11800
BOSM

FEB 10 1987

From: Assistant Chief of Staff, Base Operational Support
Management Assistance
To: Donald R. Gurganus, Base Maintenance Division
Via: (1) Assistant Chief of Staff, Facilities BWE 2/11/87
(2) Base Maintenance Officer

Subj: MODEL INSTALLATION PROGRAM PROPOSAL

Encl: (1) MIP #87-CLNC-045-FAC, Hydrostatic Testing of Unfired Pressure Vessels

1. This office is in receipt of your submission to the Model Installation Program, and has assigned it the number identified in the enclosure. The proposal is currently being staffed and processed. You will be notified as soon as a decision has been made.

2. We appreciate your participation in the Model Installation Program and ask for your continued support. Good ideas will make the Camp Lejeune community a better place to work and live.

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: 3 Feb 87

TITLE OR SUBJECT OF PROPOSAL: Hydrostatic Testing of Unfired Pressure Vessels

PROPOSAL NUMBER: 87-CLNC-045-FAC

NAME, TITLE, GRADE/RANK, UNIT OF SUBMITTER(S): Donald R. Gurganus, Transportation General Foreman, WS-13, Heavy Equipment Unit

PHONE: 451-5909

CURRENT PROCEDURE

Unfired Pressure Vessels, Air Compressors, are inspected on Marine Corps Base and New River Air Station in accordance with NAVFAC MO-324. They also have been and are hydrostatic tested at regular frequencies. The majority of this equipment has a working pressure from 15-250 psi.

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

Request a waiver of NAVFAC MO-324 and abide by regulations as set forth in OSHA Safety and Health Standards, 29 CFR 1910, General Industry, Revised 11 March 1983, section 1910.169.

BENEFITS/ADVANTAGES

Benefits and advantages would not require the internal nor the hydrostatic test. There are a minimum of 104 Air Receivers located on Marine Corps Base and New River Air Station. Significant amount of time is required to disassemble the plumbing, fill with water and to test these Air Receivers internally and hydrostatically. After the test has been conducted the plumbing has to be reconnected for use. This procedure in the past has required the assistance of the Tester/Inspector, Plumber, and an Electrician. While this test is in progress the using unit is unable to use the equipment until the test has been completed.

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.

Donald R. Gurganus 2-2-87
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL
MCBCL 11800

ENCL (1)

Excellent Installations — The Foundation Of Defense

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

DEPARTMENT OF THE NAVY

Memorandum

11800
MAIN

DATE: 04 MAR 1987

FROM: Thomas Lanier, P&E Section

TO: Director, Operations Branch

SUBJ: MIP #87-CLNC-045-FAC, HYDROSTATIC TESTING OF UNFIRED PRESSURE VESSELS

1. The Model Installation Proposal No. 87-CLNC-045-FAC covering hydrostatic testing of Unfired Pressure Vessels is addresed in the following paragraphs.

a. Unfired Pressure Vessels are potentially dangerous vessels and the procedures for inspection come under NAVFAC MO-324, December 1984, updated June 1986. Exception to these requirements will not be made without the formal concurrence of the NAVFACENGCOM Boiler Inspection Certification Board as per NAVFAC MO-324 Page 1-1.

b. The majority of air receivers have small openings (usually 1 1/2" pipe size or less) for internal inspection. Trying to determine the amount of corrosion and pitting inside the tank is poor at best. I beleive that a hydrostatic test every few years is the best way to safely say a tank is good for a specific working pressure. Most of the Unfired Pressure Vessels on Marine Corps Base Camp Lejeune and New River Air station operate at a pressure between 100-175 PSI. I recommend that the testing procedure for Unfired Pressure Vessels not be changed.

c. Being the Inspector of boilers and Unfired Pressure Vessels, I feel better about issuing a certificate to operate the unit if I have the option to hydrostatically test at my discretion.

T. L. Lanier

T. L. LANIER

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

Ref: (a) AC/S BOSMAD memo 11800 BOSM dtd 10 Feb 87

Encl: (1) MIP #87-CLNC-045-FAC, Hydrostatic Testing of Unfired Pressure Vessels
(2) MIP #87-CLNC-046-FAC, Reducing Water Pressure in Family Housing

1. Please review the enclosed MIP proposals in accordance with established procedures and reference (a). Response is requested by 6 March 1987.

