

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

09 Jan 86  
Date

From: Director

To: *Danny DDS*

Subj: *For info* *Becker* *MB*

*TO T for  
films*

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11/11

11800  
FAC  
27 JAN 1986

FIRST ENDORSEMENT on AC/S BOSM ltr 11800 BOSM dtd 13 Jan 86

From: Assistant Chief of Staff, Facilities, Marine Corps Base,  
Camp Lejeune

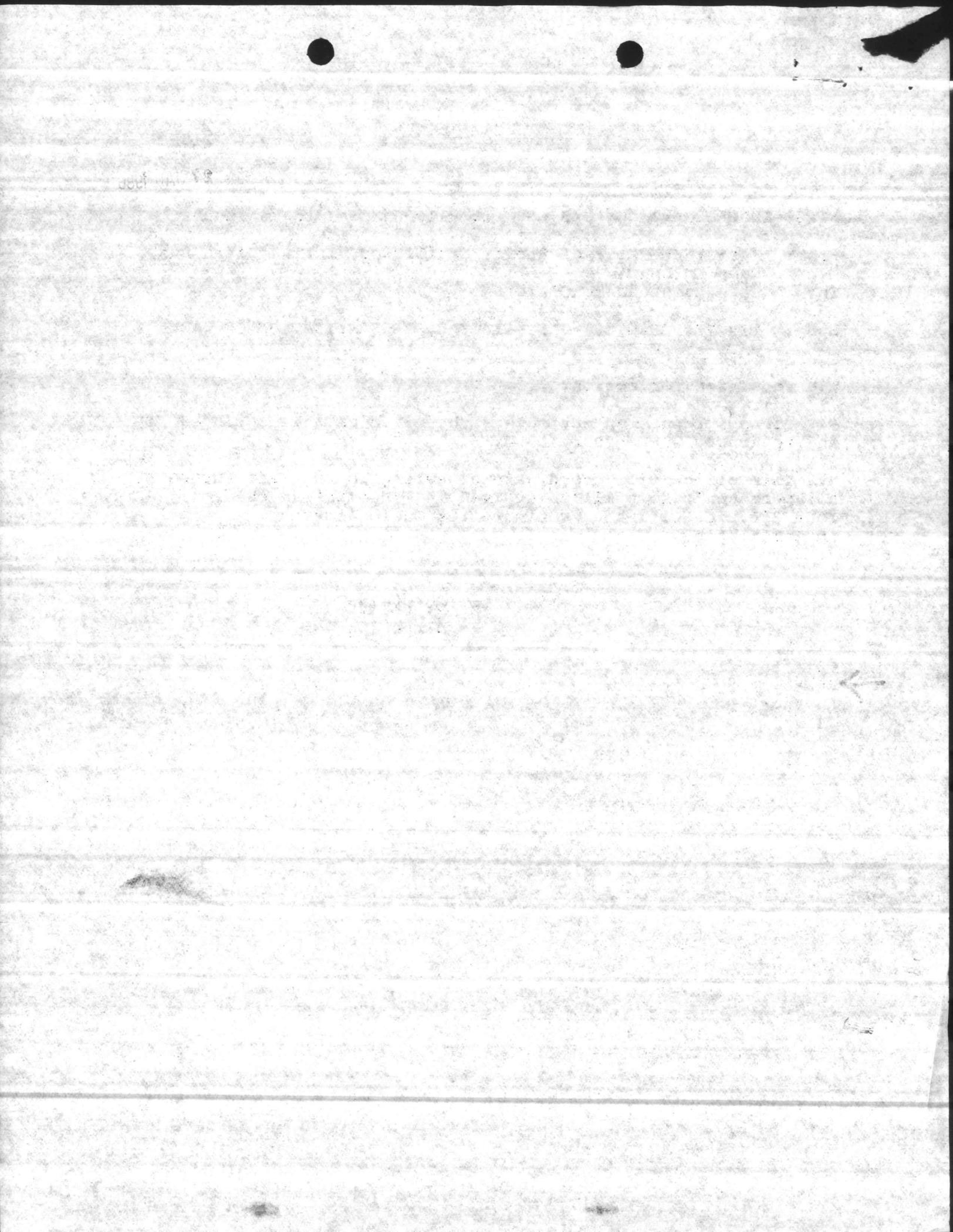
To: Base Maintenance Officer

Subj: MIP PROPOSAL #85-CLNC-414-FAC, NEUTRALIZATION OF WASTE  
BATTERY ACID

1. Forwarded for action.
2. Please prepare an estimate of benefits on this approved MIP and return by 21 February 1986.
3. This office will coordinate a meeting in the near future of all personnel who will be involved in implementing this procedure. Your division will have ultimate responsibility for implementation.

B. W. ELSTON  
By direction

→ Copy to:  
NREA  
EnvEngr  
FIRE





UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542-5001

IN REPLY REFER TO:  
11800  
BOSM  
JAN 13 1986

From: Assistant Chief of Staff, Base Operational Support  
Management Assistance  
To: Assistant Chief of Staff, Facilities  
Subj: MODEL INSTALLATION PROGRAM PROPOSAL NO. 85-CLNC-414-FAC,  
NEUTRALIZATION OF WASTE BATTERY ACID  
Ref: (a) BO.12451.2  
Encl: (1) Subject Proposal w/NAVSO 5305/5

1. The subject proposal has been approved for implementation by the Commanding General. The proposal relates to matters under the cognizance of your department and is forwarded for implementing action as appropriate. We request you notify this office upon completion of the required implementation action so the file on the subject proposal may be closed.
2. The enclosure is also forwarded for an estimate of benefits. MIP awards are processed in accordance with the procedures for the Beneficial Suggestion Program set forth in the reference, and the Civilian Personnel Officer advises the cognizant functional manager should make the award determination.
3. If it is determined the contributor is ineligible for a monetary award based on guidance in the reference (i.e. clearly a job responsibility or routine safety matter), please note in Item 4 of the NAVSO 5305/5.
4. It is requested that your office complete this award determination and return it to this office no later than 10 days following receipt.

