Irid

BASE MAINTENANCE DEPARTMENT Harine Corps Base Camp Lejeune, Morth Carolina 28542

MAIH/FEC/clm 11000 1 November 1978

From: Base Maintenance Officer
To: Public Works Officer

Via: Assistant Chief of Staff, Facilities

Subj: Supplemental Information Requested by Congress for Fiscal Year

1930 Military Construction Program

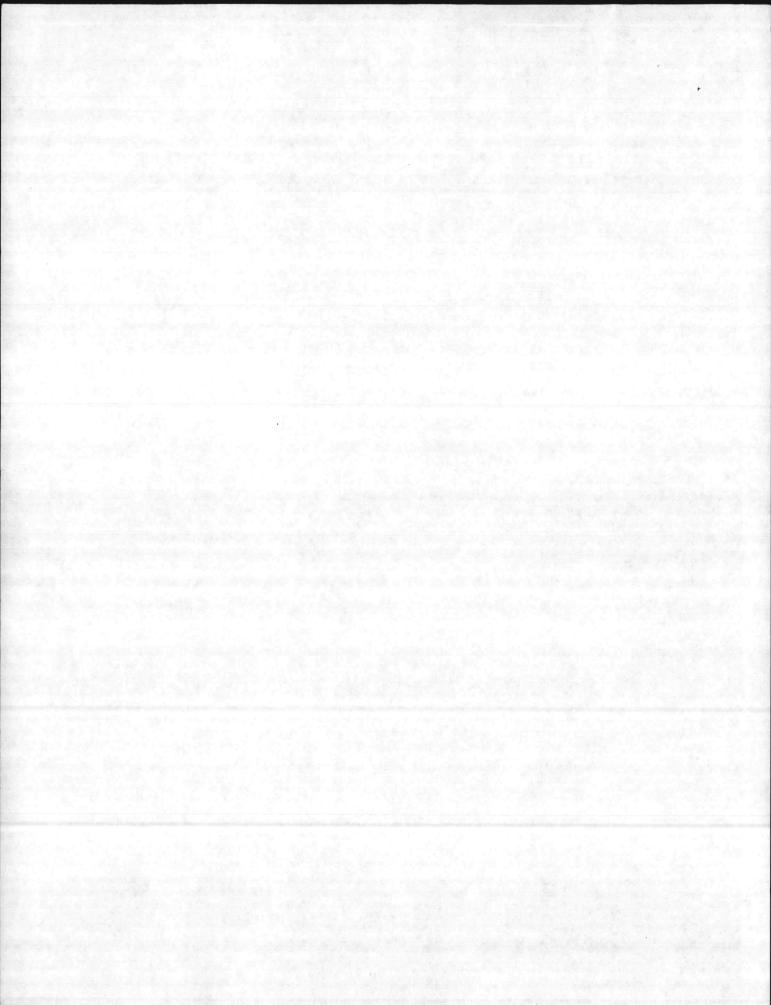
Ref: (a) AC/S, Fac memo FAC: ACA: mke 11013 of 19 Oct 1978

Encl: (1) M, N, and P Costs for Project P-813, BEQ Replacement

1. As requested in reference (a), backup information is provided as enclosure (1).

2. All estimates are based on FY 79 figures and reflect costs associated with an individual H-Type barracks.

R. M. DILLON
By direction



500 M 10/20

OCT 20 MONITED STATES MARINE CORPS Marine Corps Base

For sour action.

Camp Lejeune, North Carolina 28542

FAC:ACA:mkc 11013 19 Oct 1978

MEMORANDUM

From: Assistant Chief of Staff, Facilities
To: Public Works Off:

Public Works Officer To:

Supplemental Information Requested by Congress for Fiscal Year Subj:

1980 Military Construction Program

(1) CMC ltr LFF-1-LAW: bab of 12 Oct 1978 Encl:

Enclosure (1) is forwarded for action. 1.

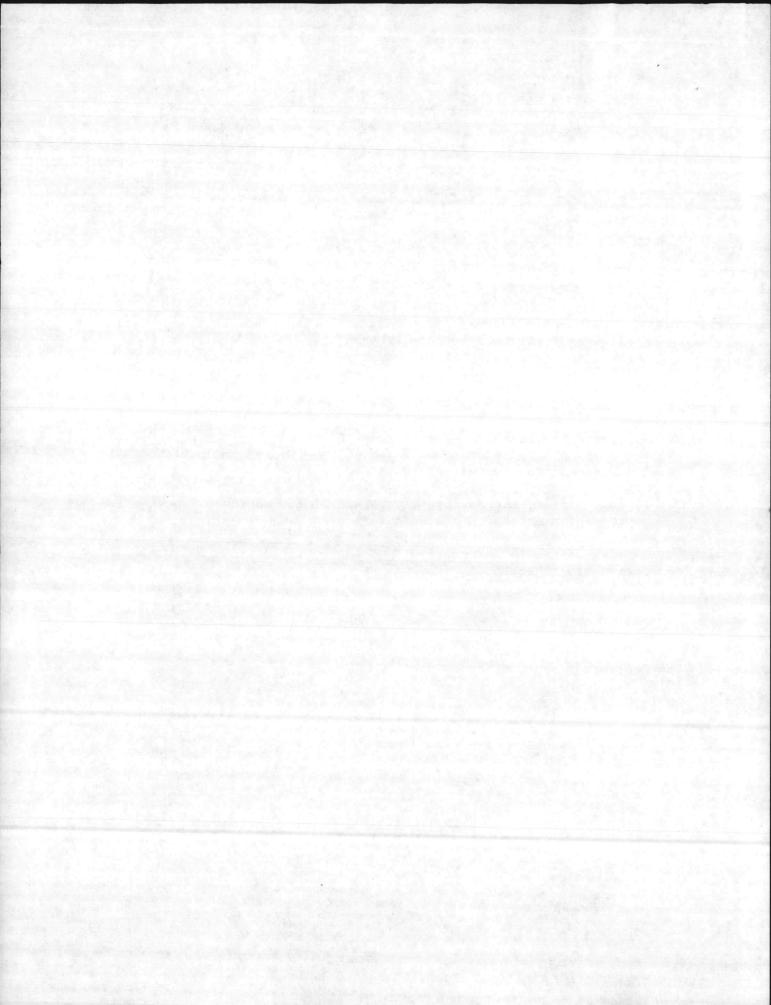
- By copy hereof, the Base Maintenance Officer is requested to provide all necessary backup information for M, N and P costs and outstanding pollution violations, as discussed in enclosure (1).
- By copy hereof, the Assistant Chief of Staff, Manpower is requested to provide information concerning outstanding OSHA violations.
- In view of the 15 November 1978 due date, expeditious coordination and action are requested.

The Artster ley

Coordinate, with BMO to essure they

Copy to: AC/S, Manpower BMaint0

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Talk to confusion and that by
is no confusion and get done by
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DEPARTMENT OF THE NAVY HEADQUARTERS UNITED STATES MARINE CORPS WASHINGTON, D.C. 20380

IN REPLY REFER TO LFF-1-LAW: bab

1 2 OCT 1978

Commandant of the Marine Corps From:

Distribution List To:

Supplemental Information Requested by Congress for Sub.i:

Fiscal Year 1980 Military Construction Program

Extract of House Appropriations Committee (1) Report for Fiscal Year 1979 Military Encl: Construction, HR 95-1246

Sample of DD Form 1390 and Instructions for

Supplemental Information

Sample of DD Form 1391 and Instructions for =(3)Supplemental Information

Fiscal Year 1980 Marine Corps Military (4) Construction Program

The House Appropriations Committee has established significant new requirements for information in support of military construction projects, as shown in enclosure (1). The Office of the Secretary of Defense has decided to provide the requested information to the House Appropriations Committee and any of the other three committees that wish to receive it. In view of the extent of the data gathering and analysis involved, it is considered essential that this effort commence immediately in preparation for the Fiscal Year 1980 Congressional budget submission in January 1979.

Activity commanders are therefore requested to develop the following information:

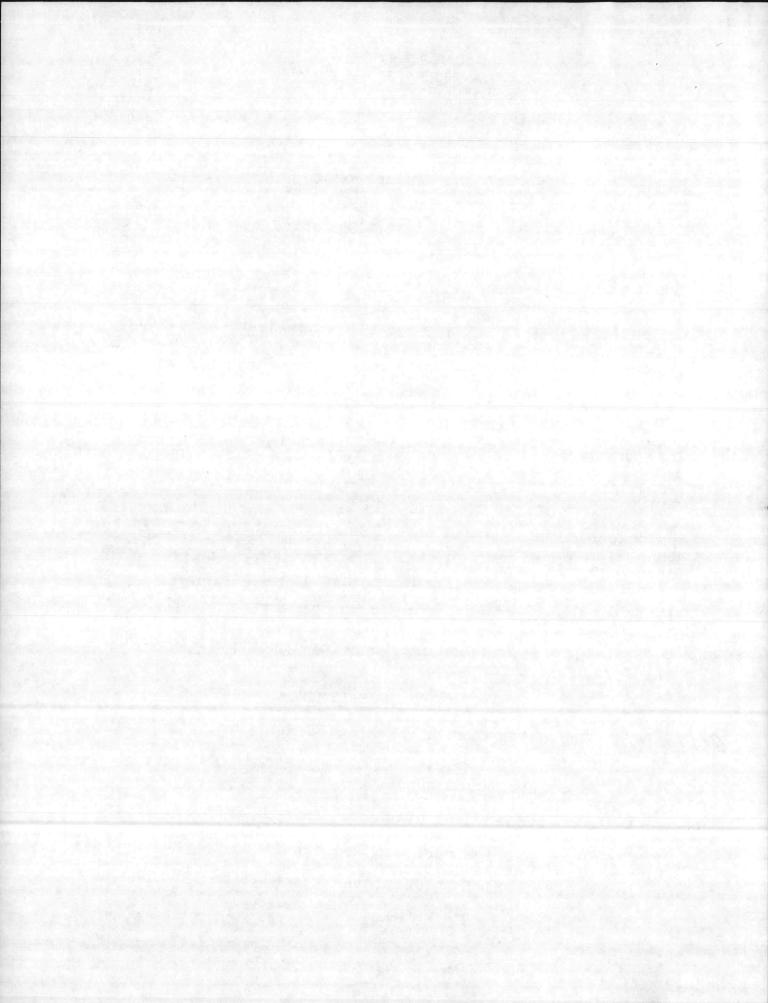
DD FORM 1390 SUPPLEMENTAL INFORMATION

Estimated Cost of Backlog of Real Property Maintenance (see notes).

Similar unused space.

Outstanding pollution and safety (OSHA) violations.

NOTES: Detailed instructions are contained in enclosure (2). Information must be developed for each activity listed in enclosure (4), which reflects the Fiscal Year 1980 Marine



Subj: Supplemental Information Requested by Congress for Fiscal Year 1980 Military Construction Program

Corps Military Construction Program as submitted to OSD on 22 September 1978. Item A, Estimated Cost of Backlog of Real Property Maintenance, will be developed by Headquarters Marine Corps.

DD FORM 1391 SUPPLEMENTAL INFORMATION Enel(3)

all (A) Estimated Annual Cost to Operate the Proposed Facility.

B Number of Additional Personnel Necessary to Carry ale Out the Function of the Proposed Facility.

