

Facilities CPC Related Policy and Guidance Summary

<http://wbdg.org/resources/cpcsource.php>

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Facilities acquisition management and associated actions are shaped by the nature of an installation's mission, which includes the requirements placed upon it by weapon systems, operational demands, ongoing sustainment, modernization and maintenance programs, and the policies that dictate management, budget constraints, and Congressional Guidance.

Figure 1 shows the relationship between the various policies and guidance within the Department of Defense (DoD). The laws and executive orders guide the DoD and military departments. DoD translates legislative and executive direction into guidance and policy that enables compliance with the law.

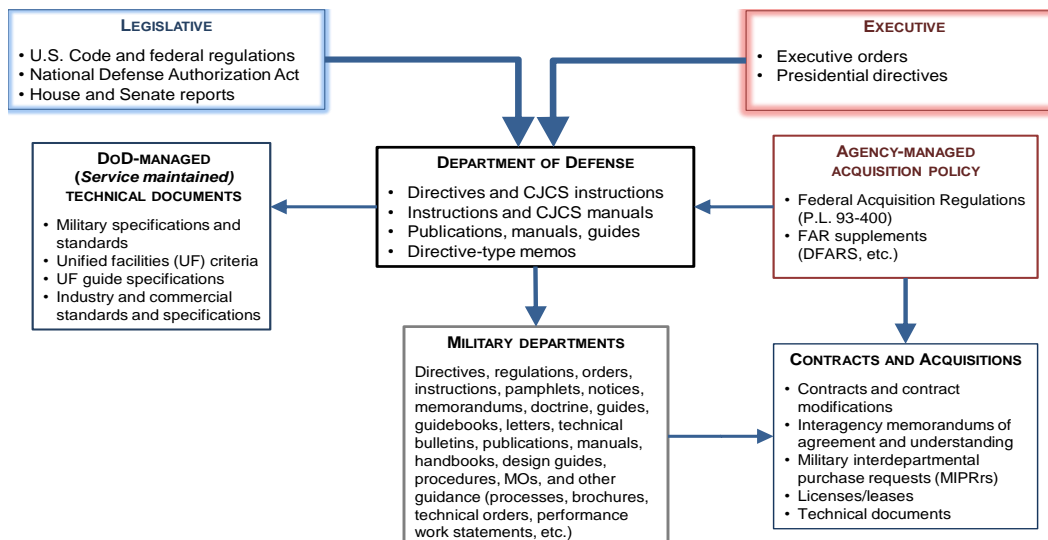


Figure 1. DoD Policy Hierarchy Relationships

The DoD has in-place extensive policy and guidance as illustrated in Table 1 to facilitate effective management of the many and complex areas required to provide for the National Defense. Decisions made in facilities affect the readiness and availability of equipment and operations. In order for the weapon system to effectively be supported, facilities must be in synch with the requirement. For example, support facilities must be sized to the requirement (e.g. ship, aircraft, ground equipment) that they support and they must be available and functioning when needed. Corrosion shortfalls affect facilities readiness and the long-term ability of the facility to support the mission.

Included in Table 1 are policies and guidance that establish the overarching requirement that ultimately serves as the basis for which corrosion prevention and control (CPC) is required and achieved. The CPC function is an essential part of the facilities program in support of the readiness mission for the Department. For CPC to be effectively accomplished, overarching policy and guidance must be in place in the form of Acquisition Regulations, Department of Defense Directives (DoDD), Department of Defense Instructions (DoDI), DoD Manuals, Memos, and Criteria addressing essential areas such as Military Construction, sustainment, restoration and modernization (SRM) and maintenance programs. Weapons and facilities acquisition systems must be well-executed to provide for a seamless delivery system that meet requirements.