*H. F. Smith*  
H. F. SMITH



2000-0000

CONTRIBUTER(S) (Name: Last, first, M.I.) <b>SMITH, GLENEE LANIER</b>		CONTRIBUTION (Number and title) <b>MIP NO. 85-CLNC-414-FAC NEUTRALIZATION OF WASTE BATTERY ACID</b>		DATE RECEIVED
POSITION TITLE, AND GRADE OR RANK/RATE <b>CHEMIST, GS-9</b>		ACTIVITY OF CONTRIBUTOR(S) (Name and location) <b>Marine Corps Base Camp Lejeune</b>		
ORGANIZATIONAL CODE AND TITLE <b>Facilities Department (Base Maintenance)</b>				

TO: <b>AC/S, Facilities</b>	DATE FORWARDED <b>JAN 13 1986</b>	DUE DATE <b>10 Days After Receipt</b>
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A complete evaluation of this contribution is necessary and all questions that apply should be answered. Although you may not have authority to implement the contribution, you are requested to give your opinion on its value. Do not merely state that authority to adopt the contribution is under the cognizance of GSA, VA, Treasury, etc. YOUR REPLY MAY BE USED VERBATIM IN NOTIFYING THE CONTRIBUTOR(S) OF THE RESULTS.

SIGNATURE OF AWARDS ADMINISTRATOR <i>Harry R Casserah</i>	ACTIVITY AND LOCATION <b>AC/S, BOSMAD</b>
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**INVESTIGATION REPORT**

1. WILL CONTRIBUTION BE ADOPTED LOCALLY? (If "NO" give reason for nonadoption in space 4 and answer questions 5 and 6 only)	YES	NO
2. IS CONTRIBUTION IN OPERATION? (Complete items below)		

IF "YES" GIVE DATE INSTALLED \_\_\_\_\_ IF "NO" INDICATE BELOW THE ACTION TAKEN TOWARD ADOPTION

COMMITMENT TO ADOPT HAS BEEN MADE    
 PROJECT OR JOB ORDER HAS BEEN ISSUED    
 EXPERIMENTAL WORK OR TRIAL TEST IS UNDER WAY    
 APPROVAL HAS BEEN REQUESTED

**3. ESTIMATE OF BENEFITS**

**A. INTANGIBLE BENEFITS**

VALUE                     MODERATE     SUBSTANTIAL     HIGH             EXCEPTIONAL

EXTENT OF APPLICATION     LIMITED     EXTENDED     BROAD             GENERAL

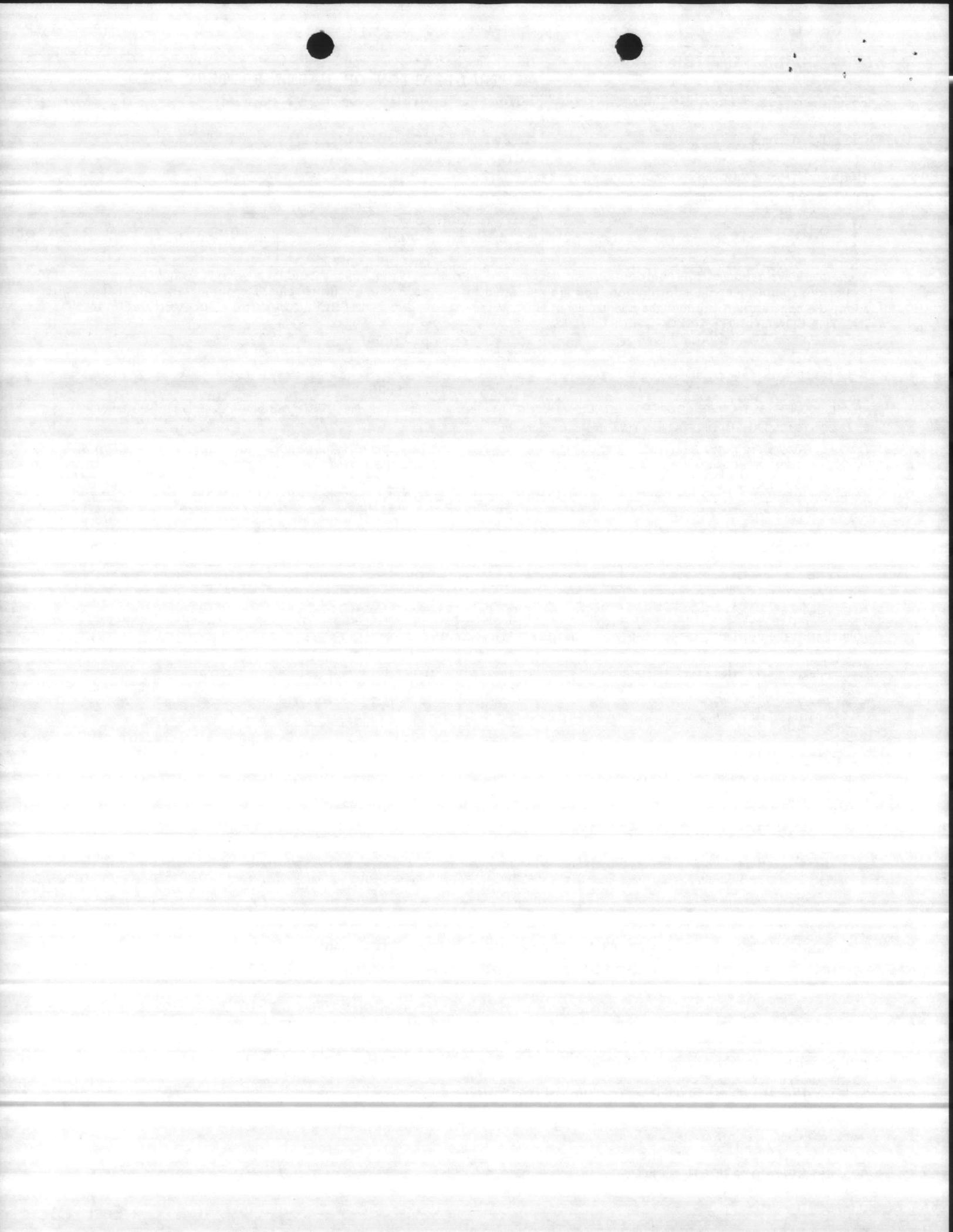
**B. TANGIBLE BENEFITS (In table below compute labor savings at actual cost.)**

