26 May 87

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

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

MODEL INSTALLATION PROPOSAL (MIP) 87-CLNC-092-FAC, STEAM OPERATED SUMP PUMP

(a) AC/S Fac memo 11800 FAC of 12 May 87

1. As requested by the reference, the subject MIP has been reviewed. A similar proposal 87-CLNC-052-FAC, Converting Steam Operated Sump Pumps to Water was submitted previously and action was delayed pending recommendations of an ongoing steam trap survey on Contract N62470-85-C-8040. Therefore, it is requested that recommendations regarding the subject MIP be deferred as well.

a. In addition to surveying steam traps, the scope of work includes the inspection of the steam operated sump pumps and making recommendations for the most efficient method of keeping the steam pits and sumps dry. Steam, water, and electric operated pumps will be studied.

b. On the contract completion date (September 1987) the Base will be provided an analysis of their findings and recommendations. This will provide the required information for approval or disapproval of the subject MIP.

2. Any questions concerning these findings should be directed to Mr. D. L. Southerland, extensions 5024/5161.

M. G. LILLEY

ROUTING SLIP 13 MAY 1987

	ACTION	INFO	INITL
BMO		✓	
DBMO		✓	
DIR, ADMIN (log)	✓	sem	
DIR, OPS			
DIR, M&R		✓	
DIR, UTIL	✓		
SECRETARY			
COMMENTS:			

Suspense
5 June

Have attached another MIP on sump pumps.
C.

Carl pls investigate to seem if same/same
CP5
14

ROUTING SLIP

13 MAY 1987

	ACTION	INFO	INITL
BMO		✓	
DBMO		✓	
DIR, ADMIN (log)	✓	dem	
DIR, OPS			
DIR, M&R		✓	
DIR, UTIL	✓		
SECRETARY			
COMMENTS:			

Suspense
5 June

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

11800
FAC

DATE: MAY 12 1987

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

TO: Base Maintenance Officer

SUBJ: MODEL INSTALLATION PROGRAM PROPOSAL NO. 87-CLNC-092-FAC, STEAM OPERATED SUMP PUMP

Encl: (1) AC/S, BOSMAD memo 11800 BOSM dtd 6 May 87

1. Please review the subject MIP proposal in accordance with established procedures. Response is requested by 5 June 1987.

K. J. KIRIACOPOULOS
By direction

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

11800
FAC

DATE: MAY 12 1987

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

TO: Base Maintenance Officer

SUBJ: MODEL INSTALLATION PROGRAM PROPOSAL NO. 87-CLNC-092-FAC, STEAM OPERATED SUMP PUMP

Encl: (1) AC/S, BOSMAD memo 11800 BOSM dtd 6 May 87

1. Please review the subject MIP proposal in accordance with established procedures. Response is requested by 5 June 1987.

K. J. KIRIACOPOULOS
By direction

11800
BOSM
MAY 6 1987

MEMORANDUM

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

Subj: MODEL INSTALLATION PROGRAM PROPOSAL NO. 87-CLNC-092-FAC, STEAM OPERATED SUMP PUMP

Encl: (1) Subject Proposal

1. The enclosed proposal is forwarded for review and comment. Request recommendation for approval or disapproval be returned to this office with an excerpt from the applicable directive within ten working days from date of receipt. Recommendation for disapproval should be accompanied by a written rationale.

2. This office will forward proposals recommended for approval directly to the Commanding General for decision. Proposals recommended for disapproval will be reviewed by the Model Installation Steering Committee prior to forwarding to the Commanding General.

3. It is recommended that any other Marine Corps Base department that may be affected by the approval or disapproval of the enclosed proposal be contacted during your review.

