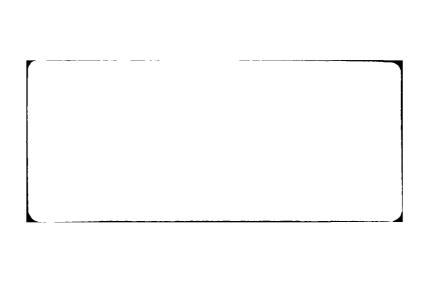


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FINAL REPORT
CIVILIAN MANNING OF
AE, AFS, AND AD TYPE SUPPORT SHIPS
VOLUME II

Contract No. #00014-79-C-0040 ISI Report No. V-2514-02

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VOLUME II

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APPENDIX A

TAE-26 CIVILIAN MANNING

NECC-WATCH AND STATION BILL-PROPOSED MSC CREW

DECK DEPARTMENT

Licensed		
Master	1	
First Officer (D)	2	
Second Officer (W)	1	
Third Officer (W)	_2_	
Total Licensed		6
Unlicensed		
Boatswain (D)	2	
Carpenter (D)	1	
Boatswain's Mate (D)	6	
Able Seamen (W)	9	
Able Seamen (D)	3 0	
Ordinary Seamen (D)	45	
Total Unlicensed		_93
Total Deck Department		99

ENGINE DEPARTMENT Licensed Chief Engineer (D) 1 First Ass't Eng. (D) Second Ass't Eng. (D) Third Ass't Eng. (D) 2 Third Ass't Eng, (W) 3 Total Licensed Unlicensed Chief Electrician (D) Second Electrician (D) Refrigeration Eng. (D) Second Refrigeration Eng.(D) Deck Engineers (D) Machinist/Plumbers (D) 2 Oilers (W) Firemen/Water Tenders (W) Wipers (D) Utilitymen (D) Total Unlicensed 27 Total Engine Department 36

STEWARDS DEPARTMENT		
Chief Steward	1	
Chief Cook	1	
Cook/Baker	1	
Cooks	3	
Messmen	6	
Utilitymen	12	
Pantryman	1	
Laundrymen	2	
Total Stewards Department		27
PURSER/MEDICAL DEPARTMENT Purser	1	
Nurse	1	
Total Purser Department		2
SUPPLY DEPARTMENT		
Supply Officer	1	
Ass't Supply Officer	1	
Yeomen/Storekeepers	_3_	
Total Supply Department Total Ship Complement		5 169

MILDET

	03	W2	E7	E 6	E5	E4	E3	=	TOTAL
Comm.	1			4	4	6	3	=	18
Ord.		1	1	2	4	6		=	14
Total Mildet	1	1	1	6	8	12	3	=	32

NECC WATCH & STATION BILL TAE-26 CLASS

į

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
PILOT HOUSE	WATCH OFFICER TACTICAL/WATCH COORDINATOR	2ND/3RD OFF.	3RD OFF. IST OFF.	3RD OFF.
	COMPLAND NAVIGATOR	MASTER 2ND OFF.	MASTER 2ND OFF.	MASTER
	HELMSMAN TALKER (1 JV) TALKER (1 JG)	AB	AB UTILITYMAN(S)	AB UTILITYMAN(S) UTILITYMAN(S)
LOOKOUTS	FORWARD (RELIEF HELMSMAN)	AB		AB
	STARBOARD PORT		AB AB	
	AFT		AB	AB
STEERING AFT	HELMSMAN		AB	
	REPALKMAN		FLECTRICIAN	
BRIDGE AREA	BRIDGE TO BRIDGE DISTANT LINE		UTILITYMAN(S)	
	HANDLER/TALKER BRIDGE TO BRIDGE		UTILITYMAN(S)	
	DISTANT LINE HANDLER/TALKER			
	TALKER (X 8.1)		(ITILITYMAN(S)	

NECC WATCH & STATION BILL TAE-26 CLASS

OD

STATION		CONDITION	
IDENTIFICATION	WATCH STATION STEAMING	UNREP	VERTREP
CARGO CONTROL	UNREP SUPERVISOR, DECK RIG SUPERVISOR STBD RIG SUPERVISOR PORT CARGO CONTROL OFFICER LOCATE/ISSUE CLERK TALKER (X 8J)	1ST OFFICER BOSUN BOSUN SUPPLY OFFICER YEOMAN/STOREKEEPER OS	
REPLENISHMENT REPAIR PARTY	IN CHARGE MACHINERY REPAIRMAN MACHINERY REPAIRMAN ELECTRICAL REPAIRMAN ELECTRICAL REPAIRMAN INT. COMMUNICATION REPAIRMAN	3RD ENG. DECK MACH. DECK MACH. ELECTRICIAN ELECTRICIAN ELECTRICIAN	
CARGO RIG TEAM NO. 1	RIG CAPTAIN SIGNALMAN/SHIP TO SHIP PHONE TALKER LINE/CARGO HANDLER MINCH OPERATOR (X 10J)	BOSUN'S MATE AB AB OS OS AB AB	

NECC WATCH & STATION BILL TAE-26 CLASS

OD

STATION		NOO	ITION	
IDENTIFICATION	MAICH STATION S	SIEAMING UN	UNKEP	VERIRLP
CARGO RIG TEAM #2	RIG CAPTAIN	80	BOSUN'S MATE	
	SIGNALMAN/SHIP TO	AB		
	SHIP PHONE TALKER			
	LINE/CARGO HANDLER (X 8J)	AB AB	_	
	LINE/CARGO HANDLER	AB		
	LINE/CARGO HANDLER	SO		
	LINE/CARGO HANDLER	80		
	LINE/CARGO HANDLER	80		
	WINCH OPERATOR (X 10J)	AB		
	WINCH OPERATOR (X 10J)	AB		
	WINCH CONTROLLER (X 10J)	I) AB		
CARGO RIG TEAM #3	RIG CAPTAIN	80	BOSUN'S MATE	
	SIGNALMAN/SHIP TO	AB	_	
	SHIP PHONE TALKER			
	LINE/CARGO HANDLER (X 8J)	AB AB		
	LINE/CARGO HANDLER	AB	_	
	LINE/CARGO HANDLER	S0		
	LINE/CARGO HANDLER	SO	••	
	LINE/CARGO HANDLER	S0 0S		
	WINCH OPERATOR (X 10J)			
	WINCH OPERATOR (X 10J)	AB	_	
	WINCH CONTROLLER (X 10J)	AB	_	

NECC WATCH & STATION BILL TAE-26 CLASS

			CONDITION	
10ENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
CARGO RIG TEAM #4	RIG CAPTAIN		BOSUN'S MATE	
	SIGNALMAN/SHIP TO		AB	
	SHIP TALKER			
	LINE/CARGO HANDLER (X 8J)	8J)	AB	
	LINE/CARGO HANDLER		AB	
	LINE/CARGO HANDI, ER		08	
	LINE/CARGO HANDLER		08	
	LINE/CARGO HANDLER		80	
	WINCH OPERATOR (X 10J)		AB	
	WINCH OPERATOR (X 10J)		AB	
	WINCH CONTROLLER (X 10J)	0.7)	AB	
CARGO RIG TEAM #5	RIG CAPTAIN		BOSUN'S MATE	
	SIGNALMAN/SHIP TO		AB	
	SHIP TALKER			
	LINE/CARGO HANDLER (X 8J)	8J)	AB	
	LINE/CARGO HAYDLER		AB	
	LINE/CARGO HANDLER		SO	
	LINE/CARGO HANDLER		SO	
	LINE/CARGO HANDLER		0.5	
	WINCH OPERATOR (X 10J)	~	ΛB	
	WINCH OPERATOR (X 10J)	_	AB	
	WINCH CONTROLLER (X 10J)	03)	AB	

NECC WATCH & STATION BILL TAE-26 CLASS

STATION		0	CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
HOLD TEAM #1	HOLD CAPTAIN		YEOMAN/STOREKEEPER	
	AMMO HANDLER		AB	
	AMMO HANDLER		SO	
	FORKLIFT OPERATOR		SO	
	FORKLIFT OPERATOR		SO	
	ELEVATOR OPERATOR		SO	
	ELEVATOR OPERATOR		SO	
HOLD TEAM #2	HOLD CAPTAIN		YEOMAN/STOREKEEPER	
	AMMO HANDLER		AB	
	AMMO HANDLER		\$0	
	FORKLIFT OPERATOR		SO	
	FORKLIFT OPERATOR		SO	
	ELEVATOR OPERATOR		08	
	ELEVATOR OPERATOR		SO	
HOLD TEAM #3	HOLD CAPTAIN		YEOMAN/STOREKEEPER	
	AMMO HANDLER		AB	
	AMMO HANDLER		08	
	FORKLIFT OPERATOR		08	
	FORKLIFT OPERATOR		SO	
	ELEVATOR OPERATOR		SO	

NECC WATCH & STATION BILL TAE-26 CLASS

CE

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
HOLD TEAM #4	HOLD CAPTAIN		Y EOMAN/STOREKEEP ER	
	AMMO HANDLER		AB	
	AMMO HANDLER		00	
	FORKLIFT OPERATOR		S	
	ELEVATOR OPERATOR		ŝ	
	ELEVATOR OPERATOR		00	
STAGING TEAM				
	POIC		YEOMAN/STOREKEEPER	
	POIC		YEOMAN/STOREKEEPER	
	POIC		Y EOMAN/STOREKEEPER	
	POIC		Y EOMAN/STOREK EEP ER	
	FORKLIFT OPERATOR		00	
	FORKLIFT OPERATOR		00	
	FORKLIFT OPERATOR		00	
	FORKLIFT OPERATOR		OS	
	FORKLIFT OPERATOR		08	
	FORKLIFT OPERATOR		SO	
	FORKLIFT OPERATOR		SO	
HELLCOPTER CONTROL TOWER	HEI.TCOPTER CONTROL.	OFFICER		MILDET
HELICOT IEN CONTROL LONG.		1		MILDET

NECC WATCH & STATION BILL TAE-26 CLASS

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
VERTREP TEAM	FLIGHT DECK SUPV.			ROSUN
	LANDING SIGNAL DIRECTOR (1 JG)	OR (1 JG)		MTI.DET
	SCENE LEADER TALKER (1.1G)			2ND/3RD OFF
	FORKLIFT OPERATOR			08
	FORKLIFT OPERATOR			S0
	CARGO HANDLER/HOSEMAN			UTILITYMAN(S)
	CARGO HANDLER/HOSEMAN			UTILITYMAN(S)
	CARGO HANDLER/HOSEMAN			UTILITYMAN(S)
	CARGO HANDLER/HOSEMAN			UTILITYMAN(S)
	HOT SUITMAN			MILDET
	HOT SUITMAN			MILDET
	NOZZLEMAN			AB
	NOZZLEMAN			AB
	HOSEMAN			MESSMAN (S)
	HOSEMAN			MESSMAN (S)
	CO2 BOTTLE HANDLER			UTILITYMAN(E)
	FOG FOAM GENERATOR OPER	ER		UTILITYMAN(E)
KEPLENISHMENT MEDICAL TEAM		(PORT)		PURSER
	MEDICAL TECHNICIAN	(STBD)		NURSE
NACIIINERY ROOM	ENGINEER WATCH OFF. WATCH COORDINATOR	2ND/3RD ENG	3RD ENG. CHIEF ENG	2ND/3RD ENG
	UPPER LEVEL THROTTLEMAN (1 1V)		UTILITYMAN(E)	
	LOWER LEVEL	OILER	OILER	OILER
	RECORITER/ MESSENGER	•	WIFER	
	BOILER TENDER/CONSOLE OPERATOR	FW/T	2ND FNG.	F/WT
	BURNERMAN/CHECKMAN SWITCHROARD/CENEPATOR OPER	OBER	F/WT	
	Sat Ichborno/ Generalon	Of En.	ELECTAN	

NECC WATCH & STATION BILL TAE-26 CLASS

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
EMERGENCY GENERATOR #1	DIESEL/SWITCHBOARD OPER. (JV)		ELECTRICIAN	
EMERGENCY GENERATOR #2	DIESEL/SWITCHBOARD OPER. (1 JV)		ELECTRICIAN	
DAMAGE CONTROL CENTER	DAMAGE CONTROL SUPV. DAMAGE CONTROL ASST (1 JV)		CARPENTER PLUMBER/ MACH	

DECK DEPARTMENT

Licensed		
Master	1	
First Officer (D)	2	
Second Officer (W)	1	
Third Officer (W)	_2_	
Total Licensed		6
Unlicensed		
Boatswain (D)	2	
Carpenter (D)	1	
Boatswain's Mate (D)	5	
Able Seamen (W)	9	
Able Seamen (Maint.)	24	
Ordinary Seamen (D)	_3_	
Total Unlicensed		44
otal Deck Department		50

ENGINE DEPARTMENT Licensed 1 Chief Engineer (D) First Ass't Eng. (D) 1 Second Ass't Eng. (D) 2 Third Ass't Eng. (W) Total Licensed Unlicensed Chief Electrician (D) 1 Refrigeration Eng. (D) Deck Eng. - Machinist (D) Unlicensed Jr. Engineer (D) 2nd Electrician (D) Engine Utilityman Oiler (W) Fireman/Water Tender (W) Wiper (D) Total Unlicensed 27

Total Engine Department

STEWARDS DEPARTMENT Chief Steward 1 Third Steward Chief Cook Night Cook & Baker 1 2nd Cook/Baker 2 Ass't Cook Third Pantryman 2 Laundryman 2 Messman 7 Utilityman 12 Total Stewards Department 31 PURSER/MEDICAL DEPARTMENT Purser 1 Jr. Purser 1 Nurse Total Purser Department 3 SUPPLY DEPARTMENT Supply Officer Yeomen/Storekeepers Total Supply Department Total Ship Complement

MILDET

	03	W2	E7	E6	E5	E4	E 3		TOTAL
Communications	1		1	3	8	5		-	18
Ordinance	1	1	1	2	2	6		=	13
Operations				1	2			-	3
Security							1	-	1
Supply				1				-	1
Admin.				1	1			_	2
	2	1	2	8	13	11	1	-	38

APPENDIX B TAFS-1 CIVILIAN MANNING NECC-WATCH AND STATION BILL-PROPOSED MSC CREW

DECK DEPARTMENT

Licensed		
Master	1	
First Officer (D)	2	
Second Officer (W)	1	
Third Officer (W)	2	
Total Licensed		6
Unlicensed		
Boatswain (D)	2	
Carpenter (D)	1	
Boatswain's Mate (D)	6	
Able Seamen (W)	9	
Able Seamen (D)	28	
Ordinary Seamen (D)	41	
Total Unlicensed		_87
Total Deck Department		93

ENGINE DEPARTMENT

CE

Lic	ensed		
	Chief Engineer (D)	1	
	First Ass't Eng. (D)	1	
	Second Ass't Eng. (D)	2	
	Third Ass't Eng. (D)	2	
	Third Ass't Eng, (W)	3	
	Total Licensed		9
laU	icensed		
	Deck Engineer (D)	4	
	Chief Electrician (D)	1	
	Second Electricians (D)	2	
	Refrigeration Engineer (W)	1	
	2nd Refrigeration Engineer(W)	1	
	3rd Refrigeration Engineer(W)	1	
	Refrigeration Oilers (W)	3	
	Machinist (D)	1	
	Utilitymen (D)	3	
	Oilers (W)	3	
	Firemen/Water Tender (W)	3	
	Wiper (D)	3	
	Total Unlicensed		26
Total	Engine Department		35

STEWA	RDS DEPARTMENT		
	Chief Steward	1	
	Chief Cook	1	
	Cook/Baker	2	
	Third Cook	1	
	Utilitymen	12	
	Messman	6	
	Third Pantryman	1	
	Laundryman	1	
	Ass't Laundryman	1	
Total	Stewards Department		26
PURSE	R/MEDICAL DEPARTMENT		
	Purser	1	
	Nurse	1	
Total	Purser Department		2
SUPPL	Y DEPARTMENT		
	Supply Officer	1	
	Ass't Supply Officer	1	
	Yeomen/Storekeepers	25	
	Supply Department Ship Complement		27 183

MILDET

n

	04	03	02	E8	E 6	E 5	E4	E3	TOTAL
Communications		1			4	4	6		= 18

NECC WATCH & STATION BILL TAFS-1

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
PILOT HOUSE	WATCH OFFICER TACTICAL/WATCH COORDINATOR	2ND/3RD OFF.	3RD OFF. 1ST OFF.	2ND/3RD OFF.
	COMMAND NAVI GATOR	MASTER 2ND OFF.	MASTER	MASTER
	HELMSMAN TALKER (1 JV) TALKER (1 JG)	AB	AB UTILITYMAN(S)	AB UTILITYMAN(S) UTILITYMAN(S)
LOOKOUTS	FORWARD (RELIEF HELMSMAN)	AB		AB
	STBD PORT AFT		AB AB AB	AB
STEERING AFT	HELMSMAN REPAI RMAN		AB ELECTRICIAN	
BRIDGE AREA	BRIDGE TO BRIDGE DISTANT LINE HANDLER		UTILITYMAN(S)	
	BRIDGE TO BRIDGE DISTANT LINE HANDLER		UTILITYMAN(S)	
	IALKER (X8J) TALKER (1 JG)		UTILITYMAN(S) UTILITYMAN(S)	

NECC WATCH & STATION BILL TAFS-1

e of

STATION				CONDITION	
IDENTIFICATION		WATCH STATION	STEAMING	UNREP	VERTREP
CARGO	CONTROL	CARGO CONTROL OFFICER		SUPPLY OFFICER	
		TALKER (X10J) RIG SUPERVISOR FWD RIG SUPERVISOR AFT UNREP SUPERVISOR, DECK MAIL/MOVIE TRANSFER		UTILITYMAN(S) BOSUN BOSUN IST OFFICER BOSUN'S MATE	
REPLENI SHMENT RI	REPAIR PARTY	IN CHARGE MACHINERY REPAIRMAN MACHINERY REPAIRMAN ELECTRICAL REPAIRMAN ELECTRICAL REPAIRMAN I.C. REPAIRMAN		3RD ENG. DECK MACH. DECK MACH. ELECTRICIAN ELECTRICIAN ELECTRICIAN	
CARGO RIG TEAM NO.	NO. 1	RIG CAPTAIN SIGNALMAN/TALKER-SHIP TO SHIP LINES/CARGO HANDLER LINES/CARGO HANDLER LINES/CARGO HANDLER LINES/CARGO HANDLER WINCH OPERATOR (X 10J) WINCH OPERATOR (X 10J)	SHIP (1)	BOSUN'S MATE AB OS OS AB AB AB AB AB	

NECC WATCH & STATION BILL TAFS-1

STATION		CONDITION	ION	
IDENTIFICATION	WATCH STATION STEA	STEAMING UNREP		VERTREP
CARGO RIG TEAM NO. 2	RIG CAPTAIN	BOSU	BOSUN'S MATE	
	SIGNALMAN/TALKER-SHIP	AB		
	TO SHIP			
	LINES/CARGO HANDLER	AB		
	LINES/CARGO HANDLER	SO		
	LINES/CARGO HANDLER	SO		
	LINES/CARGO HANDLER	SO		
	WINCH OPERATOR (X 10J)	AB		
	WINCH OPERATOR (X 10J)	AB		
	WINCH CONTROLLER (X 10J)	AB		
CARGO RIG TEAM No. 3	RIG CAPTAIN	BOSU	BOSUN'S MATE	
	SIGNALMAN/TALKER-SHIP	AB		
	TO SHIP			
	LINES/CARGO HANDLER	AB		
	LINES/CARGO HANDLER	SO		
	LINES/CARGO HANDLER	SO		
	LINES/CARGO HANDLER	SO		
	WINCH OPERATOR (X 10J)	AB		
	WINCH OPERATOR (X 10J)	AB		
	WINCH CONTROLLER (X 10J)	AB		

NECC WATCH & STATION BILL TAFS-1

J

STATION			CONDITION	
DENTIFICATION	WATCH STATION ST	STEAMING	UNREP	VERTREP
CARGO RIG TEAM NO. 4	RIG CAPTAIN		BOSUN'S MATE	
	SIGNALMAN/TALKER-SHIP		AB	
	TO SHIP		!	
	LINES/CARGO HANDLER		AB	
	LINES/CARGO HANDLER		08	
	LINES/CARGO HANDLER		SO	
	LINES/CARGO HANDLER		08	
	WINCH OPERATOR (X 10J)		AB	
	WINCH OPERATOR (X 10J)		AB	
	WINCH CONTROLLER (X 10J)		AB	
CARGO RIG I EAM NO. 3	KIG CAPTAIN		BOSUN'S MATE	
	SIGNALMAN/TALKER-SHIP		AB	
	TO SHIP			
	LINES/CARGO HANDLER		AB	
	LINES/CARGO HANDLER		SO	
	LINES/CARGO HANDLER		08	
	LINES/CARGO HANDLER		SO	
	WINCH OPERATOR (X 10J)		AB	
	WINCH OPERATOR (X 10J)		AB	
	UTNCH CONTROLLED (V 101)		40	

NECC WATCH & STATION BILL TAFS-1

STATION IDENTIFICATION	WATCH STATION	CTEAMINE	CONDITION	
		SI LATINO	UNNEP	VEKTREP
HOLD TEAM NO. 1	HOLD CAPTAIN SECURITY CARGO ISSUE CONVEYOR OPER/CHECKER CONVEYOR OPER/CHECKER		YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER	
HOLD TEAM NO. 2	HOLD CAPTAIN FORKLIFT OPER/CHECKER FORKLIFT OPER/CHECKER FLAMMABLE CARGO ISSUE/ CONVEYOR OPER.		YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER YEOMAN/STOREKEEPER	
STAGING TEAM HOLD NO. 1 & NO. 2	CARGO CONTROL SUPERVISOR FORKLIFT OPERATOR FORKLIFT OPERATOR	æ	YEOMAN/STOREKEEPER OS OS	
HOLD TEAM NO. 3	HOLD CAPTAIN FORKLIFT OPERATOR FORKLIFT OPERATOR CONVEYOR OPERATOR CARGO HANDLER CARGO HANDLER		YEOMAN/STOREKEEPER OS OS OS OS OS	
STAGING TEAM HOLD NO. 3	FORKLIFT OPERATOR FORKLIFT OPERATOR		0S 0S	
			3	

NECC WATCH & STATION BILL TAFS-1

T B

IDENTIFICATION HOLD TEAM NO. 4	101+8+0 10+8	0111011	4 4	
	WAICH STALLON	SIEAMING	UNREP	VERTREP
	HOLD CAPTAIN		YEOMAN/STOREKEEPER	
o c	SECURITY CARGO ISSUE		YEOMAN/STOREKEEPER	
0	CONVEYOR OPER/CHECKER		YEOMAN/STOREKEEPER	
0	CONVEYOR OPER/CHECKER		YEOMAN/STOREKEEPER	
ir c	FORKLIFT OPER/CHECKER FORKLIFT OPER/CHECKER		Y EOMAN/STOREKEEPER Y EOMAN/STOREK EEPER	
	WIARARA C TICH		VECKAN / CECTATIVE EN	
n	CATIATING TOOLE		VEOWAN/CTOBEVEERE	
ט מ	SECURITY CARGO ISSUE		I EUMAN/SIORENEEFER	
	CONVEYOR OPER/CHECKER		YEOMAN/STOREKEEPER	
STAGING TEAM HOLD NO. 4 & NO. 5 C	CARGO CONTROL SUPERVISOR	Ä	Y EOMAN / STOREKEEPER	
E.	FORKLIFT OPERATOR		SO	
Ŀ	FORKLIFT OPERATOR		SO	
VERTREP CARGO TEAM V	VERTREP CARGO CONTROLLER	ķ	ASS'T SUPPLY OFFICER	∝
	ELEVATOR OPERATOR (X 23J)	(1)	08	
H	ELEVATOR OPERATOR (X 23J)	(1)	08	
1.	FORKLIFT OPERATOR		SO	
ir.	FORKLIFT OPERATOR		08	
	CARGO HANDLER		S0	
	CARGO HANDLER		80	

NECC WATCH & STATION BILL TAFS-1

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
VERTREP CARGO TEAM (CONT.)	CARGO HANDLER			VFOMAN/STOREVEEDED
	CARGO HANDLER			YEOMAN/STOREKEEPER
	CARGO HANDLER			SO
	CARGO HANDLER			SO
	CARGO HANDLER			SO
	TALKER (X 10J)			UTILITYMAN(S)
VERTREP TEAM	HELICOPTER CONTROL			MIIDET
	OFFICER			
	LANDING SIGNAL CONTROLLER	ER		MILDET
	SCENE LEADER			2MD / 2mg
	CARGO HANDLER			ZND/ 3KP (1FF.
	CARGO HANDLER			30 80
	TALKER (X 10J)			MESSMAN(E)
	TALKER (X 23J)			MESSNAN (E)
	TALKER (1 JG)			MILDET
	HOTSUITMAN			MILDET
	HOTSUITMAN			MILDET
	NOZZL FMAN			AB
	NOZZLEMAN			AB
	HOS EMAN			SO
	HOSEMAN			SO
	CO2 BOTTLE HANDLER			AB
	FOG FOAM GENERATOR OPERATOR	ATOR		AB
REPLENISHMENT MEDICAL TEAM	MEDICAL TECHNICIAN ((PORT)		PURSER
		(OTTO)		NUKSE

