

NAVFAC INSTRUCTION 11450.1A

From: Commander, Naval Facilities Engineering Command

Subj: ACQUISITION AND MANAGEMENT OF WEIGHT HANDLING
EQUIPMENT

- Ref:
- (a) OPNAVINST 5450.218, Mission, Functions, and Tasks of Commander, Naval Facilities Engineering Command
 - (b) OPNAVNOTE 4780, Change of Service Craft Program Management Responsibilities
 - (c) OPNAVINST 4780.6, Procedures for Administering Service Craft and Boats in the U. S. Navy
 - (d) NAVFACINST 11014.53, Centers of Expertise
 - (e) NAVFAC P-307, Management of Weight Handling Equipment
 - (f) NAVFACINST 11200.33, Weight Handling Equipment Audits, Validations, and Third Party Certifications; Procedures for Conducting
 - (g) NAVFAC P-300, Management of Transportation Equipment

1. Purpose. To establish authority and assign responsibility for the acquisition and management of Weight Handling Equipment (WHE) under the technical cognizance of the Naval Facilities Engineering Command (NAVFAC).

2. Cancellation. NAVFAC Instruction 11450.1 of 24 June 1983 is canceled.

3. Applicability. This instruction applies to WHE assigned to the naval shore establishment with limited application to the Naval Construction Forces (NCF) and Special Operating Units (SOU). Excluded from this instruction are Prepositioned War Reserve Material Stock (PWRMS), Material Handling Equipment (MHE), Ground Support Equipment (GSE), bucket trucks, personnel lifts, aircraft cargo loaders, and related equipment.

4. Background. Reference (a) assigned NAVFAC overall Navy-wide management responsibility for WHE. Reference (b) specifically assigned NAVFAC life cycle management responsibility for floating cranes and related service craft. Service craft program procedures are outlined in reference (c).

5. Action

a. NAVFAC Headquarters. NAVFAC's overall responsibilities include, but are not limited to, acquisition program management, technical engineering support, maintenance management and oversight, equipment/systems certification, modernization, and assisting in inventory management and requirements determination. NAVFAC will provide staffing, resources, and funding (overhead) for all mission-related program tasks. All tasks identified in this instruction are considered mission-related unless specified as cost reimbursable.

b. Navy Crane Center (NCC) at Northern Division, Naval Facilities Engineering Command, is responsible for the procurement of all new WHE, except as stated herein, and the development of Navy policy for acquisition, operation, maintenance, inspection, and testing of all WHE in the naval shore establishment. NCC is also responsible for development of policy and requirements for the training and qualification of operators, crane riggers, crane engineers, inspectors, test directors, and maintenance personnel. NCC shall be responsible for the products and services described below:

(1) NCC is a Mandatory Center of Expertise (MCE) for specialized crane procurement as outlined in reference (d). NCC shall, on a cost reimbursable basis plus SIOH as appropriate, procure WHE involved in the following applications:

- (a) Requiring a rated capacity of 20,000 pounds or greater.
- (b) Handling hot metals, fissionable materials, or ordnance.
- (c) Special purpose service (SPS) portal, bridge, gantry, jib, and related cranes as defined in NAVSEA Publication 0989-030-7000.
- (d) "Hazardous area application" as defined in the National Electric Code.
- (e) Precision handling operations requiring complex or synchronized lifting capability.
- (f) Requested by foreign countries under the Military Assistance Program when specifically authorized.

(g) Requested by other DOD agencies when specifically authorized.

Notes: (1) Exceptions include civil engineer support equipment (CESE) mobile cranes procured through NAVFAC Transportation Equipment Management Centers (TEMC's) and the Civil Engineer Support Office (CESO), series "12" warehouse cranes procured by NAVSUPSYSCOM, and aviation support cranes procured by NAVAIRSYSCOM. (2) With the exception of SPS cranes, Engineering Field Divisions (EFD's)/Engineering Field Activities (EFA's) and shore activities may request one time authority from NCC to procure cranes incidental to facility construction/alteration/repair. Adequate justification must be provided. NCC will review the justification, discuss the requirement and responsibilities with the requestor, and, upon approval, issue a delegation letter to the activity.

(2) In collaboration with NAVSEASYSYSCOM, review and validate the technical requirements for all SPS mobile cranes. Ensure SPS standards are fully addressed in the mobile crane procurement request. Upon delivery of the mobile crane to the using activity, conduct an acceptance inspection with the using agency to ensure all requirements have been met. This work will be done on a cost reimbursable basis.

