

1. COMPONENT MARINE CORPS		FY 1989 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 1 Jul 85	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NC 28542			4. PROJECT TITLE VEHICLE READY FUEL STORAGE		
5. PROGRAM ELEMENT		6. CATEGORY CODE 124-50	7. PROJECT NUMBER P-853		8. PROJECT COST (\$000) 1,560
ESCALATED TO APRIL 1989			9. COST ESTIMATES		
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
VEHICLE READY FUEL STORAGE (124-50)		LS			800
GASOLINE STORAGE (REGULAR)-150,000 GA		LS			(140)
GASOLINE STORAGE (UNLEADED)-125,000 GA		LS			(105)
DIESEL FUEL STORAGE-600,000 GA		LS			(515)
KEROSENE STORAGE-50,000 GA		LS			(40)
FILLING STATION: (123-10)		LS			116
FUEL DISPENSING PUMPS		OL	10		(26)
FUEL STORAGE TANKS		EA	4		(90)
ADMINISTRATION BUILDING (123-15)		SF	1,200	70.00	84
SUPPORTING FACILITIES:		LS			410
SPECIAL CONSTRUCTION FEATURES		LS			(10)
UTILITY CONNECTIONS		LS			(90)
COMMUNICATIONS		LS			(10)
SITE IMPROVEMENTS AND DEMOLITION		LS			(240)
PAVEMENTS: RIGID AND FLEXIBLE		LS			(60)
SUBTOTAL					1,410
CONTINGENCY (5%)					70
TOTAL CONTRACT COST					1,480
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)					81
TOTAL REQUEST					1,561
TOTAL REQUEST (ROUNDED)					1,560
EQUIPMENT PROVIDED BY OTHER APPROPRIATIONS				(NonAdd)	0

10. Description of Construction:

Vehicle Ready Fuel Storage Facility with underground storage tanks, piping, fire protection, cathodic protection, area lighting, security fencing, site improvements and paved access roads.

Filling Station with underground storage tanks, piping, fuel dispensing pumps, paved access roads and refueling areas, fire protection, area lighting, communications, utility connections and site improvements.

Administrative building with reinforced concrete foundation, masonry walls, steel framing, built-up roof, interior support systems (i.e.: heating and air conditioning, fire protection, plumbing, etc.), paved parking, site improvements and utility connections.

Demolition and site restoration of existing fuel storage and filling station facilities.

(Air Conditioning: 3 Tons)



1. COMPONENT
 MARINE CORPS

FY 19⁸⁹ MILITARY CONSTRUCTION PROJECT DATA

2. DATE
 1 Jul 1985

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 MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE
 VEHICLE READY FUEL STORAGE

5. PROJECT NUMBER
 P-853

11. REQUIREMENTS:

CAT CODE		ADEQUATE	SUBSTANDARD
124-50	276,340 GA*	184,000 GA**	15,000 GA***
123-10	56 OL	230 OL	0 OL
123-15	798 SF*	798 SF**	0 SF

Project: Construct a Vehicle Ready Fuel Storage Facility with a total storage capacity of 925,000 gallons. Project is to include a Filling Station with fuel dispensing capabilities and an administrative building for support of the fuel storage and filling station facilities.

Requirement: The fuel storage facility is required for providing back-up fuel for all Government owned or leased vehicles and equipment at Camp Lejeune. The facility will be the central fuel distribution and receiving point for the Base. A filling station is required to establish a main refueling point for all Government vehicles and equipment which travel through the Industrial Area of the Base.