ITEM	LABOR			MATERIAL			TOTAL (LABOR AND MATERIALS)
	Hours Per	Dollars Per Hour	TOTAL	Units Per	Cost Per Unit	TOTAL	
FORMER METHOD		\$	\$		\$	\$	\$
NEW METHOD							
SAVINGS							

**4. ADDITIONAL INFORMATION AND COMMENTS**

(If more space is needed, use reverse side starting with this end of the page up. )

5. IS PATENT INVESTIGATION RECOMMENDED?	YES	NO	SIGNATURE OF INVESTIGATOR	DATE
6. IF CONTRIBUTION CAN BE USED ELSEWHERE, INDICATE WHERE:			ACTIVITY AND LOCATION OF INVESTIGATOR	
			APPROVING OFFICIAL	DATE



MODEL INSTALLATION PROGRAM CONTROL FORM

CLNC PROPOSAL NUMBER 85-CLNC-414-LOG	TITLE SUBJECT OF PROPOSAL NEUTRALIZATION OF WASTE BATTERY ACID
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FUNCTIONAL CODE AX	DIRECTIVE UNK	LEVEL OF APPROVAL CG	DATE OF PROPOSAL 850618	RECEIVED BOSMAD 850621
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NAME/PHONE OF SUBMITTER(S) Glenee Lanier Smith/3252	ORGANIZATION FAC
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SYNOPSIS OF PROPOSAL  
Establish one or more permanent battery acid neutralizing locations equipped with all required safety devices.

FUNCTIONAL MANAGER RECOMMENDATION AC/S, LOG Approve	DATE: 850816
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REMARKS:  
See attached AC/S, Facilities letter.

STEERING GROUP RECOMMENDATION N/A - Functional Manager Recommends Approval.	DATE: XXXXXX
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REMARKS:

COMMANDING GENERAL ACTION Approved: <u>  K  </u> Disapproved: <u>      </u> Forward to Higher Authority: <u>      </u> Concept Approved-Final Approval Pending Results of Test: <u>      </u>	DATE: <i>15 Nov 85</i>
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REMARKS:

ACTION BY HIGHER AUTHORITY DTG OF MCBCL REQUEST:  DTG OF RESPONSE:	FINAL ACTION  OTHER RECOGNITION: DATE SUBMITTER(S) NOTIFIED:
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# MODEL INSTALLATION PROGRAM

# PROPOSAL

## MARINE CORPS BASE CAMP LEJEUNE

**INSTRUCTIONS:**

1. COMPLETE ALL INFORMATION REQUESTED.
2. PLEASE PRINT OR TYPE LEGIBLY.
3. USE ADDITIONAL SHEETS IF NECESSARY.
4. FORWARD COMPLETED PROPOSAL TO AC/S, BOSMAD, MCB

**DO NOT WRITE IN THIS SPACE**

DATE RECEIVED

JUN 21 1985

TITLE OR SUBJECT OF PROPOSAL

PROPOSAL NUMBER

85-CLNC-414-FP

NEUTRALIZATION OF WASTE BATTERY ACID

NAME, TITLE, GRADE/RANK OF SUBMITTER(S)

Glenee Lanier Smith, Chemist, GS-9

MAINT DIV.