4. BOSMAD POC is D. Martin, 5521/1577.

H F Smith
H. F. SMITH

Enclosure (1)

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: 6 May 87

PROPOSAL NUMBER: 87-CLNC-092-FAC

TITLE OR SUBJECT OF PROPOSAL: STEAM OPERATED SUMP PUMP

NAME, TITLE, GRADE/RANK OF SUBMITTER(S): LOUIS R. FUCILI, PIPE FITTER, WG10

PHONE: 451-5794/5796

CURRENT PROCEDURE

The current procedure is the use of Penberthy Model 1R water operated and Model 2R SL steam operated sump pump to pump out steam dist. pits and house pits. The cost to replace one of these pumps is approximately $690-$860. The cost to maintain one of these pumps ranges from $.42 for valve packing to $264.00 for an ejector assembly. The average cost to repair one of these pumps is $130.00 material, 1.8 man-hours, approximately $32.00 labor for a total of $162.00. There are over 400 steam distribution pits with this type sump pump in them. Approximately 100 or more pumps were replaced in Fiscal Year 1986 ($690.00 - $800.00 each) approximately $70,000 in material, approximately 80 man-hours = $1,389.00 for a total of $71,389.00.

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

The proposed procedure is to fabricate a sump pump using a Sarco TD42H Thermodynamic Impulse Steam Trap, or an Armstrong CD-33 Thermodynamic Impulse Steam Trap. A Penberthy Model GL Jet Pump Ejector or use existing Penberthy Pump Ejector assembly. This pump operates on steam. The steam trap serves two purposes, to pump water from steam pit and to remove condensate from steam line. The cost of the thermodynamic trap is approximately $145.00, the cost of the Jet Pump Ejector is approximately $93.00,1.8 man-hours to replace existing pump, approximately $32.00 labor for a total of $270.00. The total cost using existing Penberthy Pump Ejector Assembly, approximately $177.00. There is only one moving part, the disk in the Thermodynamic Trap, and only two (2) replacement parts, total cost $97.00, 1.8 man-hours,approx $32 labor.

BENEFITS/ADVANTAGES maximum repair cost $129.00.
Current Procedures Cost - $690 - $800 each Proposed Procedures Cost $238 each
A savings of $452 -$536 each.
Estimated replacement of 100 sump pumps, material & labor
Current - $71,389.00 Proposed $27,000.00 A savings of $44,389.00
Estimate of Repair of one (1) sump pump.
Current - Approximate average repair $162.00 Proposed maximum total repair $129.00
Current pump has more than 15 parts to be replaced, should it malfunction $.42 through $264
Proposed pump has only two (2) parts to be replaced should it malfunction. Approximate cost $97.00. Because it has less parts to be repaired or fail, the proposed pump requires less maintenance.

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.

Louis R Fucili 5-6-87
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL
MCBCL 11800

Excellent Installations — The Foundation Of Defense

ENCL (1)

11 MAR 1987

11800
MAIN

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

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

MODEL INSTALLATION PROPOSAL (MIP) 87-CLNC-052-FAC, CONVERTING STEAM OPERATED SUMP PUMPS TO WATER

(a) AC/S FAC memo 11800 FAC of 19 Feb 87

1. As requested in the reference, the subject MIP has been reviewed. It is requested that the recommendations for approval or disapproval be delayed, pending the results of an ongoing steam trap survey on Contract N62470-85-C-8040.

a. In addition to surveying steam traps, the scope of work includes the inspection of the steam operated sump pumps and making recommendations for the most efficient method of keeping the steam pits and sumps dry. Steam, water, and electric operated pumps will be studied.

b. On the contract completion date (September 1987) the Base will be provided an analysis of their findings and recommendations. This wil provide the required information for approval or disapproval of the subject MIP.

2. Any questions concerning these findings should be directed to Mr. D. L. Southerland, extension 5024/5161.

M. G. LILLEY

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

11800
FAC

DATE: FEB 19 1987

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

TO: Base Maintenance Officer

SUBJ: MODEL INSTALLATION PROGRAM PROPOSALS

Encl: (1) AC/S BOSMAD memo 11800 BOSM dtd 13 Feb 87

1. Please review the enclosed MIP proposals in accordance with established procedures. Response is requested by 17 March 1987.

K. J. KIRIACOPOULOS
By direction

11800
BOSM

FEB 13 1987

MEMORANDUM

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

Subj: MODEL INSTALLATION PROGRAM PROPOSAL

Encl: (1) MIP #87-CLNC-051-FAC, Repairs to FRP Condensate Lines
(2) MIP #87-CLNC-052-FAC, Converting Steam Operated Sump Pumps to Water

1. Enclosures (1) and (2) are forwarded for review and comment. Request recommendation for approval or disapproval be returned to this office with an excerpt from the applicable directive within ten working days from date of receipt. Recommendation for disapproval should be accompanied by a written rationale.