NECC WATCH & STATION BILL TAFS-1

TE

STATION			CONDITION	
IDENTIFICATION	WATCH STATION	STEAMING	UNREP	VERTREP
ENGINE CONTROL	WATCH OFFICER	3RD/2ND ENG.	3RD ENG.	3RD ENG.
	THROTTLEMAN (1 JV) WATCH COORDINATOR BOILER CONSOLE OPERATOR F/WT SWITCHBOARD OPERATOR (5 JV)	OR F/WT	FIRST ENG. CHIEF ENG. 2ND ENG. ELECTRICIAN	F/WT
MACHINERY ROOM	UPPER LEVEL LOWER LEVEL CHECKMAN BURNERMAN PUMP OPERATOR	OILER	UTILITYMAN OILER F/WT F/WT	OILER
EMERGENCY DIESEL ROOM	OPERATOR		ELECTRICIAN	
DAMAGE CONTROL CENTER	SUPERVISOR		CARPENTER	

CIVIL SERVICE/MILDET MANNING TAFS-1 CLASS

DECK DEPARTMENT

B T

Licensed Master 1 First Officer (D) Second Officer (W) 1 Third Officer (W) 2_ Total Licensed Unlicensed Boatswain (D) 2 Carpenter (D) 2 Boatswain Mates (D) Able Seamen (W) 6 Able Seamen (Maint.) 30 Ordinary Seamen (D) 3 Total Unlicensed 49 Total Deck Department 55

CIVIL SERVICE/MILDET MANNING TAFS-1 CLASS

ENGINE DEPARTMENT

Licensed		
Chief Engineer	1	
First Ass't Eng. (D)	1	
Second Ass't Eng. (W)	1	
Third Ass't Eng. (W)	2	
Third Ass't Eng. (D)	1	
Total Licensed		6
Unlicensed		
Deck Engineer (D)	2	
Unlicensed Jr. Eng. (W)	3	
Electrician (D)	1	
Refrigeration Eng. (D)	3	
Machinist (D)	1	
Yeoman/Storekeeper (D)	1	
2nd Electrician (D)	2	
Engine Utilityman (D)	3	
Oiler (W)	3	
Refrigeration Oiler (W)	3	
Fireman/Water Tender (W)	3	
Wiper (D)	_3_	
Total Unlicensed		<u>28</u>
Total Engine Department		34

CIVIL SERVICE/MILDET MANNING TAFS-1 CLASS

STEWARDS DEPARTMENT		
Chief Steward	1	
Third Steward	1	
Chief Cook	1	
Cook/Baker	2	
Third Cook	1	
Messman	6	
Utilityman	12	
Third Pantryman	1	
Laundryman	1	
Ass't Laundryman	1_	
Total Stewards Department		27
PURSER/MEDICAL DEPARTMENT		
Purser	1	
Nurse	1	
Total Purser Department		2
SUPPLY DEPARTMENT		
Supply Officer	1	
Ass't Supply Officer	1	
Yeomen/Storekeepers	_5_	
Total Supply Department Total Ship Complement		$\frac{7}{125}$

CIVIL SERVICE/MILDET MANNING TAFS-1 CLASS

MILDET

	05	03	02	E7	E6	E5	E4	E 3		TOTAL
Communications		1		1.	3	5	10		=	20
Supply	_1_	2	1	 1	5	4		4	-	18
	1	3	1	2	8	9	10		-	38

APPENDIX C

TAD-37 CIVILIAN MANNING-OPERATING CREW

NECC-WATCH AND STATION BILL-PROPOSED MSC CREW

NECC MANNING TAE-37 CLASS

DECK DEPARTMENT Licensed Master 1 First Officer (D) 1 Second Officer (W) Third Officer (W) 2 Total Licensed Unlicensed Boatswain (D) 1 Carpenter (D) Boatswain's Mate (D) 1 Able Seamen (W) 6 Able Seamen (D) 13 Cidinary Seamen (D) 3 Yeoman/Storekeeper 1 Total Unlicensed 26

31

7 7

Total Deck Department

NECC MANNING TAD-37 CLASS

ENGINE DEPARTMENT

Licensed Chief Engineer (D) 1 First Ass't Eng. (D) Second Ass't Eng. (D) Third Ass't Eng. (D) Third Ass't Eng. (W) Total Licensed Unlicensed Electrician (D) 1 Second Electrician (D) 3 Jr. Engineers (D) Refrigeration Engineer (D) Plumber/Machinist (D) Oilers (W) 3 Oilers (Evaporators) (W) 3 Firemen/Watertender (W) 3 Wipers (D) 3 Utilitymen (D) 6 Total Unlicensed 26 Total Engine Department 33

NECC MANNING TAD-37 CLASS

STEWARDS DEPARTMENT Chief Steward 1 Second Steward Third Steward Chief Cook Cook/Baker Second Cook 4 Third Cook 6 Messmen 22 Utilitymen 50 Laundryman Foreman 1 Laund ryman Ass't Laundryman Yeoman/Storekeeper 1 Total Stewards Department 99 PURSER DEPARTMENT Purser 1 Jr. Purser 1 Total Purser Department 2 Total Civilian Crew 165

NECC MANNING TAD-37 CLASS

MILDET

	05	04	03	W2	E8	E7	E 6	E 5	E4	E 3		TOTAL
Communications			1				4	4	6	3	=	18
Medical		1	2		1		2	2	4	3	=	15
Dental	1	1	2				1	1	1	2	=	9
Ordinance			1	1		1	3	4	4		-	14
	1	2	6	1	1	1	10	11	15	8		56

NECC WATCH & STATION BILL TAD-37

CE

STATION IDENTIFICATION	WATCH STATION	STEAMING	INPORT	
PILOT HOUSE	COMMAND WATCH OFFICER HELMSNAN NAVIGATOR	MASTER 2ND/3RD OFF. AB 2ND OFF.	2ND/3RD OFF. (NOTE 1)	1
LOOKOUTS	FORWARD-RELIEF HELMSMAN	AB		
STEERING AFT (RESTRICTED WATERS)	HELMSMAN REPAIRMAN	AB ELECTRICIAN		
ENCINE ROOM	WATCH OFFICER	3RD/2ND ENG.	3RD/2ND ENG. (NOTE 1)	E 1)
	THROTTLEMAN LOWER LEVEL	WATCH OFF. OILER	OILER	
FIRE ROOM	BOILER CONTROL	F/WT	F/WT	
EVAPORATOR ROOM	OPERATOR	OILER	OILER	
DIESEL GEN. ROC. (RESTRICTED WATERS)	OPERATOR	ELECTRICIAN		

These licensed officers are assigned a day or night duty supervisor's watch when the ship is not steaming. NOTE 1

DECK DEPARTMENT Licensed Master 1 First Officer (D) Second Officer (W) 1 Third Officer (W) 2 5 Total Licensed Unlicensed Boatswain (D) Carpenter (D) Yeoman/Storekeeper (D) Able Seaman (W) Able Seaman (Maint.) (D) _3 Ordinary Seaman (D) 21 Total Unlicensed

26

Total Deck Department

ENGINE DEPARTMENT Licensed Chief Engineer 1 First Ass't Eng. (D) Second Ass't Eng. (W) Third Ass't Eng. (W) Licensed Jr. Eng. (D) Total Licensed 7 Unlicensed 1 Electrician Refrigeration Eng. (D) Plumber/Machinist (D) Yeoman/Storekeeper (D) 1 2nd Electrician (D) 2 Engine Utilityman (D) Oiler (W) Fireman/Water Tender (W) Wiper (D) Total Unlicensed 19 26 Total Engine Department

7 7

STEWARDS DEPARTMENT		
Chief Steward	1	
Second Steward	1	
Third Steward	3	
Chief Cook	1	
Yeoman/Storekeeper	1	
Cook/Baker	4	
Second Cook	4	
Third Cook	6	
Messman	22	
Utilityman	50_	
Total Stewards Department		93
PURSER DEPARTMENT		
Purser	1	
Jr. Purser	1	
Total Purser Department		_2_
Total MSC Manning		147
BOAT AUGMENTATION		
Unlicensed Eng.	2	
Engine Utilityman	2	
2nd Electrician	1	
Boatswain Mate	1	
Able Seaman	4	
Total Boat Augmentation Total MSC Manning (Augmented)		10 157

MILDET

	05	04	03	W2	E8	E7	E6	ES	E4	E 3		TOTAL
Communications			1				4	4	6	3	=	18
Medical		1	2		1		2	2	4	3	-	15
Dental	1	1	2				1	1	1	2	-	9
Ordinance			1	1		1	3	4	4	<u> </u>		14
	1	2	6	1	1	1	10	11	15	8		56

APPENDIX D NOTIONAL MODIFIED CREWING CONCEPT SUPPORTING DOCUMENTATION

JOINT POLICY DECLARATION BY SEAFARERS INTERNATIONAL UNION OF NORTH AMERICA, ATLANTIC, GULF, LAKES AND INLAND WATERS DISTRICT, DISTRICT 2, MEBA, AND AMERICAN MARITIME OFFICERS

Recognizing the serious economic problems confronting the American Merchant Marine with consequential adverse effects upon merchant seamen employment opportunities,

Further recognizing that an American Merchant Marine manned and adequately protected with a pool of highly trained skilled seamen, possessed of modern technological expertise and its application, is most crucial to our national security and defense.

Mindful that certain economic interests both foreign and domestic have and are creating substantial damage to an American national resource, our merchant marine, through various artifices and highly questionable devices and,

Cognizant that governmental authorities responsible by oath of office, have nevertheless unfortunately, if not negligently, failed to give appropriate priority to the preservation of our maritime industry, and irreplaceable national resource.

Faced with this crisis and equally aware that certain employer maritime interests share our concerns and are prepared as we are under appropriate circumstances to attempt to remedy this present intolerable state of affairs of the American Merchant Marine,

The undersigned unions therefore, to foster the imperative needs for a resurgence of the American Merchant Marine and acting in unison are prepared and shall implement with their respective membership concurrence, as to each vessel addition to our maritime industry the following:

- 1. Joint contracts for such vessels' entire complement in accordance with applicable law, to the end of obtaining uniformity in collective bargaining agreements with resulting beneficial labor relations administration, cost efficiency and negating jurisdictional disputes and rivalry.
- 2. Interrelation of training and upgrading programs so as to obtain with cost efficiency, seamen licensed and unlicensed, possessed of the skills and knowledge to implement with expertise, present and future maritime technology and thus to realize maximum efficiency with sound fiscal effectiveness.
- 3. Provide for interrelation, through reciprocal and like agreements, multiple beneficial funds to enable the employment and retention of skilled personnel by affording them the opportunity to preserve the continuity of their employment service and to be employed wherever qualified to work aboard the vessel.
- 4. Provide for complement manning efficiency consistent with the health, welfare and safety of the crew, the seaworthy maintenance of the vessel and applicable legal requirements.
- 5. Provide for coordinated legislative and political efforts in the manner legally prescribed, to the end of fostering the welfare of the American Merchant Marine and the support of elected officials and persons who recognize the critical importance of our industry as an economic and national defense resource.
- 6. Confer and consult regularly with our nation's military officials, charged with the responsibility for the administration of our Armed Forces, particularly the American Merchant Marine

as an auxiliary thereto, and thus make available appropriate input as to our civilian skilled employment resource pool and its deployment.

SEAFARERS INTERNATIONAL UNION OF NORTH AMERICA, ATLANTIC, GULF AND INLAND WATERS DISTRICT BY:

DISTRICT 2, MEBA-AMO BY:

Dated: March 30 , 1982

APPENDIX E

AD-37 CONVERSION
M. ROSENBLATT & SON, INC.

AD 37 CONVERSION
May 5, 1982

PREPARED BY:

M. ROSENBLATT & SON, INC. ARLINGTON, VIRGINIA

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70

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1.0 INTRODUCTION

The AD 37 is a destroyer tender with accommodations for 120 officers, 183 CPO's, and 1490 crew. Accommodations are also provided for 5 flag officers and 9 transient officers.

This report discusses the conversion of the AD 37 to a civilian operated ship relative to the following spaces:

- a. Officers quarters, sanitary spaces, and lounge facilities
- Chief Petty Officer (CPO) living spaces, sanitary spaces, and lounge facilities
- c. Crew living, sanitary, and recreation spaces
- d. Food service and messing facilities
- e. Laundry and drycleaning facilities
- f. Medical and dental facilities
- q. Barber Shop
- h. Ship Store
- i. Physical fitness facility

In order to accommodate the ship operators in accordance with MSC requirements, certain compartments were removed from the ship. A list of these compartments is provided in Appendix A.

Section 2.0 identifies general operations and habitability design requirements. The design approach is outlined in Section 3.0. Specific facility requirements and design solutions are presented in Section 4.0 for the spaces delineated above.

The estimated cost for this conversion is provided in Appendix B.

2.0 DESIGN REQUIREMENTS

This section summarizes the conversion design requirements for human support facilities in terms of operations and accommodations.

2.1 OPERATIONAL REQUIREMENTS

Two categories of civilian personnel and military detachment are to be provided accommodations. The basic requirements for accommodating these personnel are as follows:

- a. Ship Operators: These civilians are to be provided with accommodations in accordance with the accommodation standards for ex-navy vessels, COMSCINST 9330.6C of 30 April 1981.
- b. Support Personnel: Under normal operations, these civilians will be accommodated off the ship. In an emergency, when support personnel must deploy with the ship, they are to be quartered in existing accommodations.
- c. Navy Detachments: Navy personnel will be assigned to operate the ships communications systems, provide medical and dental care, and maintain ordnance security, and will be quartered in existing accommodations. Space did not permit accommodating the permanently embarked military detachment in accommodations equal to those provided for ship operators as required by COMSCINST 9330.6C.

Number of Assembletions

2.2 ACCOMMODATIONS

The prescribed number and distribution of accommodations is shown in Tables 1 and 2.

Table !
CIVILIAN PERSONNEL ACCOMMODATIONS

Cotonomias of Borronnol	, r	IUMBET OF ACCOMMO	aat ions
Categories of Personnel	OFFICERS	CPO	CREW
Ship operators	18	4	138
Support crew	19	118	977
Totals - Civilian Personnel	37	122	1115

Table 2

NAVY PERSONNEL ACCOMMODATIONS

Number of Accommodations

	OFFICERS	CPO	CREW
Communications	1	1	24
Medical/Dental	6	2	20
Ordnance Security	2	ī	11
Totals - Navy Personnel	9	4	55

2.3 STANDARDS

Quarters for ship personnel shall be in accordance with COMSCINST 9330.6C of 30 April 1981. Support personnel and the Navy detachment are quartered in existing accommodations. (The existing accommodations were designed to OPNAVINST 9330.5 habitability standards).

3.0 DESIGN APPROACH

The design approach included two basic steps:

- a. Identify Requirements: The standards mentioned in Section 2.0 were examined and all applicable requirements for each space were identified.
- b. Validate Solutions: Proposed solutions were reviewed by design personnel having cognizance. Inputs from these sources were incorporated into the final solutions. This design effort verified that the solutions presented herein can be obtained within the area allocated for habitability in the AD 37 Booklet of General Plans, AD 37-845-1905504, dated 28 September 1967, Rev. 6, dated 12 February 1980.

4.0 DESIGN SOLUTIONS

This section provides the design solutions covering each space. The requirements are stated and the source of each requirement is identified. Each design solution is then explained and further illustrated by a drawing.

4.1.1 Requirements for Ship Operators (MSC)

4.1.1.1 Master and Chief Engineer

- a. Provide stateroom with an air port and sanitary and office facilities.
- b. Gross area in stateroom: 200 sq. ft.
- c. Gross area in office: 275 sq. ft.
- d. Provide a private bath.

- 4.1.1.2 First Officer, First Assistant Engineer, Purser, and Chief Steward
 - Provide stateroom with an air port and sanitary and office facilities.
 - b. Provide private bath
 - c. Gross area in stateroom: 140 sq. ft.
 - d. Gross area in office: 165 sq. ft.
- 4.1.1.3 Junior Officers

Accommodate 12 junior officers (including 4 spares) by providing for each:

- a. Single stateroom with an air port and private sanitary facilities.
- b. Gross area in stateroom and bath: 130 sq. ft.
- 4.1.2 Requirements for Support Personnel (Ground Rules)
- 4.1.2.1 Department Heads

Accommodate 3 department heads by providing for each:

- a. Department head accommodations with lavatory facility.
- b. Community toilet and shower facilities.
- 4.1.2.2 Junior Officers

Accommodate 16 junior officers by providing:

- a. Double stateroom accommodations with lavatory facility.
- b. Community toilet and shower facilities.
- 4.1.3 Requirements for Navy Personnel (Ground Rules)
- 4.1.3.1 Department Heads

Accommodate 3 department heads by providing for each:

- a. Department head accommodations with lavatory facility.
- b. Community toilet and shower facilities.

4.1.3.2 Junior Officers

Accommodate 6 junior officers by providing:

- a. Double stateroom accommodations with lavatory facility.
- b. Community toilet and shower facilities.

4.1.4 Design Solution

Space allocations within the superstructure permit quartering all of the officers on the 01, 02 and 03 levels, Figures 1, 2 and 3. The officers quarters were arranged so that each ship officer was provided with a fixed light in his stateroom. Air ports are not provided because the fixed lights already exist. The staterooms and offices for ship operators are outfitted in accordance with COMSCINST 9330.6C of 30 April 1981. Support personnel and Navy personnel are quartered in existing facilities that are appropriate to the rank of officer involved. Two existing department head staterooms on the 02 were left unassigned. Also left unassigned was a three-man transient officer bunkroom and a double stateroom on the 01 level.

The ships master, chief engineer, first officer and first assistant engineer are quartered on the 02 level. The purser and the chief steward are quartered forward on the 01 level. Ship junior officers are quartered on the 01, 02 and 03 levels. Accommodations for support and Navy detachment department heads are provided on the 02 level. Support and Navy junior officers are quartered on the 01 and 03 levels.

The master, chief engineer, first officer, first assistant engineer, purser and chief steward are quartered in complexes consisting of a stateroom, bath and office (Figures 4 and 5). The ships junior officers are quartered in single staterooms with private baths (Figure 6). Accommodations for support and Navy detachment department heads are existing single staterooms with lavatory facilities (Figure 7a). Support and Navy detachment junior officer accommodations are existing double staterooms with lavatory facilities (Figure 7b). Support and Navy officers, unless provided with private baths, will use existing community sanitary facilities.

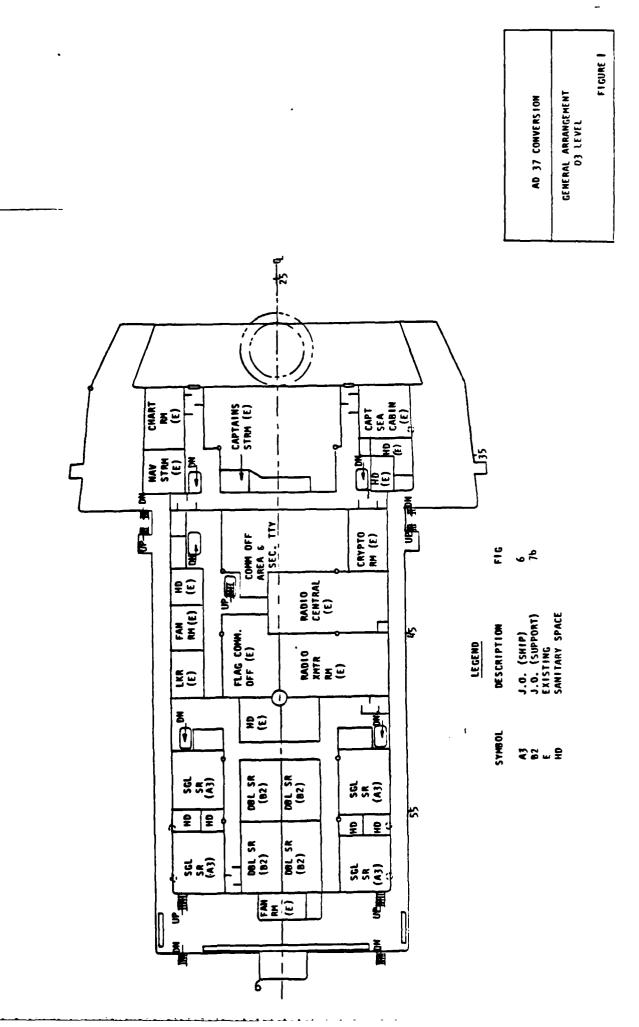
The existing wardroom lounge, which is located between frames 17 and 26 on the main deck, will be used by the officers for lounging and recreation activities.

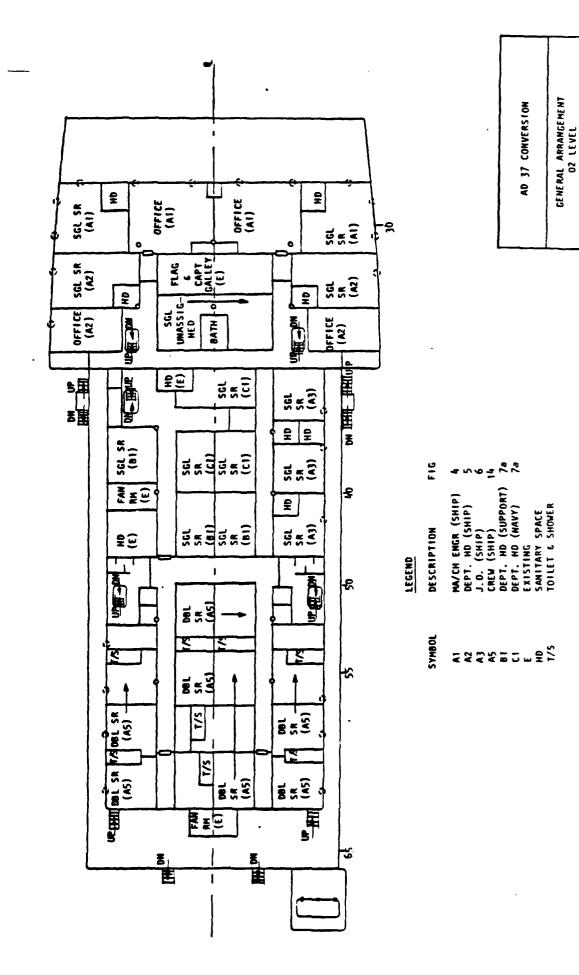
All existing living, sanitary and recreation facilities that are to be used by support and Navy personnel will remain intact, without modification to bulkheading, deck covering, furniture and the like.

- 4.2 CPO LIVING SPACES, SANITARY SPACE, AND RECREATION FACILITIES
- 4.2.1 Requirements for Ship Operators (MSC)

Accommodate 4 CPO's by providing:

- a. Single stateroom accommodations with lavatory facilities and semi-private toilet and showers.
- b. Gross deck area within stateroom: 102 sq. ft.