PHONE

3252, 5161

**CURRENT PROCEDURE:** A 55 gallon polyethylene drum, electric transfer pump, electric mixer, two supplied air respirators, personal protective equipment, extension cords, water hoses, and several 100 lb. bags of soda ash are currently being loaded into a truck. This equipment and chemical is transported to approximately 40 collection sites, spread throughout the Marine Corps Base Complex and New River Air Station. Approximately 30 gallons of waste battery acid is pumped from the units' holding tank into the 55 gallon polyethylene drum; the proper amount of soda ash is added to the acid, and the neutralized acid is pumped into a sanitary sewer drain. (NOTE: Not all storage sites are near sanitary sewer drains, in which case, the material must be transported to the nearest drain or oil and water separator.) The quantities of acid neutralized in 1984 and so far in 1985 are 2700 gal. and 2550 gal.,

**PROPOSED PROCEDURE** (If a directive/order must be waived to implement proposal-identify the specific reference.)

Careful consideration should be given to the concept of establishing one or more permanent neutralizing locations which can be equipped with all required safety devices. On Marine Corps Base Complex, waste acid could be transported by the using units or by other approved methods, to the holding pond under construction behind Bldg. 1700, which is designed to collect the sulfuric acid run-off from the coal pile. A small building with electricity and compressed air could be designed to store the equipment and chemicals necessary to perform the work. The holding pond will be fenced in, therefore units could make an appointment to deliver the waste acid to this centralized location with the Utilities Chemist. The acid could be neutralized any time.

**BENEFITS/ADVANTAGES** Emergency showers and eyewash stations should be provided. Most of the sites do not have this safety equipment. Reducing the number of times that an employee must physically handle a hazardous waste is important. The greater the exposure to a hazard, the greater the risk of an accident. Many more gallons could be neutralized in a work day if there was a centralized location. A lot of time is spent searching for sites, unloading and setting up equipment and hauling the acid to a potential drain site.

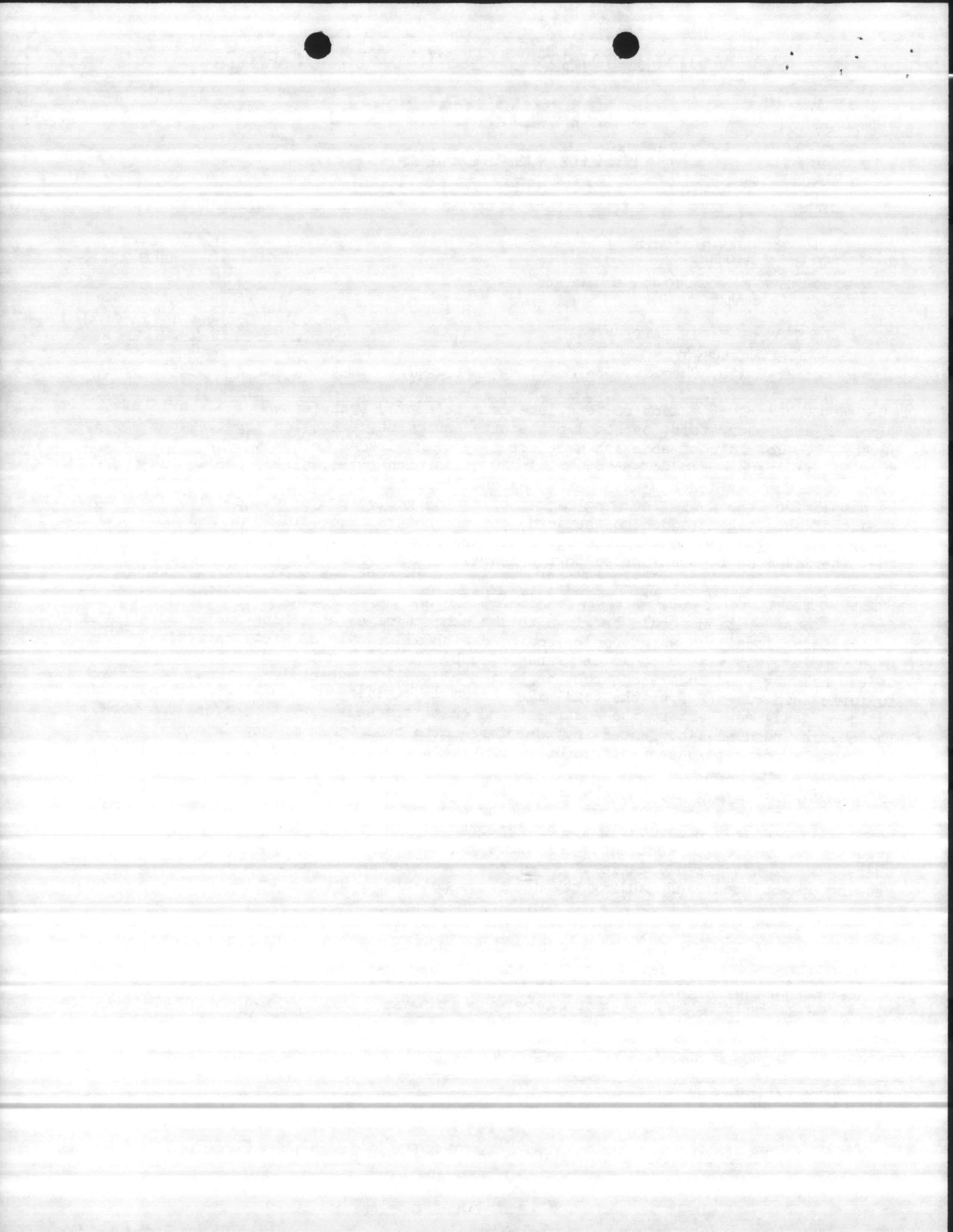
I (WE) UNDERSTAND THAT THE ACCEPTANCE OF A CASH AWARD FOR THE USE OF THIS PROPOSAL BY THE UNITED STATES GOVERNMENT SHALL NOT FORM THE BASIS OF A FURTHER CLAIM OF ANY NATURE UPON THE UNITED STATES BY ME (US), MY (OUR) HEIRS, OR ASSIGNS.

