labor: 149 mandays Matl: \$125 Total: \$8,979

4. Check alignment H.P. and L.P. turbine couplings (no repairs included in estimate).

Labor: 30 mandays Matl: \$75 Total: \$1,921

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform the stated tasks.

Frank Harrington, Jr.
Frank Harrington

Enclosure (2) page 5

SERVICES

1. Temporary services (water, steam, electricity, telephone, fire alarm, etc)

Labor: 739 mandays Matl: \$25 Total: \$51,755

2. Removal of debris and crane operators

Labor: 900 mandays Matl: - Total: \$54,000

3. Dry Docking

Labor: 187 mandays Matl: \$300 Total: \$11,520

I certify that the above estimates have been prepared to the best of my ability and constitutes reasonably accurate estimates to perform the stated tasks.

Joseph M. Piland
Joseph M. Piland

JCB ORDER (Master Contract for Repair and Alteration of Vessels)		PAGE NO. 1	NO. OF PAGES 1
JOB ORDER ISSUED UNDER CONTRACT NO. N62678-67-C-0018		REQUISITION NO./PURCHASE AUTHORITY ComServLant msg. 152043Z August 1967	
THIS JOB ORDER IS ISSUED PURSUANT TO 10 U.S.C. 2301 ET SEQ. <input type="checkbox"/> BY ADVERTISING UNDER INVITATION NO. _____ <input checked="" type="checkbox"/> BY NEGOTIATION UNDER 10 U.S.C. 2304(a) (2) N62678-68-R-32		VESSELS (Name or number) USS LIBERTY (AGTR-5)	
OFFICE TO MAKE PAYMENT (If other than that designated by contract)		PER DIEM RATE OF LIQUIDATED DAMAGES. \$400.00 not to exceed from 10% of Job Order price	
ISSUED BY Supervisor of Shipbuilding, Conversion and Repair, USN Fifth Naval District P. O. Box 215 Portsmouth, Virginia 23705		PLACE OF PERFORMANCE <input type="checkbox"/> CONTRACTOR'S PLANT <input checked="" type="checkbox"/> AS SPECIFIED BELOW OR IN SPECIFICATIONS OR SCHEDULE U. S. Naval Amphibious Base Little Creek Virginia	
TG: (Contractor and Address) Norfolk Shipbuilding, & Drydock Corp. P. O. Box 2100 Norfolk, Virginia 23501		AMOUNT \$ 9,750.00	
		COMMENCEMENT DATE 21 August 19	
		COMPLETION DATE 5 September	
		APPLICABLE SPECIFICATIONS AND/OR SCHEDULE Attached	

ACCOUNTING AND APPROPRIATION DATA			
Appropriation & Subhd.	1781804.2460	Property Acctg. Activity	--
Object Class	--	Cost Code	None 98015
Bu. Cont. & Sub. Allot.	94143	Code	02-532P
Auth. Acctg. Activity	181		
Transaction Type	2D		

An order hereby placed with you under and pursuant to the provisions of the above numbered contract between you and THE UNITED STATES OF AMERICA to effect the repair, completion, alteration of, or additions to the above named (or numbered) vessel as described in the above numbered specifications and/or schedule. You shall perform the following items at the price or prices specified therefor:

Item 1

DO-A-3 has been assigned this Job Order.
Clause 45 applies to this Job Order.

CONFORMED COPY

If this job order is issued on a negotiated basis, the Contractor shall execute the following acceptance:

Accepted this 19 day of August 29 1967

Norfolk Shipbuilding & Drydock Corp.
CONTRACTOR

By John L. Stoker
SIGNATURE

Vice President
TYPED NAME AND TITLE

THE UNITED STATES OF AMERICA

By W. F. Talmage
SIGNATURE

W. F. TALMAGE
TYPED NAME OF CONTRACTING OFFICER

1441

Norfolk Shipbuilding & Dry Dock Corp.
P. O. Box 2100, Norfolk, Virginia

U.S.S. LIBERTY (AGTR-5) 18 AUG 1967

SUPERVISOR OF SHIPBUILDING, USN
FIFTH NAVAL DISTRICT
P. O. BOX 215
Portsmouth, Virginia

GENERAL PROVISIONS
Pertaining to Specifications for
Repair and Alterations

The general provisions contained herein are applicable to, and form a part of the various items contained in specifications for work under a Master Contract for Repair and Alteration of Vessels (DD-ASPR Form No. 731).