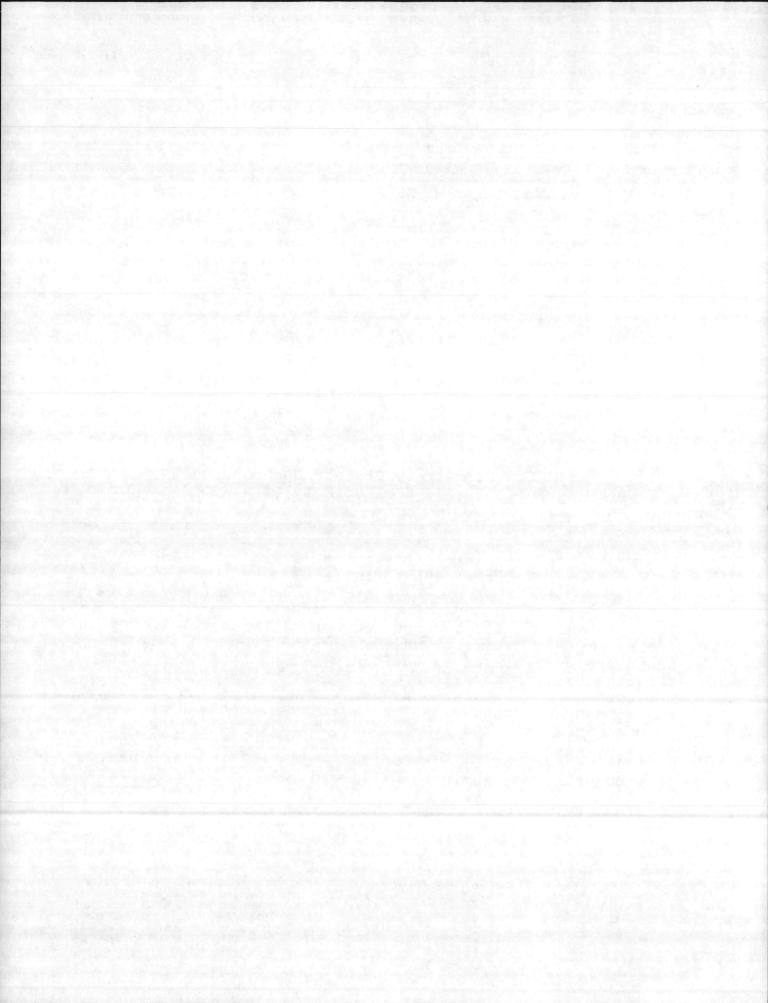
Partial C. Estimated Life-Cycle Cost to Operate and Maintain Proposed Facility.

Estimated Life-Cycle Cost to Operate and Maintain Facility, if New Facility is a Replacement.

CMC - E. Design Status.

THE be provided from Other Appropriations.

NOTES: Detailed instructions are contained in enclosure (3). Items A. and B. will be required for each project listed in enclosure (4). Items C. and D. will be required only for those projects listed in enclosure (4) which will replace existing facilities. It should be noted that for item D., the cost of any actions necessary to equalize the capability and life span of the existing facility with those of the proposed new construction must be included to insure true comparability. Item E., Design Status, and item F., Equipment Associated with this Project which will be provided from Other Appropriations, will be developed by this Headquarters.



Supplemental Information Requested by Congress for Fiscal Year 1980 Military Construction Program Sub.1:

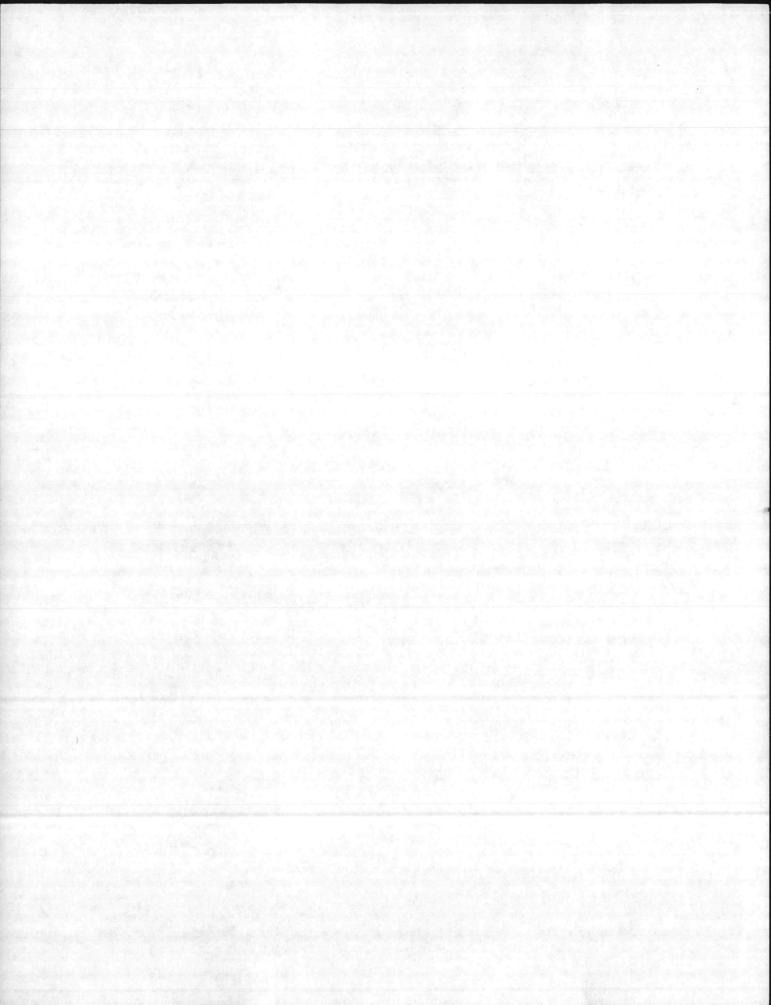
The foregoing information is to be submitted to reach Headquarters Marine Corps (LFF) not later than 15 November 1978.

By Direction

Distribution: COMCABWEST CG MCAS El Toro CG MCDEC Quantico CG MCB Camp Pendleton CG MCLSBPAC Barstow COMCABEAST CG MCAS Cherry Point CG MCB Camp Lejeune CG MCB 29 Palms CG MCB Camp Butler COMMARCORBASESPAC CO, MCAS(H) New River CO MCAS Yuma CO MCAS Kaneohe Bay CO MCAS(H) Santa Ana CO MCAF Camp Pendleton

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MILITARY CONSTRUCTION APPROPRIATION BILL, 1979

JUNE 1, 1978.—Committed to the Committee of the Whole House on the state of the Union and order to be printed

Mr. McKAY, from the Committee on Appropriations, submitted the following

REPORT

(To accompany H.R. 12927)

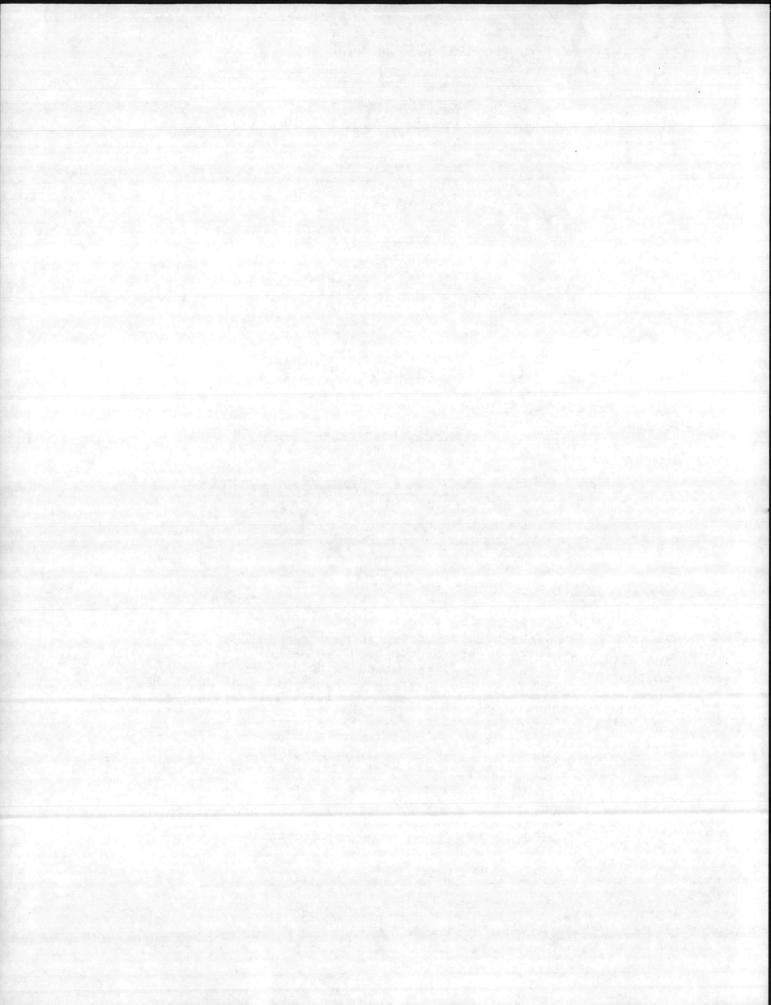
The Committee on Appropriations submits the following report in explanation of the accompanying bill making appropriations for military construction and family housing for the Department of Defense for the fiscal year ending September 30, 1979.

PAGE 4

Additional information is to be included in the justification forms, as follows:

Form 1390 additions: The 1390 form (base information) should include data on the backlog of real property maintenance for each installation, an inventory of the number of square feet of unused space on the installation, and all outstanding pollution and safety violations.

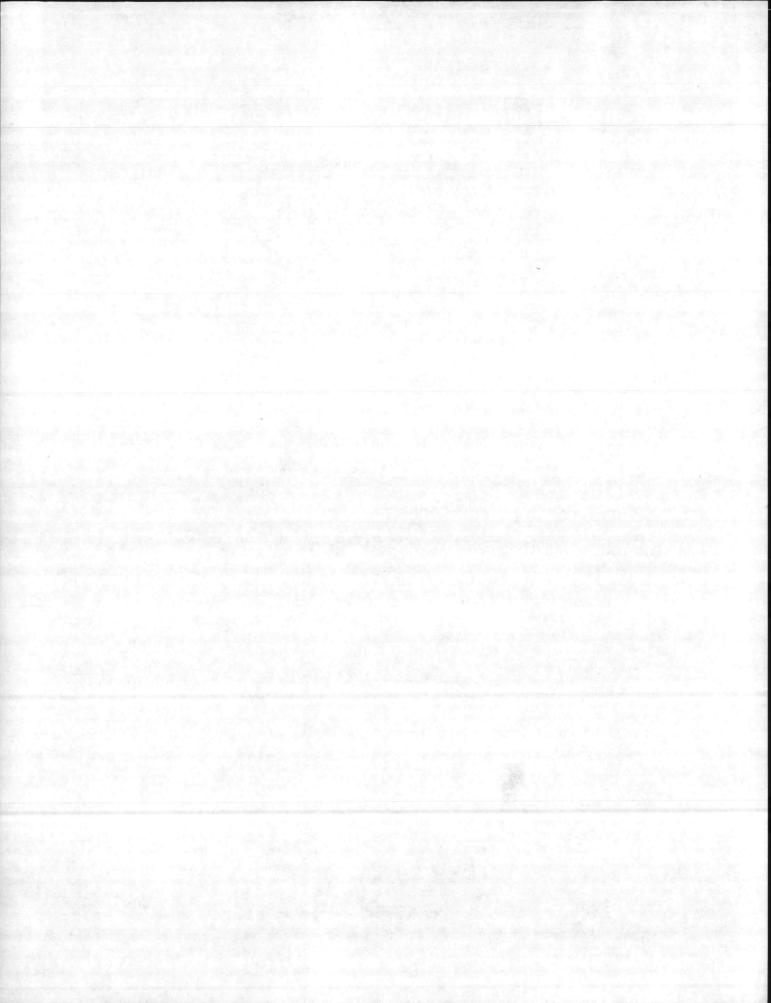
Form 1391 addition: The 1391 form (project information) should include the annual costs to operate the proposed facility, the number of additional people associated with or required by the facility, the estimated life-cycle cost to operate and maintain the facility, a comparison with the annual cost to operate and maintain the existing facility if this is a replacement facility, the design status as of January 1 of each project and estimated design status on October 1, and the procurement list of all equipment associated with the project. The cumulative, comparative annual costs to operate and maintain the proposed new facilities against existing facilities shall be included separately.