K. J. Kiriacopoulos

K. J. KIRIACOPOULOS
By direction

11800
BOSM

FEB 10 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-045-FAC, Hydrostatic Testing of Unfired Pressure Vessels
(2) MIP #87-CLNC-046-FAC, Reducing Water Pressure in Family Housing

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

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DATE RECEIVED: 3 Feb 87

TITLE OR SUBJECT OF PROPOSAL: Hydrostatic Testing of Unfired Pressure Vessels

PROPOSAL NUMBER: 87-CLNC-045-FAC

NAME, TITLE, GRADE/RANK, UNIT OF SUBMITTER(S): Donald R. Gurganus, Transportation General Foreman, WS-13, Heavy Equipment Unit

PHONE: 451-5909

CURRENT PROCEDURE

Unfired Pressure Vessels, Air Compressors, are inspected on Marine Corps Base and New River Air Station in accordance with NAVFAC MO-324. They also have been and are hydrostatic tested at regular frequencies. The majority of this equipment has a working pressure from 15-250 psi.

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

Request a waiver of NAVFAC MO-324 and abide by regulations as set forth in OSHA Safety and Health Standards, 29 CFR 1910, General Industry, Revised 11 March 1983, section 1910.169.

BENEFITS/ADVANTAGES

Benefits and advantages would not require the internal nor the hydrostatic test. There are a minimum of 104 Air Receivers located on Marine Corps Base and New River Air Station. Significant amount of time is required to disassemble the plumbing, fill with water and to test these Air Receivers internally and hydrostatically. After the test has been conducted the plumbing has to be reconnected for use. This procedure in the past has required the assistance of the Tester/Inspector, Plumber, and an Electrician. While this test is in progress the using unit is unable to use the equipment until the test has been completed.

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Donald R. Gurganus 2-2-87
(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

MIP 87-CLNC-045-FAC

1. The heart of the problem is NAVFAC MO-324 that requires an internal inspection of unfired pressure vessels (UPV) not less than once every two years for any tank that has an operating pressure in excess of 15 PSI or a volume of more than five cubic feet. Many of the air compressors aboard Camp Lejeune fall into that requirement but have no openings sufficiently large enough to conduct an internal inspection. Accordingly, NAVFAC MO-325 states a hydrostatic pressure test (fill up with water and pressurize at 1.5 times the maximum working pressure) may be substituted for internal inspection. Hence, we are required to hydrostatically test these unfired pressure vessels because of no means to inspect internally. We concur with the MIP that this is an unnecessary frequency and unnecessary work.

2. It is suggested that the MIP be forwarded to NAVFACENGCOM via our Engineering Field Division (LANTDIV) for review to determine the following:

a. Are there satisfactory techniques for conducting internal inspections on UPV's that have very limited internal access?

b. Can the minimum thresholds (five cubic feet & 15 PSI) for UPV inspection requirements be adjusted upward?

c. Can UPV's in non-utility type applications be completely exempt from inspections? This would typically be shop type air compressors.

3. We feel the MIP has merit, but requires relief from existing Department of Navy directives, specifically NAVFAC MO-324. It is recommended relief be pursued.

C. G. POWELL

Blind copy to:
Dir, Ops
T. Lanier, P&E
D. Gurganus, M&R
MIP Files
Writer: C. Powell, MAIN, X2511
Typist: S. Schmitz, 09 Mar 87

11 MAR 1987

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

Ref: (a) AC/S BOSMAD memo 11800 BOSM dtd 10 Feb 87

Encl: (1) MIP #87-CLNC-045-FAC, Hydrostatic Testing of Unfired Pressure Vessels
(2) MIP #87-CLNC-046-FAC, Reducing Water Pressure in Family Housing

1. Please review the enclosed MIP proposals in accordance with established procedures and reference (a). Response is requested by 6 March 1987.

K. J. KIRIACOPOULOS
By direction

11800
BOSM

FEB 10 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-045-FAC, Hydrostatic Testing of Unfired Pressure Vessels
(2) MIP #87-CLNC-046-FAC, Reducing Water Pressure in Family Housing

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H F Smith

H. F. SMITH

MODEL INSTALLATION PROGRAM

PROPOSAL

MARINE CORPS BASE
CAMP LEJEUNE

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DATE RECEIVED: 3 Feb 87

TITLE OR SUBJECT OF PROPOSAL: Hydrostatic Testing of Unfired Pressure Vessels

PROPOSAL NUMBER: 87-CLNC-045-FAC

NAME, TITLE, GRADE/RANK, UNIT OF SUBMITTER(S): Donald R. Gurganus, Transportation General Foreman, WS-13, Heavy Equipment Unit

PHONE: 451-5909

CURRENT PROCEDURE

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Donald R. Gurganus 2-2-87
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL
MCBCL 11800

Excellent Installations — The Foundation Of Defense

ENCL (1)

22 OCT 1987

11800
MAIN

Deputy Base Maintenance Officer

Assistant Chief of Staff, Facilities

MIP PROPOSAL 87-CLNC-045-FAC, HYDROSTATIC TESTING OF UNFIRED PRESSURE VESSELS

Ref: (a) Your memo 11800 FAC of 15 Oct 87

Encl: (1) BMO memo 11800 MAIN of 11 Mar 87

1. The reference requested review and comments on the subject MIP. This MIP has already undergone review and comments were forwarded by memo on 11 March of this year. A copy of that memo is provided as the enclosure.