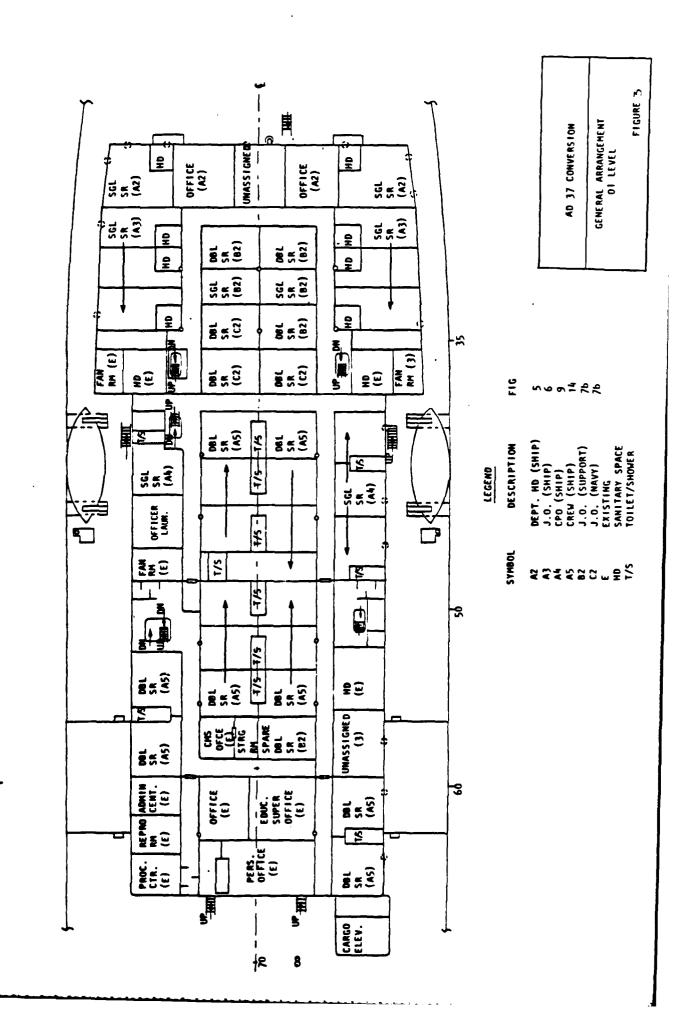




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FIGURE 2

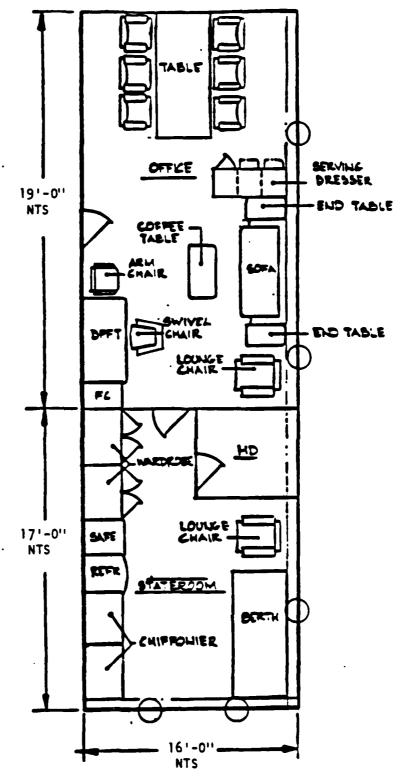
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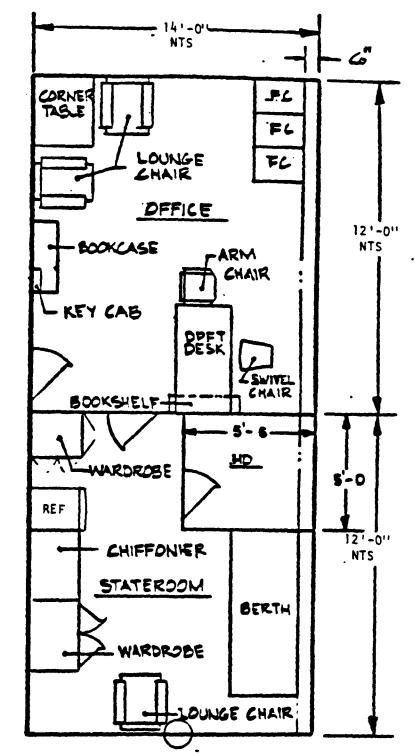
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OB

MASTER/CHIEF ENGINEER
STATEROOM & OFFICE
FIGURE 4:



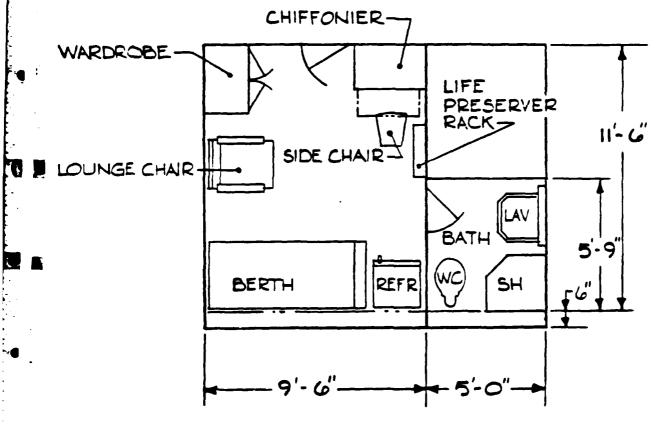
CE

TO P

AREA - SR. 140 SQ. FT. OFF = 168 SQ. FT.

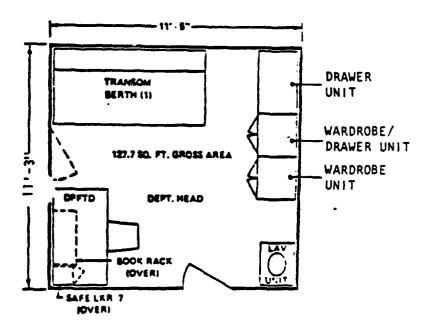
FIRST OFFICER/FIRST ASST ENGR/PURSER/ CH STEWARD STATEROOM WITH OFFICE L" = 1'-0

FIGURE 5



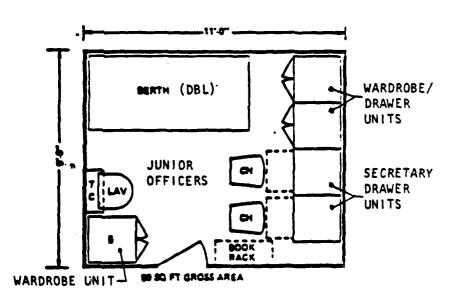
UE

AREA: 109 SQFT
JUNIOR OFFICER
SINGLE STATEROOM
1/4"=1'-0"
FIGURE 6



SINGLE STATEROOM

FIGURE 7a



DOUBLE STATEROOM

FIGURE 76

EXISTING DEPT HD & J.O. STATEROOMS FIGURES 7a & 7b

4.2.2 Requirements for Support Personnel (Ground Rules)

Accommodate 118 CPO's by providing:

- a. One berth per accommodation in 3-high berth tiers.
- b. Stowage for personal effects.
- c. Community sanitary facilities.

4.2.3 Requirements for Navy Detachment (Ground Rules)

Accommodate 4 CPO's by providing:

- a. One berth per accommodation in 3-high berth tiers.
- b. Stowage for personal effects.
- c. Community sanitary facilities.

4.2.4 Design Solution

The berthing, sanitary and recreation spaces of CPO's are located on the 2nd deck and 01 level (Figures 3 and 8). The quarters of ship CPO's are outfitted in accordance with COMSCINST 9330.6C of 30 April 1981. The furnishings for Navy and support CPO's are existing.

Ship CPO's are quartered on the Oi level in single state-rooms with lavatories and semi-private toilet and showers as shown in Figure 9. Support and Navy CPO's are quartered in existing CPO living spaces with adjacent sanitary facilities on the 2nd deck. The support and Navy CPO's are provided 3-high berth tiers and stowage space for hanging long and short garments and personal effects (Figure 10).

The existing CPO lounge, compartment 2-28-0-L, is provided the CPO's for lounge and recreation activities (Figure 10).

Modifications are not anticipated to existing spaces that are assigned to Navy and support CPO's.

4.3 CREW LIVING, RECREATION AND SANITARY SPACES

4.3.1 Requirements for Ship Operators (MSC)

Accommodate 138 crew by providing:

- a. One berth per accommodation in 2-man staterooms with lavatory facilities.
- b. Semi-private toilet and showers.
- c. Gross area within staterooms: 108 sq. ft.

LEGEND DESCRIPTION FIG	CREW (SHIP) 14 CPO (SUPPORT) 10 EXISTING SANITARY SPACE TOILET & SHOWER CPO (NAVY) 10		
SYMBOL 83 83 17/5 17/5 C3			
(81) (36) (36) (40) (36) (40) (40)	CPO LIVING (24) CPO (83) (E) SHOP (E) S		
CPO LIVING (21) HD (E) (E) (C3) C3) C3 C4 (E)	CPO LIVING (51) (83) (10) (10) (10) (10) (10)		
FAN NN E R DIV OFCE CPO FAN (E) STRM RM (E) (E) (E) EQUIP O	S S S S S S S S S S S S S S S S S S S		
ENTERT EQUIP (E)	2		

7 E

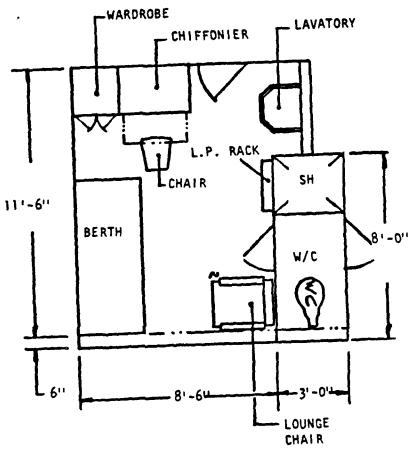
TOP

NOTE: THERE ARE 10 EXTRA CPO BERTHS

FIGURE 8

GENERAL ARRANGEMENT 2ND DECK

AD 37 CONVERSION

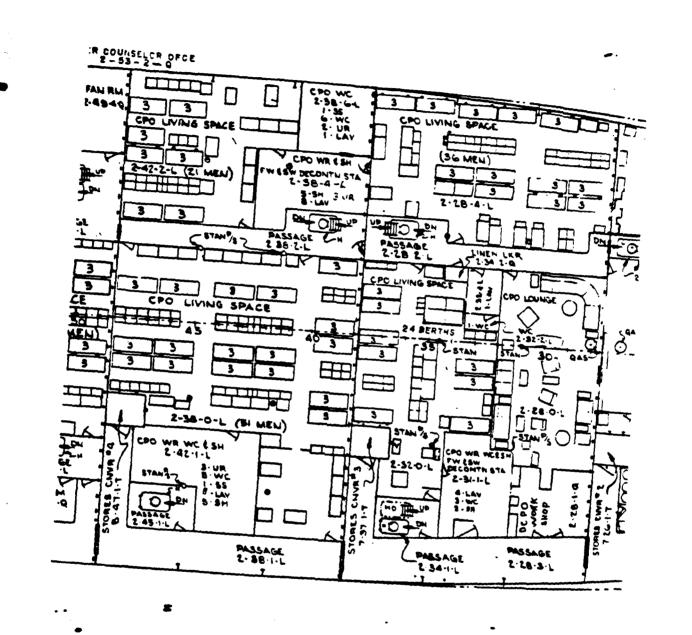


AREA - 102 SQ. FT.

TO

SHIP CPO STATEROOM 1/4" = 1'-0"

FIGURE 9



NAVY/SUPPORT CPO LIVING SPACES 2ND DECK

FIGURE 10

4.3.2 Requirements for Support Personnel (Ground Rules)

Accommodate 977 crew by providing:

- a. One berth per accommodation in 3-high berth tiers.
- b. Stowage for personal effects.
- c. Community sanitary facilities.

4.3.3 Requirements for Navy Detachment (Ground Rules)

Accommodate 55 crew by providing:

- a. One berth per accommodation in 3-high berth tiers.
- b. Stowage for personal effects.
- c. Community sanitary facilities.

4.3.4 Design Solution

Crew berthing, sanitary and recreation spaces are located on the 01 and 02 levels, 2nd, 3rd and 4th decks and first platform (Figures 2, 3, 11, 12, and 13). The quarters of ships crew are outfitted in accordance with COMSCINST 9330.6C of 30 April 1981. The furnishings for Navy and support crew quarters are existing.

Ship crew members are quartered on the 01 and 02 levels, and on the 2nd and 3rd decks in 2-man stateroom with lavatories and semi-private toilet and shower facilities as illustrated in Figure 14. The support crew are quartered in existing berthing spaces with adjacent sanitary facilities on the 4th deck and first platform. Navy crew members are quartered in an existing crew compartment located on the 3rd deck (Figure 11). The quarters for support and Navy crew are furnished with 3-high berth tiers, and lockers for stowing short hanging garments and personal effects (Figures 12 and 13).

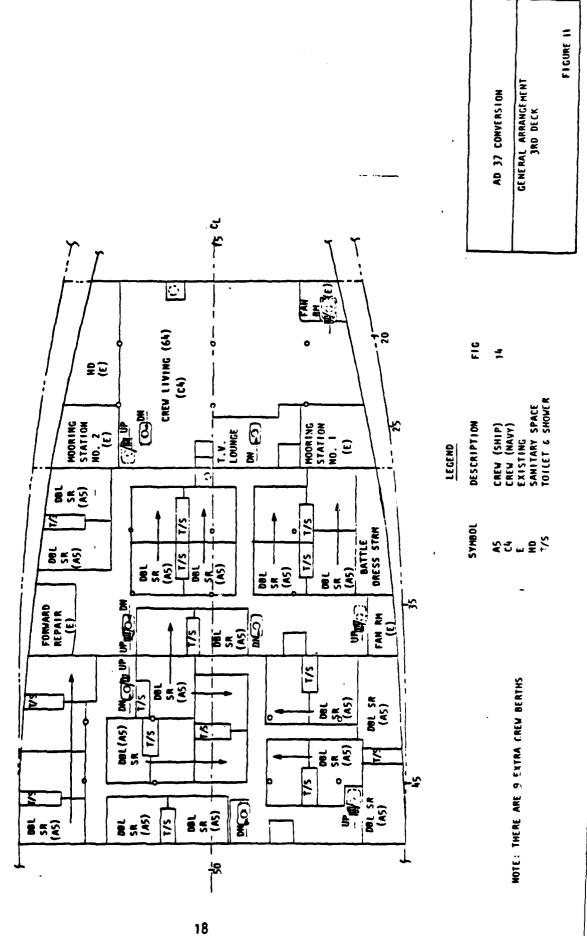
An existing crew recreation room, compartment 4-70-0-L, with adjacent crew library, compartment 4-70-1-L, is provided for the crew (Figure 12).

Modifications to the existing berthing, sanitary and recreation facilities which are assigned to support and flag personnel are not required.

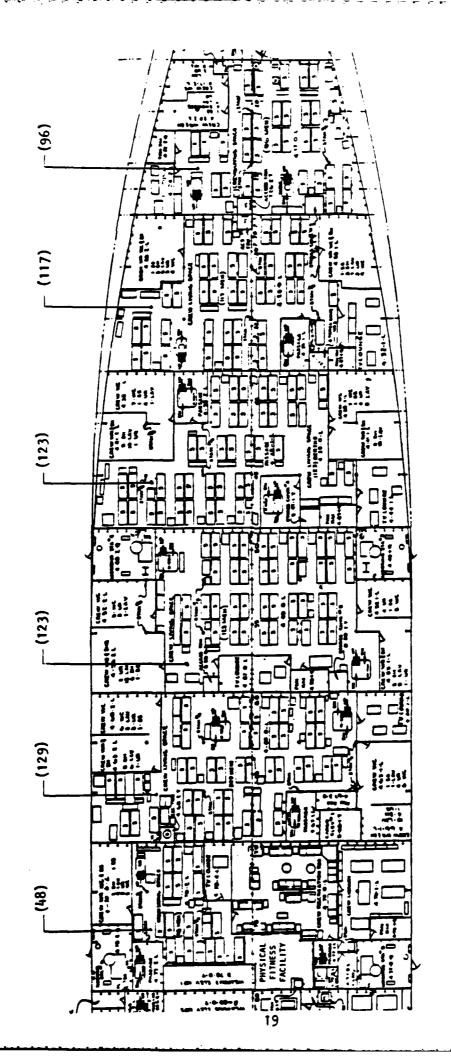
4.4 FOOD SERVICE FACILITIES

4.4.1 Requirements (Ground Rules)

- Provide cafeteria style service for all ship and military personnel.
- b. Provide food service for support personnel when such personnel must deploy with the ship.

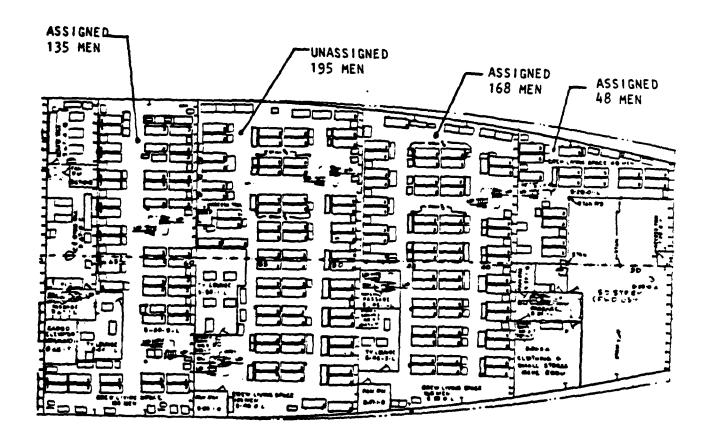


CF



to e

636 MEN ASSIGNED SUPPORT CREW LIVING SPACES 4TH DECK ~ 1/16"=1'-0"



351 MEN ASSIGNED

SUPPORT CREW LIVING SPACES
1ST PLATFORM - 1/16" = 1'-0"

FIGURE 13

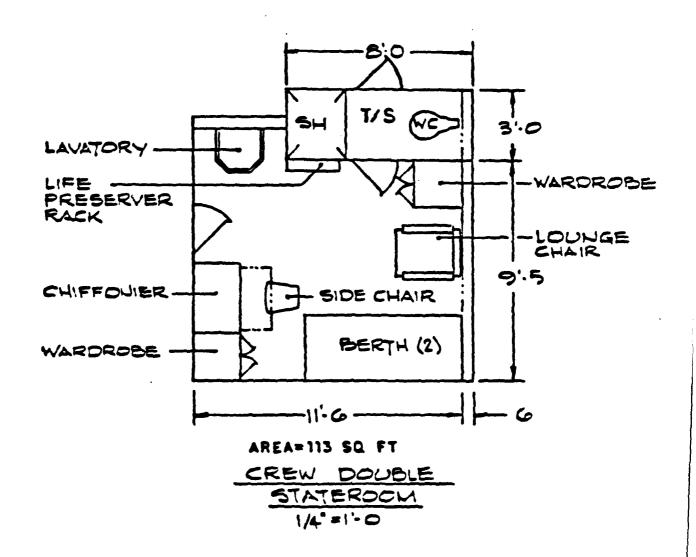


FIGURE 14

- c. Ship and military personnel to share dining facilities.
- d. Provide separate dining areas for officers, CPO's and crew.
- e. The number of seats in the ship and Navy officers dining area shall be 100 percent of ship's officers. This translates into a requirement for 27 seats.
- f. The number of seats in the ship and Navy CPO dining area shall be 60 percent of ship CPO's. 5 seats shall be provided the ship CPO's.
- g. The number of seats in the ship and Navy crew dining area shall be 60 percent of ship crew. This translates into a requirement for 116 seats.
- h. Utilize existing food service equipment and furnishings.

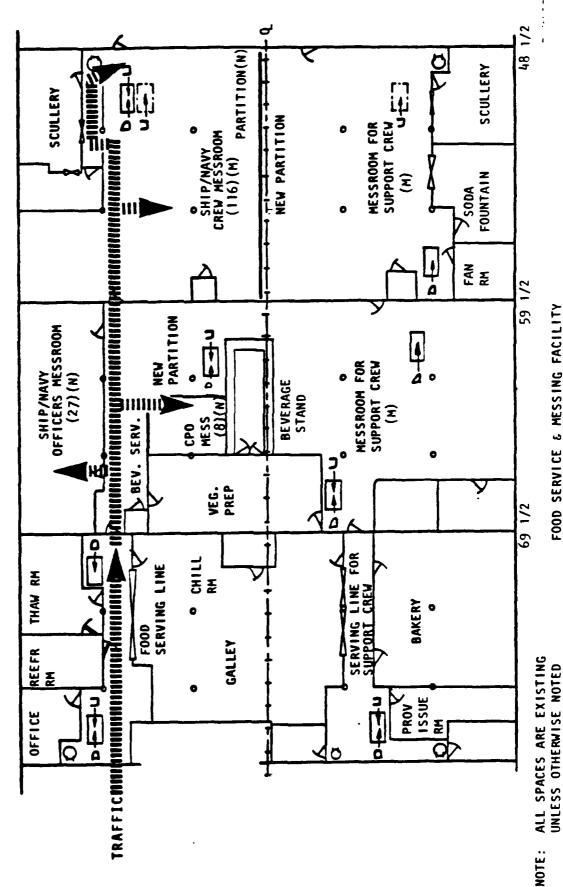
4.4.2 Design Solution

The AD 37 is capable of preparing and seiling breakfast, lunch, and dinner to 1800 officers, CPO's and crew in a two-hour period. Meals for officers are prepared in a wardroom galley on the main deck and served traditional style by messmen specialist in an adjacent 66 seat messroom. Meals for CPO's are prepared in a CPO galley on the 2nd deck and receive sit-down service similar to the officers in an adjacent 76 seat messroom. The crew are served cafeteria style and dine in a 400 seat (approximate) messroom on the 3rd deck. Also, food service facilities are provided to the flag officers on the 02 level.

After review of the AD 37 food service systems and messing facilities it was determined that the existing crew food service complex located on the third deck between frames 49 and 70 (Figure 15) will provide the necessary equipment and area required to feed the 160 ship operators and 68 Navy personnel.

The food service system selected will require minimal alterations to the existing food service facilities. Ship and Navy personnel pick up their meal, cafeteria style, at the port side serving window of the crew galley (3-70-01-Q) and proceed to existing beverage equipment that was relocated for their convenience. Messrooms are provided for officers, CPO's, and crew as follows:

a. The existing first class messroom, 3-60-2-L, and the mess deck office, 3-68-2-Q, will be used for the officers. New 4-man tables, chairs and a serving dresser with coffee maker, toaster, refrigerator and flake ice/water dispenser are provided. Seating for 28 officers is provided.



į

- MANIFIED

AS FOLLOWS:
(N) - NEW

FOOD SERVICE & MESSING FACILITY 1.0-,1 MAIN DECK - 1/16" =

FIGURE 15

23

- b. New partitions will be installed to provide an area within the existing crew messroom for seating 8 CPO's. New tables and chairs are provided.
- c. A new partition will be constructed along the ship's centerline extending from frame 48 1/2 to 59 1/2 and the first class lounge, 3-58-2-L, removed to provide a 116 seat crew messing area. New tables, chairs and serving dresser with coffee maker, toaster, refrigerator and flake ice/water dispenser are provided.

The existing port side crew scullery will be used by all personnel. No change to the existing compartmentation or access is required.

When support personnel deploy with the ship, all of the CPO's and crew members will use the 3rd deck food service and messing facilities. Meals for officers will be prepared in the existing wardroom galley, and served traditional style in the existing wardroom messroom (Figure 16). The existing CPO galley and messroom (Figure 17) should not be needed when the ship is operated by MSC personnel.

4.5 DRY, FROZEN AND CHILL STOREROOMS

Refrigerator, Thaw, Chill and Dry Provision Issue Rooms are located near the crew galley as shown in Figure 15. Additional Freeze, Chill and Dry Provision Storerooms are located on the 2nd and 3rd platform and in the hold. These facilities should not require modification unless a reduction in capacity is desired.

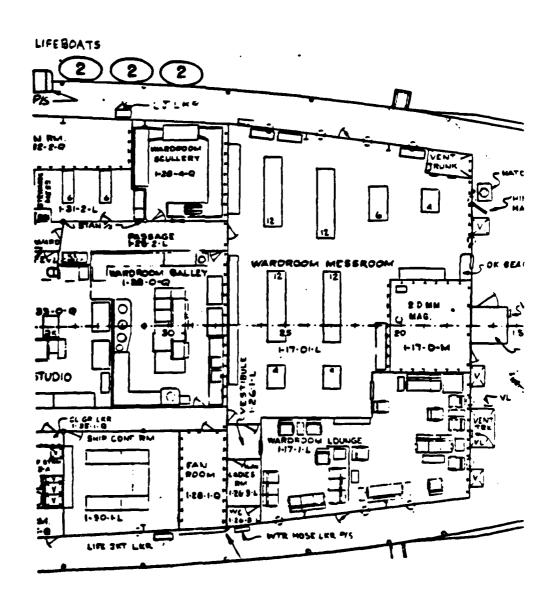
4.6 MEDICAL AND DENTAL FACILITIES

The medical and dental facilities existing in the AD 37 (Figure 18) will provide the ship operators, support personnel, and Navy detachment with the necessary medical and dental care. Modifications should not be required.

4.7 LAUNDRY FACILITIES

The ship operators and the military detachment will share self-service laundry facilities. The officers self-service laundry is located on the 01 level and equipped with commercial washers and dryers, sorting table, laundry tub, ironing boards and irons as shown in Figure 19. The crew self-service laundry is located on the 2nd deck and also equipped with commercial washers and dryers, sorting table, laundry tubs, ironing boards and irons as shown in Figure 20.