1. Delays. In the event the contractor encounters difficulty in meeting performance requirements, or when he anticipates difficulty in complying with the contract schedule dates, he shall immediately notify the Contracting Officer via the Naval Inspector, in writing, giving pertinent details; provided, however, that this data shall be informational only in character and that this provision shall not be construed as a waiver by the government of any delivery schedule or date for any rights or remedies provided by law or under this contract.

2. Plans and Test Specifications.

a. Labor, materials and equipment indicated on plans or test specifications as being provided by "shops", "codes", "manufacturer", or "government", or listed as existing, which are required to complete work in these specifications are to be furnished by the contractor unless specifically listed as government-furnished in the specifications items. (Disregard all sources of supply referred to on the plans).

b. One non-reproducible (blueprint) copy of each plan referenced in the specifications will be furnished each contractor tendered an IFB and one reproducible copy of each plan will be furnished the successful bidder.

c. One non-reproducible copy of each test specification referenced in the specifications will be furnished each contractor tendered an IFB and three copies will be furnished the successful bidder.

3. Work Performance.

a. The contractor shall diligently perform the required work in accordance with an orderly schedule that will enable him to progressively complete the various phases of the work in a timely fashion. This work schedule shall be developed around certain milestone dates that are established in the specifications, including, but not limited to: drydocking, submission of various reports, post repair trials, and completion date.

b. Inspection and reports must be thorough and complete and made by experienced and fully qualified personnel, to assure an informed decision on necessary repairs. Sufficient time and manpower shall be scheduled by the contractor to make inspections properly and complete reports early in the contract period or in accordance with the dates required in the specifications.

4. Tests.

a. Whenever a test is required by the specifications, it shall be witnessed by the Naval Inspector and by a ship's inspector.

b. All work which requires acceptance tests shall be progressed in sufficient time to allow the contractor to complete such tests and correct deficiencies prior to the final job order completion date or at such earlier dates as may be directed in the specification.

c. Newly installed or reinstalled electronics or ordnance equipment shall not be energized except with the prior approval of a representative of the Supervisor of Shipbuilding.

d. In every case where it is necessary to operate ship's equipment for purpose of contractor's test or work, permission shall be obtained from the appropriate department head or the duty officer of the vessel via the Naval Inspector before proceeding with such operation.

e. Any work or tests requiring the inspection and approval of the Naval Inspector are to be performed during normal working hours, unless prior approval of the Naval Inspector is obtained. Normal hours are 8:00 A.M., to 4:30 P.M., Monday through Friday except on Federal Legal holidays. Work or tests performed by the contractor during other than normal working hours will be subject to inspection and approval by the Naval Inspector upon his return to duty on the next working day.

5. Fire Prevention and Safety:

The contractor shall abide by the requirements of "Safety and Health Regulations for Ship Repairing" as required by Clause 29 of the MSR Contract. The following precautions supplement those required by the "Regulations":

a. Whenever it is necessary to bring a quantity of any inflammable liquid in excess of five (5) gallons aboard ship via portable containers, the Naval Inspector shall be informed. The following precautions apply:

(1) The container is to be adequately protected during handling and while it is aboard ship.

(2) Provisions for confining any accidental spillage from such temporary storage tank to a small area are to be made by either fitting a pan underneath or a coaming around the tank with sufficient capacity to hold the entire contents of the tank.



DEPARTMENT OF THE NAVY
NAVAL SHIP SYSTEMS COMMAND
WASHINGTON, D.C. 20360



IN REPLY REFER TO
AGTR-5
Ser 527-1450
SEP 1967



From: Commander Naval Ship Systems Command
To : Judge Advocate General

Subj: Claims Pertaining to USS LIBERTY- (AGTR-5)

Ref : (a) CNM ltr MAT 09C:ETK of 21 August 1967 w/encl.

- Encl: (1) COMSERVLANT memo of 29 August 1967
(2) COMNAVSHIPYD NORVA ltr AGTR-5/4710 Ser 0196 of 29 August 1967
(3) Copy of fixed price Contract No. N62678-67-C-0018
(4) NAVSEC (Code 06R) memo Ser 06R-452 of 28 August 1967
(5) CO, USS LIBERTY (AGTR-5) ltr AGTR-5/4010 Ser 433 of 30 August 1967
(6) Sworn Statement of Mr. Paul T. Saari, NAVSHIPSYSYSGOMHQ, Code 527

1. Reference (a) requested this Command to furnish the Judge Advocate General with cost estimates for the repair of damages inflicted upon USS LIBERTY by Israeli Air and Naval units on 8 June 1967.

