

# ENGINEERING & CONSTRUCTION Bulletin

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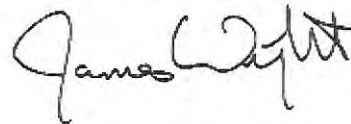
**Subject:** Capital Improvements Categories of Work Classification  
Enclosure 1: CIBL Categories of Work Classification Guidelines

1. Background. NAVFAC is focused on improving productivity and reducing production cost associated with its delivery of products and services. A key part of the effort is to eliminate redundant or unnecessary efforts associated with planning, designing, procuring, and sustaining facilities for our Clients. NAVFAC's goal is to safely and responsibly deliver the right product with the right amount of engineering and construction oversight through either in-house or contract execution at the optimum life cycle cost.
2. The following modifies the issued Enterprise Project Classification Policy dated 4 August 2004 for the Capital Improvements Business Line to re-establish a risk-based criteria process for classifying both in-house and contracted projects based on the level of NAVFAC design, engineering and construction oversight.
3. Revised Project Classification Matrix – Four Categories of Work.

Work Category	Project Management			
	Project Development	Design/Engineering Effort	Construction Oversight	Schedule and Tracking
I	Programmatic	Multi-Discipline Design	Based on BMS	eProjects
II		Tailored Design		eProjects
III	Scoping	Limited Engineering	Limited	SPM
IV		None	By exception	SPM

Enclosure 1 is attached to support this matrix. Enclosure 1 is provided as a reference only.

4. This process will be incorporated into the Business Management System (BMS).



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## **CIBL Categories of Work Classification Guidelines**

The following is provided as guidelines for classifying design, engineering and construction work. Project examples are provided for reference only. Characteristics could result in actual projects being classified differently (for example, a carpet project may not be always be classified as Category IV if circumstances dictate a higher level of design/engineering or construction oversight).

### **Category I – Multi-Discipline Design, BMS-Based CQM Oversight**

- High financial, schedule, and/or life safety risk
- Usually MCON, MILCON, BRAC, HSG, large O&M,&N
- Local, State, Federal, or National Environmental or usage permits required
- SHPO Consultation Needed
- Building and/or Site Approval Required
- Primarily Multi-discipline design requirements
- New construction or major renovation/repair/restoration
- Complex design, plans & specs, calculations, site investigation, or studies required.
- Includes installation of equipment/systems that incorporate leading-edge technology

### ***Examples of Typical Category I Work***

Air Terminals  
 Aircraft Acoustical Enclosures  
 Aircraft Engine Test Facility  
 Aircraft Hangers  
 Bridges  
 Computer Systems Facilities  
 Controlled Industrial Facilities  
 Corrosion Control Hanger  
 Detention Facilities  
 Dry-docks  
 Electronics Testing Facilities  
 Elevator Installations or Replacements  
 Energy Projects Requiring Plans & Specs, e.g., Multiple EMCS's  
 Exchanges/Commissaries  
 Fitness Centers  
 Fleet Mooring  
 Flight Simulator Facilities  
 Galleys  
 Gas Stations  
 Gymnasiums  
 High Security Facilities  
 Hobby Shops  
 Hospitals  
 Hyperbaric Facilities  
 Indoor Firing Ranges

Jet Engine Test Cells  
Magazines  
Maintenance Facilities  
Major Renovations/Additions that include Category I, II, III, and IV work  
Medical/Dental Clinics  
Multi Story Transient Lodgings  
Multi-Story Administrative Facilities  
Nuclear Handling or Support Facilities  
Offshore Structures  
Ordnance Testing and Evaluation Facilities  
Piers  
POL Facilities  
Power Plants  
RDT&E Support Facilities  
Sea Walls  
Security Engineering, Planning, Design and Construction  
Sewage Treatment Facilities  
Tanks, Elevated Water  
Tanks, Fuel  
Technology Demonstration, validation, assessment, and Transfer  
Theaters  
Towers, Communication  
Training Buildings  
Underwater Cable Facilities  
Water Treatment Facilities