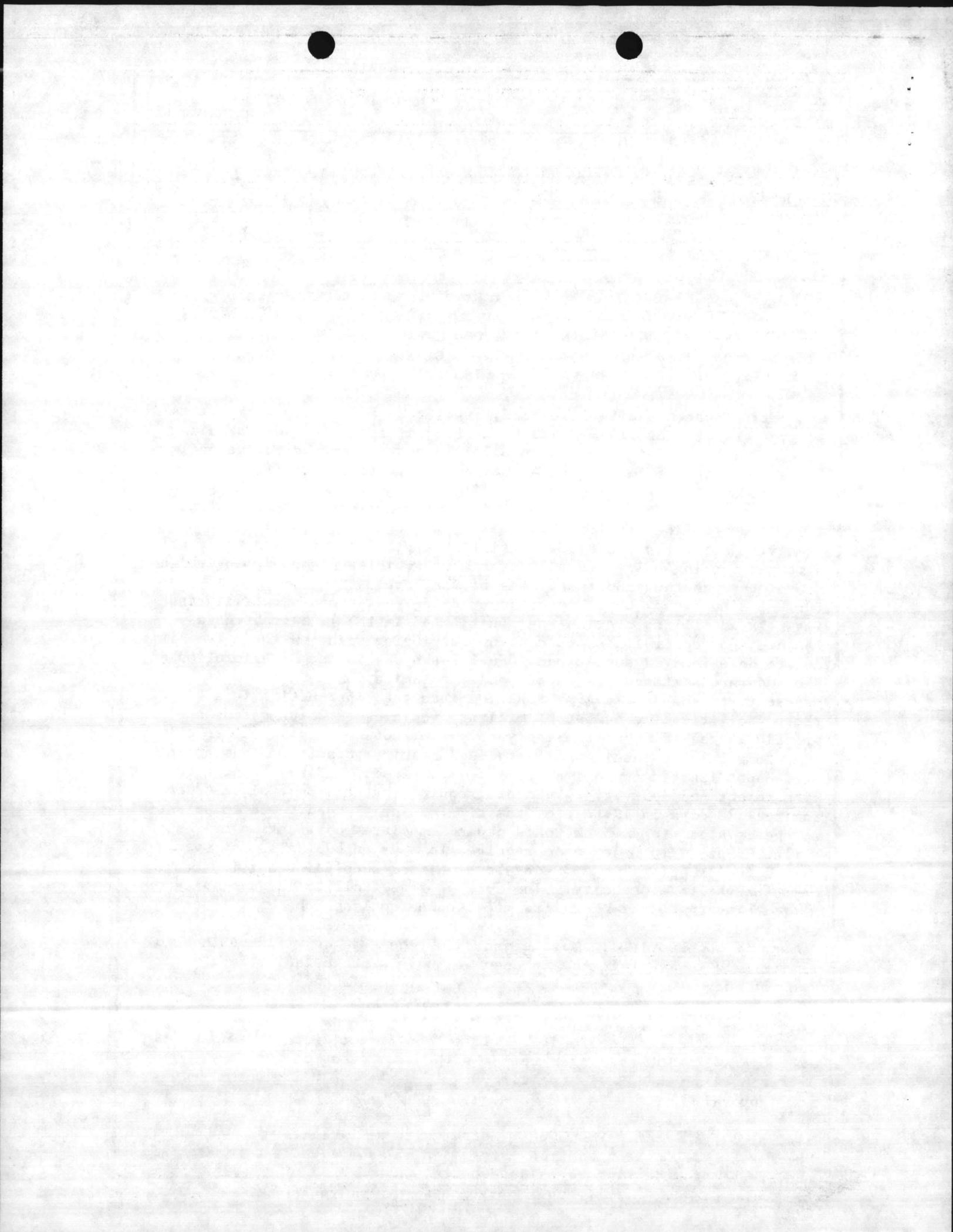
Current Situation: Camp Lejeune's existing fuel storage facility and its related filling station was constructed in the 1943 era. Maintenance and repair funds are continuously being spent on these facilities due to deteriorated conditions. Fuel leaks due to the deterioration of the underground tanks has caused soil contamination and deemed it necessary to abandon several tanks. Since the construction in 1943, of these facilities, the number of military vehicles at Camp Lejeune has greatly increased; thus causing yearly fuel consumption levels to climb.

Camp Lejeune receives all its fuel requirements from a commercial fuel depot located approximately 125 miles from the Base. Contractual procurement and delivery agreements require that the Base place orders for fuel 30 days in advance of the time of actual need. Due to potential emergency situations which would cause immediate mobilization of the Marine Corps, Camp Lejeune is required to have on hand a 30-day operational fuel supply plus a 30-day back up fuel supply for a total of 60 days fuel storage capacity. The fuel storage facility on Base is approaching the point where its mission can no longer be efficiently performed.