2. The estimated cost of restoring USS LIBERTY and its equipment to the same condition prior to the attack on 8 June 1967 is \$5,424,202. The following is a breakdown of this estimate:

- | | |
|---|-----------|
| a. Actual Cost of Repairs Completed at Malta - enclosure (1). | 162,608 |
| b. Actual Cost of Norfolk Navy Shipyard Personnel Travel to Malta - enclosure (2). | 7,000 |
| c. Actual Cost of Oil Removal from Bulkheads and Overhead - enclosure (3). | 9,750 |
| d. Estimated Cost of Electronic Systems Restoration - enclosure (4). | 3,901,187 |
| e. Estimated Cost of Hull, Mechanical and Electrical Damage - enclosure (2). | 1,261,459 |
| f. Estimated Replacement Cost of Equipage, Allowance Items, Consumables, etc. - enclosure (5). | 141,656 |
| g. Estimated Cost of Labor Expended by LIBERTY Personnel in Excess of Normal Duties at a Rate of \$5.00 per hour. | 128,500 |

7 SEP 1967

App. E to Encl. (1) of JAG End JAG:131.1:DBB:as
Ser: 00010 of

3. It is noted that the actual cost of restoring and repairing the LIBERTY and its equipment will probably be increased by an undetermined amount because of the following conditions:

- a. The Norfolk Navy Shipyard estimates (enclosure 2) are based on current labor and overhead rates which are continuing to escalate.
- b. The replacement costs (enclosure 4) of the electronic equipment destroyed by the attack are based on 1964 prices plus escalation. However, these models are no longer available and new equipment to provide the same capability is considerably more expensive.
- c. The cost to eliminate the rubbing of the shaft, indicated in enclosure (2), cannot be determined until tests and inspections are made.
- d. The Shipyard estimates (enclosure 2) for the repair of the ship's electrical system include the correction of only known damage at this time. The remaining tests to be conducted will probably uncover further damage.

4. This Command recommends that consideration be given to providing for a second payment to cover the above probable increases when the exact cost figures are known.



Copy to:
CHNAVMAT W/ENCL.
CNO (OP-04) W/ENCL.
CNO (OP-03) W/ENCL.
CNO (OP-94) W/ENCL.

E. A. GRANTHAM
Deputy Commander for
Fleet Maintenance & Logistics

Commander Service Force
U. S. Atlantic Fleet
Norfolk, Va. 23511

29 August 1967

MEMORADNUM FOR COMMANDER, NAVAL SHIP SYSTEMS COMMAND

Subj: USS LIBERTY (AGTR5) battle damage repairs; cost of

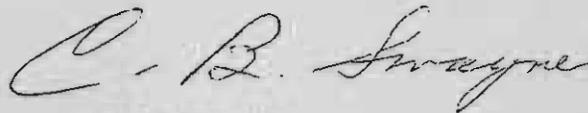
Encl: (1) Copy of Malta Drydocks invoice ser 3235 of July 1967

1. Enclosure (1) is a breakdown of the repairs accomplished by Malta Drydocks during the period 14 June 1967 to 14 July 1967 in order to make USS LIBERTY (AGTR5) seaworthy for transit to CONUS. Certain items in enclosure (1) are not associated with battle damage repairs as outlined below:

Invoice price	\$163,564.50
Less non-battle damage repairs exceptions	
Item 128	\$140.00
Item 505	532.00
Item 510	42.00
Item 512	32.00
Item 810	24.00
Item 811	10.00
Item 812	176.00
	<u>\$956.00</u>

Total cost of temporary battle damage repairs: \$162,608.50.

2. It is certified that the costs outlined in enclosure (1) are those actually paid and that the estimates for the "exception" items are reasonable and just.