(SAMPLE)

DD FORM 1390 SUPPLEMENTAL DATA FY 1979 MILITARY CONSTRUCTION PROGRAM

	N	MCAS Cherry Point NC INSTALLATION/LOCATION	Marine Corps COMMAND
	COM		(\$000)
CMC	Α.	ESTIMATED COST OF BACKLOG OF REAL PROPERTY MAINTENANCE (BMAR): Permanent Facilities Temporary Facilities	3,186 (3,090) (96)
MCB	В.	SIMILAR UNUSED SPACE:	Quantity/Unit
		Real Property Categories	Ol measure 0
: ;		171-XX Training Buildings	
:, 5		211-XX Maintenance - Aircraft	5,614 SF
		214-XX Maintenance - Automotive	8,893 SF
		800-XX Energy Conservation	. , и/ч
1100	ć.	OUTSTANDING POLLUTION AND SAFETY (OSHA)	VIOLATIONS:
MCB		1. Air Pollution	(\$000)
		2. Water Pollution	<u>(</u> \$000)
		3. Safety & Occupational Health	(\$000)



INSTRUCTIONS FOR PREPARATION OF DD FORM 1390 SUPPLEMENTAL JUSTIFICATION DATA IN SUPPORT OF ANNUAL MILITARY CONSTRUCTION PROGRAMS

A. ESTIMATED COST OF BACKLOG OF REAL PROPERTY MAINTENANCE (BMAR)

Source: Headquarters Marine Corps

B. SIMILAR UNUSED SPACE. Indicate the total area in square feet of unused space in facilities at the installation having three-digit category codes which correspond to those of the projects included in the budget request. For use by Marine Corps witnesses during hearings, provide brief explanamarine Corps witnesses during hearings, provide brief explanation why the vacant space in each three-digit category code cannot be used to satisfy or reduce the requirement to be met by the projects requested in the same category code. If vacant space is to be used for any purpose in the future, or is to be demolished, explain.

Source: Activity Commander

- C. OUTSTANDING POLLUTION AND SAFETY (OSHA) VIOLATIONS
 - (1) Air Pollution

Source: Headquarters Marine Corps

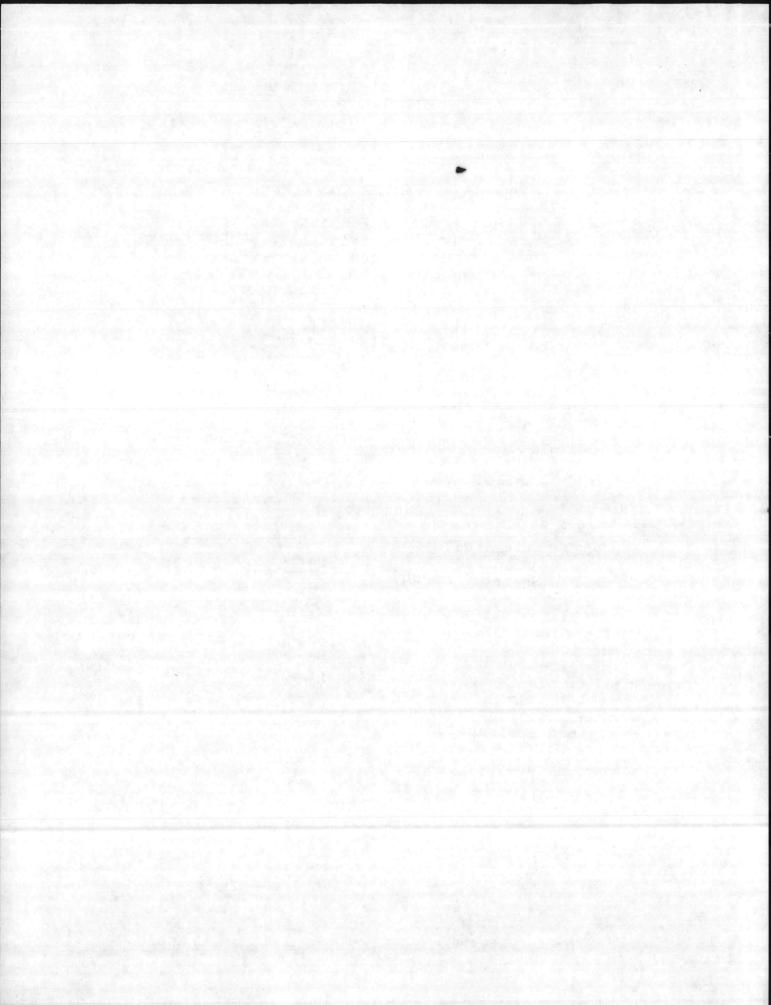
(2) Water Pollution

CD entitle tradition

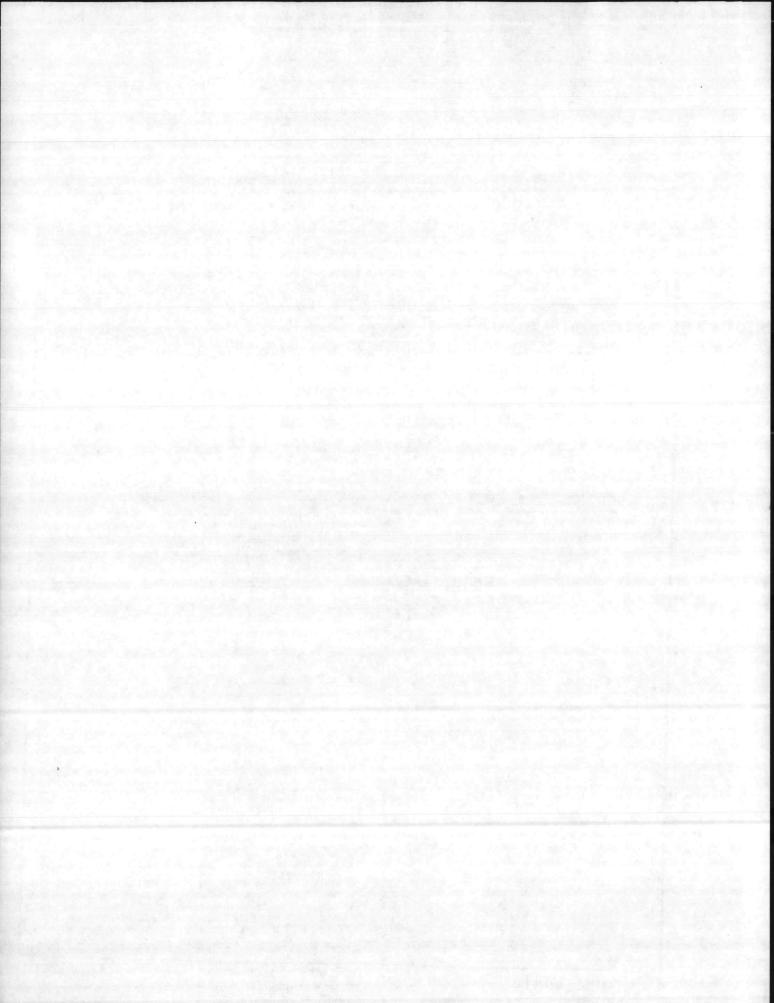
Source: Headquarters Marine Corps

cost of projects in all funding categories (e.g., Military construction, operations and maintenance, industrial fund, etc.) required to correct serious occupational safety and health hazards in accordance with procedures authorized in CMC speed letter MPN-70-mdm of 9 Feb 1977. In this application, include those hazards assigned Hazard Codes I and II in the cited instruction.

Source: Activity Commander



-	Navy	14 19 WIL	HART CONST	NOCTION	, moved o	SAM	IPLE
3. 15	STALLATION	AND LOCATION ORPS BASE	TROPNITA	•	· · · · · ·		· ·
(CAMP PEN	DLETON, CAL	THOUNTH .		[5. P	ROJECT NUM	BER
	ROJECT TITLE AUTOMOTI	VE MAINTENA	NCE FACILIT	Y		P-001	, on .
		SU	PPLEMENTAL	DATA			
A.	FACILI					(\$000	10
B.	NUMBER CARRY FACILI	OF ADDITION OUT THE FUN	NAL PERSONN	NEL NECH	ESSARY TO	. (PEO	0 PLE) 96
C.	MAINTA	TED LIFE-CY IN THE PROP	POSED FACILI	LTY		(\$00	0)
D.	MATNTA	TED LIFE-CY IN THE EXIS	STING FACIL	O OPERAT	re and New	. (\$00	
E.	DESIGN	STATUS (ES	STIMATED):			·	%
	. 1. As	of January	1, 1978.		: : : : :	•	35 100
F.	EQUIPM PROVID	MENT ASSOCIA	ATED WITH THER APPROPR	HIS PROJECTIONS	JECT WHICH	WILL BE	
EC	QUIPMENT OMENCLATU	PROCU JRE APPRO	URING OPRIATION		FISCAL YEA APPROPRIATION OR REQUEST	red_	COST (\$000)
			- NONE				
					instruction of		
		Source:					
-	***	12010	PREVIOUS EDITIO	ONS MAY BE	USED INTERNALL	Y	Page No.



INSTRUCTIONS FOR PREPARATION OF DD FORM 1391 SUPPLEMENTAL JUSTIFICATION DATA IN SUPPORT OF ANNUAL MILITARY CONSTRUCTION PROGRAMS

The following data shall be provided for each facility in the program using the standard DD Form 1391c and the format shown in the preceding sample. All costs, regardless of their time of occurrence, are in budget year dollars (i.e., Fiscal Year 1980 dollars for Fiscal Year 1980 Supplemental Data). See attachment A to this enclosure for annual escalation rates to be used in adjusting Military Construction and O&M, MC costs from year of occurrence to Fiscal Year 1980 costs.

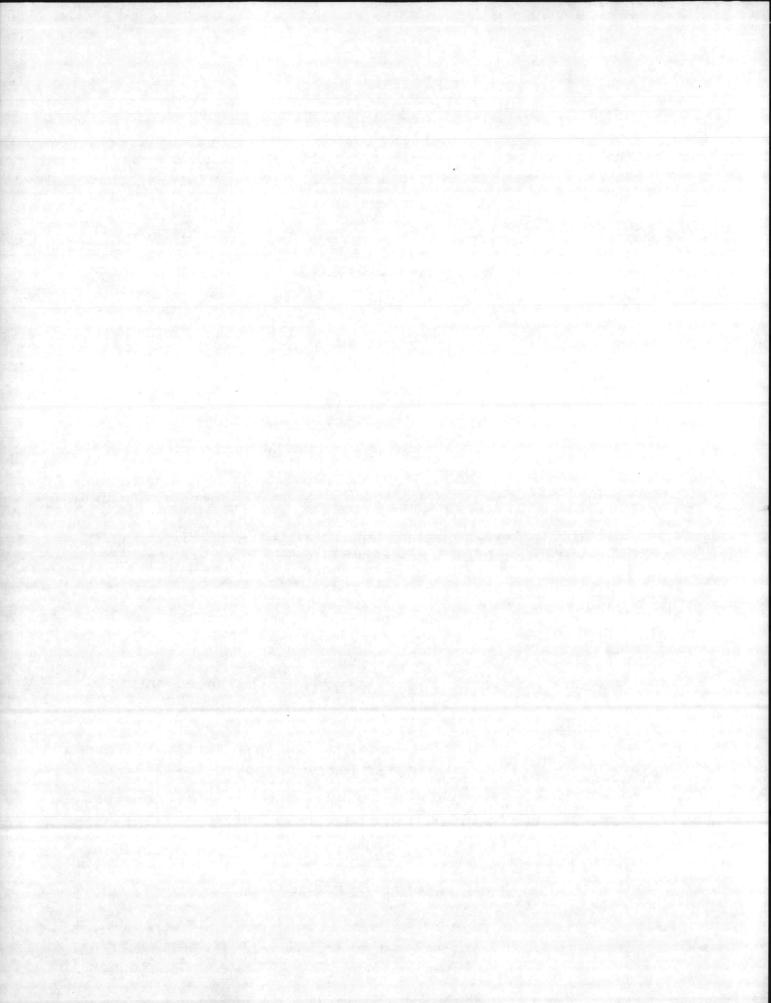
NOTE: Sections A, B, and E are to be completed for all project proposals. Sections C and D are to be completed only for project proposals which represent replacement facilities.