*Glenee L. Smith* June 18, 1985  
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL  
MCBCL 11800

Excellent Installations — The Foundation Of Defense



# Memorandum

11800  
FAC

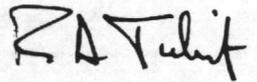
DATE: 8 NOV 1985

FROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune  
TO: Assistant Chief of Staff, Base Operational Support Management Assistance Division

SUBJ: MIP 85-414-FAC, NEUTRALIZATION OF BATTERY ACID

Encl: (1) AC/S, Fac ltr 11800 FAC dtd 16Aug85 (w/Encl)

1. Request the approval of this MIP be expedited and status provided by 15 November 1985.
2. This MIP proposal presents a solution to a pressing pollution and safety problem which must be corrected. Further, approval of the MIP needs to be expedited in order to comply with hazardous waste and wastewater rules.

  
R. A. TIEBOUT

Copy to:  
BMO  
NREAD  
EnvEngr



T-11800

UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542-5001

11800  
FAC

16 AUG 1985

FIRST ENDORSEMENT on EnvEngr Memo 11800 FAC dtd 15 Aug 1985

From: Assistant Chief of Staff, Facilities, Marine Corps Base,  
Camp Lejeune

To: Assistant Chief of Staff, Base Operational Support  
Management Assistance Division

Subj: MIP 85-414-FAC, NEUTRALIZATION OF BATTERY ACID

Encl: (1) MIP 85-414-FAC w/1st End Dir, NREA 11800 NREAD dtd  
19 Jul 85

(2) BMaintO Memo 11800 MAIN dtd 19 Jul 85

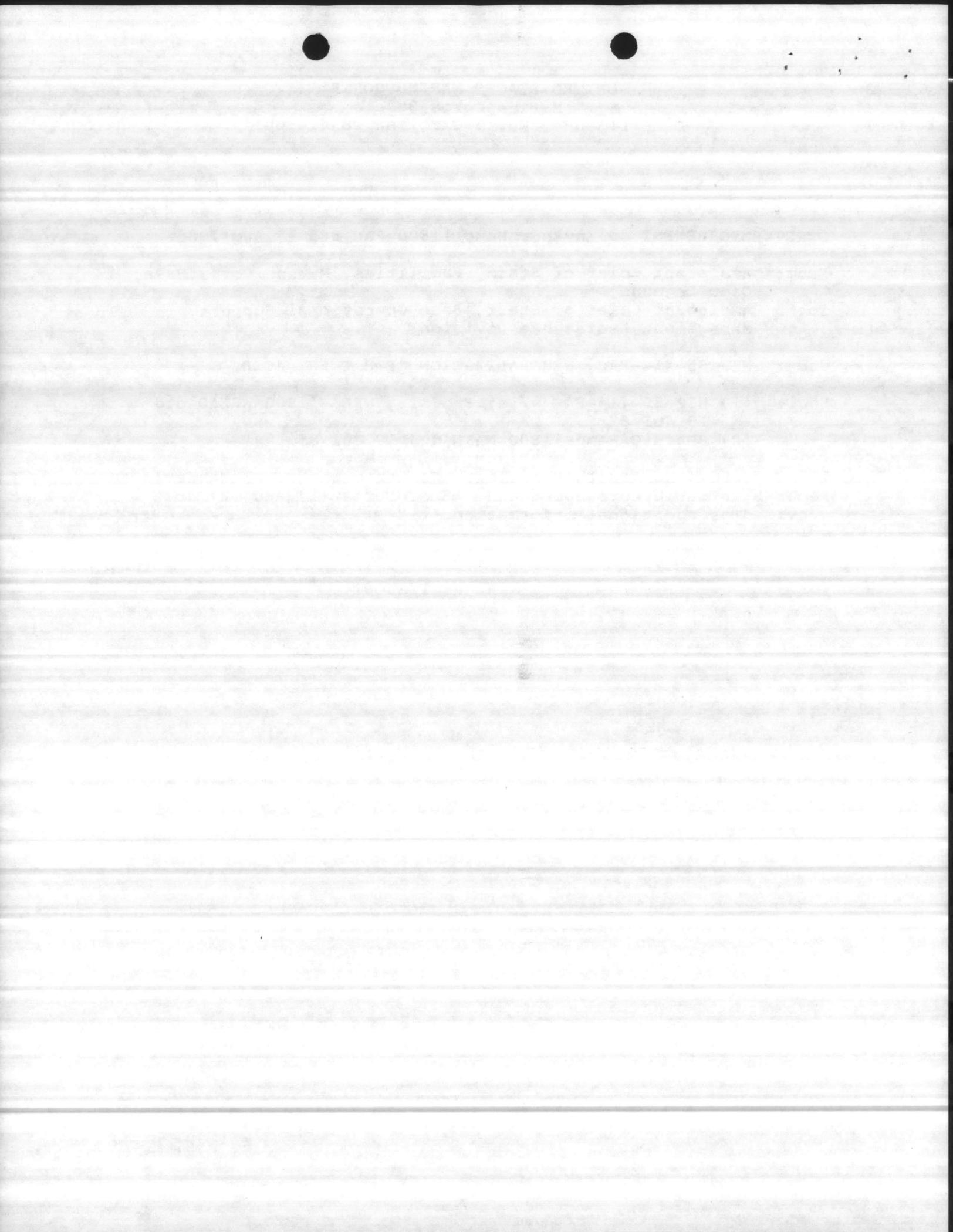
1. Forwarded for further action. Concur with Mr. Alexander's  
remarks in basic correspondence. Enclosures (1) and (2) are  
provided as additional information.