C. B. SWAYNE
Ass't Chief of Staff
(Maintenance)

Enclosure (1) to NAVSHIPS
Ser 527-1450

ENCLOSURE (1)

CATEGORY	ESTIMATED VALUE
Storeroom Items - Repair Parts, etc.	\$37,560.00
Clothing, Bedding, etc.	
Protective Clothing	5,050.00
Bedding	2,542.00
Crews clothing	2,000.00
	<u>\$9,592.00</u>
Office Machinery, Supplies	
Typewriters, Adding Machines	
Safe, supplies, etc.	\$13,662.00
	<u>\$13,662.00</u>
Cleaning Gear	
Vacuum Cleaner	\$80.00
Swabs, brooms, etc.	76.00
	<u>\$156.00</u>
Damage Control and Lifesaving Gear	
Life Preservers	\$1,417.00
Rafts	\$27,360.00
Motor Whale Boat	10,000.00
Hoses	560.00
Phones and PA System	1,433.00
Repair party apparatus	1,180.00
Fire Extinguishers, etc.	1,575.00
OBA Cannisters	89.00
Lights	260.00
Shoring, wedges, etc.	500.00
Misc.	235.00
	<u>\$44,609.00</u>
Medical Equipment and Supplies	\$940.00
Navigational Gear:	
Binoculars	\$1650.00
Compasses, bearing circles, etc.	\$2053.00
Signal Flags	607.00
Signal Lights	300.00
	<u>\$4610.00</u>
Weapons:	
.50 Cal. Machine Guns	\$16,000.00
Small Arms	233.00
	<u>\$16,233.00</u>
Fuel and Oil	\$3,115.00
Misc.	
Lines	\$6,140.00
Vehicle	1,300.00
Special Services Equipment	2,051.00
Still Picture Proj.	365.00
Multimeter	118.00
Point	780.00
Mess Utensils	75.00
Carpenter Shop Equipment	350.00
	<u>\$11,179.00</u>

ENCLOSURE (1)

ENCLOSURE (1)

Grand total of Ship's allowance material lost
and/or damaged beyond repair as a result of
Israeli attack on LIBERTY 8 June 1967 \$141,656.00*

*Above total estimates do not include portable electronics test equipment
which will be included in the listing of electronics equipment destroyed
to be submitted separately.

Manhours expended in debris removal, fire and security watches, and resto-
ration of habitability of ship in excess of that normally required to main-
tain health and cleanliness standards:

25,000 man/hrs.

Inventorying, packing, and shipping
of personal effects:

500 man/hrs

Restowage of Storerooms:

200 man/hrs

700 total man/hrs

Total man hours expended: 25,700 man/hrs

The undersigned solemnly swears that to the best of his knowledge and belief the individuals who prepared the detailed estimates enclosed herewith are recognized and regularly employed as experts in the field of naval repair, construction, and planning.

Paul T. Saari

PAUL T. SAARI
Naval Architect
Naval Ship Systems Command
Code 527

Subscribed and sworn to before me this thirty first day of August, 1967.

Ira W. Blair

IRA W. BLAIR
Commander U.S. Navy
Director of Auxiliary Ships Maintenance

My commission expires at the pleasure
of the President of the United States

Enclosure (6) to NAVSHIPS
Ser 527- 1450

U.S.S. ALBATROSS

100 200 No.

104

Repair approx. 12 in No. 4/2 doors and chalk test on completion.

1002

105

Renew approx. 6 in No. 4/2 doors complete with frames.

5005

106

Renew approx. 12 in No. mesh wire gatings.

207

107

To clean, wirebrush, apply one (3) coat under coat approx. 500 sq. yds damaged paint work (superstructure). Final coat to be applied to entire topsides including decks and mast (paint H.O.D. supply).

2075

108

To crop 4 in No. miscellaneous storages damaged beyond repairs.

02

109

Manufacture 6 in No. galv. or H/3 boxes without lid, but with 2 handles 18" x 18" x 30" high.
4 in No. 1/2" holes to be drilled in bottom.

07A

110

Remove all traces of oil from shipside and clean internally in way of damage, removing all arisings, also hose down No. 2 deck.

4867

Supply Services of T.O.V. Bartsey. To remove Oil/Water from following Tanks. Clean internally and gas free.

- 5 - 52 - 2 - F
- 5 - 52 - 0 - F
- 5 - 52 - 1 - F
- 5 - 37 - 2 - F
- 5 - 59 - 1 - Q
- 5 - 37 - 0 - F
- 5 - 37 - 1 - F

16377

111

To manufacture and fit 1 in No. inflatable liferaft storage complete with quick-release gear, approx. size 5' x 5'.