- A. ESTIMATED ANNUAL COST TO OPERATE THE PROPOSED FACILITY. Costs will be limited to Maintenance and Repair (M), Utilities (N), and other Engineering Support (P). Does NOT include costs, other than M, N, and F, or the operation to be housed in the facility. (Wages and salaries of personnel who will work in the proposed facility, for example, are not to be included.) Activities will estimate these costs as follows:
- 1. Maintenance and Repair (M). The "minimum cost of ownership" concept used in maintenance budgeting will be used. The annual cost of maintenance is determined by multiplying the current plant value by a factor which has been developed for each construction project. (See attachment B to this enclosure). In this case, the "current plant value" used will be the project cost as shown on the DD Form 1391.
 - 2. Utilities (N). Estimate costs based on usage data for similar facilities and the square footage of the proposed facility.
 - 3. Other Engineering Support (P). Estimate based on actual services required for the proposed facility.

NOTE: Only a single figure will be submitted to Congress. For use during hearings, information submitted by activities should provide sufficient detail of calculations and assumptions to permit a well-informed defense of the figure provided.

「ALL PERSONS TO A PERSON PLANTS TO ME TO

Source: Activity Commander



B. NUMBER OF ADDITIONAL PERSONNEL NECESSARY TO CARRY OUT THE FUNCTION OF THE PROPOSED FACILITY. Information to be supplied should relate to the question "Can you staff and operate the new facility?" The word "additional" implies an increase in personnel strength figures for the activity as shown on the DD Form 1390. If all necessary personnel will be reassigned from within activity assets to operate the new facility, a "zero" will be shown. Personnel served by a facility are not to be included. (For a new mess hall or BEQ, only the staff to operate the facility is considered, not the number of personnel served meals or provided with berthing. Similarly, in a training facility, instructors and staff are considered, not students.) All Maintenance and Repair (M), DMO Utilities (N) and Other Engineering Support (P) costs (less materials) related to operating net new facilities shall be converted to personnel. Provide for use during hearings a background explanation of figure submitted.

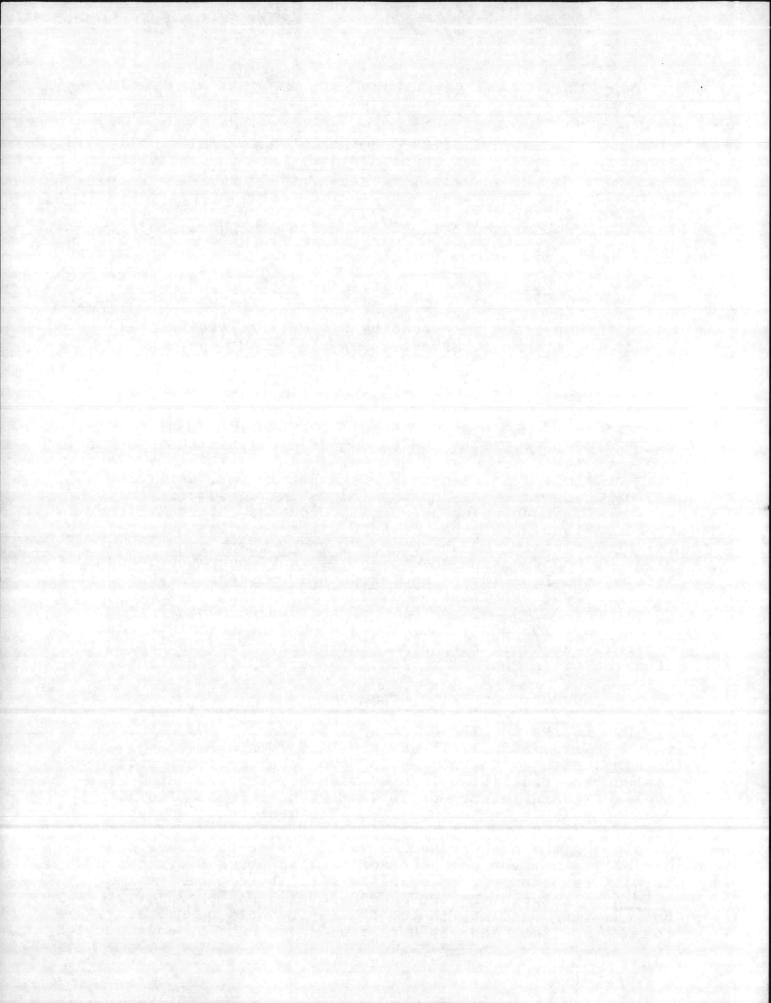
Source: Activity Commander

C. ESTIMATED LIFE-CYCLE COST TO OPERATE AND MAINTAIN THE PROPOSED FACILITY. To be computed only in the case of projects for construction of replacement facilities. Costs will be limited to Maintenance and Repair (M), Utilities (N), and Other Engineering Support (P) estimated as described in section A. above, plus the capital cost of future Military Construction investment, if any. This cost is the net present value of a string of annual M, N, and P costs, and occasional Military Construction investment, if any, over the economic life of the facility, discounted at 10 percent in accordance with MCO 7000.12 (latest addition) and NAVFAC P-442. All costs, regardless of the time of their occurrence are in Fiscal Year 1980 dollars. The discounting technique automatically accounts for normal inflation. Provide explanation of calculation and assumptions, for use during hearings.

Source: Activity Commander

VVI

*D. ESTIMATED LIFE-CYCLE COST TO OPERATE AND MAINTAIN. THE EXISTING FACILITY IF NEW FACILITY IS A REPLACEMENT. To be computed only in the case of projects for construction of replacement facilities. In section C., the estimated life-cycle RPMA and investment costs for the proposed facility were calculated. The intent of this section is to determine for comparison the life-cycle cost of the alternative of continuing the present facility. In order to insure comparability between the costs of the two courses of action, it will be necessary to equalize facility capability and life span between the two alternatives. For example, if the existing facility is too small, it would be necessary to make a Fiscal Year 1980 capital investment by construction



of an addition or by conversion of other space. existing facility may be in poor condition, or not in accord with current criteria for habitability or safety, in which case significant Fiscal Year 1980 outlay would be necessary in order to extend its useful life to cover the same period of time as the proposed new facility. is conceivable in some cases that those prudent actions required to extend the life of the existing facility cannot reasonably be expected to provide enough years of service to equal the economic life of a new facility. In this case, the analysis will include the cost of a suitable replacement facility at the end of the extended economic life of the existing facility, so that the total span of time covered will be the same as the economic life of the new construction alternative. The cost figure to be provided for item D. is thus the net present value of investment costs and recurring RPMA costs necessary to make the existing facility minimally capable of performing the same functions as the new facility over the same period of time. The RPMA costs are determined in the same manner as described in section A, using a Fiscal Year 1980 projection for "Current Plant Value" to determine the annual maintenance (M). All investment costs are also estimated in Fiscal Year 1980 dollars. The discount factor of 10 percent used in calculating net present value automatically accounts for normal inflation. Provide explanation of calculations and assumptions, for use during hearings.

Source: Activity Commanders

E. DESIGN STATUS (ESTIMATED)

Source: Headquarters Marine Corps

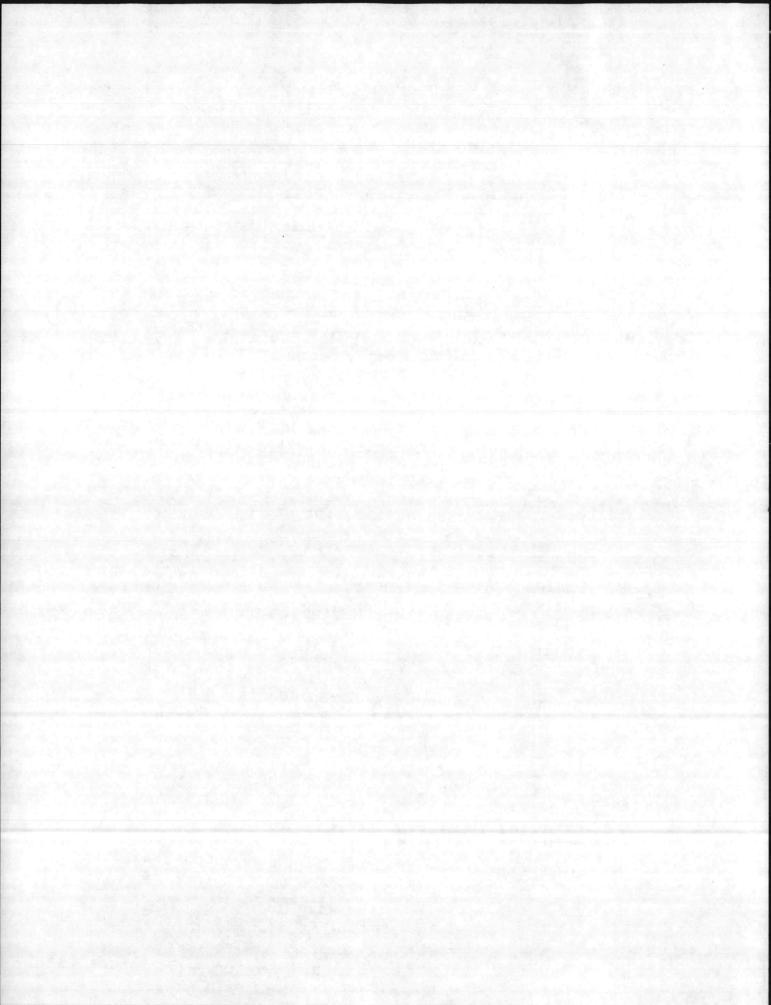
F. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS .

Source: Headquarters Marine Corps

ATTACHMENTS

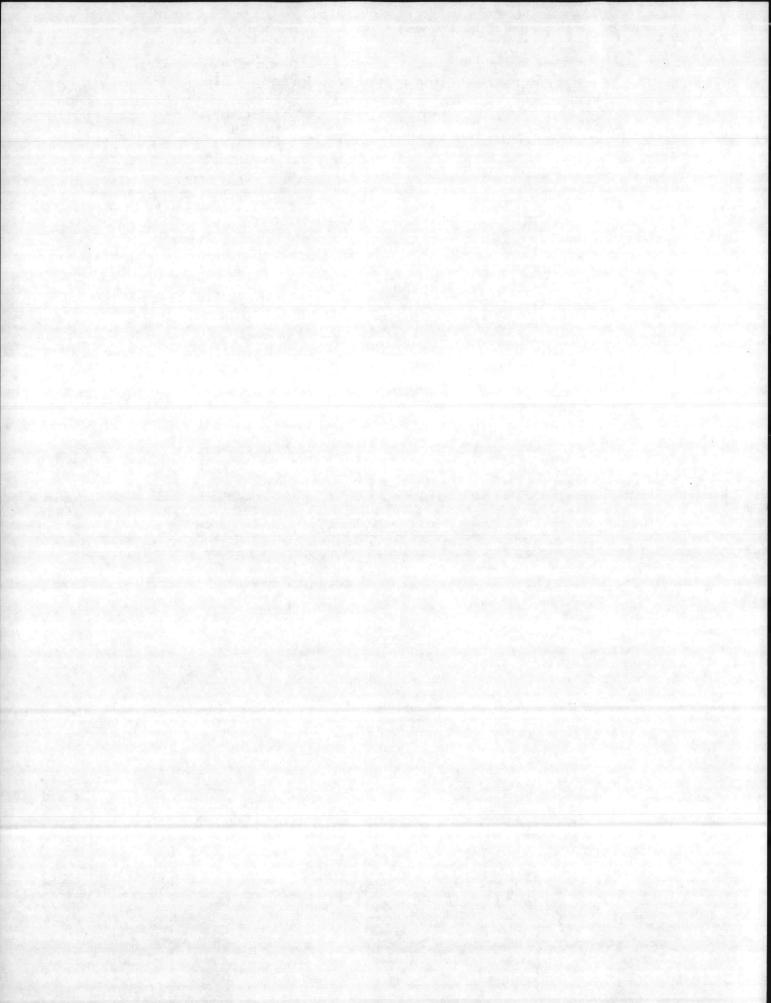
A. Annual Price Escalation Rates

B. "Minimum Cost of Ownership" Maintenance Cost Factors



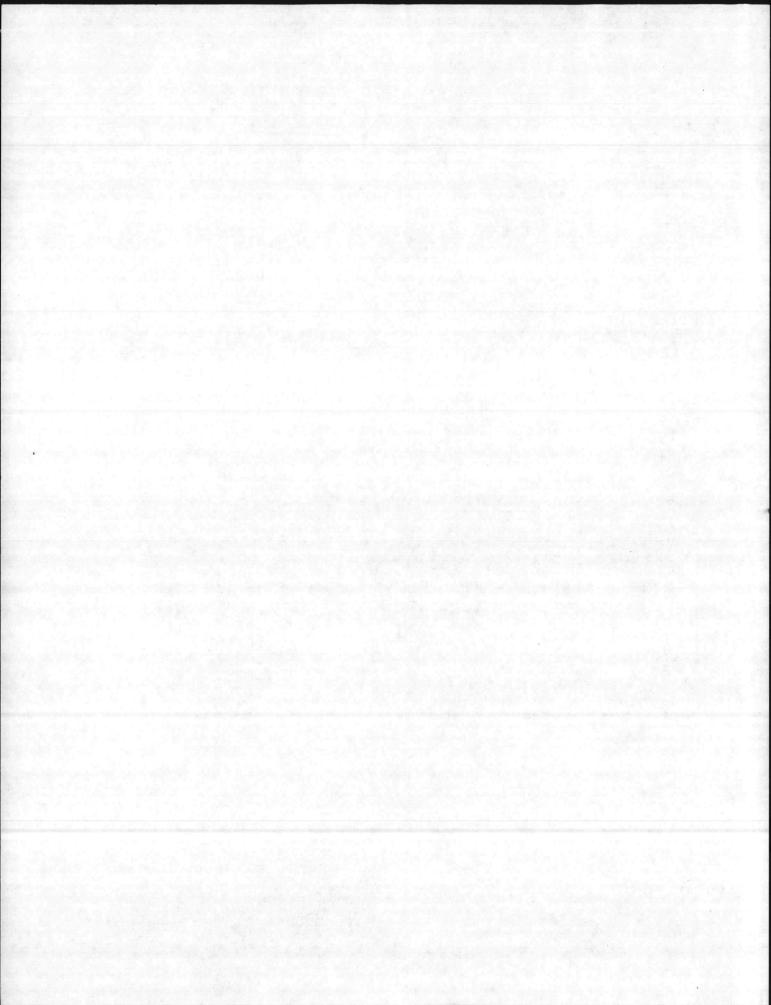
ANNUAL PRICE ESCALATION RATES

77.00	AT VEAPS	ANNUAL ES RATES (PI	SCALATION ERCENT)
	AL YEARS TO	MILCON	O&M,MC
FROM 1978	1979	7.8	6.3
1979	1980	7.0	6.0
1980	1981	6.5	6.0
1981	1982	6.3	5.6
1982	1983-	6.0	5.6
1983	_1984	-6.0-	
	ata Thereafter:	6.0	5.6



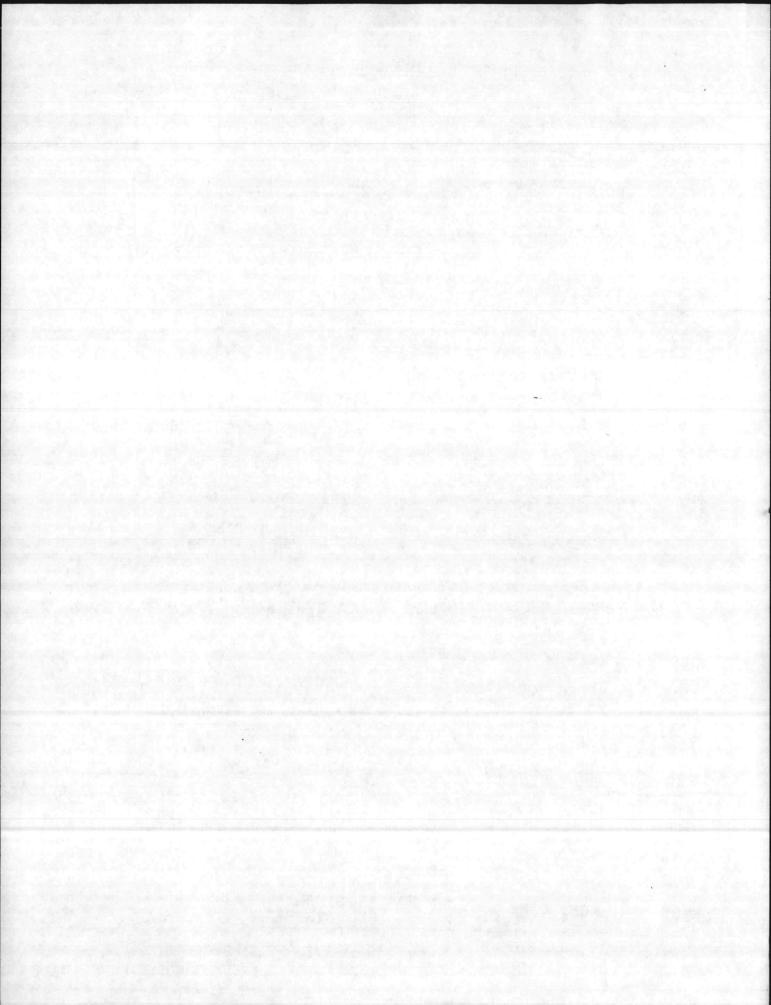
MAINTENANCE FACTORS FOR MARINE CORPS FISCAL YEAR 1980 MILITARY CONSTRUCTION PROGRAM

P-NO.	ACTIVITY	MAINTENANCE (M) FACTOR
706 667 610 789 766	MCAS, CHERRY POINT	.0126 .0218 .0102 .0081 .0031
761 132 368 369 349 140 101 196 195 273 216 019 245 182 304 303 106 230	MCAS(H), NEW RIVER MCAS, YUMA MCAS, YUMA MCAS, YUMA MCB, 29 PALMS MCAS, KANEOHE BAY MCAF, CAMP PENDLETON MCDEC, QUANTICO	.0126 .0206 .0137 .0115 .0160 .0257 .0198 .0139 .0224 .0219 .0152 .0144 .0103 .0086 .0193 .0086 .0193 .0081
996 702 704	MCB, CAMP LEJEUNE MCB, CAMP LEJEUNE MCB, CAMP LEJEUNE MCB, CAMP PENDLETON	.0140 .0146 .0257
872 157 326 117	MCB, CAMP PENDLETON MCAS(H), SANTA ANA MCAS, EL TORO MCLSBPAC, BARSTOW	.0257 .0257 .0199