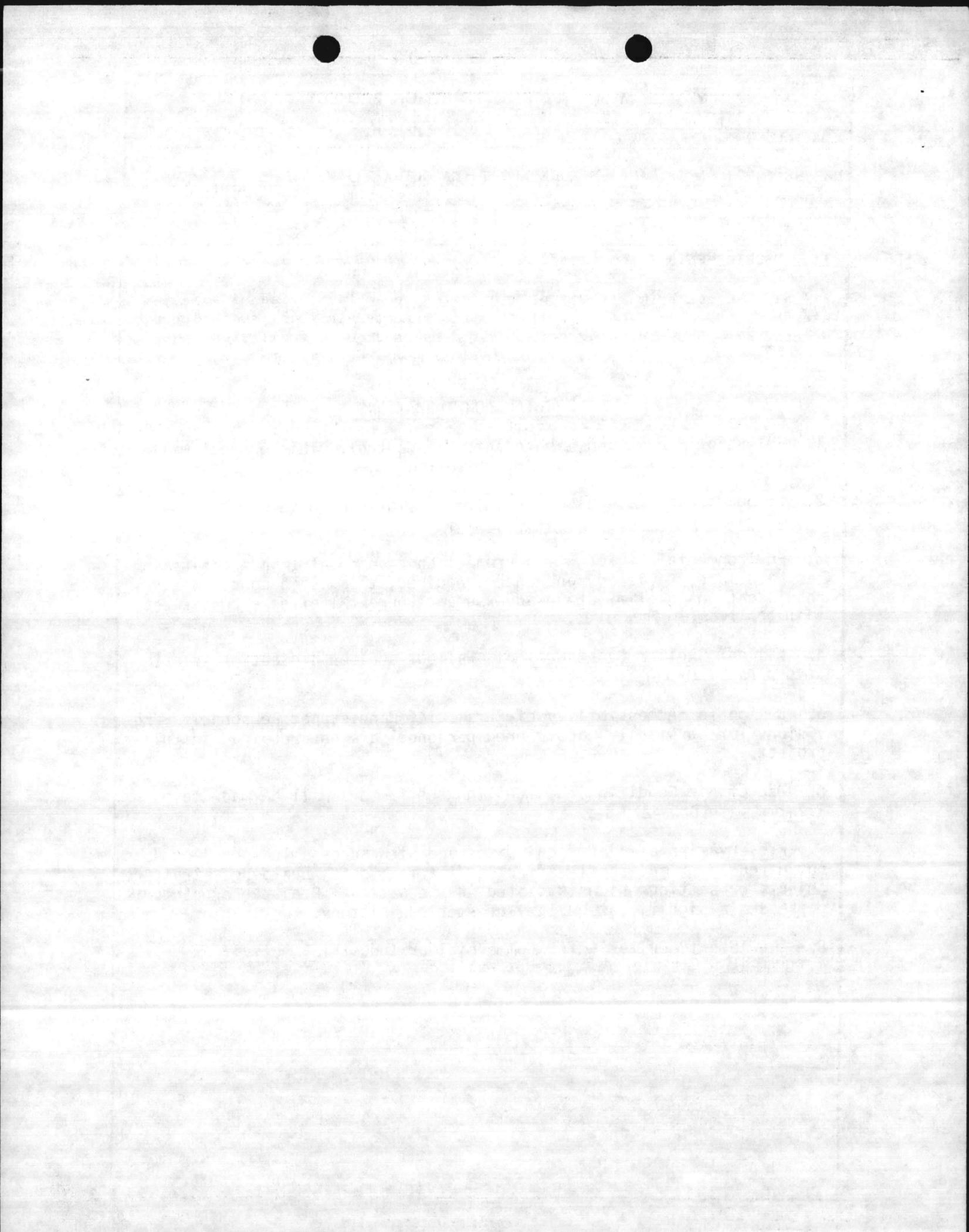
Impact if Not Provided: Maintenance and repair funds will continue to be utilized to maintain the inadequate fuel storage facilities. The lack of adequate fuel storage capacity will impair the combat readiness of the Base.

* The latest certified Basic Facility Requirement, for category codes 124-50 and 123-15, no longer reflects the true needs of the Base. Accordingly revised Basic Facility Requirements are being submitted for approval.

** The latest Form NAVMC 10651 indicates these facilities as adequate. However, these facilities (constructed in 1943) are badly deteriorated and are being redesignated as inadequate.



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11. <u>REQUIREMENTS: (continued)</u>					
<p>*** The latest Form NAVMC 10651 indicates these facilities as sub-standard. However, these facilities (constructed in 1943) are badly deteriorated and are being redesignated as inadequate facilities.</p>					
<u>SPECIAL CONSIDERATIONS</u>					
1. <u>Pollution Prevention, Abatement, and Control</u> : This project will not cause additional air or water pollution.					
2. <u>Flood Hazard Evaluation</u> : Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.					
3. <u>Environmental Impact</u> : The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.					
4. <u>Fallout Shelter Construction</u> : Fallout shelter protection is not incorporated in this project.					
5. <u>Design for Accessibility of Physically Handicapped Personnel</u> : Provisions for physically handicapped personnel are not required in this project.					
6. <u>Use of Air Conditioning</u> : Ceiling "U" factors will be made to conform with DOD 4270.1-M.					
7. <u>Preservation of Historical Sites and Structures</u> : This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.					
8. <u>"New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76)</u> : Not applicable.					



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MARINE CORPS		1 Jul 85	
3. INSTALLATION AND LOCATION			
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VEHICLE READY FUEL STORAGE		P-853	

FACILITY STUDY

1. Project: Provide a Vehicle Ready Fuel Storage facility with a total storage capacity of 925,000 gallons. Provide a filling station with fuel dispensing capabilities and an administrative building for support of the fuel storage and filling station facilities.

2. Current and Planned Future Workload with Regard to this Project: The duration of need is indefinite and the facilities will be utilized 100 percent of the time.