(3) Review and approve/disapprove Crane Alteration requests in accordance with reference (e), review alterations for applicability to other cranes, issue mandatory and standing crane alterations, verify that locally approved alterations were properly authorized, track completion of mandatory alterations, maintain crane alteration data base. Coordinate with NAVSEASYSYSCOM on all crane alterations regarding conversions from GPS to SPS.

(4) Provide in-service engineering to shore activities on a cost reimbursable basis. Services include providing specialized crane engineering expertise in support of activity requirements, providing technical support regarding engineering decisions on older cranes for which the manufacturer no longer exists, performing analyses on crane components, assisting in the development of crane alterations, performing crane condition inspections, providing load test assistance, participating in claimant or activity workshops, assisting claimants/activities in the development of technical and program management procedures.

5) Provide validation of SPS cranes in accordance with reference (f) on a cost reimbursable basis.

(6) Periodically audit activity WHE programs in accordance with reference (f). Evaluate maintenance management programs, equipment condition, crane operations and rigging, safety, engineering support, and training and skills of operators, riggers, and mechanics. Issue findings and observations in a report to activities and claimants. Issue audit trend results. NCC will determine the level of effort required to perform the audits supported by mission funding. Any additional effort required to support activity or claimant special requirements will be performed on a cost reimbursable basis. In addition, NAVFAC has directed that Navy Public Works Centers (PWC's) fund audits performed at the PWC's.

(7) Provide WHE program management and technical training to shore activities, e.g., NAVFAC P-307 orientation, crane engineering analysis, crane engineering workshops, crane safety training. Establish specialized WHE training objectives and prepare training plans. Evaluate WHE training provided by the private sector for suitability and applicability to the Navy's program.

(8) Develop and maintain Navy-wide policy and design criteria for the procurement, maintenance, inspection, test, acceptance, and certification of WHE and related equipment used in weight handling operations. Publications shall include NAVFAC P-307, "Management of Weight Handling Equipment," NAVFAC Design Manual 38.01, "Weight Handling Equipment," and WHE related NAVFAC guide specifications. Maintain NAVFAC instructions regarding the acquisition and management of weight handling equipment, and for the conduct of audits, validations, and third party certifications.

(9) Certify Navy-owned floating cranes used in ship building and all Navy-owned cranes used in longshoring operations in accordance with references (e) and (f). NAVFAC P-307 is an Occupational Safety and Health Administration (OSHA) approved alternate standard for crane certification required by 29 CFR Parts 1915, 1917, 1918, and 1919. Maintain an OSHA Third Party Certification data base and status of certification for all Navy cranes in this category. These services shall be performed on a cost reimbursable basis.

(10) Provide safety related services for WHE. Maintain accident report data base for the Navy. Coordinate with the Naval Safety Center and other appropriate government agencies to obtain and analyze accident data. Investigate WHE accidents as requested, i.e., high level visibility, CNO or Claimant special interest, to determine causes. Provide quarterly and annual summary reports of mishaps to CNO (N45), NAVFACENCOM (40K) and to shore activities. Disseminate lessons learned to all Navy activities. Issue crane safety advisories and equipment deficiency notices.

NAVFACINST 11450.1A
2 January 1997

(11) Provide configuration management to naval shipyards and other shore activities on a cost reimbursable basis.

(12) Provide life cycle management for floating cranes and service craft (YD, YFP, YM, and YPD designations) in accordance with reference (b).

(13) Provide in service support to include interpreting NAVFAC P-307, participating in IG investigations, developing and maintaining maintenance trend data, and hosting Navy-wide crane conferences.

(14) Provide Navy-wide WHE management to include maintaining a master shore activity WHE inventory data base, publishing "The Crane Corner" newsletter, and representing the Navy on national associations, boards, and committees dealing with WHE safety, design, manufacture, utilization, and operations, e.g., ASME/ANSI B30 committees.

(15) Maintain core functions and expertise.

c. EFD Transportation Equipment Management Centers (TEMC's) provide administrative management of Civil Engineering Support Equipment (CESE) WHE requirements Navy-wide. Atlantic Division and Pacific Division will provide staffing and resources to operate the Atlantic and Pacific TEMC's. TEMC's shall:

(1) Validate shore activity Civil Engineering Support Equipment (CESE) mobile crane inventory objective (IO) lists in accordance with reference (g).