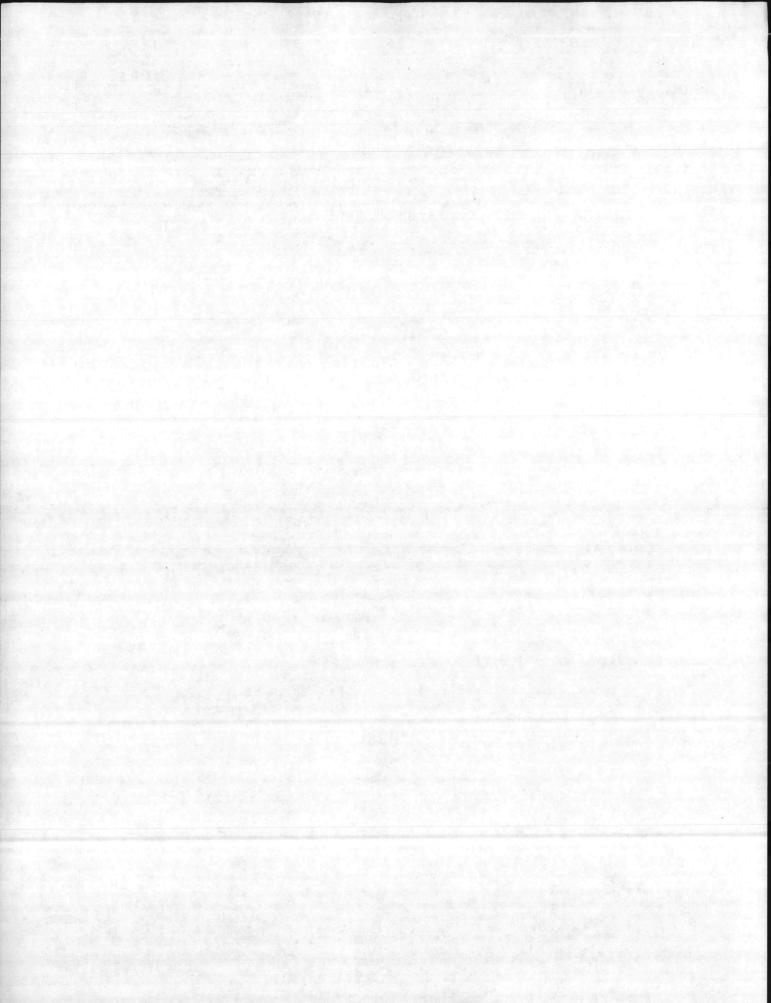


MARINE CORPS MILITARY CONSTRUCTION PROGRAM

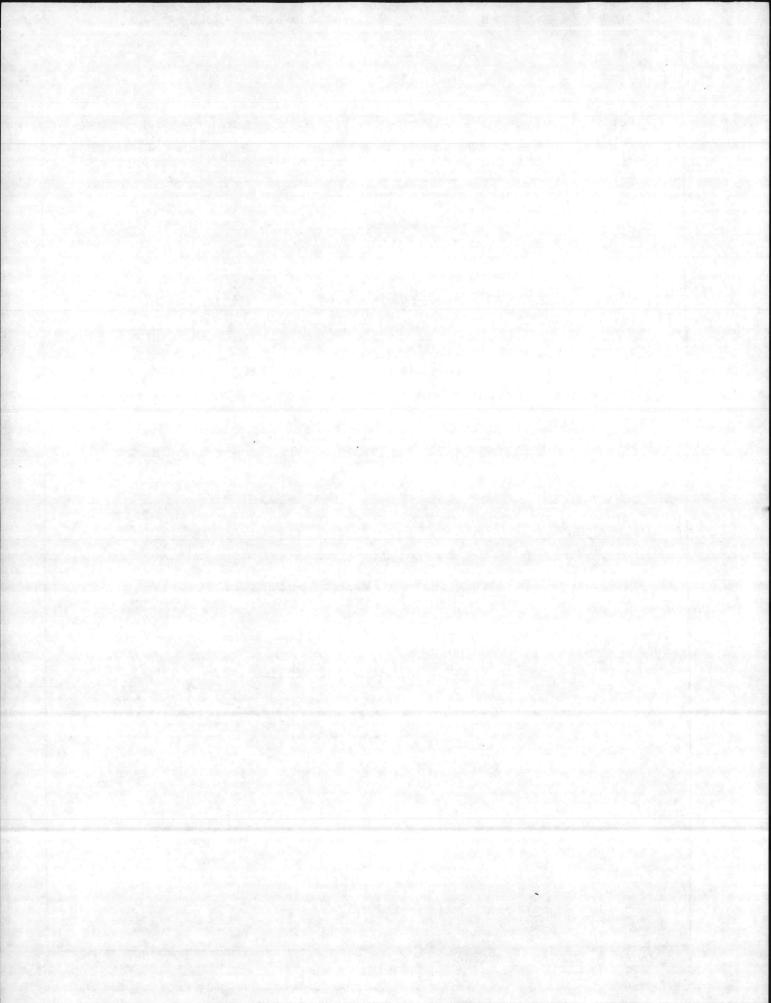
	<u>FY</u>	-1980 AS SUBMITTED	
		*DO TEOM	COST (\$000)
P-NO.	ACTIVITY	PROJECT	
There is a	MCAS, CHERRY POINT	ARMORY	715 865
706	MCAS. CHERRY POINT	H&MS ORD FAC	3,000
667 610	MCAS CHERRY POINT	AIRCRAFT PARK APRONS INDUSTRIAL WASTE	3,650
789	MCAS, CHERRY POINT	COLLECTION & TREAT-	
		MENT	200
	MCAS, CHERRY POINT	BULK LIME STORAGE &	200
766		HANDLING FACILITY INSULATION AND STORM	150
761	· MCAS, CHERRY POINT	WINDOWS	
	The state of the s	: WINDOWS	1100
2.00	MCAS(H), NEW RIVER	ARMORY	490
132	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	ENGINE SHOP	2,000
368	MCAS, YUMA	ATR-FRAME SHOP	2,000
369	MCAS, YUMA	ORDNANCE HANDLING PAD	5,400
349	MCAS, YUMA		4,450
210	MCB, 29 PALMS -	FIELD MAINT SHOPS	7,300
140 101	MCB. 29 PALMS	BEQ MOD (969/57/0) STEAM AND CONDENSATE	1,800
3.96	MCB, 29 PALMS	CVCTEMS	
,-		HEATING . VENTILATION,	100
195.	MCB, 29 PALMS	AIR CONDITIONING	
		1일 경기 경기 수입 등 기계를 받고 있다. 그리고 있는 것이 되었다. 그리고 있는 것이 되었다. 그리고 있는 것이 되었다. 그리고 있다. 	4,650
273	MCAS, KANEOHE BAY	MAINTENANCE FAC	510
216	MCAS KANEORE BAI	ALTER HANGAR 103 GYMNASIUM	2,000
019	MCAS, KANEOHE BAY	GIMMADION	
	MCAF, CAMP PENDLETON	GSE SHOP	1,000
245	MCAF, CAMP PENDEDION		5,200
182	MCDEC, QUANTICO	AUTOMATED DATA SYS FAC	1,650
304	MCDEC QUANTICO	OCS DINING FAC OCS BEQ MOD (450 RCTS	5,000
303	MCDEC. QUANTICO	WATER DISTRIBUTION	1,800
106	MCDEC, QUANTICO		. 2 KEN
020	MCB, CAMP BUTLER	DINING FAC MOD	3,650
230	The state of the s	BEQ (1014/42/9) -	: 14,100
613	- MCB, CAMP LEJEUNE -	TNDUSTRIAL WASTE	8,700
996	MCB, CAMP LEJEUNE	COLLECTION & TREAT-	
1 1.		MENT	1,450
	MCB, CAMP LEJEUNE	INSULATION & STORM	1,450
702		WINDOWS CONDENSATE	410
704	MCB, CAMP LEJEUNE	STEAM AND CONDENSATE SYSTEMS	



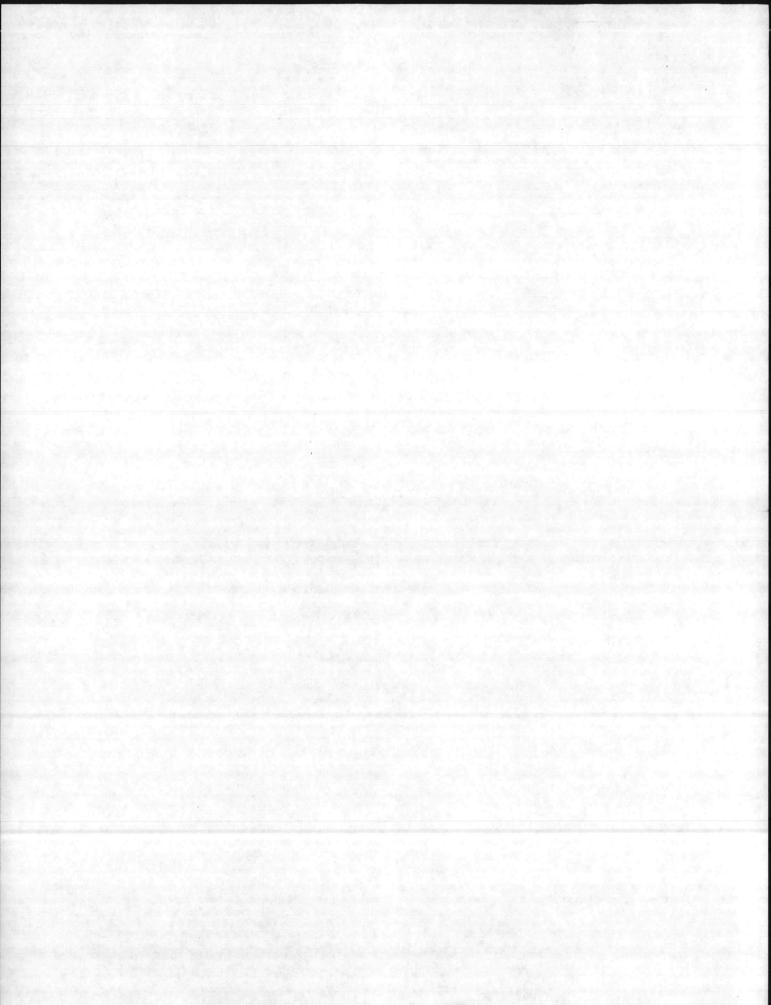
1	P-NO.	ACTIVITY	PROJECT	COST (\$000)
		Parkets of the State of the Sta	BEQ (1014/36/28)	13,000
	And There was	2000 2000 HONE CONTROL	BEQ (157/84/15)	. 2,800
		MCAS, EL TORO	BEQ (117/74/261)	9,700
1	117	- 100, 100, 100, 100, 100, 100, 100, 100	STEAM DISTRIB SYS	3,800



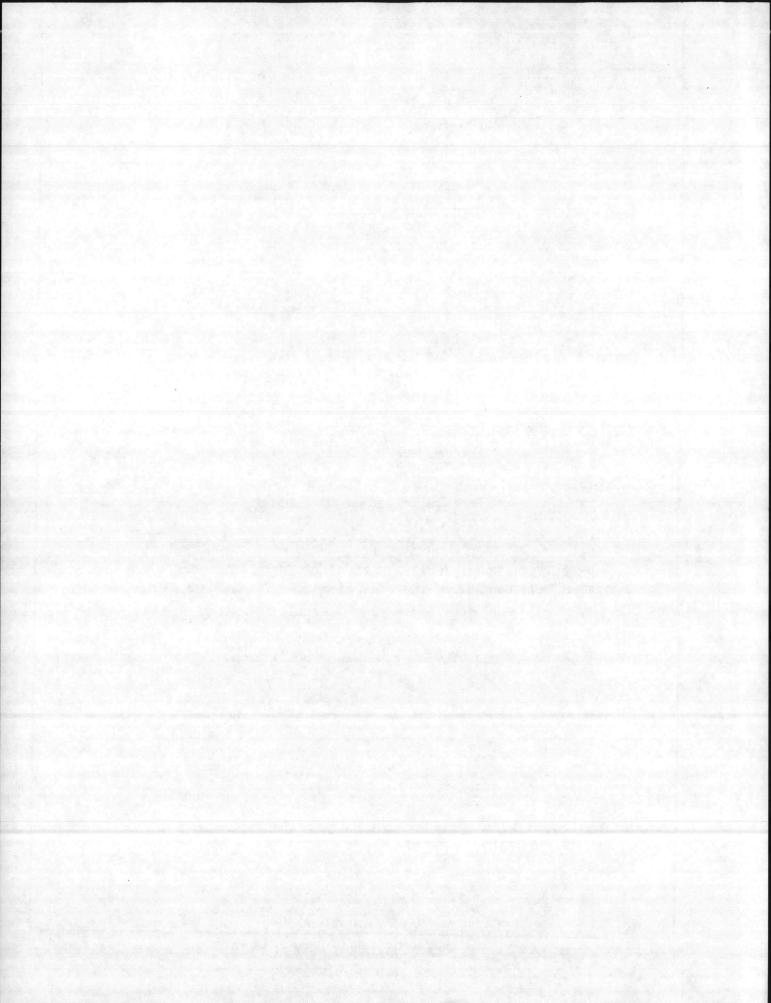
	DIECTTITLE		5. P	ROJECT NUM
	BEG CILLY JUE	19)		F-613
		CHEDI DITATA	DATEA	
		SUPPLEMENTAL		
Α.	ESTIMATED ANNUAL COS	T TO OPERATE THE	PROPOSED FACILITY	(\$000
В.	NUMBER OF ADDITIONAL THE FUNCTION OF THE	PERSONNEL NECES PROPOSED FACILIT	SARY TO CARRY OUT:	
c.	ESTIMATED LIFE-CYCLE PROPOSED FACILITY	COST TO OPERATE	AND MAINTAIN THE	(PEOPI
				(\$000
D.	ESTIMATED LIFE-CYCLE EXISTING FACILITY IF			(\$000
E.	DESIGN STATUS (ESTIM	ATED):		(3030
	1. As of 1 JUNUA 2. As of 1 OCCUPA	TY 19.28		
F.	EQUIPMENT ASSOCIATED PROVIDED FROM OTHER	WITH THTS PROSPI	ECT WHICH WILL BE	
	QUIPMENT PROCURE		FISCAL YEAR APPROPRIATED OR REQUESTED	COST
				71233
	No.			