3. Description of Proposed Construction:

a. Type of Construction: Permanent fuel storage facility and filling station with underground storage tanks, administrative building, fuel dispensing pumps, utility connections, paved access roads and parking and utility connections.

b. Replacement: This project replaces 792,000 gallons of inadequate fuel storage facilities (category code 124-50), a filling station with dispensing outlets (category code 123-10) and filling station administrative building (category code 123-15) of 798 square feet. For more detail see paragraph 3.c.(4).

c. Description of Work to be Done:

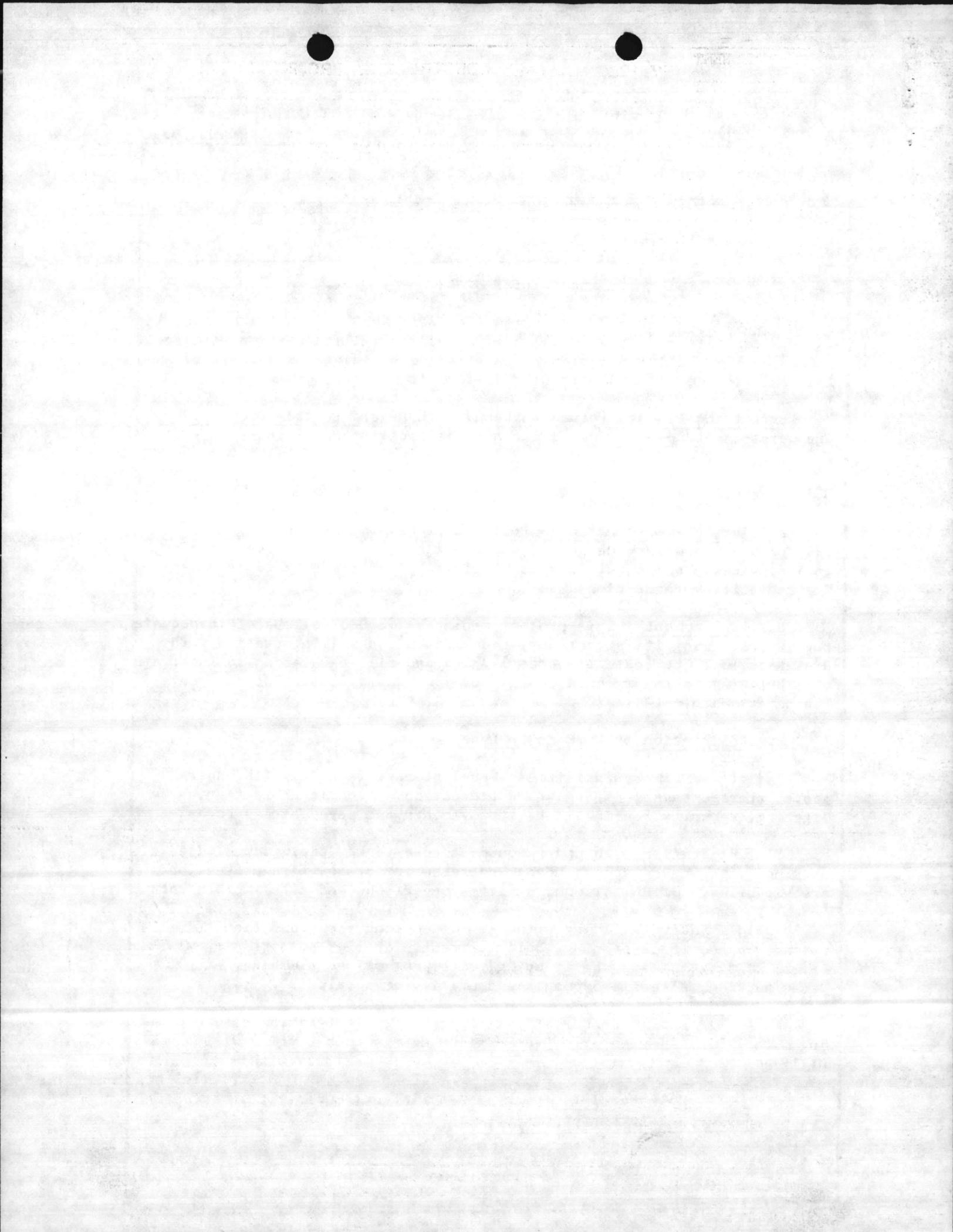
(1) Primary Facilities: Fuel storage facility with underground storage tanks, piping, fire protection, cathodic protection, area lighting, security fencing, site improvements and paved access roads.

Filling station with underground storage tanks, piping, fuel dispensing pumps, paved access roads and refueling areas, fire protection, area lighting, communications, utility connections and site improvements.