For additional information see:

- Chapter 2 of the *Facilities and Infrastructure Corrosion Evaluation Study (FICE) Study* (http://www.wbdg.org/FFC/DOD/FICE_Study.pdf)
- The *CPC Source Acquisition Issues* Page (<http://www.wbdg.org/ffc/dod/cpc-source/acquisition-issues>)
- The *CPC Source Criteria* Page (<http://www.wbdg.org/ffc/dod/cpc-source/criteria>).

Table 1 Facilities CPC Policy and Guidance Summary

Policy, Guidance, or Regulation	Title	Relevance	Applicability
Department of Defense			
JCIDS Manual (February 12, 2015 & errata dated December 18, 2015)	<i>Manual for the Operation of the Joint Capabilities Integration and Development System</i>	Provides guidelines and procedures for operation of the JCIDS along with interactions with several other departmental processes to facilitate the timely and cost effective development of capability solutions for the warfighter.	Manual defines facilities in the context of DOTmLPF-P as Real property consisting of one or more of the following: buildings, structures, utility systems, associated roads and other pavements, and underlying land. Key facilities are defined as command installations and industrial facilities of primary importance to the support of military operations or military production programs.
DODD 5000.01 (20 November 2007)	<i>The Defense Acquisition System</i>	Establishes framework, responsibilities, and requirement for the Defense Acquisition Management	Program acquisition guidance; requires the use of the Federal Acquisition System; corrosion must be considered during trade-off decisions. <i>Note that other specific Sections of the FAR address facilities acquisition.</i>
DODI 5000.02 (January 7, 2015; Ch. 3, August 10, 2017)	<i>Operation of the Defense Acquisition System</i>	Provides guidance for the operation of the Defense Acquisition Management & specifically program acquisition category (ACAT) Programs and, delineates specific corrosion related requirements.	Encl. 3 – Systems Engineering: para 15. CORROSION PREVENTION AND CONTROL. Calls for the PM to identify and evaluate corrosion considerations throughout the acquisition and sustainment phases that reduce, control, or mitigate corrosion in sustainment and to perform CPC planning and include CC management and design considerations for CPC in the SEP and LCSP. Encl. 6 – Life Cycle Sustainment: 2.a (9) Calls for CPC planning in systems engineering life cycle sustainment as required in DODI 5000.67.

Policy, Guidance, or Regulation	Title	Relevance	Applicability
DODI 5000.67 (1 February 2010)	<i>Prevention and Mitigation of Corrosion on Military Equipment and Infrastructure</i>	Establishes OSD CPC policy for military equipment and infrastructure and provides implementation guidance for 10 USC Sect. 2228.	Provides guidance for CPC in facilities and infrastructure program management.
DODD 4270.5 (12 February 2005)	<i>Military Construction</i>	Establishes policies, authorities, and responsibilities for the military construction (MILCON) program.	Assigns responsibilities for the execution of the MILCON Program as delineated in 10 USC 169. Requires the use of criteria to the greatest extent possible for planning, design, and construction of facilities. Applies to MILCON and Sustainment, Restoration and Modernization (SRM) programs. Identifies MIL-STD-3007B procedures for UFC and UFGS. <i>Note that this DODD is undergoing revision and update.</i>
MIL-STD-3007F December 13, 2006	<i>Standard Practice for Unified Facilities Criteria and Unified Facilities Guide Specifications</i>	Establishes procedures for the development and maintenance of UFC & UFGS to be used for the planning, design, construction, O&M, sustainment, restoration, & modernization of DoD facilities.	UFC and UFGS provide facility planning, design, construction, operations, and maintenance criteria for DoD components and participating organizations. UFC and UFGS apply to all construction, repair, and maintenance projects.
DUSD (I&E) Memo (2005)	<i>Facility Corrosion Prevention and Control</i>	Directs that current CPC measures and technologies be incorporated into facilities acquisition and maintenance.	Initiated review of facilities CPC program and military departments directed to review for CPC inclusion.