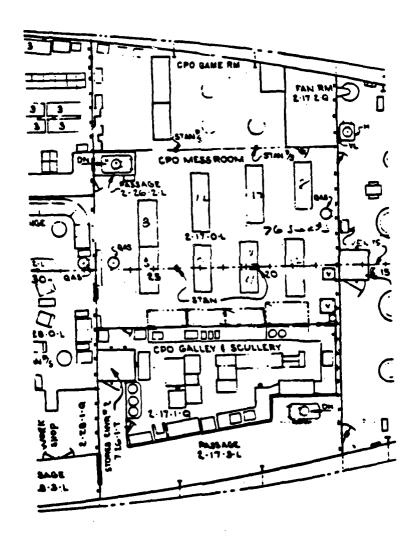
The existing ships laundry compartment, 4-80-01-Q, will provide laundry service for the support personnel. Although dry cleaning may not be required, a dry cleaning shop, compartment 4-80-0-Q, exists near the ship's laundry. The ship's laundry and dry cleaning shop are located on the 4th deck and equipped with industrial type laundering and dry cleaning equipment as shown in Figure 21. Modifications to the existing ships laundry is not required in this report.



MAIN DECK WARDROOM GALLEY & MESSROOM

OE

FIGURE 16

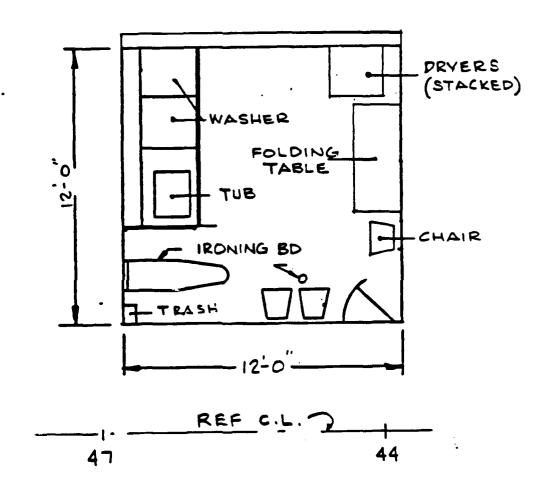


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2ND DECK CPO MESSROOM & GALLEY

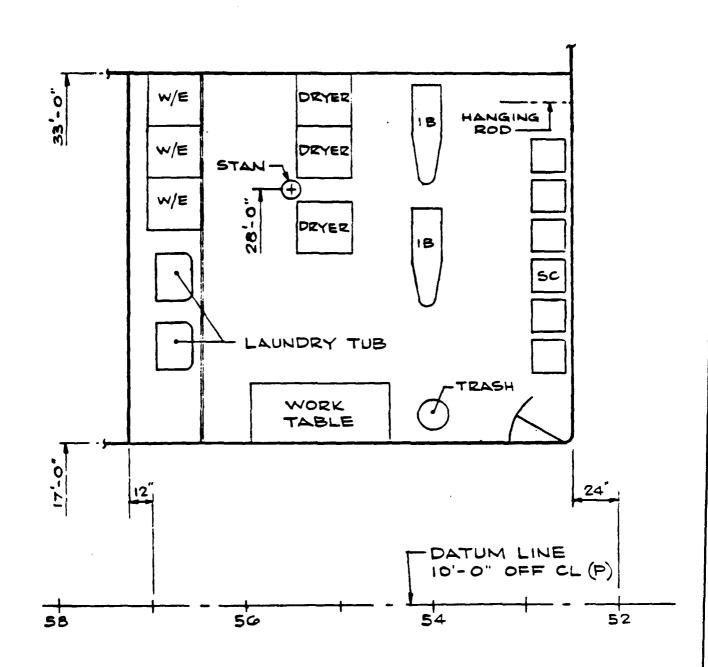
FIGURE 17

MAIN DECK MEDICAL & DENTAL DEPARTMENT



7 D

AREA = 144 SQ. FT.
OFFICER LAUNDRY - 01 LEVEL
FIGURE 19

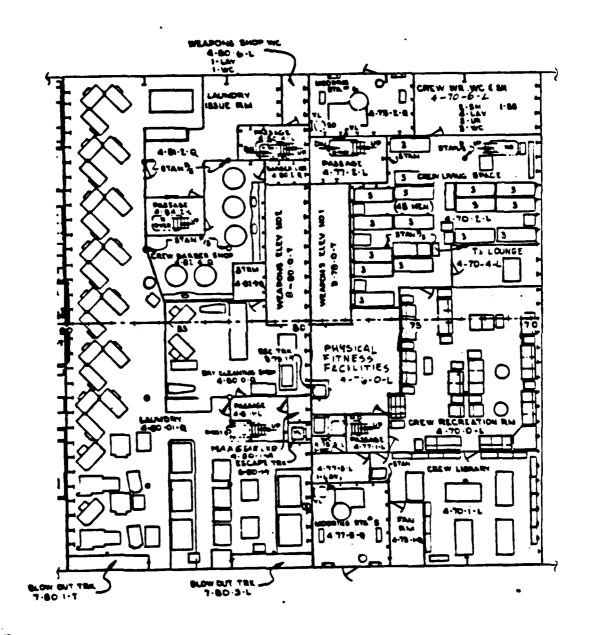


CREW LAUNDRY~ 2ND DK

AREA = 304 SQ FT

SCALE 1/4" = 1'-0"

FIGURE 20



E =EXISTING N =NEW

> LAUNDRY (E), BARBER SHOP (E), & PHYSICAL FITNESS FACILITIES (N) 4TH DECK FIGURE 21

4.8 BARBER SHOP

75

An existing 5-chair barber shop will provide the ship operators, military detachment and support personnel with the required barbering facilities. The barber shop is located adjacent to the existing laundry on the 4th deck (Figure 21). Modifications to this facility is not proposed in this report.

4.9 SHIP STORE

A walk-in ships store exists on the 3rd deck just aft of the crew galley (3-65-0-Q). This facility should be adequate; therefore, modifications are not considered.

4.10 PHYSICAL FITNESS FACILITY -

A dedicated physical fitness facility does not exist on the AD 37. To conform with MSC standards a new 258 sq. ft. physical fitness facility is provided for the ship operators. The facility is equipped with the latest equipment and is intended to be used by all personnel (Figure 22). The physical fitness facility is located on the 4th deck as shown in Figure 21.

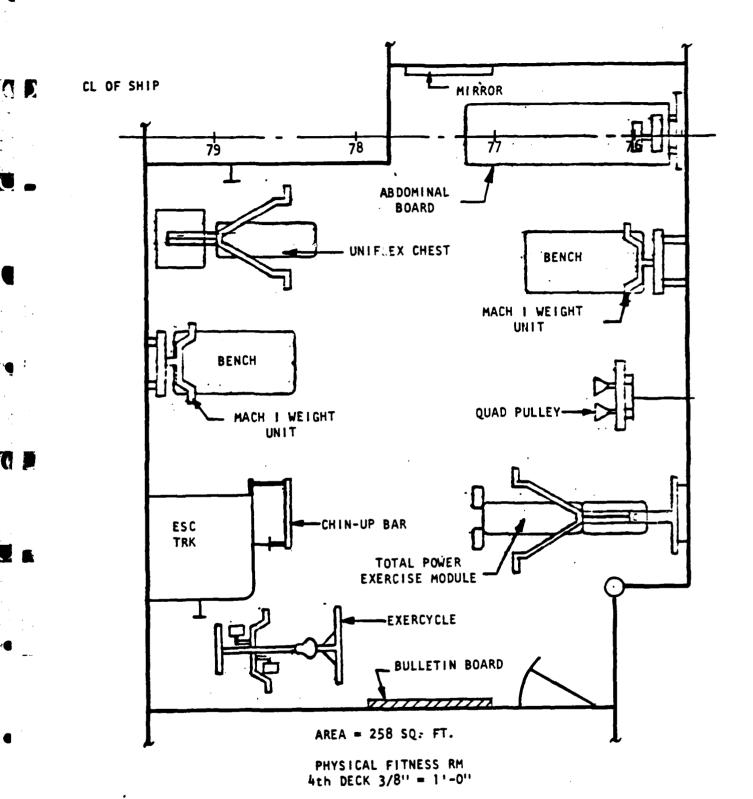


FIGURE 22

APPENDIX A

AD 37 CONVERSION

SPACES REMOVED FROM SHIP

SPACE	COMPT NO.	
FLAG QUARTERS		02 LVL
LEGAL OFFICE	01-53-2-Q	O1 LVL
ADMIN OFFICE	01-57-6-Q	OI LVL
S-5 OFFICE	01-49-2-L	O1 LVL
WEAPONS OFFICE	01-51-2-Q	O1 LVL
SENIOR WATCH OFFICE	01-55-2-0	O1 LVL
SHIP ENTERTAINMENT	2-52-2-A	2ND DK
EQUIP RM		
SD STRM	3-38-6-A	3RD DK
SD STRM	3-38-4-A	3RD DK
E&A DIV OFFICE	3-41-2-Q	3RD DK
VENDING MACH RM	3-44-2-Q	3RD DK
FOLDING CHAIR STRM	3-44-1-A	3RD DK
CHAPLAIN OFFICE #1	4-76-0-Q	4TH DK
CHAPLAIN OFFICE #2	4-78-1-0	4TH DK
CHAPLAIN VEST	4-76-1-Q	4TH DK

APPENDIX B

AD 37 CONVERSION

COST ESTIMATE

JOINER WORK

LABOR 2,571,300 (includes 100% yard overhead)

(\$15.00/HR)

1,250,760 (Includes 5% handling) MATERIAL

SUB TOTAL 3,822,060

MECHANICAL (PIPING, HVAC & ELECT)

LABOR 223,000 (Includes 100% yard overhead)

(\$15.00/HR)

MATERIAL 89,250 (includes 5% handling)

312,250 SUB TOTAL

TOTAL JOINER &

4,134,310 MECHANICAL

PROFIT (10%) 413,431 4,547,741

GEA (15%) 682,162 5,229,903

ENGINEERING -

3600 HRS

7

108,000 **@\$30.00/HR** 5,337,903

TOTAL ESTIMATED COST OF CONVERSION = \$5,338,000.00

AD 37 CONVERSION COST ESTIMATE (IN THOUSANDS OF DOLLARS)

1. JOINER WORK

Inst	allations	Material	Labor
(a) (b) (c) (d) (e) (f) (g) (i) (jk) (m) (o)	M.J. Bulkhead = 1,990 L.F. Sheathing (Bulkhead) = 720 L.F. Sheathing (Overhead) = 5,480 Sq. Ft. Deck Tile = 17,618 Sq. Ft. Ceramic Tile = 1,961 Sq. Ft. Carpet = 1,344 Sq. Ft. Furniture (Ship Officers, CPO & Crew) Laundry Equipment Physical Fitness Equipment Food Service and Messing Equipment Joiner Doors = 162 Misc Bulkhead Mtd Equipment MJB CRES (Sanitary) = 1136 L.F. Fixed Lights Paint	133.0 32.4 43.8 70.5 4.9 4.7 580.5 5.0 5.0 93.4 97.3 2.5 113.6 1.0 3.6 \$1191.2	212.5 43.2 411.0 52.9 29.4 1.0 79.0 .9 .7 52.3 9.7 5.2 136.3 0.25 12.6 \$1046.95
(q) (r) (s) (t)	MJB = 1,080 L.F. Sheathing (Overhead) = 1,663 Sq. Ft. Sheathing (Bulkhead) = 196 L.F. Deck Covering = 20,850 Sq. Ft. Furniture & Plumbing Fixtures MJ Doors - 42		129.6 5.0 8.8 47.0 46.5 1.8 \$238.7
. MECI	HANICAL WORK		
	••	Material	Labor

2.

Installations	Material	Labor
(a) .75 Dia. Pipe = 1,840 L.F. (b) 1 1/2" Dia. Pipe = 632 L.F. (c) 3" Dia. Pipe = 805 L.F. (d) 3" Duct = 219 L.F. (e) 4" Duct = 615 L.F. (f) 6" Duct = 575 L.F. (g) 8" Duct = 1,092 L.F. (h) Electric Cable = 2,300 L.F. (i) Fans (3 provided) (j) Cooling Coils (2 provided)	8.3 5.7 14.5 1.3 4.9 6.9 17.5 6.9 8.0 11.0 \$85.0	8.3 5.7 14.5 1.3 4.9 6.9 17.5 6.9 .6 .5

AD 37 CONVERSION COST ESTIMATE (IN THOUSANDS OF DOLLARS)

Ripout & Removals	Labor
(k) 3/4" Dia. Pipe = 948 L.F. (1) 1 1/2: Dia. Pipe = 610 L.F. (m) 3" Dia. Pipe = 230 L.F. (n) 3" Duct = 60 L.F. (o) 4" Duct = 287 L.F. (p) 6" Duct = 287 L.F. (q) 8" Duct = 1,092 L.F. (r) Electric Cable = 2,300 L.F.	4.3 5.5 4.0 .4 2.3 3.4 17.5 7.0 \$44.4

APPENDIX F
UNREP SHIPS-NOTIONAL OPERATION SCHEDULES

NAVY MILITARY MANNING AE-26 CLASS EMPLOYMENT CYCLE (36 MONTHS)

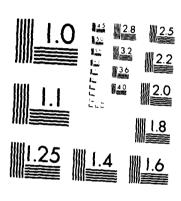
YEAR 1

CONSOLIDATE CAPO
ENROUTE
FLEET EXERCISE
LEAVE & UPREP
LOAD CARGO
OFF LOAD CARGO
OFF ROAL ON FOR OVERSEAS MOVEMENTS
PORT VISIT
REFRESHER TRAINING
RESTRICTED AVAILABILITY
REGULAR OVERHAUL FLTEX LV6UPKP LOAD OFF POM RETTAA RA RFS RO SV TDR TT

SERVICES TENDER AVAILABILITY TYPE TRAINING UPKEEP PERIOD

F-2

AD-R129 948 CIVILIAN MANNING OF AE AFS AND AD TYPE SUPPORT SHIPS:
VOLUME II APPRICES. (U) INFORMATION SPECTRUM INC
ARLINGTON VPA S SHODE ET AL. 95 APR 83
UNCLASSIFIED ISI-V-2514-82-VOL-2 N808014-79-C-8848 F/G 15/5 NL



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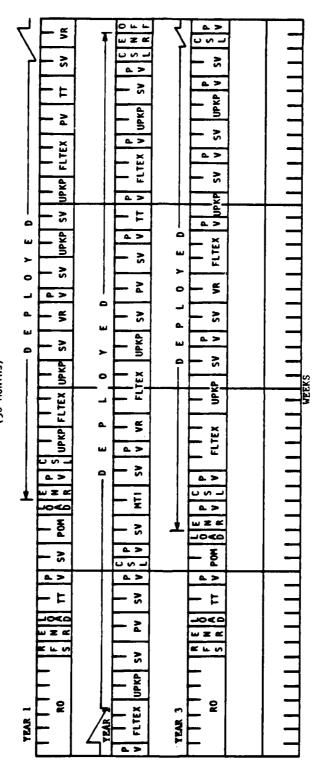
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CIVILIAN MANNING TAE-26 CLASS EMPLOYMENT CYCLE (36 MONTHS)

U



CONSOLIDATE CARGO

ENROUTE FLEET EXERCISE LOAD CARGO

OFF LOAD CARGO MIDTERM INSPECTION PREPARATION FOR OVERSEAS MOVEMENT

READY FOR SEA PERIOD REGULAR OVERHAUL PORT VISIT

SERVICES UPKEEP PERIOD VOYAGE REPAIRS TYPE TRAINING FLTEX LOAD OFF HIT POM PV RFS RO TI TI VR VR

NAVY MILITARY MANNING AFS-1 EMPLOYMENT CYCLE (36 MONTHS)

	OAD	er 1. v	TE	EX	
	TT LOAD	E		FLTEX V N V V UPKP V TOR V V ENR	
	- X T S	F&		(P S T	
	L ,	_		× ×	
	H	LV 6 P	E D -	0 Z Q >	
	 0 V E R	UP T TOR V ENR UPKP F	0 2 4 0 7 4 3 0	FLTEX	
	- 0	TOR V] P	V > 10R	
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	0 F F			ENR C V	
١.	LV 6 UPKP	0 N 0 N 0 N	 		
	S P EN	0 Y E C		TOR POM LO	
	SV	UP6 FITEN V T TOR N V V V			
	C O DPKP FLTEX V V V V V ENR UPKP F			AS L	***************************************
	UPKP F	POM O ENR V SV	<u> </u>	KP FLTEN V R UPKP T	
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YEAR	ENR V	VEAR 2	YEAR	E Z K	
7	لــــــا			1	

COMSOLIDATE CANGO
EMROUTE
FLEET EXERCISE
LEAVE & UPKEEP
LOAD CARGO
OF LOAD CARGO
PREPARATION FOR OVERSEAS MOVEMENT
PORT VISIT
REFRESHER TRAINING
RESTRICTED AVAILABILITY
READY FOR SEA PERIOD
REGULAR OVERHAUL
SERVICES
TENDER AVAILABILITY
TYPE TRAINING
UPKEEP PERIOD CON-ENR FLTEX LV6UPKP LOAD OFF POM PC REFTRA RFS RO SV TDR TT

CIVILIAN MANNING TAFS-1 CLASS EMPLOYMENT CYCLE (36 MONTHS)

70

UPKP SV S FLTEX V VR	C S V SV V L R F	C P C P C P C P C P C P C P C P C P C P	
PELTEX V VR SV L SV V	E D T C P T T T T T T T T T	D E P L O Y E D -	
R P V SV UPKP S	- D E P L O Y	R V SV L SV FLTEX V	WERKS
R LOAD TT V SV POM D	2	R LOAD TT V SV POH B	
TEAR 1	3	TEAR 3	

COMSOLIDATE CARGO
ENROUTE
FLEET EXERCISE
LOAD CARGO
OFF LOAD CARGO
MIDTERN INSPECTION
PREPARTION FOR OVERSEAS HOVEHENT
PORT VISIT
READY FOR SEA PERIOD
REGULAR OVERHAUL
SERVICES
TYPE TRAINING
VOYAGE REPAIRS
UPKEEP PERIOD

CSL ENR FLTEX LOAD OFF MTI POM PV RFS SV SV VR

SUMMARY OF REPLENISHMENT SHIP NOTIONAL EMPLOYMENTS BY MISSION AREAS 3-YEAR OPERATING CYCLE (WEEKS)

MISSION		SHIP CLASS			
AREA		AE-26	TAE-26	AFS-1	TAFS-1
CONSOLIDATED CARGO	CONSOL	4	5	3	14
ENROUTE	ENR	9	5	17	5
FLEET EXERCISES	FLEX	19	23	11	19
LEAVE & UPKEEP	LV&UKP	8		8	
LOAD CARGO	LOAD	4	4	5	6
MID-TERM INSP.	MID.		2		2
OFF LOAD CARGO	OFF LD	1	1	2	1
PREPARATION FOR OVERSEAS MOVEMENT	POM	4	4	4	4
PORT VISITS	PV	15	25	17	19
REFRESHER TRAINING	REFTRA	7		9	
RESTRICTED AVAILABILITY	RA	9		9	
READY FOR SEA	RFS	4	2	2	2
REGULAR OVERHAUL	RO	39	14	17	14
SERVICES	sv	12	34	19	40
TENDER AVAILABILITY	TA	8		14	
TYPE TRAINING	TT	7	8	9	8
VOYAGE REPAIRS	VR		8		8
UPKEEP	UPKP	6	21	10	14
TOTAL WEEKS		156	1 56	1 56	1 56

APPENDIX G

NAVY MILITARY MANPOWER

FYDP COST CALCULATIONS

NAVY MILITARY MANNING AE-26 DIRECT MPN ANNUAL FYDP COST

PAY GRADE	CREW SIZE*	COMPOSITE STANDARD MILITARY RATE	TOTAL COST
0-6	•	-	-
0-5	1	\$5t ,981	\$51,981
0-4	1	43,979	43,979
0-3	5	37,559	187,795
0-2	3	29,163	87,489
0-1	4	22,496	89,984
W-4	1	39,865	39,865
W-3	1	33,655	33,655
₩ ~ 2	2	30,027	60,054
E-9	1	34,981	34,981
E-8	2	30,130	60,260
E-7	19	26,098	495,862
E-6	28	21,905	613,340
E-5	48	18,091	868,368
E-4	83	15,352	1,274,216
E-3	193	13,059	2,520,387
TOTAL DIRECT MPH	COST		\$6,462,216

These costs were effective 4 February 1982
*Based on OPNAVINST 5300.121A dated 6 January 1981

NAVY MILITARY MANNING
AFS-1 DIRECT MPN ANNUAL FYDP COST

PAY GRADE	CREW SIZE*	COMPOSITE STANDAR MILITARY RATE	TOTAL COST
0-6	1	\$61,793	\$61,793
0-5	2	51,981	103,962
0-4	2	43,979	87,958
0-3	5	37,559	187,795
0-2	5	29,163	145,815
0-1	5	22,496	112,480
W-4	-	\$39,865	-
W-3	1	33,655	\$33,655
W-2	2	30,027	60,054
E-9	2	\$34,981	\$69,962
E-8	2	30,130	60,260
E-7	18	26,098	469,764
E-6	39	21,905	854,295
E- 5	62	18,091	1,121,642
E-4	88	15,352	1,350,976
E-3	201	13,059	2,624,859
TOTAL DIRECT MPN	COST		\$7,345,270

These costs were effective 4 February 1982
*Based on OPNAVINST 5320.228A dated 6 June 1980

NAVY MILITARY MANNING
AD-37 DIRECT MPN ANNUAL FYDP COST

PAY GRADE	CREW SIZE* COMPOSITE STANDARD MILITARY RATE		TO	TAL COST	
0-6	1	\$	61,793	\$	61,793
0-5	5		51,981		259,905
0-4	5		43,979		219,895
0-3	12		37,559		450,708
0-2	3		29,163		87,489
0-1	7		22,496		157,472
W-4	2	\$	39,865	\$	79,730
W-3	3		33,655		100,965
W-2	6		30,027		180,162
E-9	10	\$	34,981	\$	349,810
E-8	23		30,130		692,990
E-7	101		26,098	2,	635,898
E-6	197		21,905	4,	315,285
E-5	278		18,091	5,	029,298
E-4	354		15,352	5,	434,608
E-3	398		13,059	5,	197,482
TOTAL DIRECT M	PN COST			\$ 25,	253,490

These costs were effective 4 February 1982

^{*}Based on OPNAVINST 5320.434 (DRAFT)

NAVY MILITARY MANNING
TAD-37 DIRECT MPN ANNUAL FYDP COST - REPAIR CREW

PAY GRADE	CREW SIZE	COMPOSITE STANDARD MILITARY RATE	<u>T</u>	OTAL COST
0-5	1	\$ 51,981	\$	51,981
0-4	3	43,979		131,937
0-3	3	37,559		112,677
0-2	2	29,163		58,326
		·		
W-4	2	39,865		79,730
W- 3	1	33,655		33,655
W-2	3	30,027		90,081
E-9	8	34,981		279,848
E-8	20	30,130		602,600
E-7	88	26,098		2,296,624
E-6	162	21,905		3,548,610
E-5	235	18,091		4,251,385
E-4	270	15,352		4,145,040
E-3	244	13,059		3,186,396
TOTAL DIR	ECT MPN COST		\$ 1	18,868,890

These costs were effective 4 February 1982 *Based on OPNAVINST 5320.434 (DRAFT)

APPENDIX H NAVY MILITARY MANPOWER ECONOMIC COST CALCULATIONS

NAVY MILITARY MANNING ANNUAL ECONOMIC COST TO DOD - OFFICERS AFS-1 (FY81\$)

	(LIRIS)	FY81s
RANK	DESIGNATION	BILLET COST
CAPT	1110	\$ 49,325
LT	4100	30,543
CDR	1110	43,953
LTJG	1110	24,217
LT	2100	48,269
LCDR	1110	37,764
LTJG	1110	24,217
LTJG	1110	24,217
LT	6110	40,151
LTJG	1110	24,217
WO3	7110	33,264
ENS	1110	24,400
LCDR	1110	37,764
WO2	7130	28,120
WO2	7130	28,120
ENS	1110	24,400
LTJG	1110	24,217
CDR	3100	43,014
LT	3100	30,656
LT	3100	30,656
ENS	3100	19,636
ENS	3100	19,636
Ens	3100	19,636
TOTAL ECON COST TO DOD - OFFICERS		\$710,392

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL
AFS-1
(FY81\$)

C	87 Z	87 A 60 5 60 5 60 5 60 5 60 5 60 5 60 5 60 5	E-7	हा ए 	3 5 - 5 5 - 5	# C	DESG STKR	TOTAL
AK Rating Total			5		\$18,414	\$16,479		\$34,893
BM Rating Total	1 \$31,552		1 \$24,800	\$22,788 \$91,152	\$17,802 \$124,614	9 \$14,793 \$133,137	18 \$ 13,932 \$250,776	40 , \$656,031
BT Rating Total			2 \$26,362 \$52,724	1 \$23,176	\$17,654 \$88,270	\$14,908 \$104,356	4 \$13,885 \$55,540	19
DK Rating Total				\$22,873			1 \$14,656	\$ 37,529
DP Rating Total			1 \$25,347	1 \$23,128	1 \$17,283	3 \$15,253 \$45,759	4 \$14,145 \$56,580	10
DS Rating Total				1 \$22,548				\$ 22,548
EM Rating Total			1 \$25,521	2 \$22,344 \$44,68b	3 \$19,096 \$57,288	6 \$19,202 \$115,212	3 \$17,124 \$51,372	15 \$294,081
EN Rating Total				1 \$22,946	1 \$17,204	1 \$15,029		3 \$ 55,179
ET Rating Total		:		1 \$23,394	3 \$22,872 \$68,616	3 \$22,867 \$68,601		\$160,611