*BT*

R. A. TIEBOUT

Drafter: Col Tiebout  
Typist: H Foster

Enclosure (1)



15 AUG 1985

11800  
FAC

Environmental Engineer

Via: Assistant Chief of Staff, Facilities  
Deputy Assistant Chief of Staff, Facilities

MIP 85-414-FAC, Neutralization of Battery Acid

Encl: (1) "Waste Watcher", Piedmont Waste Exchange, Winter 1985

1. I discussed this with Mrs. Smith. The acid would be transported to the fenced area at Coal Pile Runoff Facility and neutralized by batch method as the coal pile runoff is treated.

2. Several regulatory issues involved:

a. RCRA Part B Permit - would probably need permit revision to be requested from N.C. Solid and Hazardous Waste Management Branch.

b. NPDES Permit - a notification of the proposal, as a minimum and possibly a permit revision should be sent to the N.C. Division of Environmental Management. (Note: Coal Pile Runoff Facility also should be sent by A/E and approved by NCDEM - not done yet, I think.)

c. Sludge produced by this operation will need to be tested for hazardous characteristics, mainly heavy metals, on a recurring basis (NREAD could assist).

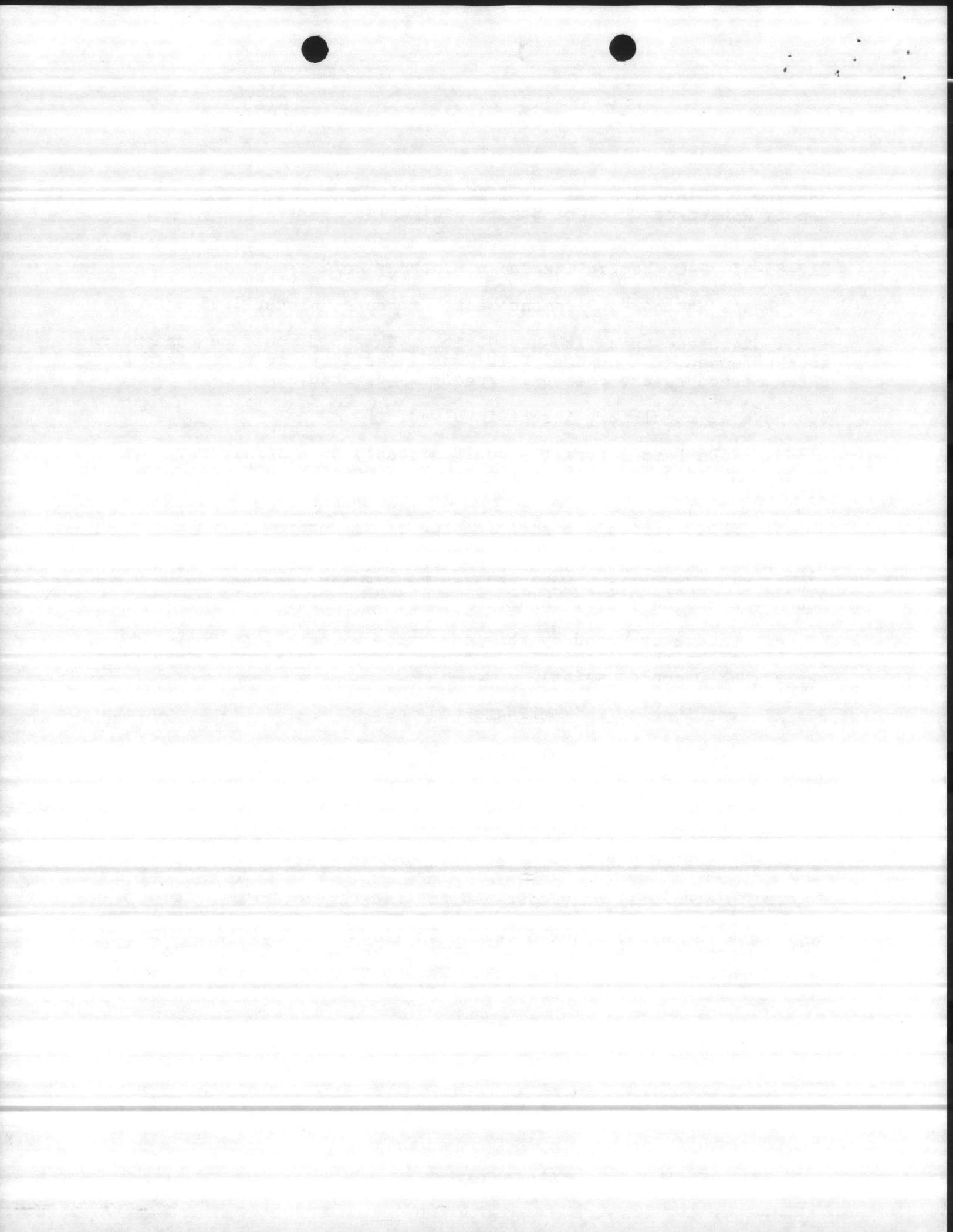
3. Alternatives to this MIP are:

- a. Turn in to DRMO for disposition.
- b. Finding a reuse/recycle operation through Piedmont Waste Exchange.

The DRMO option will be very expensive - they have been unable to accomplish anything other than service contract disposal. The advantage to MCB is - no costs involved (yet).