Administrative building with reinforced concrete foundation, masonry walls, steel framing, built-up roof, interior support systems (i.e.: heating and air conditioning, fire protection, plumbing, etc.), paved parking, site improvements and utility connections.

(2) Energy Conservation: Energy efficient equipment and building materials and orientation for maximum energy conservation will be utilized.

(3) Collateral Equipment: A collateral equipment list will be forwarded by separate correspondence.



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4. PROJECT TITLE VEHICLE READY FUEL STORAGE				5. PROJECT NUMBER P-853	

c. Description of Work to be Done: (continued)

(4) Supporting Facilities: Underground fuel storage tanks, piping, cathodic protection, fire protection, fuel dispensing pumps, utility connections, paved access roads and refueling areas, pollution abatement and site improvements. Facilities to be demolished by this project are as follows:

Bldg #	Date Const.	Type	U/M	Use Cat Code	Condition
S-1009	1943	P	600,000 GA	124-50	*Adequate
S-1023	1943	"	12,000 GA	"	"
S-1024	1943	"	15,000 GA	"	"
S-1025	1943	"	12,000 GA	"	"
S-1026	1943	"	15,000 GA	"	"
S-1027	1943	"	15,000 GA	"	"
S-1028	1943	"	15,000 GA	"	"
S-1029	1943	"	15,000 GA	"	"
S-1030	1943	"	12,000 GA	"	"
S-1031	1943	"	15,000 GA	"	"
S-1032	1943	"	12,000 GA	"	"
S-1033	1943	"	12,000 GA	"	"
S-1034	1943	"	12,000 GA	"	"
S-1035	1943	"	15,000 GA	"	"
S-1036	1943	"	15,000 GA	"	"
1002	1942	P	798 SF	123-15	"
S-1037	1943	"	1 OL	123-10	"
S-1038	1972	"	132 SF	126-30	"
S-1039	1943	"	132 SF	126-30	"
S-1040	1948	"	36 SF	730-12	"
S-1056	1948	"	36 SF	730-12	"

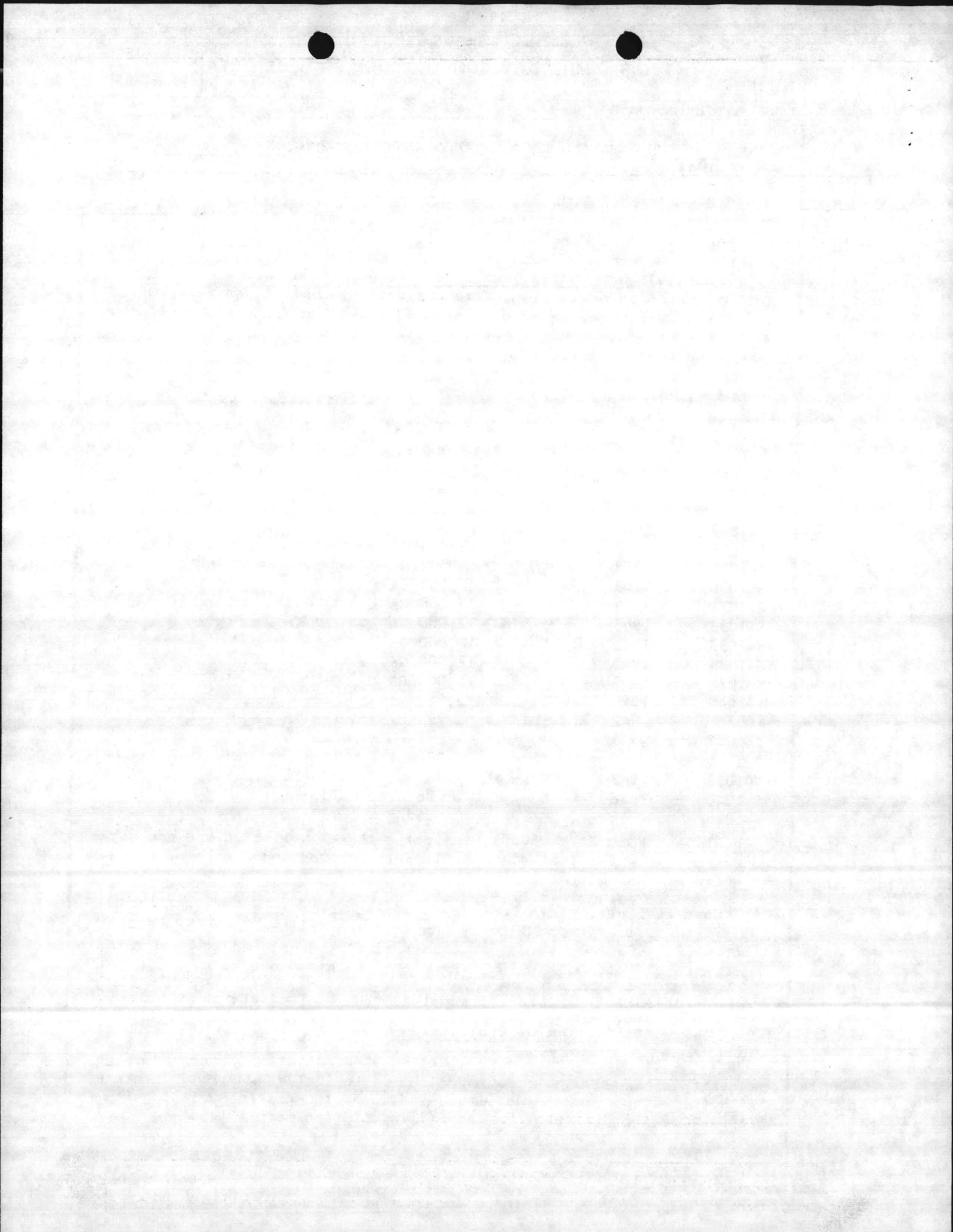
*The latest Form NAVMC 10651, indicates these facilities are adequate. However, these facilities are badly deteriorated and are being redesignated as inadequate.