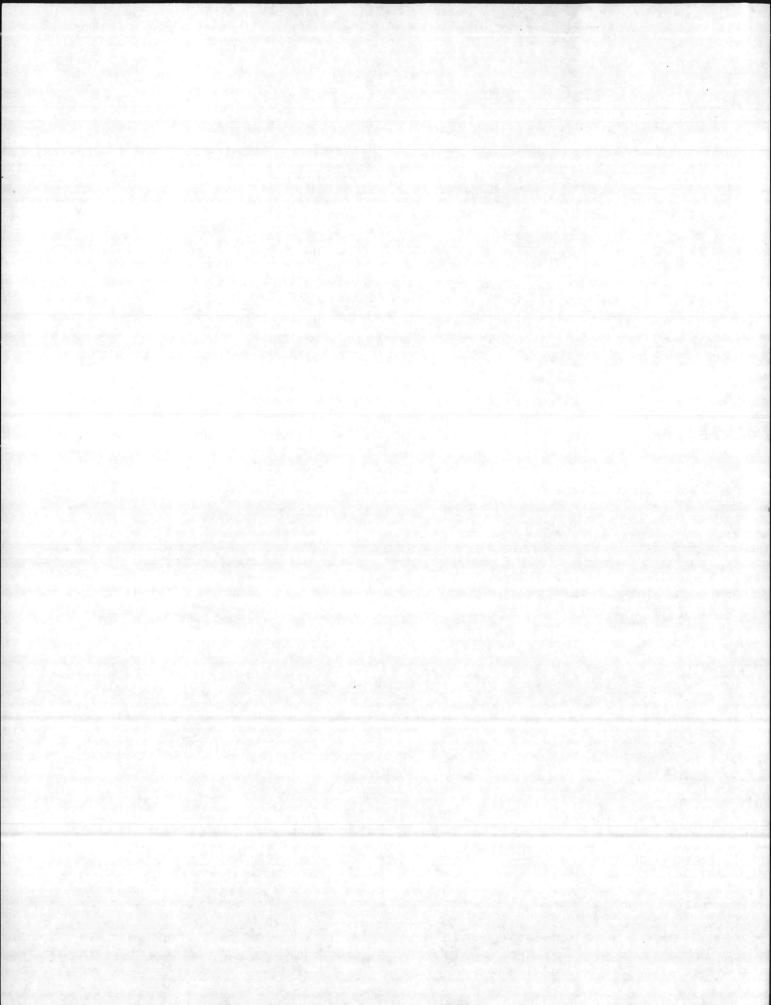
(11/11/11/11/11 14,100 .0189 266 2, 19 20000 (N)



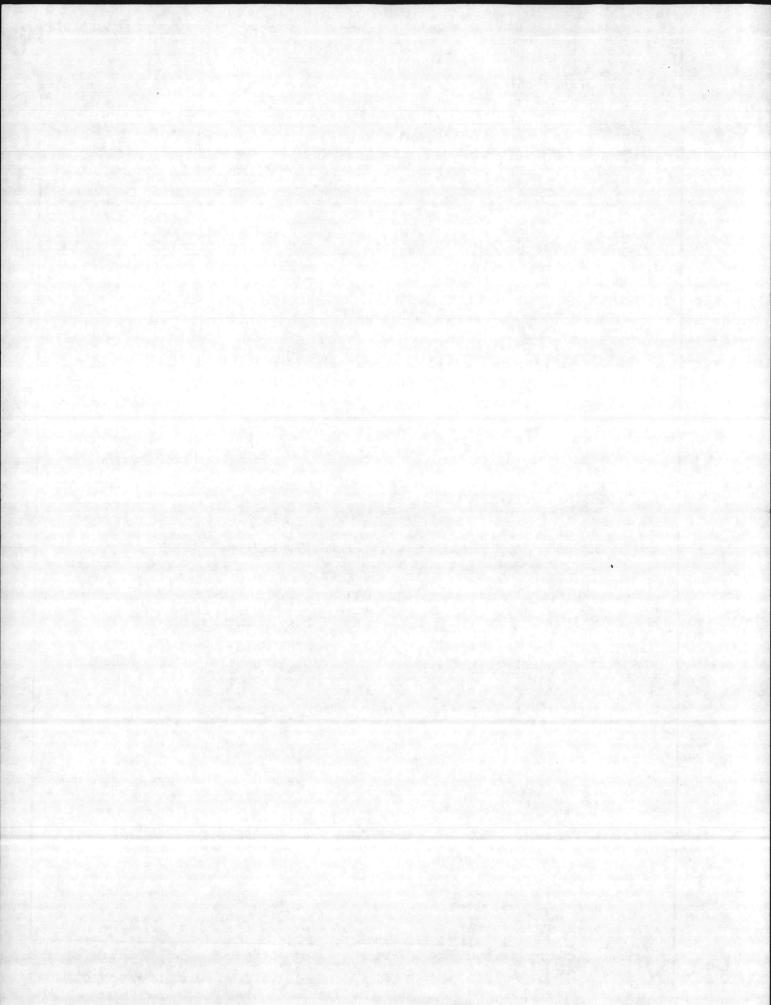
	CONENT	8.77	Carried Control of the Control of th	2. DATE			
	AVY	60 FY 19 <u>24 MILITARY</u> CON	STRUCTION PROJECT D.	ATA			
3. INST	ALLATION A	AND LOCATION					
MA	RINE COR	PS BASE, CAMP LEJEUNE, NO	ORTH CAROLINA 28542	and the state of t			
	JECT TITLE			5. PROJECT NUMBER			
11	DISTIMAL	When aurene & Tiera	THINT	P-996			
		SUPPLEME	NTAL DATA				
4	A. ESTIMATED ANNUAL COST TO OPERATE THE PROPOSED FACILITY						
Α.	ESTRIME	ED ANNOAL GOOT TO OTERALE.	E III ANOLUZZ	(\$000)			
в.	NUMBER	OF ADDITIONAL PERSONNEL	NECESSARY TO CARRY OU'	Т.			
		CTION OF THE PROPOSED FA		· (PEOPLE)			
				(LEOT HE)			
c.		ED LIFE-CYCLE COST TO OP		E			
	PROPOSE	p FACILITY		(\$000)			
D.	FCTTMAT	ED LIFE-CYCLE COST TO OP	PERATE AND MAINTAIN TH	E			
ν.		G FACILITY IF NEW FACILI					
				(\$000)			
E,	DESIGN	STATUS (ESTIMATED):		7.			
	1. As	of I December 1978					
	2. As	of JOHNARY 1978					
F. EQUIPMENT ASSOCIATED WITH THIS PROSPECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:							
			FISCAL YEAR				
1	EQUIPMENT	PROCURING	APPROPRIATED	COST			
	MENCLATUR		OR REQUESTED	<u>(\$000)</u>			
	The property						



2, Mannes (N)



1. COMPO	NENT T	C/I		2. DATE	
NAV		FY 19 29 MILITARY CON	STRUCTION PROJECT DA	ТА	
3. INSTAL	LATION AN	DLOCATION			
MARI	NE CORPS	BASE, CAMP LEJEUNE, N	ORTH CAROLINA 28542		
4. PROJEC			5.	PROJECT NUMBER	
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		SUPPLEME	NTAL DATA		
		AND THE COOR BO ODEDA	E THE PROPOSED FACILITY	7	
A. E	ESTIMATED	ANNUAL COST TO OPERAT	E THE PROPOSED PACIFIES	(\$000)	
		ADDITIONAL PERSONNEL TION OF THE PROPOSED FA	NECESSARY TO CARRY OUT	(PEOPLE)	
		LIFE-CYCLE COST TO OF	ERATE AND MAINTAIN THE	· · · · · · · · · · · · · · · · · · ·	
•	KOI OSLD	PAOLILITA		(\$000)	
		LIFE-CYCLE COST TO OF FACILITY IF NEW FACILI	PERATE AND MAINTAIN THE TY IS A REPLACEMENT	(\$000)	
E. I	DESIGN ST	TATUS (ESTIMATED):		%	
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F. EQUIPMENT ASSOCIATED WITH THIS PROSPECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:					
	UIPMENT NCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	
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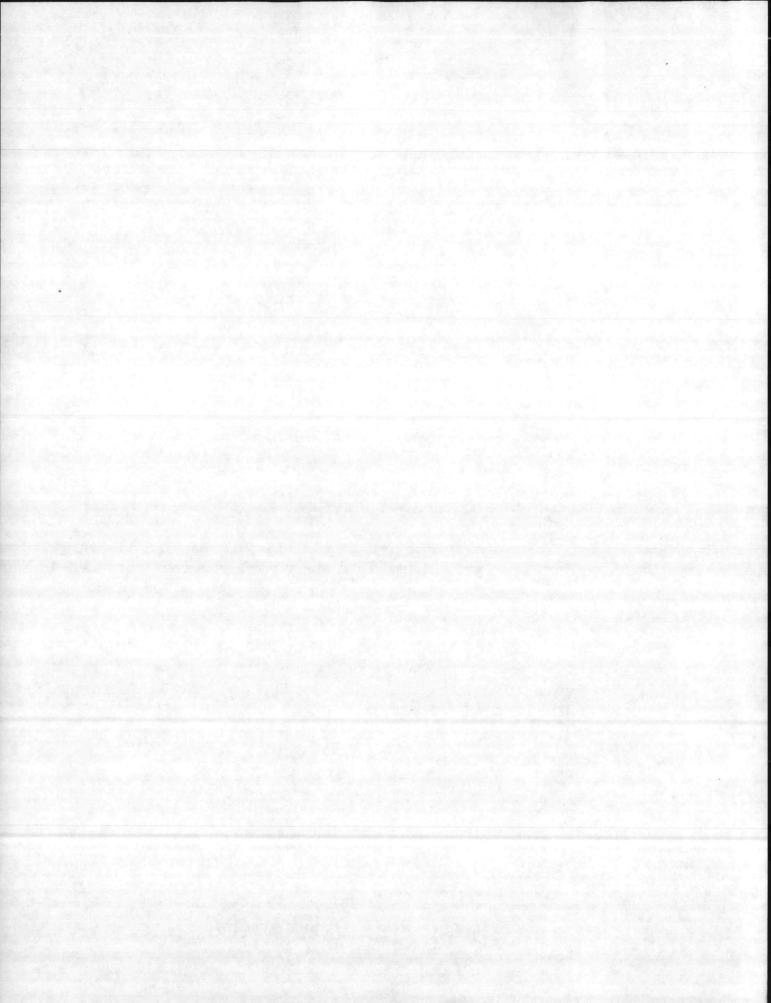
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1. Minister Advisor (M)

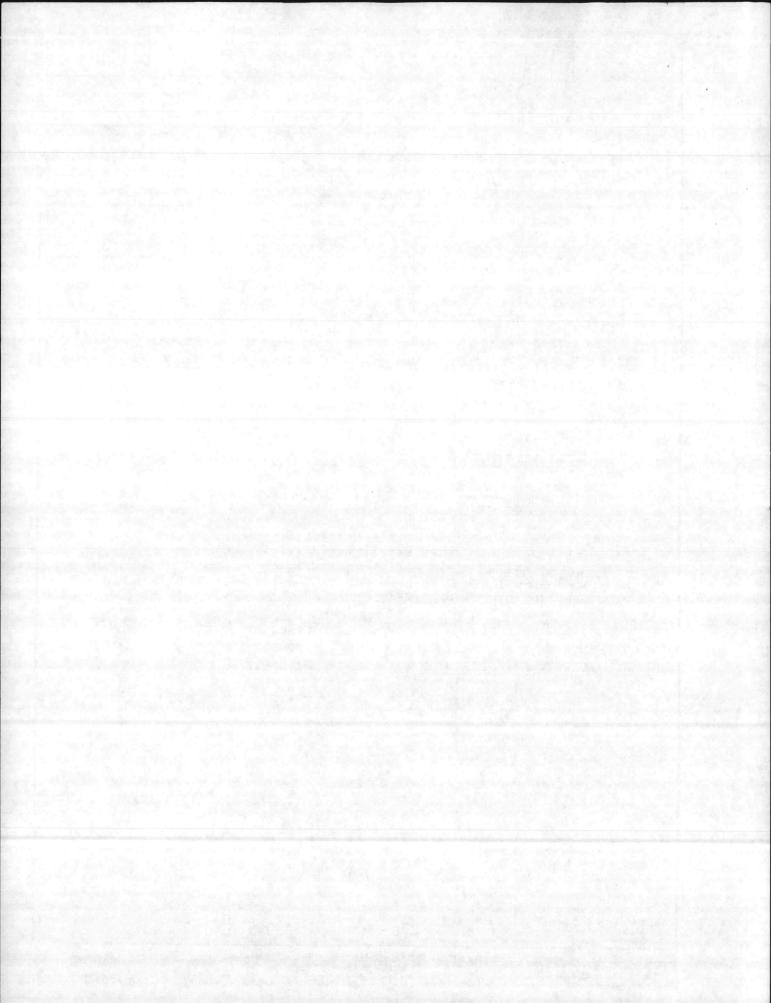
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1,456 X ,0140 = 20