Policy, Guidance, or Regulation	Title	Relevance	Applicability
D, CPO Guidebook, Spiral 4, (February 4, 2014)	<i>Corrosion Prevention and Control Planning Guidebook</i>	Provides guidance for CPC planning.	Provides detailed insights into CPC for facilities as it relates to ACAT Program Support. CPC guidance for facilities can be found on the WBDG.org CPC Source (http://www.wbdg.org/ffc/dod/cpc-source) and in appropriate UFCs and UFGSs.
Whole Building Design Guide (WBDG.ORG)	UFC, UFGS, Codes, Standards, Guidance, References	See CPC Source Criteria Webpage (WBDG.org & https://www.wbdg.org/resources/cpcsourcecriteria.php)	Provides a broad range of in depth criteria, standards, best practices, and material requirements for CPC-related facilities and infrastructure procurement, SRM & construction.
Department of the Army			
AR 700-127 (October 11, 2016)	<i>Logistics: Integrated Product Support (IPS)</i>	Policy establishes requirement for ILS in support of Army materiel implementing DODD 5000.01, DODI 5000.02 and DODI 5000.67.	Directs that the Life Cycle Sustainment Plan (LCSP) be aligned with CPC; directs that LCSP will evaluate CPC; includes facilities as an IPS element & facilities considerations validation for ACAT program; directs design for corrosion resistance. Requires ACSIM to participate in IPS.
AR 750-59 (March 19, 2014)	<i>Maintenance of Supplies and Equipment: Corrosion Prevention and Control Program for Army Material</i>	Policy defines all areas where corrosion prevention and control should be considered throughout the life cycle.	Addresses CPC in the context of facilities. Defers coverage for facilities CPC to ACSIM and AR 420-1 (see below)

Policy, Guidance, or Regulation	Title	Relevance	Applicability
AR 420-1 (August 24, 2012)	<i>Facilities Engineering: Army Facilities Management</i>	Addresses the management of Army facilities, including public works, housing, facilities operations and management, master planning, utilities, and energy management, as well as fire and emergency services. Includes CPC management and policy guidance.	Establishes Army corrosion control policy for facilities (Sec IV, para 2-32); requires Corrosion Prevention and Control Advisory Teams (CPAT) & Contractor Corrosion Teams (CCTs) for projects > \$5M, but CPC measures must be considered for all construction, repair, and maintenance projects regardless of cost or funding source. IMCOM responsible for implementing Army CPC Policy; requires CPC technical support info & guidance to field; maintain Army corrosion control guidance; prepare & revise tri-service corrosion prevention technical pubs; each region & garrison must have a trained corrosion manager (para 2-33).
DA PAM 750-1 (December 4, 2013)	<i>Maintenance of Supplies and Equipment: Commander's Maintenance Handbook</i>	Discusses wide spectrum of maintenance topics required for day-to-day operations to include CPC requirements. Delineates applicability of guidance and assistance in understanding how to achieve the requirements of the Army maintenance standard.	References CPC Program & AR 750-1 and AR 750-59 & discusses evaluation of facilities in support of mission. Chapter 2-1.g: "Maintenance facilities. These structures are significant maintenance enablers and centers of production that ensure the unit meets the maintenance and readiness standards. Commanders should work closely with garrison officials to ensure the installation maintains buildings, hardstands, sheds, utilities, and waste and environmental systems."