4. Cost Estimate: Area Cost Factor for Camp Lejeune, NC is 0.95. Cost data derived from Military Construction Cost Review Guide FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-89. A contingency factor of 5% is being used for this project.

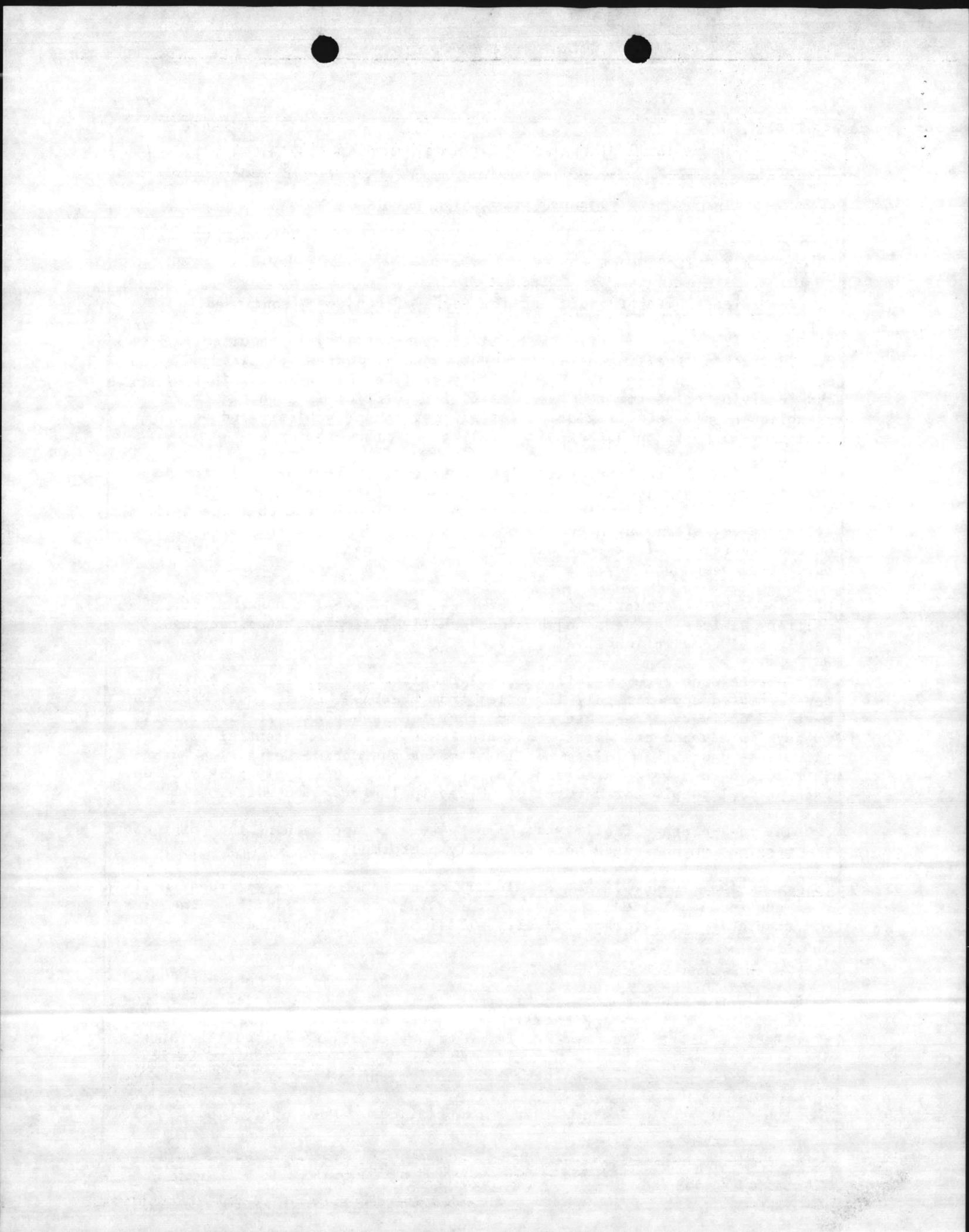
5. Justification for Project and for Scope of Project:

a. Justification of Project:

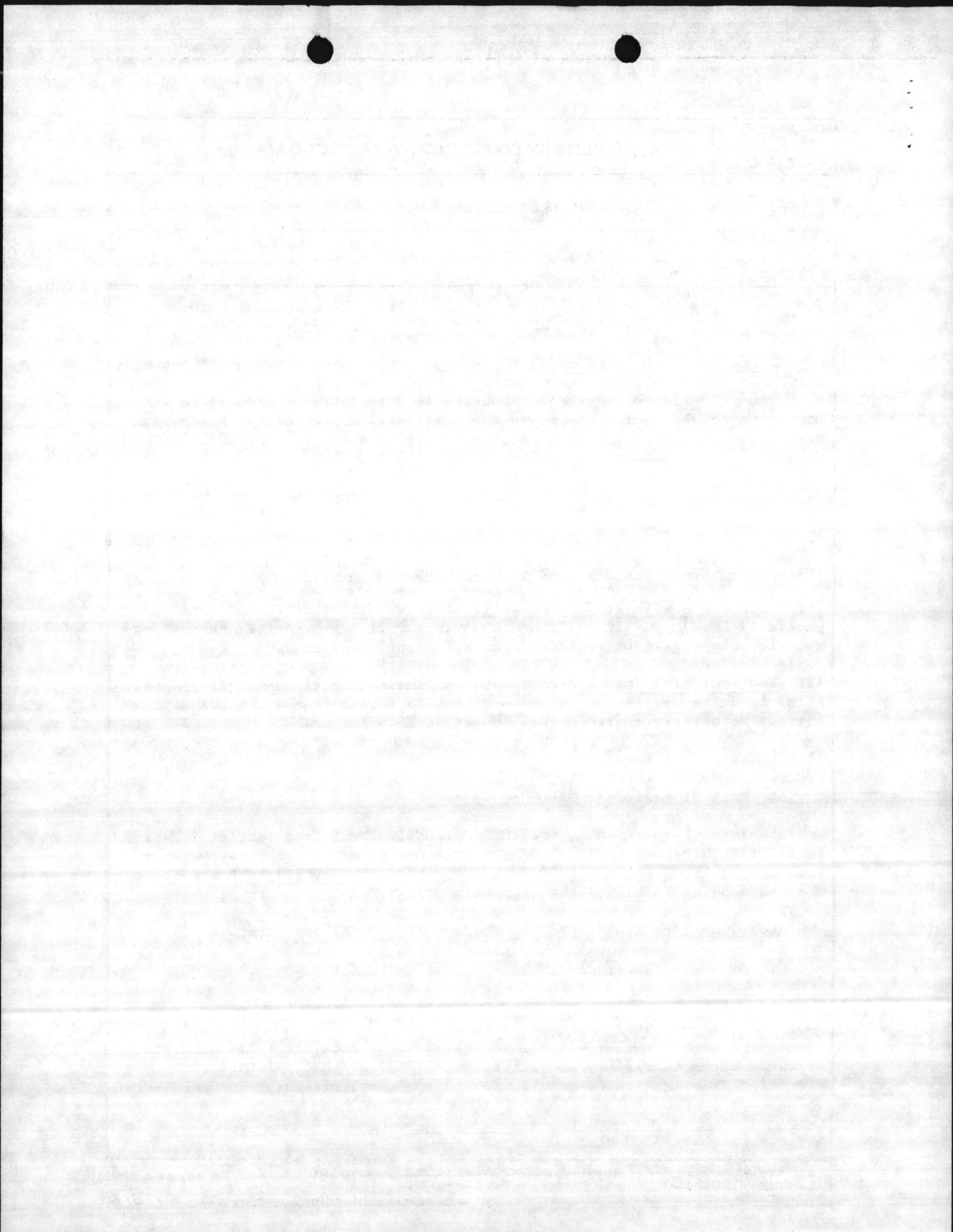
(1) Construct a Fuel Storage facility with a total storage capacity of 925,000 gallons. Project is to include a Filling Station with fuel dispensing capabilities and an Administrative building for support of the Fuel Storage and Filling Station facilities.