2. VIVIII (N)



4 601	APONENT	4.6		2. DATE
	YAVY	FY 19 79 MILITARY CONS	STRUCTION PROJECT DAT	Α
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MA	RINE CORP	S BASE, CAMP LEJEUNE, NO	ORTH CAROLINA 28542	
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Α.	ESTIMATE	D ANNUAL COST TO OPERATE	THE PROPOSED FACILITY	(\$000)
В.		F ADDITIONAL PERSONNEL N		(PEOPLE)
c.		D LIFE-CYCLE COST TO OPF		
				(\$000)
D. ESTIMATED LIFE-CYCLE COST TO OPERATE AND MAINTAIN THE EXISTING FACILITY IF NEW FACILITY IS A REPLACEMENT				
				(\$000)
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F.	EQUIPMEN PROVIDED	T ASSOCIATED WITH THIS I	PROSPECT WHICH WILL BE	
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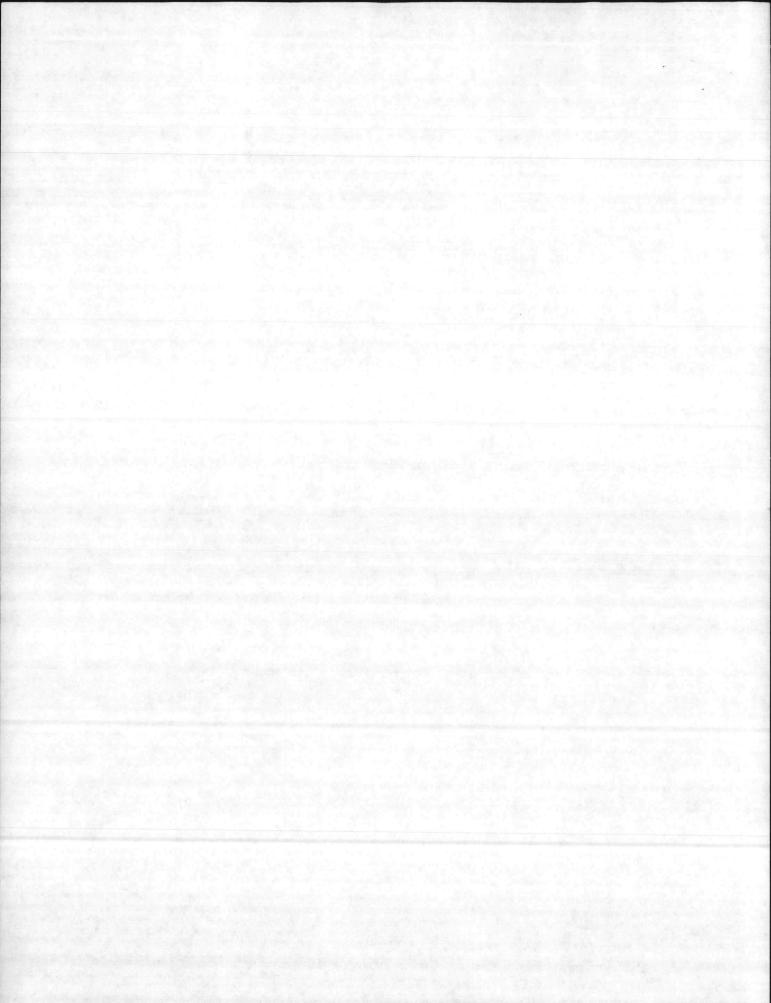
T. DAY STEAM KAD LUDOUSOTE SUSTEME

1. L'encourage & Leve 2 (41). Cost (44), 410

Warra Better 1 , 1946

4/0 x,014/ = 10

Z. L'THITIES (N.)



PROJECT P-613 BACHELOR ENLISTED QUARTERS

M. Maintenance and Repair

Annual maintenance = Current plant value X Maintenance factor

= \$1,166,000 X .0189 = \$ 22,037 per facility

FY 79 outlays required to correct existing maintenance discrepancies and meet current cirteria for habitability and safety:

Building 105 - \$23,185 Building 109 - \$24,905 Building BB-11 - \$34,408 Building BB-12 - \$46,747 Building BB-13 - \$39,098 Building BB-14 - \$47,179

No investment costs for construction, conversion or replacement are provided.

N. Utilities (Ref NAVDOCKS P-75, Vol II)

1. Heating load (steam)

Assume standard structure, no insulation, brick veneer, wall heat transfer coefficient of U = ./25

Volume = 26,602 ft 2 X 10 ft = 266,020

Annual heat load = 1.76 lb of steam/1000 ft 3 /degree day X 266,020 ft 3 X 2347 degree days = 1,098,854 lb of steam

Annual cost = 1099 (1000 lb steam) X \$5.64 per 1000 lb = \$6,198

2. Water heating load

Assume: 20 gallon per man per day 288 men per barracks

Temperature differential = 110 degrees - 60 degrees = 50 degrees

BTU

gal

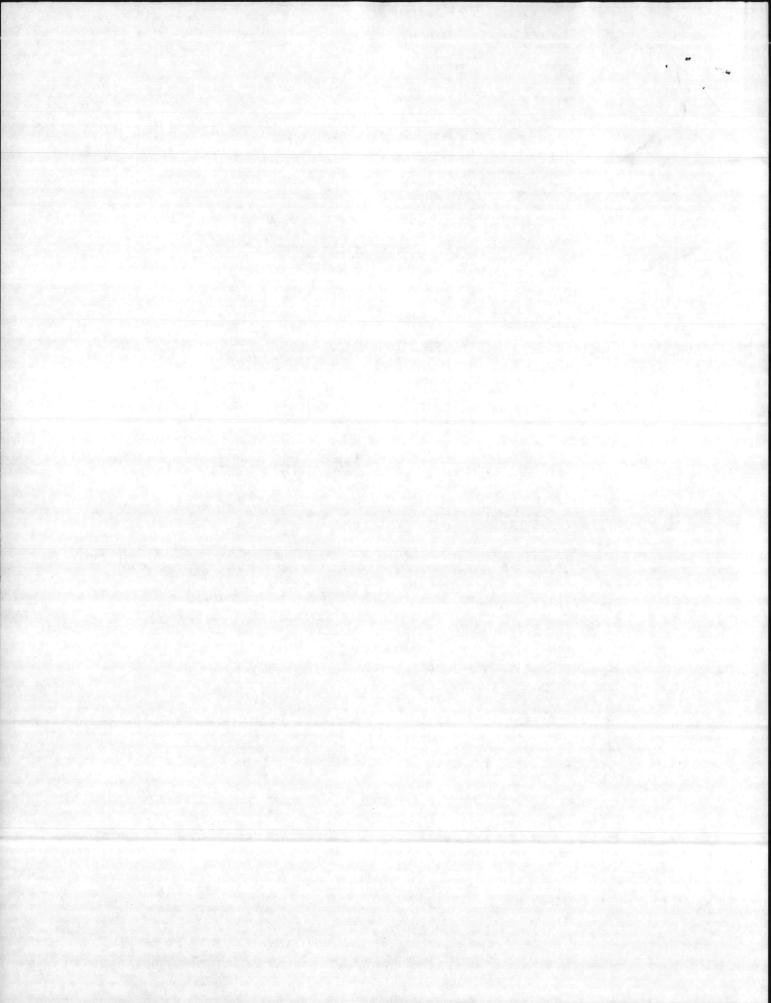
BTU

(11)

HW (day) = 288 men X 20 day X (lb)(F degrees) X 50 degrees (dt)

 $X 8.34 \text{ lb/gal} = 2,401,920 \overline{\text{day}}$

HW (year) = 365 X 2,401,920 $\frac{BTU}{day}$



- = 876,700,800 BTU/yr
- = 876,700,800 BTU/yr 1100 BTU/lb steam
- = 797,000 lb steam
- = 797 (1000 lb steam)

Annual cost = 5.64 per 1000 lb X 797 (1000 lb)

= \$4,495

3. Electrical load

a. Lighting and small loads

Assume: 1.5 w/ft² and 2300 hr. of operation per year $L_{KWH} = 1.5 \text{ w/ft}^2 \text{ X 26,602 ft}^2 \text{ X 2300 hr/yr X } \frac{1}{1000} \frac{\text{KWH}}{\text{KW}}$ = 91,777 KWH

b. Cooling load

Assume: 50 tons of A/C and 2750 hr. of operation per year CKWH = 50 tons X 1.4 KW/ton X 2750 hr = 192,500 KWH

Total electrical = 97,777 KWH + 192,500 KWH = 290,277 KWH

Total annual cost = 290,277 KWH X 3.54/KWH = \$10,160

4. Water and sewage cost

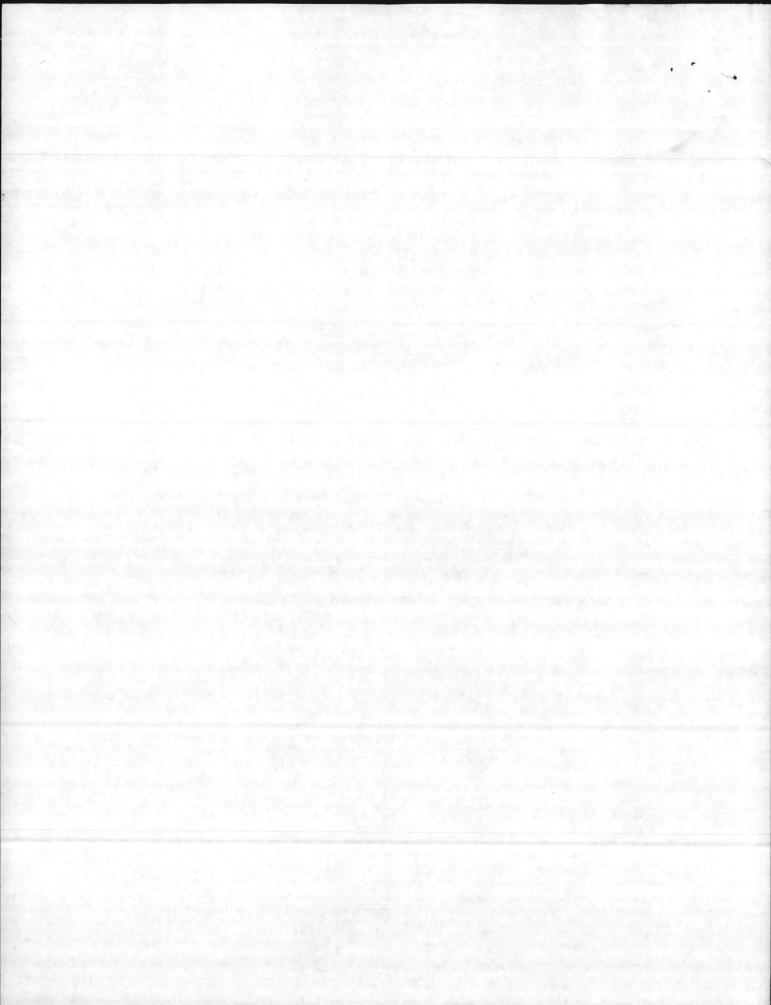
Assume: 50 gallons per man per day

- a. Annual water cost = 288 men X 50 gal/day X \$.61/1000 gal X
 365 day = \$3,206
- b. Annual sewage cost = 288 men X 50 gal/day X \$.47/1000 gal X 365 days = \$2,470

Total \$5,676.

Total Utility Cost (Annual)

Heating \$ 6,198
Water Heating \$ 4,495
Electrical Load \$10,160
Water and Sewage \$ 5,676
Total \$26,529 per facility



P. Other Engineering Support

Trash disposal	\$ 871.
Pest Control	\$ 566.
Miscellaneous Service	\$ 880.
	\$2317 per facility