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONTD)
AFS-1
(FY815)

RATING	E+9 MCPO	E-8 SCPO	E-7 CPO	E-6 P01	E-5 P02	E-4 P03	DESG STKR E-3	TOTAL
FN Rating Total	tal						30 \$13,591 \$407,730	30
GMG Rating Total	ta]		1 \$25,516	1 \$22,680	2 \$18,130 \$36,260	2 \$17,845 \$35,690	3 \$19,169 \$57,507	9 \$177,653
HM Rating Total	tal		1 \$25,175		1 \$17,257	1 \$14,926		3 \$ 57,358
HN Rating Total	tal						1 \$13,306	1 \$ 13,306
HT Rating Total	ta]		1 \$25,558	2 \$22,642 \$45,284	2 \$17,644 \$35,288	\$15,503 \$62,012	2 \$14,577 \$29,154	11 \$197,296
IC Rating Total	tal			1 \$22,417	2 \$19,016 \$38,032	2 \$18,138 \$36,276	2 \$17,271 \$34,542	\$131,267
JO Rating Total	ta1					\$16,164		\$ 16,164
MA Rating Total	ta]		1 \$24,494				•	\$ 24,494
MM Rating To	Total		3 \$25,827 \$77,481	\$22,723 \$90,892	\$19,592 \$176,328	14 \$19,035 \$266,490	\$18,283 \$36,566	32
MR Rating Total	tal				\$17,619			\$ 17,619

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONTD)
AFS-1
(FY81\$)

	6		6			•	DESG	
RATING	MCPO	SCP0	CP0	F01	F-5 P02	F03	STKK E-3	TOTAL
MS Rating Total	-	-		\$24,104	\$20.688	\$15.507	586	19
		\$29,395		\$96,416	\$82,752	\$77,535	\$72,930	\$359,028
00				7	3	2	4	10
Macting 10tat	•			\$22,233	\$51,723	\$31,088	\$58,900	\$163,944
PC Rating Total	1			1 \$23,123		1 \$15,619		\$ 38,816
PN Rating Total	1		\$25,122			1 \$15,619	1 \$14,578	\$ 55,319
MM Rating Total	1	\$30,043						\$ 30,043
QM Rating Total			1 \$24,885	1 \$21,262	1 \$17,599	3 \$15,739 \$47,217		\$110,963
RM Rating Total	1	•	1 \$25,891	2 \$23,078 \$46,156	3 \$18,224 \$54,672	\$ \$16,000 \$96,000	4 \$15,066 \$60,264	16 \$282,983
RP Rating Total						\$15,834		\$ 15,834
SH Rating Total	1			1 \$22,959	1 \$18,886	3 \$16,178 \$48,534	3 \$15,921 \$47,763	8 \$138,142
SK Rating Total \$31,	1 \$31,715		\$25,140 \$50,280	\$22,891 \$160,237	10 \$18,664 \$186,640	\$16,237 \$129,896	9 \$15,815 \$142,335	37

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONTD)
AFS-1
(FY81\$)

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	6- 1	80 1 21	E-7	E . 6	ช -	3 4-	DESG	
RATING	MCPO	SCPO	CPO	PO1	P02	P03	E-3	TOTAL
SM	-		1	7	2	3	7	80
Rating Total			\$26,334	\$24,011	\$17,562	\$15,312	\$14,714	\$146,119
SN SN Sn +40							101	101
tanot fill tano							\$12,390 \$1,251,390	\$12,390 \$1,251,390 \$1,251,390
N.				-1		1	۳	S
Rating Total				622 182		616,071	\$15,869	C 85. 860

TOTAL ENLISTED & OFFICER ANNUAL ECONOMIC (BILLET) COST TO DOD (FY81\$)

\$1,533,615

LEGEND

of Billets 3 Billet Cost/Man \$15,253 Total Economic (Billet) Cost to DOD (FY81\$) \$45,759

NAVY MILITARY MANNING ANNUAL ECONOMIC COST TO DOD - OFFICERS AE-26 (FY81\$)

RANK	DESIGNATION	FY81\$ BILLET COST
CDR	1110	
		, ,,,,,,,
LCDR	1110	37,764
LTJG	1110	24,217
LT	2100	48,269
LT	1110	. 29,631
LTJG	1110	24,217
ENS	1110	24,400
LT	6110	40,151
LTJG	1110	24,217
ENS	1140	17,781
WO4	7110	36,403
WO3	7160	33,264
LT	6130	40,151
ENS	1110	24,400
WO2	7130	28,120
WO2	7130	28,120
LT	3100	30,656
ENS	3100	19,636
TOTAL ECON COST TO DOD - OFFICERS		\$ 555,350

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL
AE-26
(FY81\$)

RATING	E-9 MCPO	E-8 SCPO	12−7 CPO	E-6	E~5	N S	DESG STKR	
BM	1	-	-	2	200	EQ.	E-3	TOTAL
		1	1	\$22.788	\$17 002	11		6\$
	\$31,552	\$28,282	\$24,800	\$113,940	\$142,416	\$162,723	\$13,932	0.00
BT Rating Total			2 2 826 362	-		9	-	117
			\$52,724	\$23,176	\$17,654	\$14,908	\$13,885	\$291,504
Rating Total				1 \$22.873			~	2
E S							\$14,656	\$ 37,529
Rating Total				\$22,344	3	619 262	2	=
2			\$25,521	\$44,688	\$57,288	\$115,212	\$17,124	\$276,957
Rating Total		·	1 \$25,676		1 1 200			-
ET					\$07'/10	\$15,029		57,909
Rating Total				7	3 \$22.872	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		9
a de la companya de l				\$23,394	\$68,616	\$45,734		\$137.744
Rating Total							26	26
SMS.							\$353,366	\$353,366
Rating Total			-	~	3	\$	5	16
1			\$25,516	\$22,690	\$54,390	\$107,845	\$19,169 \$95,845	\$305.501
nd Rating Total			-			7		- F
49.5			\$25,175			\$14,926 \$29,852		\$ 55,027
Rating Total			7	2 2	2	-	2	ł
			\$25,558	\$45,284	\$17,644 \$35,288	\$15,503 \$62,012	\$14,577 \$29,154	

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AE-26
(FY81\$)

RATING	E-9 MCPO	E-8 SCPO	E-7 CP0	E-6 P01	E-5 P02	E-4 PO3	DESG STKR E-3	TOTAL
IC Rating Total	-		1 \$26,674		2 \$19,016 \$38,032	\$18,138 \$36,276	\$17.271	6 8118,253
JO Rating Total	1					1 \$16,164		\$ 16,164
MA Rating Total	1		\$24,494					\$ 24,494
MM Rating Total	1		3 \$25,827 \$77,481	4 \$22,723 \$90,892	8 \$19,592 \$156,736	16 \$19,035 \$304,560	2 \$18,283 \$36,566	33
MR Rating Total	1				\$17,619			\$ 17,619
MS Rating Total			1 \$26,440	2 \$24,104 \$48,203	3 \$20,688 \$62,064	\$15,507 \$62,028	3 \$14,586 \$43,758	13 \$242,498
OS Rating Total				1 \$22,233	3 \$17,241 \$51,723	3 \$15,544 \$46,636	\$14,725 \$58,900	11 \$179,488
PC Rating Total				\$23,123		\$15,693		\$ 38,816
PM Rating Total	_		\$25,122			1 \$15,619	1 \$14,578	3 \$ 55,319
MM Rating Total	1	\$30,043						\$ 30,043

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AE-26
(FY81\$)

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RATING	E-9 MCP0	R-8 SCPO	E-7 CP0	E-6 P01	E-5 P02	E-4 P03	DESG STKR E-3	TOTAL
¥6			1	1	1	8		9
Rating Total			\$24,885	\$21,262	\$17,599	\$47,219		\$110,963
754			1	2	2	ر د	m	13
Rating Total			\$25,891	\$23,078 \$46,156	\$18,224 \$36,448	\$16,000 \$80,000	\$15,066 \$45,198	\$233,693
HS.				1	1	3	3	8
Rating Total				\$22,959	\$18,886	\$16,178 \$48,534	\$15,921	\$138,142
25			1	7	1	2	2	7
Rating Total			\$25,140	\$22,891	\$18,664	\$16,237	\$15,815 \$31,630	\$130,799
WS			-	-	2	3	1	60
Rating Total			\$26,334	\$24,011	\$17,562 \$35,12 4	\$15,312 \$45,936	\$14,714	\$146,119
NS							109	109
Rating Total							\$1,350,510	\$1,350,510 \$1,350,510
2.				1		-	2	•
Rating Total				\$22,182		\$16,071	\$15,869 \$31,738	\$69,991
								\$6,647,546

TOTAL ENLISTED AND OFFICER ANNUAL ECONOMIC (BILLET) COST TO DOD (FY81\$)

LEGEND

of Billets
Billet Cost/Man \$15,253
Total Economic
(Billet) Cost
to DOD (FY81\$) \$45,759

NAVY MILITARY MANNING ANNUAL ECONOMIC COST TO DOD - OFFICERS AD-37 (FY81\$)

RANK	DESIGNATION	FY81\$ BILLET COST
CAPT	1110	49,325
CDR	1110	43,953
CDR	4100	42,825
LT	4100	30,543
ENS	6410	32,527
LT	1110	29,631
LCDR	2100	40,169
LT	2100	48,269
LT	2300	31,065
CDR	2200	47,245
LCDR	2200	37,604
LT	2200	29,900
LT	2200	29,900
LT	1110	29,631
ENS	1160	24,400
WO2	7120	28,120
LT	6110	40,151
LTJG	1110	24,217
ENS	1160	24,400
ENS	1160	24,400
WO2	7110	28,120
LT	6130	40,151
WO3	7130	33,264
W03	7130	33,264
WO2	7140	28,120

NAVY MILITARY MANNING ANNUAL ECONOMIC COST TO DOD - OFFICERS (CONT) AE-37 (FY81\$)

RANK	DESIGNATION	FY81\$ BILLET COST
CDR	3100	43,014
LCDR	3100 .	35,982
LCDR	3100	35,982
Ens	3100	19,636
ens	3100	19,636
ens	6510	34,527
CDR	1440	45,625
LT	6130	40,151
LT	6150	40,151
LT	6150	40,151
LTJG	6130	34,427
LTJG	6130	34,427
WO4	7140	36,403
WO4	7140	36,403
WO2	7130	28,120
WO2	7160	28,120
WO2	7180	28,120
LCDR	1110	37,764
WO3	7170	33,264
TOTAL ECON COST TO DOD - OFFICERS	3	1,505,097

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NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL
AD-37
(FY81\$)

RATING	E-9 MCPO	E-8 SCPO	E-7 CP0	B-6 P01	E-5 P02	E-4 P03	DESG STKR E-3	TOTAL
BII Rating Total			524,800 \$124,000	, \$22, 738 \$159, 516	9 \$17,802 \$160,218	15 \$14,793 \$221,805	13 \$13,932 \$191,116	\$846,745
ating Total	\$30,721	\$29,377	\$26,362 \$153,172	\$23,176 \$208,534	13 \$17,654 \$229,532	20 \$14,908 \$298,163	11 \$13,385 \$152,735	61
DK Rating Total				\$22,873		\$15,605	2 \$14,656 \$29,312	\$67,730
D:1 Rating Total			\$23,943	2 \$21,212 \$42,424	\$16,853 \$33,706	2 \$14,267 \$28,534		\$128,637
DN Rating Total							2 \$22,245 \$44,490	544,493
DP Rating Total			\$25,347	1 \$23,128	\$17,283 \$34,566	3 \$15,253 \$45,759	5 314,145 \$70,725	12 \$199,525
DS Rating Total				\$22,543				1 \$22, 548
UT Rating Total				323,741	\$20,350	\$24,550		363,641

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AD-37
(FY81\$)

OD

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RATING	E-9 MCPO	E-8 SCPO	E-7 Poc	E-6 P01	E-5 P02	R-4 P03	DESG STKR E-3	TOTAL
EN Rating Total	531,839	\$29,522 \$59,044	\$22,521 \$130,163	14 522,344 \$312,316	22 ;19,096 \$420,112	\$19,202 \$19,202 \$364,338	11 \$17,124 \$138,364	\$1,557,18
EN Rating Total		\$29,083	\$25,676 \$77,028	\$22,946 \$68,838	517,204 \$120,428	\$15,029 \$120,232	\$13,729 \$27,458	3443,067
Er Rating Total	2 \$31,093 \$62,186	\$30,359 \$60,718	327,118 \$325,416	\$23,394 \$44,486	30 \$22,872 \$686,160	\$22,867 \$663,143	3 \$ 19,919 \$159,352	102
FN Rating Total							97 \$ 13,591 \$1,318,327	\$1,313,327
ZT Rating Total		\$27,900 \$55,400						\$55,830
FTG Rating Total			2 \$24,914 \$40,328	\$21,340 \$85,340	7 \$18,656 \$130,522	6 \$18,091 \$108,546	\$17,391 \$69,564	23
FTH Rating Total				\$22,563		\$16,898		539,466
GWT Rating Total			2 \$26,046 \$52,092	3 \$23,682 \$71,046	5 \$18,322 \$91,610	\$16,242 \$81,210	\$15,147 \$60,588	19

\$356,546

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AD-37
(FY81\$)

OD

RATING	E-9 MCPO	SCPO	E-7 CPO,	E-6 P01	E-5 P02	B−4 PO3	DESG STKR E-3	TOTAL
GMG Rating Total			1 \$25,516	\$22,680. \$45,360	\$19,130	\$17,845 \$39,225	5 \$19,169 \$95,845	17
GSE Rating Total			\$26,237	\$22,642	\$21,744	1 \$25,351		\$95,974
HM Rating Total	,	1 \$28,463		2 \$22,102 \$44,204	2 - \$17,257 \$34,514	. 4 \$14,926 \$59,704		9 \$166,885
HN Rating Total							2 \$13,336 \$26,612	\$26,612
HT Rating Total	1 \$31,556	\$29,135 \$116,420	14 \$25,558 \$357,812	30 \$22,642 \$679,260	45 \$17,644 \$793,930	78 \$15,503 \$1,209,234	30 \$14,577 \$437,310	202
IC Rating Total		\$29,745	3 \$26,674 \$80,322	\$22,417 \$134,502	13 \$19,016 \$247,238	12 \$18,138 \$217,656	\$17,271	\$812,759
IN Rating Total			3 \$24,907 \$74,721	5 \$22,566 \$112,830	\$18,598 \$167,382	8 \$16,293 \$130,344	315,264 \$106,343	32
JJ Zating Total					\$17,693	\$15,164		\$33,862
GSM Rating Total				\$24,182	\$18,586	\$17,105		3 \$59,873

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD ~ ENLISTED PERSONNEL (CONT)
AD-37
(FY81\$)

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				(64011)				
RATING	E-9 MCPO	E-8 SCPO	E-7 CP0	E-6 P01	E-5 P02	E−4 PO3	DESG STKR E-3	TOTAL
LI Rating Total			\$25,078	\$22,252	3 \$17,357 \$53,571	2 \$14,962 \$29,924	\$13,684 \$27,368	\$158,193
MA Rating Total			\$24,494	\$23,016				\$47,510
ML Rating Total			\$25,299	\$29,967	3 \$18,149 \$54,447	3 \$15,336 \$46,008	3 \$14,603 \$43,309	11 \$191,530
MM Rating Total	2 \$30,816 \$61,632	2 \$30,043 \$60,086	14 \$25,827 \$361,578	36 \$22,723 \$318,028	29 \$19,592 \$568,168	49 \$19,035 \$932,715	\$18,283 \$475,358	158
:IR Rating Total	\$30,643	1 \$23,248	\$25,572 \$204,576	\$22,368 \$290,784	24 \$17,619 \$422,356	\$14,973	13 \$13,339 \$173,407	81
MS Rating Total		1 \$29,395	\$2 6,44 0 \$52,880	\$24,104 \$96,416	5 320,683 \$103,440	\$15,507 \$124,056	\$14,586 \$87,516	26 \$493,703
OM Rating Total			525,153	\$22,672 \$45,344	\$19,061	\$17,219 \$51,657	3 \$15,136 \$45,558	13 3243,956
OS Rating Total				\$22,233	\$17,241 \$34,482	\$15,544	\$14,725	\$101,709

\$15,066 \$60,264 4 \$14,578 \$58,312 1 \$15,473 1 \$15,064 \$14,977 \$17,576 DESG STKR E-3 6 \$16,000 \$96,000 2 \$15,739 \$31,478 2 \$18,276 \$36,552 2 \$15,619 \$31,233 \$15,693 1 \$15,978 E-4 PO3 NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AD-37
(FY81\$) 4 \$18,224 \$72,896 2 \$18,253 \$36,506 \$19,592 \$73,368 1 \$13,090 \$17,599 \$17,799 E-5 P02 3 \$23,073 \$69,234 E-6 Pol (\$23,300 \$22,723 1 \$23,123 1 \$23,083 \$22,394 \$21,262 2 \$25,891 \$31,782 1 \$25,999 \$25,555 \$25,122 E-7 CP0 \$30,043 E-8 SCPO 2 330,816 \$61,632 E-9 MCPO Rating Total Rating Total Rating Total Rating Total Rating Total Rating Total

\$98,214

\$54,289

TOTAL

\$139,489

\$154,864

\$350,176

lating Total

PO

\$85,316

S

\$245,532

RATING

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AD-37
(FY815)

RATING	E-9 (MCPO	E-8 SCPO	E-7 CP0	E-6 P01	B-5 P02	R -4 PO3	DESG STKR E-3	TOTAL
RAT Rating Total				\$21,327		\$15,834		\$37,161
SH Rating Total			1 \$24,990	1 \$22,959	3 \$18, 886 \$56, 658	9 916,178 \$97,068	2 \$15,921 \$31,842	13 \$233,517
SK Rating Total		1 \$28,096		522, 391 \$137, 346	3 \$18,664 \$55,992	\$16,237 \$113,659	\$15,315 \$63,260	21 \$398,353
SM Rating Total				\$24,311	\$17,562	\$15,312 \$45,936	\$14,714 \$29,428	\$116,937
SN Rating Total							\$12,390 \$1,263,780	102
STG Rating Total			1 \$26,463	1 \$23,813	2 \$19,935 \$39,873	316,366 365,464		8 \$155,613
TH Rating Total		\$29,340	\$26,852 \$53,704	\$24,155 \$26,620	\$18,636 \$130,242	\$16,617	\$14,618 \$73,090	\$528,655

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
AD-37
(FY81\$)

RATING	E-9 MCPO	E-8 SCPO	E-7 CP0	E-6 P01	B-5 P02	B-4 P03	DESG STKR E-3	TOTAL
YN Rating Total			2 \$24,995 \$49,990	1 \$22,132	5 \$18,399 \$91,995	5 \$16, 371 \$80, 355	7 \$15,869 \$111,383	20

\$26,545,171

LEGEND

3 \$15,253 \$45,759 # of Billets
Billet Cost/Man
Total Economic
(Billet) Cost
(FY815)

TOTAL ENLISTED AND
OFFICER ANNUAL ECONOMIC
(BILLET) COST TO DOD
(FY81\$)

NAVY MILITARY MANNING REPAIR CREW - OFFICERS ANNUAL ECONOMIC COST TO DOD - REPAIR CREW TAD-37 (FY81\$)

RANK	DESIGNATION	FY81\$ BILLET COST
LCDR	3100	35,982
LCDR	3100	35,982
CDR	1440	45,625
LT	6130	40,151
LT	6150	40,151
LT	6150	40,151
LTJG	6130	34,427
LTJG	6130	34,427
WO4	7140	36,403
WO4	7140	36,403
WO2	7130	28,120
WO2	7160	28,120
WO2	7180	28,120
LCDR	1110	37,764
WO3	7170	33,264
TOTAL ECON TO DOD - OF	- -	535,090

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL
TAD-37 REPAIR CREW
(FY815)

							DESG	
	B-9	8-8	B-7	9-2	8-3 0	- E	STKR	
RATING	MCPO	SCPO	CPO	P01	P02	P03	E-3	TOTAL
MQ			4	4	6	12	6	38
5			24,800	22,788	17,802	14,793	13,932	
RATING TOTAL			99,200	91,152	160,218	177,516	125,388	653,474
BT	1	1	5	9	10	10	S	38
RATING TOTAL	30.721	742.96	26,362	23,176	17,654	14,908	13,885	726.009
	12,100	23,1311	0104161	252,555	2566	000161	(34,45)	
DK							14 666	•
RATING TOTAL				22,873		15,605	29,312	67,790
DIM				21, 212	7	.625		7
RATING TOTAL			23,543	42,424	33,706	28,534		128,607
DP			1	1	2	3	5	12
RATING TOTAL			25,347	23,128	34,566	45,759	70,725	199,525
DS				1				1
RATING TOTAL				22,548				22,548
EM	1	1	80	12	19	13	8	62
RATING TOTAL	31,839	29,522	22,521 180,168	\$22,344	19,096 362,824	19,202 249,626	136,992	1,259,099
EN		1	3	2	9	9	1	19
RATING TOTAL		29,083	25,676 77,028	45,892	103,224	15,029 90,174	13,729	359,130
ET	2	2	11	19	27	27	8	96
RATING TOTAL	31,093 62,186	30,359 60,718	27,118 298,298	23,394	22,872 617,544	22,867 617,409	19,919 159,352	2,259,993
FTG RATING TOTAL			24,914	21.340	18,656	18,091	17,391	23

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
TAD-37 REPAIR CREW
(FY81\$)

T

	E-9 MCPO	E-8 SCPO	E-7 CP0	E-6 P01	E-5 P02	E-4 P03	DESG STKR E-3	TOTAL
FN							75	75
RATING TOTAL							13,591	1,019,325
Ld		2						2
RATING TOTAL		55,800						55,800
. GMT -			2	3	5	5	-	19
RATING TOTAL			26,046 52,092	71,046	18,322 91,610	16,242	15,147 60,588	356,546
GSE RATING TOTAL			26,237	1 22,642	21,744	25,351		95,974
GSM				1	1	1		3
RATING TOTAL				24,182	18,586	17,105		59,873
H	-	4	13	28	43	74	28	191
RATING TOTAL	31,556	29,105 116,420	332,254	22,642 633,976	17,644	1,147,222	408,156	3,428,276
IC		1	3	5	10	10	-	33
RATING TOTAL		29,745	26,674 80,022	22,417 112,085	19,016 190,160	18,138 181,380	69,084	662,476
WI			3	5	1	8	,	32
RATING TOTAL			74,721	22,566 112,830	167,382	130,344	106,848	592,125
LI			1	1	3	2	13 684	6
RATING TOTAL			25,078	22,252	53,571	29,924	27,368	158,193
ML			П	1	۳,	١.	3	11
RATING TOTAL			25,299	21,957	54,447	46,008	43,809	191,530
FTM RATING TOTAL				22,568		16,898		39,466

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
TAD-37 REPAIR CREW
(FY81\$)

~ D

RATING HM RATING TOTAL	,				,		DESG	
MM RATING TOTAL	MCPO	E-8 SCPO	E-7 CP0	E-6 P01	E-5 P02	E-4	STKR E-3	TOTAL
RATING TOTAL	2	2	12		24	32	22	125
	30,816 61,632	30,043	25,827 309,924	22,723 704,413	19,592	19,035 609,120	402,226	2,617,609
MR	1	1	80	13	23	21	13	80
RATING TOTAL	30,643	28,248	25,572	22,368 290,784	17,619	14,973 314,433	13,339	1,447,328
WO			1	7	•	٣	3	13
RATING TOTAL			25,153	22,672	19,061 76,244	17,219	15,186	243,956
ЪН			1	1	1			2
RATING TOTAL			25,999	23,083	18,090	15,978	15,064	98,214
PM			1	1	2	2	1	7
RATING TOTAL			25,555	23,300	36,506	36,552	17,576	139,489
PO		2		2				60
RATING TOTAL		30,043 60,086		45,446	78,368			183,900
RM			1	1	1	1		s.
RATING TOTAL			25,891	23,078	18,224	16,000	15,066	98,259
SK		1		1 :	6	7	4	21
RATING TOTAL		28,096		137,346	55,992	113,659	63,260	398,353
SN							23	23
RATING TOTAL							284,970	284,970
GMG			1	1	E	m (•	12
RATING TOTAL	_		976'67	200177	54,390	53,535	19,169 76.676	232,797

NAVY MILITARY MANNING
ANNUAL ECONOMIC COST TO DOD - ENLISTED PERSONNEL (CONT)
TAD-37 REPAIR CREW
(FY81\$)

RATING	E~9	E-8 SCPO	2-7 CP0	E-6 P01	E-5 P02	E-4 P03	DESG STKR E-3	TOTAL
STG			1	1	2	- 3		80
RATING TOTAL			26,463	23,813	39,870	65,464		155,610
¥.		2,10	2,053	4	70, 0.	7	2	27
RATING TOTAL		28,340	53,704	96,620	130,242	116,319	73,090	528,655
N.A.			-	1	+	+	2	12
RATING TOTAL			24,995	22,182	73,596	16,0/1 64,284	31,738	216,795
TOTAL ENLISTED AND	AND							1027
OFFICER ANNUAL ECONOMIC (BILLET) COST TO DOD (FY81S)	ECONOMIC D DOD							19,960,674

APPENDIX I NAVY CIVIL SERVICE MANPOWER COST CALCULATIONS

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NAVY CIVIL SERVICE MANNING NECC TAE-26 ANNUAL BASE WAGE COMPUTATIONS (FY82\$)

1	Master (D)	\$57,500	*57,500
2	First Officer (D)	37,986	75,972
1	Second Officer (W)	26,791	26,791
2	Third Officer (W)	23,904	47,808
2	Boatswain (D)	18,823	37,646
1	Carpenter (D)	16,991	16,991
6	Boatswain Mate (D)	15,450	92,700
9	Able Seaman (W)	12,961	116,649
45	Ordinary Seaman (D)	12,038	541,710
30	Able Seaman (D)	14,480	434,400
1	Chief Engineer (D)	57,500	57,500
1	lst Assistant Engineer (D)	37,986	37,986
2	2nd Assistant Engineer (D)	34,292	68,584
2	3rd Assistant Engineer (D)	30,598	61,196
3	3rd Assistant Engineer (W)	23,904	71,712
1	Chief Electrician (D)	20,761	20,761
4	2nd Electrician (D)	18,732	74,928
1	Refrigeration Engineer (D)	18,732	18,732
2	2nd Refrigeration Engineer (D)	16,111	32,222
4	Deck Engineer (D)	18,732	74,928
2	Machinist/Plumber (D)	17,177	34,354
3	Oiler (W)	12,961	38,883
3	F/WT (W)	12,961	38.883

NAVY CIVIL SERVICE MANNING NECC TAE-26 ANNUAL BASE WAGE COMPUTATIONS (CONT) (FY 82\$)

70

		BASE WAGE \$12,038	TOTAL \$36,114
3	Wiper (D)	\$12,030	4307
4	Utilitymen (D)	14,965	59,860
1	Chief Steward (D)	18,823	18,823
1	2nd Cook (D)	13,403	13,403
1 1 2	Chief Cook (D) Cook/Baker (D) 3rd Cook (D)	15,137 14,753 12,812	15,137 14,753 25,624
6	Messman(D)	10,048	60,288
12	Utilityman(D)	10,048	120,576
1	3rd Pantryman (D)	10,862	10,862
2	Laundryman (D)	10,596	21,192
1	Purser	31,047	31,047
1	Nurse	21,112	21,112
1	Supply Officer	30,083	30,083
1	Assistant Supply Officer	23,517	23,517
3	Yeoman/Storekeeper	14,815	44,445
	TOTAL BASE WAGE		\$2,625,672

NAVY CIVIL SERVICE MANNING NECC TAE-26 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT.