040

112

Supply the following to the Engineer officer:-

- 5 Doz. pairs overalls.
- 3 Doz. pairs gloves.
- 3 Doz. pairs sea boots.

2650

C/F

59422

50

ENCLOSURE (

U.S.S. JEWELL

113. JB Ed.

113

Supply the Services of 21n No. covered
lorries (with drivers) at U.S.S. disposal
as required.

1570

114

Take lifeboat stbd side aft., holes in
10 in places. Fibre glass patching to be
carried out in situ and lifeboat water
tested on completion.

234

115

To supply 1 in 11l. 50 gall. drum of
diesel oil and 1 drum 50 galls high octane
gasoline and 4 in 1b. Jerrycans filled
with 2 gallons of gasoline each.

45

116

Main derrick part aft, purchase wire to
be resoured.

54

117

PHOTOGRAPHING DAMAGE STBD. SIDE 50 - 73 STATIONS

(a) Take four (4) shots at different angle
and supply 10 in 1b. of each, large sizes prints.

(b) Take shots as instructed during various
stages of repair and supply 4 in 1b. of each,
large sizes prints.

(c) Supply 2 in 1b. colour films (20 exposures).

534

SHULL REPAIRS

(1) 1st Deck:-

Deck part removed bet. 57 - 63	22' x 13' x 3/8"
2 in 1b. deck beams removed.	9' x 6" x 1/2"
x 10' angle each.	
Insert fitted on deck	24" x 24" x 3/8"
Insert fitted on deck	36" x 36" x 3/8"
Lower part of 5 in 1b. divisional blind burned for access to deck plating.	8' x 25'
Deep girder part removed (stbd)	10' x 5/4" x 24"
Deep girder part removed (face plate)	10' x 1 1/2" x 19"

2nd Deck:-

No. 52 Transverse blind. part removed.	36' x 87' x 1 1/2"
No. 52 Transverse blind. insert fitted.	24" x 24" x 3/8"
11 in 1b. angle stiffeners on blind removed	40 x 6" x 1/2" x 10'
5 in 1b. brackets on stiffeners to deck removed.	15" x 12" x 3/8"
Deck part removed bet. 52 - 63	36' x 22' x 3/8"

ENCLOSURE (2)

U.S.S. LIBERTY

8 in No. deck beams removed. $9'' \times 4'' \times \frac{1}{4}''$
 $\times 19'$ angle each.

Deep girder part removed
 (stbd) $16'' \times 26'' \times \frac{3}{8}''$
 Deep Girder part removed face
 plating $14'' \times 19'' \times \frac{1}{4}''$

Deep beam on No. 50 frame removed. $20'' \times 26'' \times \frac{1}{4}''$
 Face plate $16'' \times 19'' \times \frac{1}{4}''$
 8 in No. webs on beam and Girder $24'' \times 18'' \times \frac{1}{2}''$
 5 in No. girders removed bet
 52 - 58 $9'' \times 4'' \times \frac{1}{4}'' \times 18'$
 angle each.

Deck faired bet. 52-58 (Centre
 line) $20'' \times 19'$ area.
 Insert fitted on deck bet 58-60 $6'' \times 19'' \times \frac{3}{8}''$
 Insert fitted on deck bet 55 - 57 $18'' \times 18'' \times \frac{3}{8}''$
 No. 60 Transverse bilhd removed $62'' \times 19'' \times \frac{1}{4}''$
 18 in No. T bars on same removed $5'' \times 6'' \times \frac{1}{4}''$
 $\times 19'$ each.
 Centre line pillar removed 2 bar
 24 No. $16'' \times 8' \times \frac{1}{2}''$
 $12'' \times 8' \times \frac{3}{8}''$
 1 in No.
 2 in No. longl. bilhd burned off $19'' \times 20''$ each.
 No. 60 transverse bilhd. $19'' \times 19''$

(b) LOWER DECK

Longl. bilhd on stbd side removed bet 52 - 60
 $24'' \times 5'' \times 18' \times \frac{1}{4}''$
 Centre line bilhd removed bet 52 - 60
 $24'5'' \times 14'' \times \frac{3}{8}''$