(2) Review CESE mobile crane data sheets for new requirements prior to forwarding to the CESO for execution of procurement action. This review shall constitute, at a minimum, verification that the requirement is valid and the CESE mobile crane data sheets accurately reflect the required operating characteristics and features.

(3) For SPS mobile cranes, ensure the activity has obtained validation of technical requirements from NCC prior to authorizing procurement.

NAVFACINST 11450.1A
22 January 1997

(4) Consolidate the requirements of assigned claimant activities to minimize the number of types and/or sizes and provide a single CESE mobile crane data sheet to CESO that reflects the consolidated requirements.

(5) Provide on-site application engineering assistance to shore activities when necessary or requested, and select the proper CESE mobile crane to perform the required function.

d. The 2nd and 3rd Naval Construction Brigades (NCB's) shall perform TEMC responsibilities for the Naval Construction Forces (NCF's), Special Operating Units (SOU's), and assigned reserve units.

e. CESO, Construction Battalion Center, Port Hueneme, is the technical expert for the procurement of mobile cranes. CESO shall:

(1) Consolidate the requirements and associated CESE mobile crane data sheets submitted by each TEMC. Further consolidate these requirements to ensure compatibility with commercially manufactured cranes.

(2) Plan, program, and budget for CESE mobile cranes procured with Other Procurement, Navy (OPN) funds.

(3) Coordinate procurement requirements of CESE mobile cranes funded with other than OPN funds.

(4) Specify the technical requirements and prepare Purchase Requests for CESE mobile cranes and forward to the appropriate contracting office. For SPS mobile cranes, ensure NCC has validated the technical requirements prior to initiating procurement action for same. Coordinate the delivery of the crane and acceptance inspection with the using activity and NCC.

f. EFD's/EFA's Acquisition Departments. EFD's/EFA's acquisition departments shall:

(1) Procure new or replacement general purpose service cranes with rated capacities of less than 20,000 pounds that are incidental to building construction projects with the exception of applications listed in paragraph 5.b.(1), or request that NCC procure cranes. This authority may be delegated to shore activities with appropriate crane engineering expertise or the ability to contract for same. Ensure that all cranes procured satisfy the testing and certification requirements of reference (e).

NAVFACINST 11450.1A
22 January 1997

(2) Forward WHE procurement requests not falling within the options of a particular NAVFAC Guide Specification to NCC for review.

(3) For cranes with applications cited in paragraph 5.b.(1), identify this equipment as a specialty item in the project concept phase and coordinate with NCC to develop an acquisition plan. Since WHE is typically a long lead procurement item, it is imperative that the crane design be authorized concurrently with the facility design.

/s/

FRED W. DEW
Captain, Civil Engineer Corps, U.S. Navy
Director of Public Works Support

NAVFACINST 11450.1A

22 January 1997

Distribution SNDL (2 copies each):

21A	FA23	FKN3
22A	FA24	FKN7
23	FA42	FKN8
24A	FA46	FKN10
24D	FA50	FKN13
24G	F136	FKP1E
26C	FB7	FKP1H
26DD	FB10	FKP1J
26E	FB13	FKP4A
26GG	FB21	FKP4E
26HHH	FB28	FKP7
26QQ	FB30	FKP8
26R	FB31	FKP16
26W	FB34	FKP23
26Z	FB44	FKQ6C
27G	FB45	FKR1A
28K1	FB48	FKR1B
39	FB54	FKR6
41A	FC3	FKR7A
42131	FC4	FR3
42132	FC5	FR4
42W	FC7	FR5
A3	FC14	FR7
C31G	FF1	FR9
C40	FF5	FR10
C80H	FF38	FR14
C84A	FF74	FT1
C84B	FH26	FT6
C84D	FH28	FT20
C84K	FKA1	FT22 (less FCTCPAC)
C84M	FKA8F (less FKA8F2 & FKA8F6)	FT27
EM	FKM8	FT28
FA3	FKM9	FT37
FA6	FKM1 1	FT78
FA7	FKM14	FT85
FA10	FKM32	FT104
FA13	FKN1	
FA18	FKN2	

Additional Copies (Stock number 0525-LD-010-0190)
DOD by MILSTRIP requisition to RIC-NFZ.

Other customers contact:
Naval Inventory Control Point
700 Robbins Avenue
Philadelphia, PA 19111-5098
DSN: 442-2626 Commercial: (215) 697-2626