(FY 82\$)

	FYDP COST	ECONOMIC COST
Total Base Pay	\$2,625,672	\$2,625,672
Overtime (37% Base Pay - CIVMAN)	971,499	971,499
Premium/Penalty Pay (7% Base Pay ~ CIVMAN)	183,797	183,797
Subsistence (\$5.50/Man/Day)	339,268	339,268
Other (Relief Officers, (6% Base Pay - CIVMAN)) Awaiting Assignment	157,540	157,540
Training, Damage Control Instruction		
Retirement ¹	183,797	535,637
Life & Health Insurance (3.7% of Base Pay) *	97,150	9 7,150
Workman's Compensation Bonuses and Awards		
& Unemployment Programs (1.9% of Base Pay)*	49,888	49,888
Shore Leave (10.5% of Base Pay)	275,696	275,696
Annual, Sick and (20% Base Pay CIVMAN/CIV77) Military Leave	525,134	525,134
Travel (2% Base Pay - AF-58 (CIVMAN))	52,513	52,513
Ammunition Bonus (10% Base Pay)	262,567	262,567
SUBTOTAL	5,724,521	6,076,361
MSC OVERHEAD (5% Subtotal)	286,226	303,818
TOTAL	\$6,010,747	\$6,380,179

^{1/ 7.0%} Base Pay in FYDP Cost; 20.4% Base Pay in Economic Cost per OMB Circular A-76.

^{*}Based on OMB Circular A-76.

NAVY CIVIL SERVICE MANNING NECC TAFS-1 ANNUAL BASE WAGE COMPUTATIONS (FY 82\$)

		BASE WACE	TOTAL
1	Master (D)	\$57,500	\$57,5 00
2	Pirst Officer (D)	41,782	83,564
1	Second Officer (W)	29,470	29,470
2	Third Officer (W)	26,295	52,590
2	Boatswain (D)	20,703	41,406
1	Carpenter (D)	18,688	18,688
6	Boatswain Mate (D)	16,994	101,964
28	Able Seaman (D)	15,925	445,900
41	Ordinary Seamen (D)	13,242	542,922
9	Able Seaman (W)	14,257	128,313
1	Chief Engineer (D)	57,500	57,500
1	First Assistant Engineer (D)	41,782	41,782
2	Second Assistant Engineer (D)	37,719	75,438
2	3rd Assistant Engineer (D)	33,657	67,314
3	3rd Assistant Engineer (W)	26,295	78,885
4	Deck Engineer (D)	20,608	82,432
1	Electrician (D)	22,838	22,838
2	2nd Electricians (D)	20,608	41,216
3	Refrigeration Engineer (w)	17,721	53,163
3	Refrigeration Oiler (W)	14,257	42,771
1	Mechinist (D)	18,473	18,473
3	Utilityman (D)	16,462	49,386
3	Oiler (W)	14,257	42,771

NAVY CIVIL SERVICE MANNING NECC TAFS-1 ANNUAL BASE WAGE COMPUTATIONS (CONT) (FY 82\$)

		BASE WAGE	TOTAL
3	F/WT (W)	\$14,257	\$42,771
3	Wiper (D)	13,242	39,726
1	Chief Steward (D)	20,703	20,703
1	Chief Cook (D)	16,651	16,651
2	Cook/Baker (D)	16,228	32,456
1	Third Cook (D)	14,093	14,093
12	Steward Utilityman (D)	11,052	132,624
6	Messman (D)	11,052	66,312
1	Third Pantryman (D)	11,946	11,946
1	Laundryman (D)	11,654	11,654
1	Assistant Laundryman (D)	11,352	11,352
1	Purser	31,047	31,047
1	Nurse	21,112	21,112
1	Supply Officer	30,083	30,083
1	Assistant Supply Officer	23,517	23,517
25	Yeoman/Storekeep-	14,815	370,375
	TOTAL BASE WAGE		\$3,052,708

NAVY CIVIL SERVICE MANNING NECC TAFS-1 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY 82\$)

	FYDP COST	ECONOMIC COST
Total Base Pay	\$3,052,708	\$3,052,708
Overtime (55% Base Pay - CIVMAN)	1,678,989	1,678,989
Premium/Penalty Pay (7% Base Pay - CIVMAN)	213,690	213,690
Subsistence (\$5.50/Man/Day)	367,373	367,373
Other Relief Officers, (6% Base Pay TAE-26 CIVMAN) Awaiting Assignment Training, Damage Control Instruction	183,162	183,162
Retirement ¹	213,690	622,752
Life & Health Insurance (3.7% of Base Pay)*	112,950	112,950
Workman's Compensation Bonuses and Awards, & Unemployment Programs (1.9% of Base Pay)*	59,001	58,001
Shore Leave (10.5% of Base Pay)	320,534	320,534
Annual, Sick and Military Leave (20% Base Pay - CIVMAN/CIV 77)	610,542	610,542
Travel (2% Base Pay - AF 58 CIVMAN)	61,054	61,054
SUBTOTAL	6,872,693	7,281,755
MSC OVERHEAD (5% SUBTOTAL)	343,635	364,088
TOTAL	\$7,216,328	\$7,645,843

^{1/ 7.0%} Base Pay in FYDP Cost, 20.4% Base Pay in Economic Cost per OMB Circular A-76.

Based on OMB Circular A-76.

NAVY CIVIL SERVICE MANNING FROPOSED MSC CREW-TAE-26 ANNUAL BASE WAGE COMPUTATIONS (FY 82\$)

		BASE WAGE	TOTAL
1	Master (D)	\$57,500	\$57,500
2	1st Officer (D)	37,986	75,972
1	2nd Officer (W)	26,791	26,791
2	3rd Officer (W)	23,904	47,808
3	Bosun (D)	18,823	37,646
1	Carpenter (D)	16,991	16,991
5	Bosun Mate (D)	15,450	77,250
9	Able Seaman (W)	12,961	116,649
24	Able Seaman Maintenance (D)	14,480	347,520
3	Ordinary Seaman (D)	12,038	36,114
1	Chief Engineer	57,500	57,500
1	lst Aßsistant Engineer	37,986	37,986
2	2nd Assistant Engineer	34,292	68,584
3	3rd Assistant Engineer	30,598	91,794
1	Chief Electrician	20,761	20,761
2	Refrigeration Engineer	18,732	37,464
3	Deck Engineer - Machinist	16,794	50,382
4	Unlicensed Jr. Engineer	16,389	65,556
4	2nd Electrician	18,732	74,928
3	Engine Utilityman	14,965	44,895
3	Oiler	12,961	38,883
3	F/WT	12,961	38,883
4	Wiper	12,038	48,152

NAVY CIVIL SERVICE MANNING PROPOSED MSC CREW-TAE-26 ANNUAL BASE WAGE COMPUTATIONS (CONT) (FY 82\$)

		BASE WAGE	TOTAL
1	Chief Steward	\$18,823	\$18,823
1	3rd Steward	13,100	13,100
1	Chief Cook	15,137	15,137
1	Cook/Baker	14,753	14,753
2	2nd Cook/Baker	14,753	29,506
2	2nd Cook	13,403	26,806
2	3rd Pantryman	10,862	21,724
2	Laundryman	10,596	21,192
7	Messman	10,048	70,336
12	"tilityman	10,048	120,576
1	->urser	31,047	31,047
1	Junior Purser	24,400	24,400
1	Supply Officer	30,083	30,083
2	Yeoman/Storekeeper	14,815	29,630
1	Nurse	21,112	21,112
	TOTAL BASE WAGE		\$2,004,234

NAVY CIVIL SERVICE MANNING PROPOSED MSC CREW-TAE-26 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY 82\$)

	FYDP COST	ECONOMIC COST
Total Base Pay	\$2,004,234	\$2,004,234
Overtime (37% Base Pay - CIVMAN)	741,567	741,567
Premium/Penalty Pay (7% Base Pay - CIVMAN)	140,296	140,296
Subsistence (\$5.50/Man/Day)	242,908	242,908
Other Relief Officers, (6% Base Pay - CIVMAN) Awaiting Assignment Training, Damage Control Instruction	120,254	120,254
Retirement ¹	140,296	408,864
Life & Health Insurance (3.7% of Base Pay)*	74,157	74,157
Workman's Compensation Bonuses and Awards, & Unemployment Programs (1.9% of Base Pay)*	38,080	38,080
Shore Leave (10.5% of Base Pay)	210,445	210,445
Annual, Sick and (20% of Base Pay - CIVMAN/CIV Military Leave	77) 400,847	400,847
Travel (2% Base Pay - AF-58 (CIVMAN))	40,085	40,085
Ammunition Bonus (10% Base Pay)	200,423	200,423
SUBTOTAL	4,353,592	4,622,160
MSC OVERHEAD (5% Subtotal)	217,680	231,108
TOTAL	4,571,272	4,853,268

^{1/ 7.0%} Base Pay in FYDP Cost; 20.4% Base Pay in Economic Cost per OMB Circular A-76.

^{*} Based on OMB Circular A-76.

NAVY CIVIL SERVICE MANNING PROPOSED MSC CREW-TAFS-1 ANNUAL BASE WAGE COMPUTATIONS (FY 82\$)

		BASE WAGE	TOTAL
1	Master	\$57,500	\$57,50 0
2	1st Officer	41,782	83,564
1	2nd Officer	29,470	29,470
2	3rd Officer	26,295	52,590
2	Bosun	20,703	41,406
2	Carpenter	18,688	37,376
6	Bosun Mate	16,994	101,964
6	Able Seaman	14,257	85,542
30	Able Seaman Maintenance	15,925	477,750
3	Ordinary Seaman	13,242	39,726
1	Chief Engineer	57,500	57,500
1	lst Assistant Engineer	41,782	41,782
1	2nd Assistant Engineer	37,719	37,719
2	3rd Assistant Engineer	26,295	52,590
1	3rd Assistant Engineer	33,657	33,657
2	Deck Engineer	20,608	41,216
3	Unlicensed Jr. Engineer	16,228	48,684
1	Electrician	22,838	22,838
3	Refrigeration Engineer	17,721	53,163
1	Machinist	18,473	18,473
1	Yeoman Storekeeper	16,297	16,297
2	2nd Electrician	20,608	41,216
3	Engine Utilityman	16,462	49,386

NAVY CIVIL SERVICE MANNING PROPOSED MSC CREW-TAFS-1 ANNUAL BASE WAGE COMPUTATIONS (CONT) (FY 82\$)

SD

		BASE WAGE	TOTAL
3	Oiler	\$14,257	\$42,771
3	Refrigeration Oiler	14,257	42,771
3	F/WT	14,257	42,771
3	Wiper .	13,242	39,726
1	Nurse	21,112	21,112
1	Chief Steward	20,703	20,703
1	3rd Steward	14,410	14,410
1	Chief Cook	16,651	16,651
2	Cook/Baker	16,228	32,456
1	3rd Cook	14,093	14,093
6	Messman	11,052	66,312
12	Utilityman	11,052	132,624
1	3rd Pantryman	11,946	11,946
1	Laundryman	11,654	11,654
1	Assistant Laundryman	11,352	11,352
1	Purser	31,047	31,047
1	Fleet Issue Officer	30,083	30,083
1	Assistant Fleet Issue Officer	23,517	23,517
5	Yeoman Storekeeper	14,815	74.075
	TOTAL BASE WAGE		\$2,201,483

NAVY CIVIL SERVICE MANNING PROPOSED MSC CREW-TAFS-1 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY 82\$)

	FYDP COST	ECONOMIC COST
Total Base Pay	\$2,201,483	2,201,483
Overtime (55% of Base Pay - CIVMAN)	1,210,816	1,210,816
Premium/Penalty Pay (7% Base Pay~ CIVMAN)	154,104	154,104
Subsistence (\$5.50/Man/Day)	250,938	250,938
Other Relief Officers, (6% Base Pay AE-26- Awaiting Assignment Training, Damage Control Instruction	CIVMAN) 132,089	132,089
Retirement ¹	154,104	449,103
Life & Health Insurance (3.7% Base Pay)*	81,455	81,455
Workman's Compensation Bonuses and Awards, & Unemployment Programs (1.9% Base Pay)*	41,828	41,828
Shore Leave (10.5% Base Pay)	231,156	231,156
Annual, Sick and (20% Base Pay - CIVMAN/CIV 7 Military Leave	7) 440,297	440,297
Travel (2% Base Pay - AF-58 (CIVMAN))	44,030	44.030
SUBTOTAL	4,942,300	5,237,299
MSC OVERHEAD (5% Subtotal)	247,115	261,865
TOTAL	\$5,189,415	\$5,499,164

^{1/ 7.0%} Base Pay in FYDP Cost; 20.4% Base Pay in Economic Cost per OMB Circular A-76.

^{*} Based on OMB Circular A-76.

NAVY CIVIL SERVICE MANNING NECC TAD-37 ANNUAL BASE WAGE COMPUTATIONS (FY 82 \$)

		BASE WAGE	TOTAL
1	Master (D)	57,500	5 7,500
1	1st Officer (D)	42,026	42,026
1	2nd Officer (W)	28,609	28,609
2	3rd Officer (W)	24,386	48,772
1	Boatswain (D)	18,823	18,823
1	Carpenter (D)	16,991	16,991
1	Boatswain's Mate (D)	15,450	15,450
6	Able Seaman (W)	12,961	77,766
13	Able Seaman (D)	14,480	188,240
3	Ordinary Seaman (D)	12,038	36,114
1	Yeoman Storekeeper	14,815	14,815
1	Chief Engineer	57,500	57,500
1	1st Assistant Engineer (D)	42,026	42,026
1	2nd Assistant Engineer (D)	36,620	36,620
1	3rd Assistant Engineer (D)	31,215	31,215
3	3rd Assistant Engineer (W)	24,386	73,158
1	Electrician (D)	20,761	20,761
3	2nd Electrician (D)	18,732	56,196
2	Junior Engineer (D)	16,389	32,778
1	Refrigeration Engineer (D)	18,732	18,732
1	Plumber/Machinist (D)	17,177	17,177
3	Oiler (W)	12,961	38,883
3	Oiler (Evaporators) (W)	12,961	38,88
3	P/WT (W)	12,961	38,883
3	Wiper (D)	12,038	36,114
6	Utilityman (D)	14,965	89,790

NAVY CIVIL SERVICE MANNING NECC TAD-37 ANNUAL BASE WAGE COMPUTATIONS (CONT) (FY82\$)

		BASE WAGE	TOTAL
1	Chief Steward	18,823	18,823
1	2nd Steward	13,100	13,100
3	3rd Steward	13,100	39,300
1	Chief Cook	15,137	15,137
4	Cook/Baker	14,753	59,012
4	2nd Cook	13,403	53,612
6	3rd Cook	12,812	76,872
22	Messman	10,048	221,056
50	Utilityman	10,048	502,400
1	Laundryman	10,596	10,596
1	Laundryman	10,596	10,596
4	Assistant Laundryman	10,322	41,288
1	Yeoman Storekeeper	14,815	14,815
1	Purser	31,047	31,047
1	Junior Purser	24,400	24,400
	TOTAL BASE WAGE		2,305,816

NAVY CIVIL SERVICE MANNING NECC OPERATING CREW-TAD-37 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. FY 82 S

	FYDP COST	ECONOMIC COST
Total Base Pay	\$2,305,876	\$2,305,876
Overtime (46% Base Pay - CIVMAN)	1,060,703	1,060,703
Premium/Penalty Pay (7% Base Pay - CIVMAN)	161,411	161,411
Subsistence (\$5.50/Man/Day)	331,238	331,238
Other Relief Officers, (6% Base Pay - CIVMAN) Awaiting Assignment, Training, Damage Control Instruction	138,353	138,353
Retirement 1/	161,411	470,399
Life & Health Insurance (3.7% Base Pay)*	85,317	85,317
Workman's Compensation, Bonuses and Awards, & Unemployment Comp. (1.9% Base Pay)*	43,812	43,812
Shore Leave (10.5% Base Pay)	242,117	242,117
Annual, Sick & Military Leave (20% Base Pay - CIVMAN/CIV77)	461,175	461,175
Travel (2% Base Pay - CIVMAN)	46,118	46,118
SUBTOTAL	5,037,531	5,346,519
MSC OVERHEAD (5% SUBTOTAL)	251,877	267,326
TOTAL	\$5,289,408	\$5,613,845

^{1/ 7%} Base Pay in FYDP Cost; 20.4% Base Pay in Economic Cost per OMB Circular A-76.

Based on OMB Circular A-76.

APPENDIX J NAVY CIVIL SERVICE OPERATING AND SUPPORT COST ESTIMATES PREPARED BY MSC



DEPARTMENT OF THE NAVY COMMANDER MILITARY SEALIFT COMMAND WASHINGTON D C 20390

M-4EX 4700 Ser: 20.5

MAY 17 1952

Information Spectrum, Inc. 1745 Jefferson Davis Highway Arlington, Virginia 22202

Attention: Mr. Richard Osseck

Gentlemen:

The information requested during your meeting with Mr.-Robert Jacobs on April 26, 1982 is forwarded for your consideration. Data covering the AFS-1 and AD-37 was developed primarily from studies performed in late 1976. The AE-26 data is based upon the same study, plus the cost and experience gained during the recently completed yard modification to civilian manning on the USNS KILAUEA (T-AE-26).

Because these data were generated primarily from the 1976 study and without the benefit of shipcheck, a caution must be noted. A high confidence level is placed upon the data if the assumed conditions were, in fact, the actual conditions existing on board the ships. It is emphasized that MSC has not visited the ships in question and has assumed a "typical" material condition and arrangement problems reflected by recent civilian manning of fleet ships experience.

Further, the 1976 study concluded that civilian manning of the AD-37 was impracticable due to crew size and limited space. The cost of making the space available also contributed to the impracticable assessment. (The validity of that evaluation is upheld by the current reassessment of the AD-37 CIVMOD.)

The data provided is considered of "study quality", however, if refined budget estimates are required, MSC will have to visit the ships and perform in-depth study of material conditions and solutions to CIVMOD problems.

T. W. ALLEN

Engineering Officer

Romas Walle

Enclosures (3)

AE-26 Class

Assumptions

- 1. Material conditions good to excellent as found on the KILAUEA
- 2. Material upgrade of UNREP equipment costs are not part of the study, but costs to be incurred under either operational scenario.
- 3. The additional 7,000 sq. ft. of space in the deck house can be added without extraordinary measures.

Manning Scale Increase

Due to the size of the proposed crew quarters and support of an additional 38 people, an increased deck house must be provided. An estimated 7,000 sq. ft. (gross) addition to the deck house over and above the KILAUEA modifications.

One-Time Costs

\$4,500,000	-	Repair,	overhaul,	dry	dock,	regulatory	inspection	and
		mainten	ance					

\$18,500,000	-	Habitability modifications, support systems, and other
		changes required for civilian manning (includes estimated
		\$2,500,000 addition to support increase manning).

Recurring Costs

7 A

Fuel Consumption data is presented rather than costs so that the exact scenario may be calculated

452	BBLS/Day	Underway	
325	BBLS/Day	Underway	Feplenishing
100	BBLS/Day	In Port	•

Maintenance/Repair costs are budgeted on a yearly basis. Costs are normally presented as an overhaul/non-overhaul year which would be:

\$5,542,000 per year with an overhaul, or \$4,675,000 per year without an overhaul.

The Following Average Costs Apply:

Overhaul	\$1,950,000
Mid-Period Repairs	1,200,000
Voyage Repairs	1,940,000
Alterations	830,000
Extraordinary Repairs	678,000
Accident/Damage	35,000

AFS-1 Class

Assumptions

- 1. Material conditions good to excellent as found on the KILAUEA
- 2. Material upgrade of UNREP equipment costs are not part of the study, but costs to be incurred under either operational scenario.
- 3. The additional 3,000 sq. ft. of space in the deck house can be added without extraordinary measures.

Manning Scale Increase

Due to the size of the proposed crew quarters and support of an additional 10 people, an increased deck house must be provided. An estimated 3,000 sq. ft. (gross) addition to the deck house over and above the KILAUEA modifications.

One-Time Costs

\$4,500,000	-	Repair,	overhaul,	drydock,	regulatory	inspection	and
		mainten	ance				

\$19,750,000 - Habitability modifications, support systems, and other changes required for civilian manning (includes estimated \$1,000,000 addition to support increase manning).

Recurring Costs

Fuel Consumption data is presented rather than costs so that the exact scenario may be calculated.

374	BBLS/Day	Underway
291	BBLS/Day	Underway Replenishing
90	BBLS/Day	In Port

Maintenance/Repair costs are budgeted on a yearly basis. Costs are normally presented as an overhaul/non-overhaul year which would be:

\$5,542,000 per year with an overhaul, or \$4,675,000 per year without an overhaul.

The Following Average Costs Apply:

Overhaul	\$1,950,000
Mid-Period Repairs	1,200,000
Voyage Repairs	1,940,000
Alterations	830,000
Extraordinary Repairs	678,000
Accident/Damage	35,000

AD-37 Class

Assumptions

- 1. Material conditions good to excellent as found on the KILAUEA
- 2. Material upgrade of UNREP equipment costs are not part of the study, but costs to be incurred under either operational scenario.
- 3. Satisfactory store material handling arrangements, and messing can be arranged for both civil service mariners and either military or civilian repair crews.
- 4. Costs will be greatly increased due to the significant difficulty in getting to some work areas, the extensive "unmodified" areas which must be preserved and protected.
- 5. Material condition of this ship is anticipated to require more work than KILAUEA
- 6. All repair crew, if housed aboard, will go in unmodified Navy berthing compartments.