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<p>5. <u>Justification for Project and for Scope of Project:</u> (continued)</p> <p>(2) <u>Requirement:</u> The fuel storage facility is required to provide back up fuel for all Government owned or leased vehicles and equipment at Camp Lejeune. The facility will be the fuel distribution and receiving point for the Base. A filling station is required to establish a main refueling point for all Government vehicles and equipment traveling through the Industrial Area of the Base.</p> <p>(3) <u>Current Situation:</u> Camp Lejeune's existing fuel storage facility and its related filling station was constructed in the 1943 era. Maintenance and repair funds are continuously being spent on these facilities due to deteriorated conditions. Fuel leaks due to the deterioration of the underground tanks has caused soil contamination and it was deemed necessary to abandon several tanks.</p> <p>Since the construction (1943) of these facilities, the number of military vehicles at Camp Lejeune has greatly increased, thus causing yearly fuel consumption levels to soar.</p> <p>Camp Lejeune receives all its fuel requirements from a commercial fuel depot located approximately 125 miles from the Base. Contractual procurement and delivery agreements require that the Base place orders for fuel 30 days in advance of the time of actual need. Due to potential emergency situations causing immediate mobilization of the Marine Corps, the Base is required to have on hand a 30 day operational fuel supply plus a 30 day back up fuel supply for a total of 60 day fuel storage capacity.</p> <p>The fuel storage facility at Camp Lejeune is approaching the point where its mission can no longer be efficiently performed.</p> <p>(4) <u>Impact If Not Provided:</u> Maintenance and repair funds will continue to be utilized to maintain these inadequate facilities. The lack of acceptable fuel storage capacity will impair the combat readiness of the Base.</p> <p>b. <u>Justification for Scope of Project:</u> The project scope, 925,000 gallons, is the minimum size facility that can meet the deficiency requirements for the Fuel Storage Facility needs of the Base. The latest certified Basic Facility Requirement, for category codes 124-50 and 123-15, no longer reflects the true needs of the Base. Accordingly, revised Basic Facility Requirements are being submitted for approval.</p> <p>6. <u>Equipment Provided from Other Appropriations:</u> Not applicable.</p>		



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<p>7. <u>Common Support Facilities</u>: Not applicable. There are no common support facilities available at the Base.</p> <p>8. <u>Effect On Other Resources</u>: The project will require a minimal increase in O&MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. Proposed construction should be responsive to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977, and implemented by NAVFACINST 4100.5A.</p> <p>9. <u>Siting of the Project</u>: These facilities will be located in the Hadnot Point Area, in keeping with the Camp Lejeune Master Plan. See enclosure (1).</p> <p>10. <u>Other Graphic Presentations, including Photographs</u>: None</p> <p>11. <u>Economic Analysis</u>: These facilities are being constructed on a partially developed site. Economic savings will be in nominal energy consumption savings to be realized from efficient operations.</p> <p>12. <u>Environmental Impact Assessment</u>: An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.</p> <p>13. <u>Quantitative Data</u>:</p> <p style="padding-left: 2em;">a. Unit of Measure: GALLONS</p> <p style="padding-left: 2em;">b. Total Requirement: *925,000 GALLONS. The latest certified Basic Facility Requirement (276,340 SF), for category code 124-50, no longer reflects the true needs of the Base. Accordingly, revised BFRL requirements are being submitted for approval.</p> <p style="padding-left: 2em;">*For justification of project scope (925,000 GA) see para 5.b.(3).</p> <p style="padding-left: 2em;">c. Existing Substandard: 0</p> <p style="padding-left: 2em;">d. Existing Inadequate: *792,000 GALLONS</p> <p style="padding-left: 2em;">*The latest Form NAVMC 10651 indicates these facilities are adequate. However, these facilities (constructed in 1943) are badly deteriorated and are being redesignated as inadequate. These facilities will be demolished by this project.</p> <p style="padding-left: 2em;">e. Existing Adequate: 0</p>		



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<p>13. <u>Quantitative Data: (cont'd)</u></p> <p>f. Other Assets, Not in Inventory: 0</p> <p>g. Funded, Not in Inventory: 0</p> <p>h. Adequate Assets: (e + F + g) = 0</p> <p>i. Deficiency: (b - h) = 925,000 GALLONS</p> <p>14. <u>Maintenance Facility:</u> Not applicable.</p> <p>15. <u>Morale, Welfare and Recreation Facilities:</u> Not applicable.</p> <p>16. <u>Relocation Facilities:</u> Not applicable.</p> <p>17. <u>Storage Facilities:</u> Not applicable.</p> <p>18. <u>Hazard Identification, Assessment and Analysis:</u> Proposed facilities will be a fuel storage facility and a filling station. The following potential hazardous conditions will be considered during the design phase:</p> <p>a. Gasoline/Diesel Fumes</p> <p>b. Fire</p>		