C. G. POWELL

WRITER: C. G. POWELL, X2511
TYPIST: C. KOWALSKI, 21 OCT 87

Beneficial Suggestion No. 40-87 - Install Intercom on Lower Deck, Bldg. 1700

EVALUATION GUIDE FOR SAFETY IMPROVEMENTS

	EVALUATION POINTS			SCORE
1. LIKELIHOOD OF ACCIDENT BEFORE IMPROVEMENT WAS INSTALLED:				
(a) Exposure frequency	0 Slight	3 Appreciable	6 X Considerable 9	7
(b) No. employees exposed	0 Less than 5	3 5 to 25	6 X Over 25 9	7
(c) Possibility of accident	0 Unlikely	3 Probable	6 X Very likely 9	7
2. EXTENT OF APPLICATION:	0	9	18 27	
(a) Number of locations or area covered	One or two machines, tools, or operations in one shop or office X	A group of machines, tools, or operations in a shop or office	General application throughout a large activity	2
3. DEGREE OF HAZARD:	0	9	18 27	
(a) Extent of possible injury and/or damage to property	Minor defects or lack of safeguards that may cause non-disabling injury and/or slight damage to property	X Major defects or lack of safeguards that may cause disabling injuries and/or heavy damage to property	Extreme defects or lack of safeguards that may cause a permanent injury or fatality and/or extensive damage to property	10
4. EFFECTIVENESS OF IMPROVEMENT:	0	9	18 27	
(a) To what extent will the improvement reduce the possibility of an accident?	Minimizes the hazard slightly	X Appreciably limits the hazard or the effects of the hazard	Eliminates the hazard, or possibility of disabling injury, or damage to property	10
			TOTAL SCORE	43

Encl (1)

11 MAR 1987

11800
MAIN

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Assistant Chief of Staff, Facilities, Marine Corps Base

MIP 87-CLNC-045-FAC

1. The heart of the problem is NAVFAC MO-324 that requires an internal inspection of unfired pressure vessels (UPV) not less than once every two years for any tank that has an operating pressure in excess of 15 PSI or a volume of more than five cubic feet. Many of the air compressors aboard Camp Lejeune fall into that requirement but have no openings sufficiently large enough to conduct an internal inspection. Accordingly, NAVFAC MO-325 states a hydrostatic pressure test (fill up with water and pressurize at 1.5 times the maximum working pressure) may be substituted for internal inspection. Hence, we are required to hydrostatically test these unfired pressure vessels because of no means to inspect internally. We concur with the MIP that this is an unnecessary frequency and unnecessary work.

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C. G. POWELL

Blind copy to:
Dir, Ops
T. Lanier, P&E
D. Gurganus, M&R
MIP Files

Encl (1)

Writer: C. Powell, MAIN, X2511
Typist: S. Schmitz, 09 Mar 87

ROUTING SLIP

16 OCT 1987

	ACTION	INFO	INITIAL
BMO		✓	
DBMO		✓	CP 10/18
DIR, ADMIN			
DIR, OPS			
DIR, M&R			
DIR, UTIL			
SECRETARY			

COMMENTS:

Carol
Haven't we replied already? CP 10/18

Suspense
30 OCT

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

DEPARTMENT OF THE NAVY

Memorandum

11800
FAC

DATE: OCT 15 1987

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

TO: Base Maintenance Officer

SUBJ: MIP PROPOSAL NO. 87-CLNC-045-FAC, HYDROSTATIC TESTING OF UNFIRED PRESSURE VESSELS

Encl: (1) Subject Proposal

1. The enclosure is forwarded for review and comment. Comments will include a recommendation for approval or disapproval. Recommendations for disapproval must be accompanied by written rationale.

2. Please return comments to this office NLT 30 October 1987.

K. J. Kiriacopoulos

K. J. KIRIACOPOULOS
By direction

☆U.S. GOVERNMENT PRINTING OFFICE: 1986-605-009:35418

MODEL INSTALLATION PROGRAM

PROPOSAL

MARINE CORPS BASE
CAMP LEJEUNE

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Donald R. Gurganus 2-2-87
(SIGNATURE AND DATE)

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MODEL INSTALLATION PROPOSAL
MCCL 11800

Excellent Installations — The Foundation Of Defense

T5000
87-045

11 MAR 1987

11800
MAIN

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Assistant Chief of Staff, Facilities, Marine Corps Base

MIP 87-CLNC-045-FAC

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