

DEPARTMENT OF THE ARMY  
PORTLAND DISTRICT, CORPS OF ENGINEERS  
P.O. Box 2946  
Portland, Oregon 97208-2946

NPPEN  
Regulation  
No. 1110-2-5

20 May 1985

Engineering and Design  
OPERATIONAL PROJECTS AND FACILITIES

1. PURPOSE. This regulation establishes policies and procedures for engineering and design for maintenance, repair, rehabilitation, and modernization of all operational projects and facilities in Portland District except engineering related repairs and modifications of floating plant and maintenance dredging.

2. APPLICABILITY. This regulation applies to all elements of the Portland District.

3. REFERENCES.

a. Required Publications.

(1) NPDR 1110-2-3 (Engineering and Design, Operational Projects and Facilities). Cited in paragraph 4b.

(2) PDR 10-1-3 (Statements of Functions). Cited in paragraph 4b.

b. Related Publications.

(1) NPDR 1110-234-1 (Monthly Schedule of Construction Planning)

(2) ER 415-1-11 (Biddability, Constructibility and Operability).

4. RESPONSIBILITIES.

a. The District Commander is responsible for engineering and design for maintenance, repair, rehabilitation, and modernization at all operational projects and facilities within the District. The District Commander will discharge his engineering and design responsibilities through appropriate District staff and others in accordance with procedures outlined herein.

b. Chief, Operations Division, is responsible for assuring that proper engineering and design is accomplished for maintenance, repair, rehabilitation, and modernization of all operational items within his control as identified in Appendix A. (Note: This regulation does not include "Maintenance Engineering" which is a function of Operations Division as defined by NPDR 1110-2-3 and PDR 10-1-3, Appendix N, Paragraphs 5 and 6).

c. Chief, Engineering Division, is responsible for all engineering and design consistent with above-referenced regulations for all maintenance, repair, rehabilitation, and modernization of Portland District projects. Chief, Engineering Division, will appoint a Design Coordinator for engineering/design work accomplished by Hydroelectric Design Center to oversee and coordinate responsibilities of HDC and others outside the District and insure that the work is scheduled and funded. The design coordinator will work with Operations Division to assure maximum communication and coordination.

d. NPD reporting in compliance with NPDR 1110-234-1 will be the responsibility of Chief, Engineering Division, with support by other District elements as required.

5. GENERAL.

a. It is the policy of the District Commander to require the highest order of engineering and technique in performance of work under his supervision. Pursuant to this policy and referenced regulation, all engineering and design for maintenance, repair, rehabilitation, and modernization at all operating projects in the District will be prepared utilizing the complete engineering capabilities of Portland District and appropriate technical offices of North Pacific Division, Waterways Experiment Station (WES), Construction Engineer Research Laboratory (CERL), and other sources of expertise.

b. At the beginning of each fiscal year a list of O&M design requirements anticipated within the definition, as indicated in Paragraph 1. PURPOSE, will be prepared by Chief, Operations Division. This list will be reviewed by Chief, Engineering Division, and approved by both Division Chiefs for scope/schedule and engineering and design responsibilities. The list will then be kept current and updated throughout the year by the Chief, Operations Division and coordinated with the Chief, Engineering Division.

c. Chief, Engineering Division, will designate an action officer(s) to compile budgets and schedules for work by Engineering Division for the list of projects in subparagraph 5a., above, and obtain Chief, Operations Division, approval of the required funding of the O&M program. This will be done initially at the beginning of each fiscal year and updated periodically during the year.

d. Projects within the definition of this regulation are summarized on Appendix A attached hereto.

e. Action items pertaining to engineering and design resulting from quarterly meetings between Chief, Operations Division; Chief, Engineering Division; and Chief, Hydroelectric Design Center, will be provided to appropriate staff elements for information and guidance.

f. Chief, Engineering Division, is responsible for completing review actions as follows:

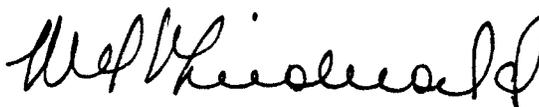
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(1) Plans and specifications for biddability, constructibility, and operability reviewed by District elements with Chief, Construction Division, and Operations Division sign off as required by ER 415-1-11 and reference 3a(1).