Longl. bilhd part side part
 removed bet 52 - 60 $24'3'' \times 8'' \times \frac{1}{4}''$
 No. 60 transverse bilhd part
 removed. $56'' \times 18'' \times \frac{1}{4}''$
 6 in No. T bars on Centre line
 bilhd. $9\frac{1}{2}'' \times 8\frac{1}{2}'' \times 13'$ (each)
 7 in No. 2 bars on longl bilhd
 stbd $5\frac{1}{2}'' \times 6\frac{1}{2}'' \times 13'$ (")
 12 in No. T bars on No. 60 bilhd $5\frac{1}{2}'' \times 8\frac{1}{2}'' \times 13'$ (")
 3 in No. channel bars on 52 bilhd $8'' \times 3\frac{1}{2}'' \times 12'$
 $\times 5\frac{1}{2}'' \times 14''$
 1 in No. angle on No. 52 bilhd $4'' \times 4'' \times 9'' \times 14'$
 Insert fitted on No. 60 bilhd $42'' \times 26'' \times \frac{3}{8}''$
 2 in No. T bars on 60 bilhd part
 removed. $6'' \times 19'' \times \frac{3}{8}''$
 $\times 4'$ (each).
 3 in No. brackets on 60 bilhd to deck $23'' \times 11'' \times \frac{3}{8}'' \times$
 $5''$ flg. (each)

Tank top part removed 1st strake
 (stbd) $15'' \times 30'' \times \frac{1}{4}''$
 Tanktop part removed 2nd & 3rd
 strake) stbd) $11'' \times 25'' \times \frac{1}{4}''$
 Margin plate bet. 55 - 61 removed $30'' \times 36'' \times \frac{1}{4}''$
 Insert fitted on tank topbet 53 -
 59 $44'' \times 24'' \times \frac{1}{4}''$
 59 - 60 $15'' \times 33'' \times \frac{1}{4}''$
 60 - 61 $87'' \times 36'' \times \frac{1}{4}''$
 No. 58 floor part removed $60'' \times 48'' \times \frac{1}{4}''$
 Nos. 57 - 59 - 60 & 61 floors
 removed faired refitted. $60'' \times 48'' \times \frac{1}{4}''$ each

ENCLOSURE (2)

U.S.S. LIBERTY

(a) STANDARD BILL

J struts removed bet	53 - 63	7'6" x 41" x 3/4"
H	53 - 63	5'5" x 51" x 3/4"
G	53 - 63	7'6" x 51" x 3/4"
F	53 - 63	5'9" x 51" x 3/4"
E	53 - 63	6'9" x 51" x 3/4"

Nos. 53, 54, 55, 56, 57, 59, 60, 61, 62, 63 and
64 frames removed from tank top to 1st deck.

3" x 9" x 4" x 27"
angle each (shaped)

No. 65 & 66 frames removed bet 1st and 2nd decks

1/2" x 9" x 4" x 10"

No. 58 web frame removed

36" x 27" x 1/2"

Face plate 12" x 27" x 3/4"

3 in No. webs on 58 frame 11" x 35" x 1/2" (each)

2 in No. diamond plates fitted on
No. 58 web

frame to deep beam on 1st and 2nd decks 35" x 36" x 3/4"

2 in No. doublers fitted on No. 58 frame

to deep beam on 1st and 2nd decks. 11" x 35" x 3/4"

10 in No. brackets on margin plate
to frames 53 - 63 1/2" x 6" x 5" x 4" fl. each.

10 in No. brackets on frames Nos.

53 - 63 to 2nd deck removed. 1/2" x 15" x 12" each

13 in No. brackets on frames
Nos. 53 - 63 to 1st deck removed. 1/2" x 15" x 12" each

75776

120 JOB NO.

119

To remove approx. 20 tons of miscellaneous
lockers, fitting elect. cable, pipes etc.
(removals in connection with Item 118)

359

120

To carry out daily check of ships fare
whilst vessel is in dock.

1006

121

To supply 100 fathoms of 1 1/2" rope as per
pattern supplied.

270

122

Laundry arrangements.

733

123

New structure - 1 coat red lead to be
applied as indicated and oiled.

375

124

New shell plating (damage repaired)
all external welding to be 1 rayed).

515

125

To investigate oil leaks between 82 - 83
stations etc.
Survey report forwarded.

74

C/S

140518

50

ENCLOSURE (2)