Policy, Guidance, or Regulation	Title	Relevance	Applicability
Technical and Maintenance & Operations Manuals (Dates vary)	Addresses broad range of facilities-related design, engineering, and problem solving; including references to CPC.	Topics include waterfront facilities, preventive maintenance, child development centers, electrical (interior and exterior), systems Cx.	For a complete listing of Active documents as well as those that have been Archived please see: h(ttp://www.wbdg.org/ccb/browse_cat.php?c=100)
Public works technical bulletins (PWTBs) (Dates vary)	Addresses PW management & CPC technical issues.	Topics include utilities, environmental, range management, sewer system analysis, etc.	For a complete listing see: (http://www.wbdg.org/ccb/browse_cat.php?c=215)
Department of the Navy			
OPNAVINST 5450.348 (April 24, 2012)	<i>Mission, Functions, and Tasks of Naval Facilities Engineering Command</i>	Defines NAVFAC SYSCOM Roles & Responsibilities, including facilities & corrosion functions.	Discusses R&R for facilities, corrosion, CP, and SME access. NAVFAC provides specialized inspections in CPC related areas such as Corrosion, CP, Paints & Coatings.
NAVFAC Instruction 7040.5G (20 September 2011)	<i>Naval Facilities Engineering Command (NAVFAC) Products and Services</i>	Provides detailed descriptions by business line of types of products and services available from NAVFAC, along with the associated funding rules.	This document describes published NAVFAC's products and services. See Enclosure (1) for Corrosion and CP descriptions (in lines H12, H13, H23, and N35). The last two tabs provide work induction business rules and descriptions.
OPNAVINST 11010.20H Ch1 May 16, 2014	<i>Navy Facilities Projects</i>	Defines authorities, limitations, guidance on classification, preparation, submission, review, approval, reporting of facilities projects for MILCON and SRM.	Provides guidance for management of Navy facilities and infrastructure. Requires e-OMSI facility data system integration at the end of a project (Chapter 7 paragraph 2). Requires use of current design criteria.
Engineer Construction Bulletin 2018-03 (2008)	<i>Technical Oversight and Acceptance Testing of Critical Systems</i>	Addresses requirements for Government acceptance testing, oversight and quality assurance requirements for facilities.	Provides specific guidance where QA for facilities should be performed. Cathodic Protection is identified. Further information and guidance can be found in NAVFAC BMS processes (internal) identified in the ECB.

Policy, Guidance, or Regulation	Title	Relevance	Applicability
NAVFAC Maintenance and Operations Manuals (MO)	Multiple Topics	NAVFAC MOs describe standardized technical processes & procedures & available & followed.	Includes wood protection, petroleum facilities, waterfront facilities. (http://www.wbdg.org/ffc/navy-navfac/maintenance-operations-manuals).
NAVFAC P-Publications	Multiple Topics	NAVFAC publications (handbooks) are provided to establish official Navy Facilities topic specific guidance.	http://www.wbdg.org/ffc/navy-navfac/p-publications
<i>Marianas Navy and Marine Corps Design and Construction Standards (9/2011)</i>	<i>Marianas Navy and Marine Corps Design and Construction Standards</i>	Provides location-specific design & construction standards, including CPC ESC Zone 5 facilities risks.	Provides Guam design, engineering and construction requirements in addition to UFC/UFGSs, & other resources to requirements.

Policy, Guidance, or Regulation	Title	Relevance	Applicability
Department of the Air Force			
AFPD 32-10 (4 March 2010)	<i>Civil Engineering; Installations and Facilities</i>	For AF bases, implementing DODDs & DODIs; describes facilities SRM CoC resourcing, authorities, management, & responsibilities.	CPC is not specifically mentioned; requires life-cost considerations and investment level determinations, making assessments on assets relative to mission support which would require CPC considerations.
AFI 32-1001 (October 16, 2014)	<i>Civil Engineering: Operations Management</i>	Implements AFPD 32-10, Installations and Facilities. Provides directive requirements for the operations management of civil engineering.	Directs that a preventive maintenance program be established, executed & monitored. Establishes a civil engineer worldwide baseline set of definitions, operations process descriptions, and organizational guidance.
AFI 32-1054 (November 7, 2014)	<i>Civil Engineer: Corrosion Control</i>	Provides facilities responsibilities and general requirements for the corrosion control program at major commands & bases. Applies to personnel involved in design, construction, acquisition, operations, & maintenance of real property assets and installed equipment.	Implements AFPD 32-10, <i>Installations and Facilities and DODI 5000.67</i> . Provides responsibilities and general requirements for the corrosion control program at major commands and bases. Provides for an Air-Force-wide corrosion control evaluation process and participation for AFCEC, and Director of Civil Engineers in the (OSD) D, CPO CPC-IPT.
AFI 32-1065 (June 14, 2017)	<i>Civil Engineering: Grounding Systems</i>	Assigns maintenance responsibilities and requirements for AF electrical grounding systems at installations & implements the maintenance requirements of DoD 6055.9-STD.	Includes systems for equipment grounding, lightning protection, and static protection. Multiple references to cathodic protection & corrosion for pipelines, electrical systems where grounding is required.