2. This office will forward proposals recommended for approval directly to the Commanding General for decision. Proposals recommended for disapproval will be reviewed by the Model Installation Steering Committee prior to forwarding to the Commanding General.

3. It is recommended that any other Marine Corps Base department that may be affected by the approval or disapproval of the enclosed proposals be contacted during your review.

4. BOSMAD POC is D. Martin, 5521/1577.

H. F. Smith

H. F. SMITH

MODEL INSTALLATION PROGRAM

PROPOSAL

MARINE CORPS BASE
CAMP LEJEUNE

INSTRUCTIONS:
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DO NOT WRITE IN THIS SPACE

DATE RECEIVED: 11 Feb 87

PROPOSAL NUMBER: 87-CLNC-051-FAC

TITLE OR SUBJECT OF PROPOSAL: Repairs to FRP Condensate Lines

NAME, TITLE, GRADE/RANK, UNIT OF SUBMITTER(S): Morris L. Humphrey
Pipefitter Foreman WS 10 Utilities Base Maint.

PHONE: 3099

CURRENT PROCEDURE: Turn off and drain down all liquid from the line to be repaired. Use lathe to cut and trim line. Use FRP cement adhesive install electric blanket for approximately 3 hours to cook and set up. Protective equipment needed ① air supplied respirators ② Tyvex suit ③ Rubber gloves. This process altogether average approximately 2 days, for 2 men.

PROPOSED PROCEDURE (If a directive/order must be waived to implement proposal-Identify the specific reference.)
To repair FRP pipe with NR 835 underwater repair putty. This process is completed in most cases in approximately 2 hours. The line does not have to be completed dry. There are no special protective equipment necessary to accomplish work in a safe manner. Rough up the surface with a file and apply the putty and nylon mesh on the pipe. Let set for 4 hours and turn pressure back on.

BENEFITS/ADVANTAGES
① No special protective equipment needed
② man-hours reduced tremendously
③ Less equipment to purchase to make repairs

FRP pipe is a re-inforced fiberglass pipe, which has been installed base wide for condensate lines, oil lines MCAS and Domestic hot water lines.

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.

Morris L. Humphrey 2-10-87
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL
MCBCL 11800

Excellent Installations — The Foundation Of Defense

ENCL (1)

MODEL INSTALLATION PROGRAM

PROPOSAL

MARINE CORPS BASE
CAMP LEJEUNE

INSTRUCTIONS:
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DO NOT WRITE IN THIS SPACE

DATE RECEIVED: 11 Feb 87

PROPOSAL NUMBER: 87-CLNC-052-FAC

TITLE OR SUBJECT OF PROPOSAL: Converting steam operated sump pumps to water

NAME, TITLE, GRADE/RANK OF SUBMITTER(S): MORRIS L. HUMPHREY
Pipefitter Foreman WS10 Utilities Base Maint.

PHONE: 451-3099

CURRENT PROCEDURE
Steam operated sump pumps are currently being used in outside steam pits. Approximately $700.00 each. There are a large number of complete replacements, and a tremendous number of repairs yearly.

PROPOSED PROCEDURE (If a directive/order must be waived to implement proposal-Identify the specific reference.)
Install water operated sump pumps in all steam pits aboard MCB and Air Station complex, to include steam ~~steam~~ tunnel

BENEFITS/ADVANTAGES
1. Reduce the number of repairs
2. Reduce the number of replacements yrly (pumps)
3. Eliminate live steam blowing continuously because of sump pump being hung up.
4. Enable the pits and steam tunnel to be dewatered while steam is turn off.
5. Eliminate the discharge line on the sump pump to completely close up with calcium every three months.
6. Water operated pumps are more economical to purchase, low maintenance, seldom has to be replaced.

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Morris L. Humphrey 2-10-87
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL
MCBCL 11800
7. Reduce the heat inside steam pits

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ENCL (2)