One-Time Costs

\$6,000,000 Overhaul - Repair, overhaul, drydock, regulatory inspection and maintenance

\$26,000,000 CIVMOD - Habitability modifications, support systems, and other changes required for civilian manning.

Recurring Costs

No data for fuel usage available.

Maintenance/Repair costs are budgeted on a yearly basis. Costs are normally presented as an overhaul, non-overhaul year which would be:

\$6,650,000 per year with an overhaul, or \$4,980,000 per year without an overhaul.

The Following Average Costs Apply:

Overhaul	\$2,400,000
Mid-Period Repairs	1,430,000
Voyage Repairs	2,100,000
Alterations	1,000,000
Extraordinary Repairs	500,000
Accident/Damage	35,000

AD-37 Class (cont.)

Caution

70

The AD-37 was not favorably reported for CIVMOD in the 1976 study and limited file data is available to fall back upon. As a result there is considerably less confidence in the data presented than for the other ships. It was assumed, on the basis of data available, that it would make no difference in the cost to modify the ship for either military or civilian repair crew. This assumption is probably unrealistic, but the way presented to MSC makes the assumption necessary and rational.

APPENDIX K COMMERCIAL CONTRACT MANPOWER COST CALCULATIONS

COMMERCIAL CONTRACT MANNING NECC TAE-26 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY 82 \$)

DIRECT LABOR COSTS	
Base Pay	\$2,669,907
Mon-Watch Pay	74,839
Overtime (37% Base Pay)	987,866
Indoctrination & Training	•
Training Lundberg	434,966
Employment Commission	83,280
Special Account/Trans Inst	31,572
Automation Differential	
Travel (2% Base Pay -AF-58 (CIVMAN))	53,398
Ammunition Bonus (10% Base Pay)	266,991
Pringe Benefits	
Retirement	917,086
Life and Realth Insurance	66,218
Annual Leave	1,447,075
Social Security Payroll Tax (6.7% base pay)	178,884
Feinberg	231,323
P&I Insurance	1,334,141
SUBTOTAL	\$8,777,546
4% MSC Overhead	351,102
Total Civilian Manpower Cost	\$9,128,648

COMMERCIAL CONTRACT MANNING
NECC TAE-26
WAGE SCALE COST/MONTH (FY825)
A-2/Steam Single Shaft/!nautomated

		BASE	- 202	VACA/		WELP/		TRAIN	Valo-	EMP.	SPRC	SUPP.	
		WAGE	WATCH	SUP FD	PENS TON	MED	FETNBERG	LUND	MATION	COMP	TRARECTAS:	PENS.	TOTAL
Master	(16)	5007.29	1402.14	6651.06	1858.73	374.70	1712.15	84.00	0.0	16.50	16.20	0.0	17.122.77
Pirst Officer	(17)	\$128.24	1435.94	6359.37	1903.61	749.40	2033.80	168.00	0.0	33.00	32.40	0.0	17,843.76
Second Officer (W)	(E)	2314.85	0.0	2870.60	854.28	374.70	945.97	84.00	0.0	16.50	16.20	0.0	7,482.10
Third Officer (W)		4131,10	0.0	5122.86	1533.47	769.40	1750.05	16.8		3	37 60		13, 520, 28
Rostswain	1	3582.44	0.0	933.00	750.00	0	0.0	461 20		200	5	000	\$ 845 64
Carpenter		1457.59	0.0	466.50	375.00			231.60		5	20.50		2 580 10
A Mare	(786)	9505, 62	0,0	2799 00	2250 00	9.0		00' 10"		2.5	20.00	9.0	61.600,2
	(7897)	10 866 61		200.6617	27.00	0.0	0.0	1368.90		201.02	90.00	0.0	16,295.22
(a) av 60		16185 00		1 1005 00	11380 00	0.0	0.0	2084.40		191.50	135.00	0.0	21,039.93
AB (U)		10103.03	20	13993.00	00.00711	0.0	0.0	6948,00		305.00	450.00	0.0	70,133.09
\$0 \$¢		45427.34	0.0	20992.50	16875.00	0.0	0.0	10422.00		957.50	675.00	0.0	93,349.34
Chief Engineer		4403.52	1233.06	2946.59	2311.00	330.00	2024.59	60.00		18.78	28.20	C	16, 355, 76
First Asst. Eng. (D)		2756.43	771.84	2856.13	1446.59	330.00	1861.93	90.09		18 78	78 20		10 179 90
Second Asst. Eng. (D)		4976.92	1393.60	5156.94	2611.92	660.00	2508.24	120.00		32 46	7 72		17 571 58
Third Ager, the. (tt)	(236)	1976.97	. 0.0	\$156.94	2611.92	660.00	2508.24	20.00		2	0,000	9 0	00.120,71
	(258)	19 1999	0	FE 2009	1605 01	000	36.38 92	180 00		37.30	26.40	0.0	96.121.01
Chief Wheeler Codes (D)	(800)	77 1861		466 50	175.00	20.00	76.00	23160)) (26.34	84.60	0.0	21,809.53
tracellation (a)	}	. KOKO 118		- 48 C . OO .	00.001	•		20.103	5.0	43.50	12.00	0.0	2,995.37
Second Electrician (UI	(801)	93.60	?	1666.00	1200.00		0.0	926.40	0.	174.00	60.00	0.0	11,495.48
Refrie Bagineer (D)	(409)	1787.09	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.30	15.00	0.0	2.918.69
Second Refrig. Eng. (D)		3176.08	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00		5439.28
Deck Engineers	_	5912.92	0.0	1866.00	1500.00	0.0	0.0	926.40	0.0	174.00	60.00	0.0	10.439.32
2 Nachinsat/Plumber	(100)	3195,12	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	0	5,458.32
Oiler (W)	(805)	3618.51	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	65.00		7,013,31
FWT (W)	(80)	3618.51	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00	0.0	7,013,31
Winer (W)	(816)	3361.23	0.0	1399.50	1125.00	0.0	0	A96 BO	0.0	130.50	5.5		6,756.03
Utilitymen	(815)	5569.04	0.0	1866.00	1500.00	0.0	0.0	926.40		174.00	60.00	0	10,095.44
Chief Steward	(823)	1584.27	0.0	466.50	375.00	0.0	0.0	231.60		43.50	15.00	0.0	2,715.87
Chief Cook	(826)	1408.14	0.0	466.50	375.00	0.0	0.0	231.60		43.50	15.00	0.0	2,539,74
Cook/Raker	(829)	1372.54	0.0	466.50	375.00	0.0	0.0	231.60		43.50	15.00	0.0	2,504.14
Cooks	(828)	3569.61	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00	0.0	17. 496.9
Notation	(830)	5612.88	0.0	2799.00	2250.00	0.0	0.0	1389.60		261.00	90.00	0.0	12,402.48
Ptilitymen	(830)	11225.76	0.0	5598.00	4500.00	0.0	0.0	2779.20		522.00	180.00	0.0	24,804,96
Pantryman	(830)	935.48	0.0	466.50	375.00	0.0	0.0	231.60		43.50	15.00	0.0	2,067.08
Leundrymen	(830)	1870.96	0.0	933.00	750.00	0.0	0.0	461.20		87.00	30.00	0.0	4,134,16
Purser	(658)	1540.84	0.0	1167.33	285.00	150.00	246.51	0.0		30.00	0.0	197.20	3,516,88
Nurse	(199)	1979.58	0.0	1491 .46	285.00	150.00	246.52	0.0	0.0	30.00	0.0	124.20	4,306.76
Supply Officer	(836)	1925.56	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	3,057.16
Asst. Supply Officer	(781)	1506.25	0.0	466.50	175.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	2,637,85
Yeomen/Storekeepers	(181)	4518.75	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00	0.0	7,913.55
TOTAL	22	222,492.26	6236.58	19'685'07'	76,202.45	5,518.02	19, 276.92	36,247.02	0	6940.02	2631.00	221.40	494,355.64
				,									

COMMERCIAL CONTRACT MANNING NECC TAFS-1 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT.

(FY 82 \$)

Base Pay	\$2,948,207
Non-Watch Pay	89,761
Overtime (55% Base Pay)	1,621,514
Indoctrination & Training	
Training/Lundberg	473,875
Employment Commission	90,582
Special Account/Trans Inst	34,092
Automation Differential	56,047
Travel (2% Base Pay AF-58 CIVMAN)	58,964
Fringe Benefits	
Retirement	998,732
Life and Health Insurance	66,218
Annual Lease	1,574,543
Social Security Payroll Tax (6.7% base pay)	197,530
Feinberg	239,617
P&I Insurance	1,276,143
SUBTOTAL	\$9.725,825
48 MSC Overhead	389,033
Total Civilian Manpower Cost	\$10,114,858

COMMERCIAL CONTRACT MANNING
NECC TAFS-1
MAGE SCALE COST/MONTH (FY825)
A-2/Steam Single Shaft/Automated

	BASE	NON	VACA/		/3 (37		1	1		SPEC./		
	WACE	WATCH	SUP FD	PENSION	MED	FEINBERG	LIND	MATION		ACCT/	SUPP.	TOTAL
l Master (D) (16	6) \$007.29	1407 14	7116.16	,,,,,,	27, 70	77 7301	70 70	70 077	3			
2 lst Officer (D) (17)		70 51 71	6005 300	19.4507	3/6./0	1034.04	00.00	360.94	16.30	16.20		18757.18
3		6.00	3153 55	2093.97	749.40	21.4.73	168.00	656.42	33.00	32.40		19472.40
		9 6	00.7016	945.21	374.70	1011.84	96.00	296.30	16.50	16.20		8217.26
	_	9.0	933.14	1686.82	04.64/	1867.61	188.00	413.11	33.00	32.40	-	14716.58
· •		9.0	933.00	750.00	0.0	0.0	463.20	0.0	87 J.G	30.00	!	\$845.64
3	786) 0505 43	0.0	966.50	375.00	0.0	0.0	231.60	0.0	43.50	12.00	:	2589.19
		0.0	2799.00	2250.00	0.0	0.0	1389.60	0.0	761.00	90.00		16795 22
Ordinary Commercial (B)		0.0	13062.00	10500.00	0.0	0.0	6484.80	0.0	1218.00	420.00		95 (5759
An (c)	τ, . i	0.0	19126.50	15375.00	0.0	0.0	9495.60	0.0	1783.00	615.00		85051 12
	=	0.0	4198.50	1175.00	0.0	0.0	2084.40	0.0	391.50	135.00	-	21.100.0
9	•	1233.06	6541.24	2542.10	330.00	2201.75	60.00	567 66	19 78			17071
	4) 2756.43	771.84	3141.75	1591 25	130.00	1477.83	60.00	357 83	10.01	07.07		10.227
_	•	1393.60	5672.62	701.1.	00.000	97 90 6	20.00	222.03	10.70	07.87	-	16.62601
2 3rd Asst. Eng. (D) (257)		1243.50	5061.70	20/3.10	00.000	04.00.7	120.00	637.06	37.25	26.40	!	19135.74
3 3rd Asst. Eng. (D) (25g)		5	7507 55	5 Y	00.000	77.1.57	00.021	900	37.56	26.40	-	17099.14
<u> </u>	(4)) c	1866 000	1845.52	00.086	3/06.91	180.00		56.34	84.40	:	23783.47
		9.0	00.0001	1500.00	0.0	0.0	926.40	0.0	174.00	90.00	-	10439.32
	- (0.0	466.30	375.00	0.0	0.0	231.60	0.0	43.00	15.00	!	2995.37
		0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	!	5747.74
-		0.0	1399.50	11,25.00	0.0	0.0	694.80	0.0	130.50	92.00		8621.61
3	5) 3618.51	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00		7013.31
	_	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00		2523.86
(e) #		-0.0	- 1399,50	1125 00	0.0		70 F 80	0	130.50	8	! ! !	7571 58
•	•	0.0	1399.50	1136 00			00. 404		130 50	90.54	1	ני נוטג
3 F/VT (W) · (807)	7) 3618.51	0.0	1399.50	1136 00			00.400		130.50	00.00	!	10:0:01
3 Wiper (W) (816)		0.0	1399.90	00.6211			00.560	9 6	200	20.00		7013.31
(D)	_		766 50	1125.00	0.0	0.0	694.80	0.0	130.30	45.00		6756.03
		9.0	06.00*	375.00	0.0	0.0	231.60	0.0	43.50	15.00		2715.87
		0.0	455.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	1	2539.74
	20.049.06	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00		\$008.28
	-:	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	-	2321.47
Tricymen (D)	_	0.0	5598.00	4500.00	0.0	0.0	2779.20	0.0	522.00	180.00		24804 96
_	0) 5612.88	0.0	2799.00	2250.00	0.0	0.0	1389.60	0.0	261.00	90.00		12402 48
ê		0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00		20167 08
_		0.0	466.30	175 00	0.0	0	731 60	0.0	77	20		200
drymen (D)		0.0	466.50	375 00	0		231 60		20.00	8	0.0	90.790
1 Purser (D) (658)	8) 1540.84	-	1167.33	20.70	9	200	201.167		45.30	15.00	0.0	2067.08
1 Murae (D) (661)	_	0.0	1491.46	00.007	00.001	246.31	•		30.00		97.20	3516.88
Supply Officer (D) (R16)	_		05 997	282.00	150.00	246.31	-		30.00		124.20	4306.75
3			766.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00		3057, 16
25 Yerman/Arcreheener (D) (191)	•		400.30	375.00	0.0	0.0	231.60	0.0	43.50	15.00		2617 RS
		0.0	6 6. 740 1	9375.00	0.0	0.0	5789.99	0.0	1087.50	375.00	-	65946.23
TOTAL	90 189576	7480.08	13121190	81006 26	5518 20	80 83801	00700	;			:	
					23.010	1 3300 00	33469.39	4670.55	7548.52	2841.00	221.40	547639.52
Cost/Year	2948207, 30	89760 96	89760 96 1574542.80	996075.12	66218.04	219616.96 471875 NR		56066 06 0	90.582.24	26.09.00	3656 80	6571674.20

COMMERCIAL CONTRACT MANNING PROPOSED MSC CREW-TAE-26 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY82\$)

DIRECT LABOR COSTS \$2,067,892 Base Pay Non-Watch Pay 82,617 765,120 Overtime (37% Base Pay) Indoctrination & Training 281,226 Training/Lundberg Employment Commission 58,656 Special Account/Trans Inst 22,435 Ammunition Bonus (10% Base Pay) 206,789 41,358 Travel (2% Base Pay AF-58(CIVMAN)) Fringe Benefits Retirement 679,153 Life and Health Insurance 60,098 1,139,984 Annual Lease 138,549 Social Security Payroll Tax (6.7% base pay) **Feinberg** 204,182 P&I Insurance 955,213 \$6,703,272 SUBTOTAL 4% MSC Overhead 268,131 \$6,971,403

Total Civilian Crew Cost

COMMERCIAL CONTRACT MANNING PROPOSED MSC CREW-TAE-26 WAGE SCALE COST/MONTH (FY82\$) A-2/Steam Single Shaft/Unautomated