The PWE option will only cost \$40 to list the acid in their publication as available for donation to any industrial operation which can reuse/recycle the acid. The industries would either contact MCB directly or through PWE to obtain the acid. The enclosure describes the process. This option will also involve DRMO for record-keeping and disposition of excess federal property.

A  
8/15

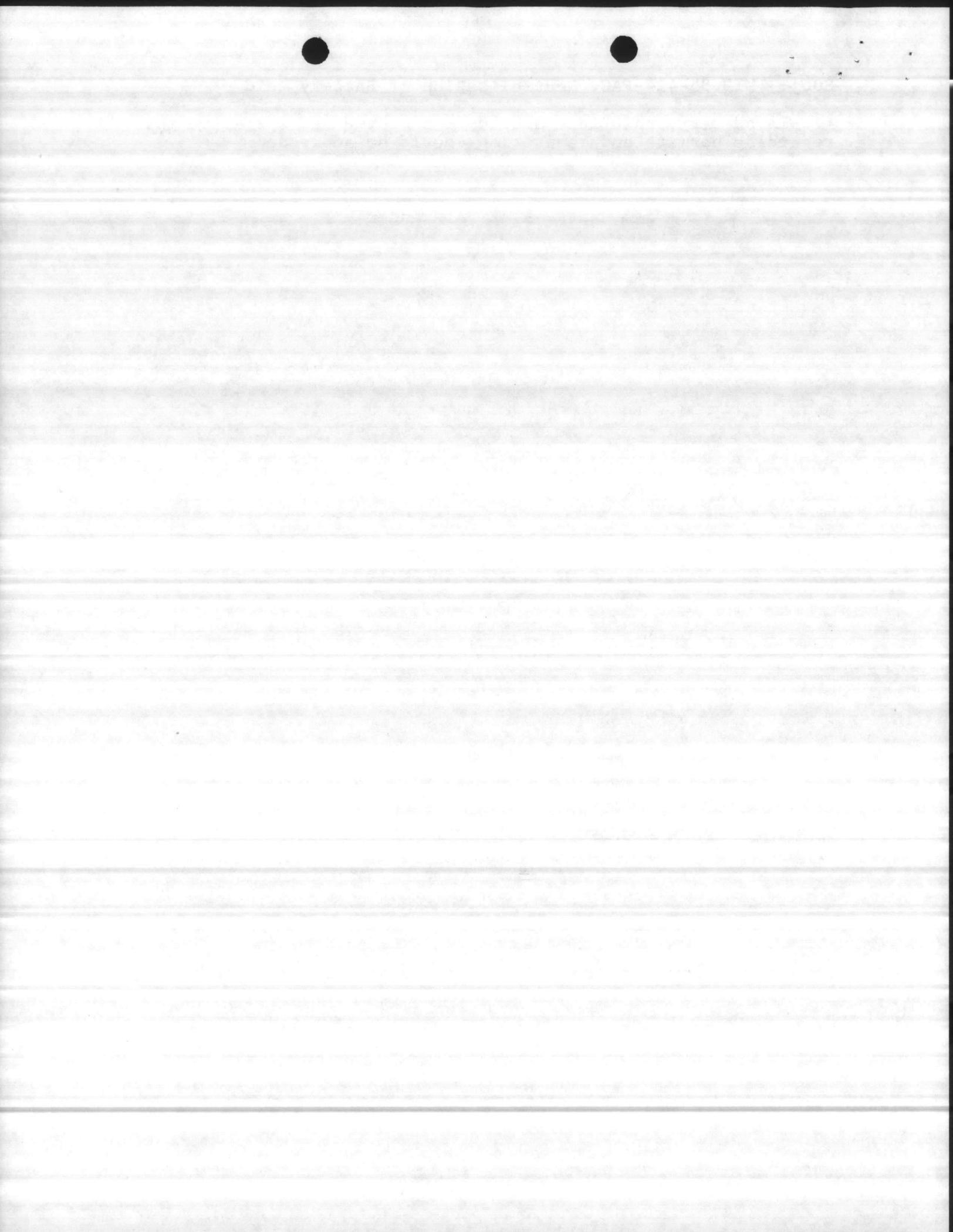


Subj: MIP 85-414-FAC, Neutralization of Battery Acid

4. In summary, this idea should be approved and the above issues regarding permits and monitoring should be addressed.

R. E. Alexander

Writer: Mr. Alexander  
Typist: S. Schmitz, 14Aug85



# Memorandum

11800  
MAIN

DATE: 19 JUL 1985

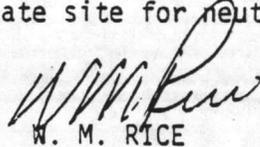
FROM: Base Maintenance Officer

TO: Assistant Chief of Staff, Facilities

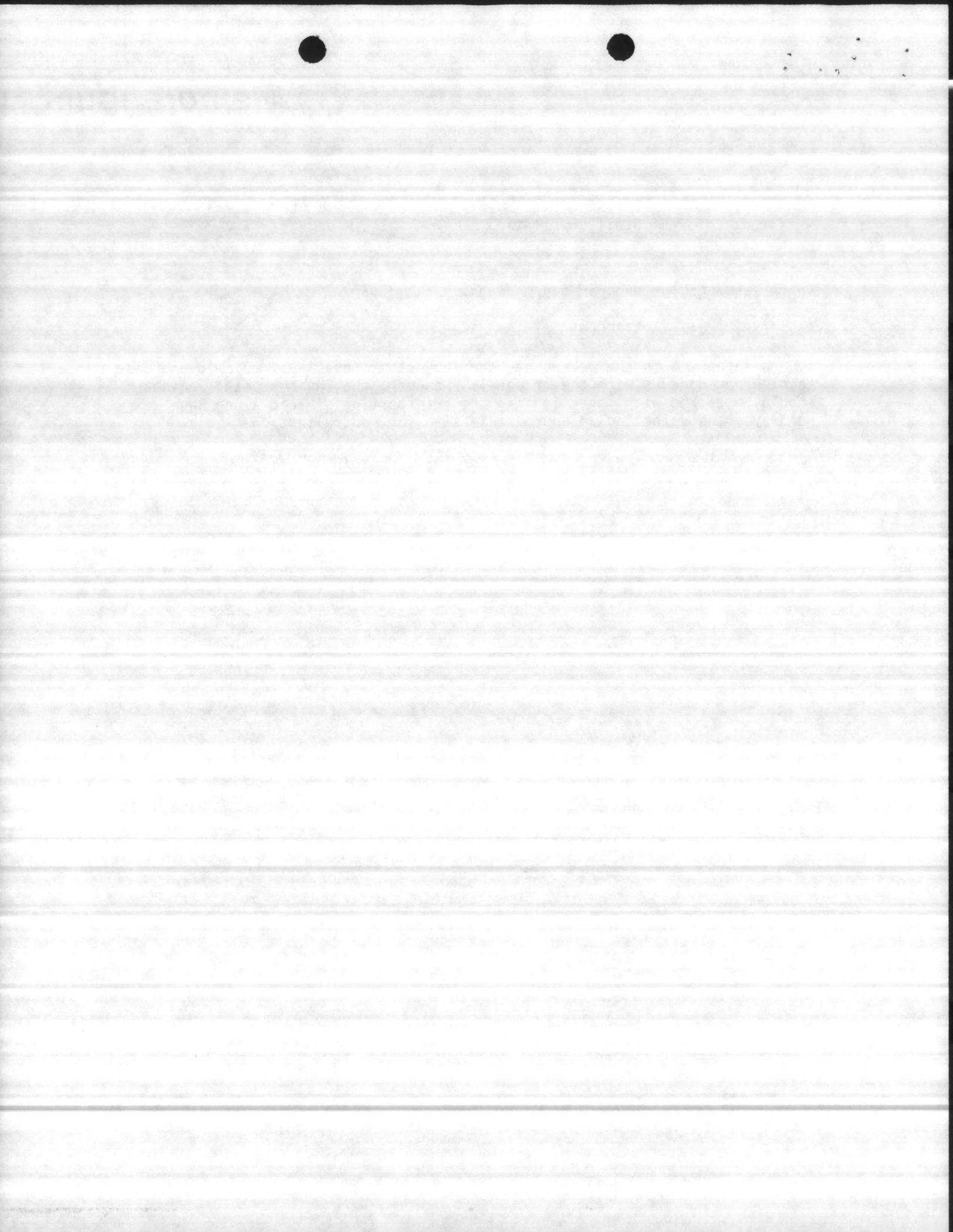
SUBJ: MODEL INSTALLATION PROGRAM PROPOSAL 85-CLNC-414-FAC

Ref: (a) AC/S, Fac memo 11800 FAC of 12 Jul 85

1. As requested in the reference, the subject proposal was reviewed and Base Maintenance concurs with the proposal. However, the Environmental Engineer should be tasked with investigating the transporting of acid along Base roadways, and selecting an appropriate site for neutralization.



W. M. RICE



UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542-5001

11800  
NREAD  
19 Jul 85

FIRST ENDORSEMENT on AC/S FAC ltr 11800 FAC dtd 12 Jul 1985

From: Director, Natural Resources and Environmental Affairs  
Division