Policy, Guidance, or Regulation	Title	Relevance	Applicability
Air Force Handbook 32-1290(I)/MIL-HDBK-1136/1 (February 1, 1999)	<i>Cathodic Field Testing</i>	Summarizes actions to be taken in operating and maintaining various cathodic protection systems in use at military installations.	Instruction provided on testing procedures necessary to ensure system function & maintenance actions for cathodic protection in facilities affected & aids craftsman at unit level.
Air Force Guides (May 31, 2004) 2 guides	<i>Air Force Munitions Facilities Standards Guide</i> (Vol. 1 and 2)	Addresses criteria and standards for planning and programming 21 of the most common non-nuclear munitions facilities on Air Force installations, both within the continental United States (CONUS) and at overseas locations (OCONUS).	CPC is addressed in Vol. 1 & Vol. 2 with multiple references to corrosion criteria & deterioration. AFG for facilities are part of Air Force Criteria located on WBDG.org at (http://wbdg.org/ffc/af-afcec/design-guides-standards/munitions-facilities-standards-guide-v1 and http://wbdg.org/ffc/af-afcec/design-guides-standards/munitions-facilities-standards-guide-v2).
Engineering technical letters (ETLs) (Multiple)	ETL subjects include reliability and maintainability design checklists, procedures to retard reflective cracking, preventing concrete deterioration, design criteria for prevention of mold, etc.	The ETL provides an expedient transmission method for new findings, technologies, and related facilities technical knowledge. It might reference criteria. It indicates who in the Air Force should read and follow the guidance provided.	The ETLs listed provide CPC-related guidance and discoveries to assist the field installations with their base maintenance responsibilities. AF ETLs are part of Air Force Criteria located on WBDG.org and at (http://www.wbdg.org/ffc/af-afcec/engineering-technical-letters-afetl).

Policy, Guidance, or Regulation	Title	Relevance	Applicability
AFPAM 91-23 (May 10, 1990)	<i>Facilities Engineering Maintenance and Repair of Architectural and Structural Elements of Buildings and Structures</i>	This manual provides technical guidance for the maintenance and repair of buildings and structures at military installations. The standards should assist in the economical preservation of structures and insure their continuous and efficient use.	Addresses broad range of areas of concern where corrosion impacts facilities. Combined Manual (Army, Navy, AF) with extensive discussion of corrosion issues. Air Force Pamphlets (AFPAMs) for facilities are part of Air Force Criteria located at WBDG.org (http://www.wbdg.org/ffc/af-afcec/pamphlets-afp-and-afpam).
<p>Note: ACAT = Acquisition Category; AF = Air Force; AFG = Air Force Guide; CP = Cathodic Protection; CoC = Chain of Command; Cx = Commissioning; DOTmLPF-P = (Joint) Doctrine, Organization, Training, materiel, Leadership and Education, Personnel, Facilities, and Policy; FAR = Federal Acquisition Regulations; NAVFAC = Naval Facilities Engineering Command; FEC = Facilities Engineering Command; HVAC = Heating, Ventilation, & Air Conditioning; ILS = Integrated Logistics Support; NAVFAC = Naval Facilities Engineering Command; OSD = Office of the Secretary of Defense; O&M = Operations and Maintenance; PW = Public Works; PWD = Public Works Department; SME = Subject Matter Expert; SYSCOM = Systems Command; TOC = Total Ownership Cost; UFC = Unified Facilities Criteria; UFGS = Unified Facilities Guide Specifications.</p>			