70

(

MON WALD HELF FERINBERG TALINI AUTON- 1402.14 6517.06 1495.41 374.70 1712.13 84.00 0.0 1402.14 6519.37 1903.61 149.40 2033.80 186.00 0.0 1435.34 6359.37 1903.61 149.40 2033.80 186.00 0.0 0.0 512.28 1575.00 0.0 0.0 648.20 186.00 0.0 0.0 4188.20 2870.60 0.0 0.0 0.0 648.20 0.0 0.0 4188.20 375.00 0.0 0.0 0.0 2211.60 0.0 0.0 4188.50 3175.00 0.0 0.0 0.0 2211.60 0.0 0.0 1199.50 1125.00 0.0														
Langer (U) (16) 500.739 1402.14 6543.06 1878.73 174.770 1772.15 184.00 0.0			BASE	- NON	VACA/		WELF/		TRAIN/	VOTO-	EMPL	SPEC	SUPP	
Color Colo			WAGE	WATCH	SUP FD	PENSION	Æ	FEINBERG	COND	MATION	COMO	ACCT/	PENS	TOTAL
Color Colo	- Master		07.79	1402.14	6651.06	1858.73	377.70	1712.13	84.00	0.0	16.50	TRANS 188	0	17133 77
Color Colo	3 51-14 Officer (B)	•	28.24	1435.96	6159.33	1903.61	769 60	2037 80	168.00		33.00	12 40		11.22111
Color Colo	tribe on the (b)	, ,	70 71	00 079	3870 40	850 28	377.	20.5.00	20.00		20.21	26.37		1/843./6
Color	Second Officer (W)	1		0.00	00.000	07.600	01.4.0		20.50	0.1	10.30	07.01	0.0	
(186) (788) 1457.39 0.0 4565.0 775.00 0.0 0.0 0.1465.20 0.0 min (witt.) (788) 1457.39 0.0 4565.0 775.00 0.0 0.0 0.0 2316.0 0.0 min (witt.) (788) 1457.39 0.0 4565.0 775.00 0.0 0.0 0.0 2316.0 0.0 min (witt.) (789) 1665.31 0.0 11196.00 9000.00 0.0 0.0 0.0 2711.60 0.0 min (witt.) (789) 2828.49 0.0 0.1 11196.00 9000.00 0.0 0.0 0.0 2773.2 min (witt.) (789) 2828.49 0.0 0.1 1196.00 9000.00 0.0 0.0 0.0 0.0 2773.2 min (witt.) (789) 2828.49 0.0 0.1 1196.00 9000.00 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (789) 2828.49 0.0 0.1 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 min (witt.) (789) 2828.49 0.0 0.1 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 min (witt.) (800) 1574.18 0.0 0.0 6402.13 1446.59 330.00 1861.93 60.00 0.0 min (witt.) (800) 1574.18 0.0 0.0 6402.13 1446.59 90.00 0.0 0.0 0.0 0.0 min (witt.) (801) 6969.00 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (801) 6969.00 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (801) 1649.14 0.0 1186.00 1500.00 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (802) 1574.13 0.0 0.0 1866.00 1500.00 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (802) 1574.24 0.0 1186.00 1500.00 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (803) 1574.24 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (803) 1574.24 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (803) 1574.24 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (803) 1574.24 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (803) 1574.24 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 min (witt.) (803) 1574.24 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2 Third Officer (W)	•	01.10	0.0	2177.86	1555.47	149.40		99.99	0.0	33.00	32.40	0.0	
tree (b) (788) 1497.59 0.0 4198.50 1375.00 0.0 0.0 1138.0 0.0 m (v) (788) 1497.59 0.0 4198.50 1375.00 0.0 0.0 1151.60 0.0 m (v) (789) 10855.53 0.0 4198.50 1375.00 0.0 0.0 0.0 1158.00 0.0 season (visitat.) (789) 2828.40 0.0 1199.50 1125.00 0.0 0.0 0.0 0.0 1158.00 0.0 treer (b) (253) 4403.52 133.06 3446.59 3111.00 310.00 2204.59 46.00 0.0 tr. Eng. (b) (253) 4976.23 1711.84 2256.43 1311.00 310.00 2204.59 46.00 0.0 tr. Eng. (b) (253) 4976.22 1393.06 3146.59 3101.00 310.00 2204.59 46.00 0.0 tr. Eng. (b) (253) 4976.22 1393.06 3146.59 3101.00 310.00 2204.59 46.00 0.0 tr. Eng. (b) (253) 4976.22 1393.00 3165.44 261.00 0.0 0.0 0.0 0.0 0.0 tr. Eng. (b) (253) 4976.22 1393.00 3165.44 261.00 0.0 0.0 0.0 0.0 0.0 tr. Eng. (b) (253) 4976.22 1393.00 3165.44 261.00 0.0 0.0 0.0 0.0 0.0 0.0 tr. Eng. (b) (253) 4976.22 1393.00 3165.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 tr. Eng. (b) (253) 4976.22 1393.00 315.44 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2 Roewn (D)	_	82.44	0.0	933.00	750.00	0.0		463.20	0.0	87.00	30.00	0.0	5845.64
The column col	1 Carpenter (D)	_	57.59	0.0	466.50	375.00	0.0		231.60	0.0	43.50	15.00	0.0	
Color Colo	5 Bosun's Mate (D)		21.35	0.0	2332.50	1875.00	0.0		1158.00	0.0	217.50	75.00	0.0	13579.35
### (#414.1) (789) 28948.07	9 Able Seamen (V)	=	55.53	0.0	4198.50	3375.00	0.0		277.92	0.0	391.50	135.00	0.0	
Company	26 Able Seemen (Mednt.)	28	148.07	0.0	11196.00	9000.00	0		\$558.40	0.0	1044.00	360.00	0	
The color	2 O-14-per Senson	,	28 69		1399 50	1125.00		,	694 80		1 30 50	45.00		
Tr. Fing. (D) (253) 4976-92 1231-06 2366-13 1446-59 3010-00 2012 1	3 Ordinary Semen	•			00.000	20.51.6			00.400	9.0	00.00	3.5	•	
TETRICAL (1) (254) 2756.43 771.84 2705.13 1446.29 310.00 1861.93 60.00 0.0 TETRICAL (1) (258) 6661.41 0.0 6902.33 3495.93 990.00 1461.93 60.0 0.0 TETRICAL (1) (802) 1863.77 0.0 466.50 175.00 0.0 0.0 0.0 0.0 0.0 TETRICAL (2) (803) 1863.77 0.0 466.50 175.00 0.0 0.0 0.0 0.0 0.0 0.0 TETRICAL (2) (803) 1863.77 0.0 466.50 175.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 TETRICAL (2) (803) 1863.77 0.0 11399.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	I Chief Engineer (D)	•	20.00	1233.00	3940.39	00.1162	330.00		00.00	9.	10.75	07.97	0.0	
tr. Eng. (D) (255) 4976.92 11913.60 5156.94 2611.92 660.00 2508.24 120.00 0.0 11. Eng. (W) (258) 6661.41 0.0 6902.33 3495.93 990.00 3438.92 180.00 0.0 12. Exterior (D) (809) 1554.18 0.0 4935.00 1750.00 0.0 0.0 0.0 0.0 0.0 13. (809) 1554.18 0.0 466.50 1750.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (809) 1554.18 0.0 1865.00 1750.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (809) 1554.18 0.0 1866.00 1500.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (800) 6995.08 0.0 1866.00 1500.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (800) 1615.1 0.0 1866.00 1500.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (815) 4416.78 0.0 1399.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (815) 4416.78 0.0 1399.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (815) 4416.78 0.0 1399.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 13. (815) 4481.64 0.0 1399.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 14. Salact (829) 1372.54 0.0 466.50 375.00 0.0 0.0 0.0 231.60 0.0 15. (818) 1372.54 0.0 466.50 375.00 0.0 0.0 0.0 0.0 0.0 0.0 16. (819) 6548.34 0.0 0.0 3265.50 150.0 0.0 0.0 0.0 0.0 0.0 0.0 16. (810) 6548.34 0.0 0.0 3265.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17. (810) 1979.58 0.0 1461.46 285.00 150.00 0.0 0.0 0.0 0.0 0.0 18. (810) 1372.54 0.0 1461.46 285.00 150.00 0.0 0.0 0.0 0.0 0.0 18. (810) 1372.54 0.0 1461.46 285.00 150.00 0.0 0.0 0.0 0.0 0.0 0.0 18. (810) 1372.54 0.0 1461.46 285.00 150.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	I First Asst. Eng. (D)	7	56.43	771.84	2856.13	1446.59	330.00		90.00	0.0	18.78	28.20	0.0	
ter Tander (W) (807) 1845.75	2 Second Asst. Eng. (D)	•	76.92	1393.60	5156.94	2611.92	660.00	2508.24	120.00	0.0	37.56	26.40	0.0	
trician (D) (800) 1863.77	3 Third Asst. Eng. (W)	•	14.19	0.0	6402.33	3495.93	990.00	3438.92	180.00	0.0	56.34	84.60	0.0	
Machinist (D) (809) 3574.18 0.0 933.00 750.00 0.0 0.0 664.80 0.0 Machinist (D) (803) 4434.59 0.0 1199.50 1125.00 0.0 0.0 664.80 0.0 Machinist (D) (801) 6699.44 0.0 1866.00 1500.00 0.0 0.0 0.0 926.50 0.0 Ilityman (815) 4176.78 0.0 1399.50 1125.00 0.0 0.0 0.0 926.40 0.0 Ilityman (815) 4481.64 0.0 1399.50 1125.00 0.0 0.0 0.0 694.80 0.0 Ilityman (815) 4481.64 0.0 1399.50 1125.00 0.0 0.0 0.0 694.80 0.0 Ilityman (828) 1584.27 0.0 1866.50 1500.00 0.0 0.0 0.0 694.80 0.0 It State (829) 1372.34 0.0 466.50 375.00 0.0 0.0 0.0 231.60 0.0 It State (829) 1372.34 0.0 466.50 375.00 0.0 0.0 231.60 0.0 Ilityman (830) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 Ilityman (830) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 Ilityman (830) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 Iliter (84) 1723.76 0.0 2495.60 150.00 0.0 246.51 0.0 0.0 Iliter (84) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 Iliter (84) 1975.56 0.0 1491.46 285.00 0.0 0.0 0.0 0.0 0.0 0.0 Iliter (84) 13224.33 6884.78 94698.63 54250.33 5008.20 17015.18 23435.23 0.0 Iliter (84) 172324.35 6884.78 94698.63 54250.35 5008.20 17015.18 23435.25 0.0 Iliter (84) 172324.35 6884.78 94698.63 54250.35 5008.20 17015.18 23435.25 0.0 Iliter (84) 172324.35 6884.78 94698.63 54250.35 5008.20 17015.18 23435.25 0.0 Iliter (84) 172324.35 6884.78 94698.63 54250.35 5008.20 17015.18 23435.25 0.0 Iliter (84) 172324.35 6884.78 94698.63 54250.35 5008.20 17015.18 23435.25 0.0 Iliter (84) 172324.35 6884.78 94698.63 54250.35 5008.20 17015.18 234355.25 0.0 Iliter (84) 17015.96 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Iliter (Chief Flectrician (B)		63.77	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	
Hachinist (D) (803) 4434.69 0.0 1399.50 1125.00 0.0 0.0 0.0 694.80 0.0 Secritism (D) (801) 6969.08 0.0 1866.00 1500.00 0.0 0.0 926.50 0.0 Hiltyman (R15) 4176.78 0.0 1399.50 1125.00 0.0 0.0 0.0 926.40 0.0 Her Tander (W) (807) 3618.51 0.0 1399.50 1125.00 0.0 0.0 0.0 694.80 0.0 Her Tander (W) (815) 4411.64 0.0 1399.50 1125.00 0.0 0.0 0.0 694.80 0.0 Her Tander (W) (815) 1564.27 0.0 1399.50 1125.00 0.0 0.0 0.0 694.80 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 2211.60 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 2211.60 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 2211.60 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 0.0 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 0.0 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 0.0 0.0 He Baher (R29) 1405.39 0.0 466.50 375.00 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R29) 1405.39 0.0 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R30) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R30) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R30) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R30) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R30) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 He Baher (R30) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 Deferte Fra (R)		74.18	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	0.0	
### (B15) (B04) (B04) (B05) 44	-	•	34.69	0.0	1399.50	1125.00	0.0	0.0	08, 469	0	130.30	45.00	0.0	
Color Colo	_	•	95 76	0.0	1866.00	1500.00	0.0	0.0	926.50	0	174 00	00 09	6	
Hittymen (815) 4176.78	3		80.09		1866.00	1500.00		-	976.40		176 00	90.09		
tt Sales (815) 1618.51 0.0 1399.50 1125.00 0.0 0.0 654.80 0.0 ster Tander (W) (807) 3618.51 0.0 1399.50 1125.00 0.0 0.0 0.0 654.80 0.0 ster Tander (W) (807) 3618.51 0.0 1399.50 1125.00 0.0 0.0 0.0 0.0 0.0 ster Tander (W) (807) 3618.51 0.0 1399.50 1125.00 0.0 0.0 0.0 0.0 0.0 0.0 k & Sales (825) 1544.27 0.0 466.50 375.00 0.0 0.0 0.0 221.60 0.0 k & Sales (826) 1405.39 0.0 466.50 375.00 0.0 0.0 221.60 0.0 stylater (828) 2137.54 0.0 933.00 750.00 0.0 0.0 463.20 0.0 stylater (830) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 stylater (830) 1870.96 0.0 933.00 750.00 0.0 0.0 1621.20 0.0 stylater (830) 1525.76 0.0 5598.00 0.0 0.0 0.0 1621.20 0.0 stylater (831) 1975.86 0.0 1167.33 285.00 150.00 246.51 0.0 0.0 stylater (831) 1975.86 0.0 1491.46 285.00 150.0 0.0 0.0 443.20 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 246.51 0.0 0.0 stylater (831) 1975.86 0.0 1491.46 285.00 150.00 0.0 0.0 443.20 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 246.51 0.0 0.0 stylater (831) 3012.50 0.0 1491.46 285.00 150.00 0.0 0.0 246.51 0.0 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 246.51 0.0 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 246.51 0.0 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 246.51 0.0 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 0.0 246.51 0.0 0.0 stylater (831) 3012.50 0.0 933.00 750.00 0.0 0.0 0.0 246.51 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		•	76.78		1309 50	1125.00			694 AO		05.06.1	90.50		
Section Color Co	fingine of the man	, ,			1300 60	20.5511			00.400		00.00	00.5		
### (816) 1918-31 0.0 1199-30 1123-00 0.0 0.0 0.94-80 0.0 #################################	3 011er (B)	1	18.31	0	1399.50	00.6211	0.0	0.0	08.960	9.0	00.061	90.00	0.0	
Section Sect	3 Fireman/Water Tander (W)	•	18.51	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00	0.0	
### (829) 1954.27 0.0 466.50 375.00 0.0 0.0 231.60 0.0 #################################		ď	81.64	0.0	1866.00	1500.00	0.0	0.0	926.40	ပ ပ	174.00	90.00	0.0	
eard (769) 1405.39 0.0 466.50 375 00 0.0 0.0 231.60 0.0 t. f. Baker (826) 1406.14 0.0 466.50 375.00 0.0 0.0 231.60 0.0 t. f. Baker (829) 1372.54 - 466.50 375.00 - - 463.20 - t. f. Baker (827) 2412.34 - 933.00 750.00 - - 463.20 - t. g. Baker (830) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 n (830) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 n (830) 1670.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 n (830) 1420.96 0.0 3265.50 2625.00 0.0 0.0 273.20 0.0 n (659) 1420.46	1	_	84.27	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	
Reference Resp. 1408.14 0.0 466.50 375.00 0.0 0.0 231.60 0.0	1 Third Steverd	_	05.39	0.0	466.50	375 00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	
k & Baker (829) 1372.54 - 466.50 375.00 - 231.60 - 463.20 - - 463.20 - - 463.20 - - 463.20 - - 463.20 - - 463.20 - - 463.20 - - 463.20 0.0 - - 463.20 0.0 - - 463.20 0.0 - - - - - - <th>1 Chief Cook</th> <td>_</td> <td>98.14</td> <td>0.0</td> <td>466.50</td> <td>375.00</td> <td>0.0</td> <td>0.0</td> <td>231.60</td> <td>0.0</td> <td>43.50</td> <td>15.00</td> <td>0.0</td> <td></td>	1 Chief Cook	_	98.14	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	
Name (827) 2412.34 - 933.00 750.00 - - 463.20 - tryman (830) 1870.36 0.0 933.00 750.00 0.0 60.0 463.20 0.0 n (830) 1870.36 0.0 933.00 750.00 0.0 0.0 463.20 0.0 n (830) 1870.36 0.0 3265.50 2625.00 0.0 0.0 1653.20 0.0 n (830) 1420.46 0.0 3265.50 2625.00 0.0 0.0 1751.20 0.0 r (641) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 ficer (841) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 ficer (841) 3012.56 0.0 4491.46 285.00 0.0 0.0 246.51 0.0 ficer (841) 3012.56	1 Night Cock & Baker	-	72.54	1	466.50	375.00	•	,	231.60	•	43.50	15.00	•	
Columbia Columbia	2 Second Cook/Baker	~	12.34		933.00	750.00	•	•	463.20	•	87.00	30.00	٠	
(810) 1870.96 0.0 933.00 750.00 0.0 0.0 463.20 0.0 0.0 (810) 1870.96 0.0 933.00 750.00 0.0 0.0 0.0 (813.0) 6548.36 0.0 933.00 750.00 0.0 0.0 0.0 (813.0) 6548.36 0.0 5598.00 0.0	2 Anet Cook	•	70 76	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	0.0	
(830) 1870.96 0.0 933.00 750.00 0.0 0.0 6451.20 0.0 0.0 (830) 11225.66 0.0 5265.50 0.0 0.0 0.0 14511.20 0.0 0.0 14511.20 0.0 0.0 14511.20 0.0 0.0 0.0 14511.20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2 Third Pentresen		70.96	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	0.0	
(830) 6546.36 0.0 3265.50 2625.00 0.0 0.0 1621.20 0.0 0.0 (530) 11225.76 0.0 5598.00 4500.00 0.0 0.0 2779.20 0.0 0.0 (530) 11225.76 0.0 1167.33 285.00 150.00 246.51 0.0 0.0 0.0 (661) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 0.0 0.0 (661) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1		70.96	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	0.0	
(658) 1722.76 0.0 5598.00 4500.00 0.0 0.0 2779.20 0.0 0.0 (658) 1740.24 0.0 1167.33 285.00 150.00 246.51 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			36.00	0.0	1265.50	2625.00	0.0	0.0	1621.20	-	304.50	105.00	0.0	
(658) 1547-67 0.0 1167.33 285.00 150.00 246.51 0.0 0.0 (661) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 (661) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 0.0 (661) 1979.58 0.0 1491.46 285.00 0.0 0.0 246.51 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	12 Trademon	`=	26.26	0.0	5598.00	4500.00	0.0	0.0	2779.20	0.0	522.00	180.00	0.0	26806.06
Color 1979	The Control of the Co	•	70 07		1167.33	285 00	150 00	15 996		0	30 00	0	97.20	•
(61) 1979.58 0.0 1491.46 285.00 150.00 246.51 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	I furser	_			1401 46	285.00	20.05	246.51			00.00		124 20	
Colored 1975.56	Jr. ruraer		0.76		77 1071	20.00	20.03	27.6			20.00		7,7	
STERMEPPER (781) 3012.50 0.0 933.00 750.00 0.0 0.0 463.20 0.0 0.0 0.0 463.20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Purse	_ `	97.6	9.0	04.1441	175.00	20.00	16.042	0.0	9 6	20.00	0.01	07.47	
3012.50 0.0 933.00 /30.00 0.0 0.0 453.20 0.0 0.0 0.0 0.0 463.20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Supply Officer	61 (988)	92.57	9.0	400.30	37.00	0.0	0.0	00.162	6.6	43.30	00.00	5.0	
172324.35 6884.78 94898.63 54250.53 5008.20 17015.18 23435.52 0.0	2 Yeoman/Storekeepers	(781) 30	12.50	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00	0.0	
2063892.20 82617.36 1134983.56 67,006.36 69098.40 204182.16 281226.24 0.0	TOTAL	1723	24.35	6884,78	94,998.63	56250.53	5008.20	17,015.18	23435.52	0.0	4887.96	1869.60	345.60	383,020.35
0.0 \$2.02.00 01.100 04.0000 00.000000 00.000000 00.100.00000000						20000	07 0000	306.182 16	36 361 36		13 33703	00 3070	4147 20	00 7703037
	Annuel Cost	20676		82617.36		67.3WU6.30	60098.40	204182.10	281,226.29		58,655,52	22435.20		?

COMMERCIAL CONTRACT MANNING PROPOSED MSC CREW TAFS-1 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY82\$)

DIRECT LABOR COSTS	
Base Pay	\$2,123,915
Non-Watch Pay	80,816
Overtime (55% Base Pay)	1,168,153
Indoctrination & Training	
Training/Lundberg	318,859
Employment Commission	61,202
Special Account/Trans Inst	23,177
Automation Differential	48,387
Travel (2% Base Pay AF-58 CIVMAN)	42,478
Fringe Benefits	
Retirement	703,229
Life and Health Insurance	54,338
Annual Lease	1,171,877
Social Security Payroll Tax (6.7% base pay)	142,302
Feinherg	193,707
Pal Insurance	871,682
SUBTOTAL	\$7,004,122
4% MSC Overhead	280,165
Total Civilian Manpower Cost	\$7,284,287

COMMERCIAL CONTRACT MANNING PROPOSED MSC CREW TAFS-1

		;		WAGE SCALE COST/MO	WAGE SCALE COST/MONTH		_	•					
		BASE	-NON	VACA/		WEI.F/		TRAIN	AUTO-	EMPL	SPEC	SUPP	
		WAGE	WATCH	SIIP FD	PENSTON	#ED	FEINBERG	LUND	MATION	COMM TRANS.	ANS YNST	PENS	TOTAL
I Master	91	5007.29	1402.14	7316.16	2044.61	374.70	1854.64	84.00	640.94	16.50	16.20	0.0	18757.18
Officer (D)	(1)	5128.24	1435.94	6995.30	2093.97	149.40	2179.40	99.00	656.42	33.00	32.40	0.0	19472.07
_	(81)	2314.85	648.20	3157.66	945.21	374.70	1011.84	84.00	296.30	16.50	16.20	0.0	8865.46
•	(21)	4131,10	0.0	5635.14	1686.82	749.40	1867.61	168.00	413.11	33.00	32.40	0	16716.58
	(785)	3582.44	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00		78.65
ê	(788)	2915.18	0.0	933.00	750.00	0.0	0.0	463.20	0.0	87.00	30.00		51.70.18
•	(982)	9505.62	0.0	2799.00	2250.00	0.0	0.0	1389.60	0.0	261.00	90.00		16295 22
•	(86)	7237.02	0.0	2799.00	2250.00	0.0	0.0	1389.60	0.0	26: 00	00.06		14026 62
(total	(789)	36185 10	0.0	13995 00	11250.00	0.0	c	6948.00	0.0	1303 00	450.00		7013110
	(167)	2828.49	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00		6223.29
	(253)	6403.52	1233.06	92 1959	2562.10	330.00	2201.75	60.09	361 66	18 78	28.20		17922.31
(a)	(3%)	2756.43	771.84	3141.75	1591.25	330.00	1472.83	90.09	352.83	18.78	28.20	0	10523.91
_	(255)	2488.46		2836.11	1416.55	330.00	1356.26	60.00	118.53	18.78	28.20		8871.07
5	(257)	46.0444	1263.50	5061.70	2563.68	960.00	2471.28	120.00	568.44	37.56	56.40		17273 50
	(258)	2220.47	0.0	2530.85	1281.84	330.00	1235.64	60.00	222.05	18.78	28.20	0	7927.83
	(803)	2956.46	0.0	933.00	750.00	0.0	0.0	463.20	0	87.00	30.00		5219.66
3	(908)	4573.08	0.0	1399.50	1125.00	0.0	0.0	694.80	0.0	130.50	45.00	0	7967.88
	(800)	1861.77	0	466.50	175.00	0.0	0	231.60	0.0	43.50	15.00		2005 37
(E)	(808)	5226.81	0.0	1399.50	1125.00	0.0	0	694.80	0	130.50	45.00		8621 61
ì	(802)	1597 \$6		05 997	175.00	0.0		231 60		63.50	15.00		27.20 16
(4)	(182)	1506.75		466 50	375	0.0		97 156		25.54	8	9 6	26.27
,		14.84.54		913 00	35.00		9 6	00.163	9 6	2.20		9 6	60.1602
	(619)	4176 78		1399 50	20.00	0.0	0.0	403.20		20.00	90.00	9.0	7571 50
	(808)	34.18 53	9.0	1399 50	1125.00	0.0		00.400		130.50	2 2 2 2 2 2	9 9	7017 31
5 15	(808)	1618 51		1199 50	1125.00	0.0		00, 100		130 50	45.00	9 0	10.5
5	(802)	3618 51		1399 50	1125.00	0.0		00.769		130.50	82.54	9 6	1013.31
	(816)	1761 27		1 100 50	1125.00	0.0		8 769		130.50	45.00	9 6	6756 03
	(873)	1586 27		466 50	375.00	0.0		231 60		05.50	15.00	9 0	2715 87
S. C.	(828)	1189 87		466.50	275.00	0.0		23.60		41.50	15.00		23.67
Cook	(876)	14.08.14	, c	7,666.50	175.00	0.0		231.60	0	43.50	15.00	0.0	2539 76
!	(829)	2745.08		933.00	750.00	0.0	0	463.20	0	87.00	30.00		5008
	(828)	1189.87	0,0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	2321.47
	(830)	5612.88	0.0	2799.00	2250.00	0.0	0.0	1389.60	0.0	261.00	90.06	0.0	12402.48
	(830)	11225.76	0.0	5598.00	4 500.00	0.0	0.0	2779.20	0.0	522.00	180.00	0.0	24804.96
	(830)	935.48	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	2067.08
	(830)	935.48	0.0	466.50	275.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	2067.08
Irymen	(830)	935.48	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	2067.08
	(658)	1540.84	0.0	1167.33	285.00	150.00	246.51	0.0	0.0	30.00	0.0	97.20	3516.88
	(199)	1979.58	0.0	1491.46	285.00	150.00	246.51	0.0	0.0	30.00	0.0	124.20	4306.75
1 Supply Officer	(836)	1925.56	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	3057.16
1 Asst. Supply Officer	(833)	1506.25	0.0	466.50	375.00	0.0	0.0	231.60	0.0	43.50	15.00	0.0	2637.85
5 Yeoman Storekeepers	(181)	7531.25	0.0	2332.50	1875.00	0.0	0.0	1158.00	0.0	217.50	75.00	0.0	13189.25
Cost/Month		176992.95	6734.68	97,656.40	58381.03	4528.20	16,42.25	26,571.60	4032.28	5100.18 1931.40	1931.40	221.40	394292.37
	i									:			,
Annual Cost		2123915.40	80B16.16	1171876.80	700572.36	54,338.40	193707.00	318859.20 48387.36		61,202.1h 2	76.80	1656.80	61202.jk 2176.80 2656.80 4//3506.44

COMMERCIAL CONTRACT MANNING NECC OPERATING CREW TAD-37 ANNUAL FYDP AND ECONOMIC MANPOWER COST TO DOD AND U.S. GOVT. (FY 82 \$)

CE

DIRECT LABOR COSTS	
Base Pay	2,505,491
Nonwatch Pay	85,224
Overtime (46% Base Pay)	1,152,526
Indoctrination and Training	
Training/Lundberg	425,621
Employment Commission	81,516
Special Account/Trans Inst	30,838
Automatice Differential	
Travel (2% Base Pay - AF-58 CIVMAN)	50,110
FRINGE BENEFITS	
Retirement	895,702
Life and Health Insurance	61,722
Annual Leave	1,403,413
Social Security Payroll Tax (6.7% Base Pay)	167,868
Feinberg	216,032
P&I INSURANCE	1,142,383
SUBTOTAL	8,218,396
4% MSC OVERHEAD	328,736
TOTAL	8,547,132

COMMERCIAL CONTRACT MANNING NECC OPERATING CREW TAD-37 WAGE SCALE COST/MONTH (FY82\$)

		BASE	<u>+</u> 02	ACA\		WELF/		TRAIN/	AUTO	EMP.	ACCT/	SIPP	
		WACE	WATCH	SUP FD	PENSION	MED	PEINBERG	TUND	MATION	COPP.	TRANS. INST.	PENS.	TUTAL
1 Master(D)	(01.)	5321.45	1490.12	7068.36	1975.35	374.70	1801.55	84.00	0	16.50	16.20	0.0	18148.33
1 1st Officer (B)	(3)	2837.08	194.41	3518.19	1053.11	374.70	1094.58	84.00	0	16.50	16.20	0.0	9788.79
1 2nd Officer (W)	(15)	2472.11	692.25	3065.63	917.66	374.70	990.73	84.00	0	16.50	16.20	0.0	8629.78
2 3rd Officers(W)	(12)	4214.24	0	5225.97	1564.34	749.40	1773.71	168.00	0	33.00	32.40	0.0	13761.06
1 Bosum (0)	(185)	1791:22	0	466.50	375.00	0	0	231.60	0	43.50	15.00	0.0	2922.82
l Carpenter (D)	(788)	1457.59	0	466.50	375.00	0	0	231.60	0	43.50	15.00	0.0	2589.19
Bosun Mate (D)		1584.27	0	466.50	375.00	c	0	231.60	0	43.50	15.00	0.0	2715.87
4 AB (W)	1 (36)	7237-02	0 -	2799.00-	2250.00	0 :	•	1389.60	0	261.00	90.06	0.0	14026.62
13 AB(D)	(189)	15680.21	0	6064.50	4875.00	0	0	3010.80	0	565.50	195.00	0.0	30391.01
3 0S (B)	(16/	2828.49	0	1399.50	1125.00	0	0	694.80	0	130.50	45.00	0.0	6223.29
1 Teoman/Storekeeper(D)	-(181)	1506.25	6	466.50	375.00	0	0	231.60	0	43.50	15.00	0.0	2637.85
I Chief Engineer (D)	(542)	4818.48	1349.24	6506.93	2528.56	330.00	2191.53	90.09	0	18.78	28.20	0.0	17831.72
<pre>1 lst Asst. Engineer(D)</pre>	(346)	3049.86	853.99	3160.17	1600.58	330.00	1479.88	90.00	0	18.78	28.20	0.0	10381.56
1 2nd Asst. Engineer(D) -	- (143)	2657:52	744.18	2753.60	1394.70	330,00	1322.15	00.09	0	18.78	28.20	0.0	9309.2
1 3rd Asst. Engineer(D)	(220)	2265.16		2347.11	1188.78	330.00	1164.30	60.00	0	18.78	28.20	0.0	7402.32
3 3rd Asst. Engineer(W)	(220)	6795.45		7041.33	3566.34	990.00	3492.89	180.00	0	56.34	84.60	0.0	22206.95
1 Electricism (D)	(008)	1863.77	0	466.50	375.00	0	0	231.60	0	43.50	15.00	0.0	2995.37
3 2nd Electrician (D)	(801)	\$226.81	0	1399.50	1125.00	0	0	694.80	0	130.50	45.00	0.0	8621.6
2 Jr. Engineer(D)	(251)	4206.34	1177.84	4358.50	2207.52	960.00	2198.24	120.00	0	37.56	26.40	0.0	15022.40
- Refrig. Engineer(D)		1787.09	•	DS 1994	375.00	0	•	231.60	0	43.50	15.00	0.0	2918.69
Plumber/ Machinist (D)	(812)	1392.26	0	466.50	375.00	0	0	231.60	0	43.50	15.00	0.0	2523.86
3 Office(W)	666	3618.51	o (1399.50	1125.00	- (0 (694.80	0 (130.50	45.00	o. 6	7013.3
3 Offer(Evaporator)(W)	(602)	3616.51	θ	1399,50	1125.00	0	φ.	694.80	5	130.50		0.0	7013.3
3 PWT(W)	(208)	3618.51	٥ (1399.50	1125.00	-	0 (694.80	0 0	130.50	45.00	0.0	7313.31
S wiper(D)	(010)	3301.23	- (1399.30	00.6711	> 0	> 0	994.60	0	26.30		9 0	0.06/0
o other same	(619)	00.000		: 00:44/2	06.0677	- 0	, > c	1369.60	> 0	201.07	3 5)))	77143.10
1 Jad States	(620)	1304.27	> 0	466.30	375.00	> <	> 0	09.167	> 6	00.04		9 6	3933 83
1 3rd Steamfar	(825)	77.16.1	; •	2000	135.88	•	•	00.107	• •	20.021		9 0	8768.60
Chief Cook	(826)	1408.14	-	466.50	375.00			231.60	· c	43.50	15.00	0	25 39 . 74
4 Cook/Baker	(879)	5490-16		1866.00	1500.00	· c	· c	976.40		174.00	60.09	} 0	10016.56
4 Znd Cooks	(827)	4824.68		1866.00	1500.00	•	•	926.40	0	174.00	90.09	•	9351.08
6 3rd Cooks	(828)	7139.22	0	2799.00	2250.00	0	0	1389.60	0	261.00	90.00	0	13928.82
22 Messmen	(830)	20580.54	0	10263.00	8250.00	0	0	5095.20	0	957.00	330.00	0	45475.74
50 Ucilicymen	(830)	46773.96	0	23325.00	18750.00	0	0	11580.00	0	2175.00	750.00	0	103353.96
1 Leundryman Foremen	(830)	935.48	D	466.50	375.00	0	0	231.60	0	43.50	15.00	0	2067.08
1 Laundryman	(830)	935.48	0	466.50	375.00	0	0	231.60	0	43.50		0	2067.08
8 ASSE. Laundrymen	(830)	3741.89	0-	1866.00	1500.00	0	0	926.40	0	174.00	60.00	0	8768.29
I Yeoman Storekeeper	(181)	1506.25	0	466.50	375.00	0	0	231.60	0	43.50	15.00	0	26 37 . 85
1 Purser	(658)	1540.84	0	1167.33	285.00	150.00	246.51	c	0	30.00	0	97.20	3516.88
1 Jr. Purser	(994)	t602.11	0	1229.41	285.00	150.00	246.51	0	0	30.00	0	102.63	3642.6
TOTAL		208790.88	7102.03	116951.11	74441.96	5143.50	18002.68	35468.40	0	6793.02	2569.80	199.80	475463.18
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