(2) Technical reports and plans and specifications reviewed and approved by NPD in accordance with referenced regulation.

g. At end of each fiscal year, a summary report of problems encountered and suggestions for future improvements will be prepared jointly by Chiefs, Operations and Engineering Divisions, and furnished to District Commander and other staff elements.



R. L. FRIEDENWALD  
Colonel, Corps of Engineers  
Commanding

Appendix A

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APPENDIX A  
 SUPPLEMENTAL INFORMATION  
 MAINTENANCE, REPAIR, REHABILITATION, MODERNIZATION  
 OF OPERATING PROJECTS

A-1. Categories of Work

- a. Replacement with identical equipment/item.
- b. Replacement with off-the-shelf equipment/item performing same function but different item.
- c. Requirement for equipment/item - minor change with same function.
- d. Requirement for equipment/item - major change with same function.
- e. Requirement for equipment/item - different function.

A-2. Equipment/Items NOT Within the Purview of this Regulation (PDR 1110-2-5)

- a. All category items A-1a and A-1b, and most A-1c items.
- b. Typical category I.C. equipment/items exempted from intent of this regulation are:

(1) Off-the-shelf replacement equipment/items where sole source (exact replacement) is designated.

(2) Off-the-shelf equipment/items where standard industry specifications are used in procurement and no special design to conform to COE criteria is required.

A-3. Category A-1d, A-1e and Non-exempted A-1c Contract Types

<u>Types</u>	<u>Value</u>	<u>Responsible Org.</u>
Purchase Orders	Under \$25 <sup>k</sup>	Operations or Engineering Div
Construction Contracts	Under \$25 <sup>k</sup>	Operations or Engineering Div
	Over \$25 <sup>k</sup>	Engineering Div Only
Supply Contracts	Under \$25 <sup>k</sup>	Operations or Engineering Div
	Over \$25 <sup>k</sup>	Engineering Div only
Service Contracts	Any Value	Operations or Engineering Div

Notes:

1. All procurement actions over \$10<sup>k</sup> are to be synopsisized and advertised in the Commerce Business Daily (CBD) 20 calendar days prior to issuance of bid invitation.
2. Responsible organization must insure that the appropriate district office for contract supervision and administration is notified and properly involved prior to award of contracts (i.e., special emphasis is needed on purchase actions under \$25<sup>k</sup>).

A-4. Special Procedures Involving Contract Actions

a. Operations Division will designate Points of Contact (POCs)<sup>1/</sup> for all procurement actions within their responsibility as follows:

- (1) Natural Resource Projects - Visitors Facilities, Fish, Wildlife, Landscaping, Other
- (2) Operating Projects - Equipment, Services, Supplies, Testing, Construction
- (3) Navigation and Natural Emergencies - Channel, Harbor, Coastal Maintenance, and Flood and Natural Emergencies

b. Engineering Division will designate a POC<sup>1/</sup> for all procurement actions within their responsibility (POC to be in Estimates and Specifications Section for actions over \$25<sup>k</sup>).

c. One-level-higher review (than originating office) is required on all technical provisions in contracts. The review can be in Operations or Engineering Division consistent with guidance herein and prudent judgment by Division Chiefs.

<sup>1/</sup> Note: The POC will schedule, assure adequate technical reviews and has responsibility for engineering input within intent of this regulation, and shall forward complete package to Procurement & Supply Division for contract action.

A-5. Other than Contracts

Engineering Division will be actively involved and responsible for all engineering and design directly related to tests (other than ongoing repetitive maintenance tests), research and development work as follows:

a. Engineering Division will be consulted on all equipment testing which is for the purpose of developing base information to evaluate function of equipment and/or for design or redesign.

b. Engineering Division will prepare or be responsible for all technical letter reports within the purview of NPDR 1110-2-3.

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A-6. Where it is unclear that Engineering should be involved, in Category Items IB and IC above or any items involving maintenance, repair, rehabilitation or modernization of operating projects, Operations Division shall coordinate with Engineering Division for agreement on level of need for involvement. Where there is a disagreement on involvement, the decision of District Commander shall be final.