To: Assistant Chief of Staff, Facilities

Subj: MODEL INSTALLATION PROGRAM PROPOSAL 85-CLNC-414-FAC

Encl: (1) Copy of MIP No. 85-CLNC-414-FAC

1. Returned. Recommend approval.

2. Comments: This would require some expense at generator location for DOT approved containers. Transportation on public highway is an issue but does not preclude successful implementation.

C. D. PETERSON  
Acting



1 2 3 4 5 6 7 8 9 10 11 12

# Memorandum

11800  
FAC

DATE: 2 JUL 1985

FROM: Assistant Chief of Staff, Facilities, Marine Corps Base,  
Camp Lejeune

TO: Base Maintenance Officer *me*  
Director, Natural Resources & Environmental Affairs *me*

SUBJ: MODEL INSTALLATION PROGRAM PROPOSAL 85-CLNC-414-FAC

Encl: (1) Copy of MIP No. 85-CLNC-414-FAC

1. Please review the enclosed Model Installation Program (MIP) proposal and let me know what you recommend. If you think the proposal has merit and should be approved, only a brief comment is necessary. If you recommend disapproval, or a variation of the proposal, a fuller justification will be required. When another department would be affected by approval of this proposal, and the MIP number does not indicate dual cognizance, please coordinate your response informally with them.

2. In either case, please cite any applicable directives which would have to be waived if the proposal were approved. If practical, enclose a copy of the pertinent portions.

3. Response is due to this office by 19 July.

B. W. ELSTON  
By direction

Writer: CAPT J. M. VANCAMP  
Typist: D. W. MCGUIRE, FAC, 9JUL85