**Category II – Tailored Design, BMS-Based CQM Oversight**

- Substantial financial, schedule, and/or life safety risk
- Usually large O&M,&N/Special Project, but could be MCON, MILCON, BRAC, HSG
- Local or State environmental or usage permits may be required
- Building and/or Site Approval Required
- Limited number of design disciplines
- Renovations and/or some new construction
- Design obtained through combination of Designer of Record- and Contractor-furnished documents: Routine design, plans and limited specs (supplemented by contractor-furnished shop drawings & submittals), site investigation or studies
- Includes installation, replacement or repair of equipment/systems that incorporate conventional technology

***Examples of Typical Category II Work***

Alarms, Fire Protection, new installations/replacements  
Bridges, Pedestrian  
Building structural systems, single story and/or modifications  
Building, Pre-engineered, with utilities

Conveying Systems  
Conversion of Space  
Dredging  
Electrical, Standby Generator Systems/UPS  
Energy Projects for Single EMCS System  
Erosion Control  
Exterior Electrical Distribution  
Fences, Security, ATRP  
Fire Protection System, installation/replacement  
Foundations, reinforced  
HVAC System Replacements/Upgrades, > 5 Tons  
Ocean Construction  
Plumbing, multi-story  
Ranges, small arms  
Renovations that include category II, III, and IV work  
Residential Housing  
Road Construction  
Runway/Taxiway Lighting  
Signals, Traffic  
Stairs, multi-story or not pre-engineered single story  
Storm Drainage  
Sports Fields  
Sprinklers, Fire Protection Warehouse, General Storage  
Utility Upgrades  
Waterfront Facilities, Inspection, Maintenance and Repair

### **Category III – Limited Engineering Oversight/ Limited CQM Oversight**

- Moderate financial, schedule, and/or limited/very low life safety risk
- Local environmental or usage permits required (No State or Federal)
- Building and/or Site approval not required (exceptions may elevate work to Category II)
- No plans and specs; Build from Planner and Estimator Scope of work -- supplemented by Professional Engineering staff as needed with sketches, catalog cuts and/or narrative descriptions
- Primarily minor renovation or repair
- Basic measurements and limited technical calculations required
- Includes (in kind) replacement or repair of fixtures, hardware and non-technical equipment
- Limited Engineering and construction oversight

### ***Examples of Typical Category III Work***

Alarms, Fire Protection, relocation <4  
Building, Pre-engineered, >120 sf, no utilities  
Carport, prefabricated  
Conveyors, replacement

Coolers, Water  
Demolition, non-structural  
Doors, Overhead Garage, >100 sf,  
Doors, Personnel, non-load bearing wall  
Electrical, receptacles, 120/240v  
Equipment, Food Service  
Equipment, Loading Dock  
Equipment, Security Vault  
Excavation, scoping required  
Exterior Insulation Finish System  
Fence, chain link, > 8' high, requires site approval  
Fence, ornamental, > 6' high  
Housing Construction/Revitalization, PPV  
HVAC Package Units, < 5 Tons, ground level  
Paving, Asphalt, Overlay, large repair  
Paving, Concrete, Replacement, large repair  
Plumbing, rough-in, single story, residential or administrative  
Renovation, including Category III and IV work  
Roof replacement, structural repair in-kind  
Sprinkler Heads, fire protection, relocation/replacement, <21  
Stairs, interior or exterior, single flight, pre-engineered  
Utilities, connect to existing with provider consultation  
Walls, partition, no ingress/egress issues, no utilities  
Windows, non-load bearing wall

**Category IV – No Engineering / CQM Oversight by Exception**

- Very low financial, schedule, and very low life safety risk
- No Permits required
- Build from client requirements
- Only minor renovation or repair
- No structural, electrical (primary distribution system), mechanical (HVAC), fire protection, intrusion detection, anti-terrorism force protection, environmental remediation, or hazard abatement (lead, asbestos) elements
- May include replacement or repair of fixtures, hardware, and finishes
- Client works directly with vendor/contractor
- NAVFAC Construction oversight by exception

***Examples of Typical Category IV Work***

Bollards, Protective, Not on Piers or for ATRP Purposes  
Building, Pre-engineered, <120 sf, no utilities  
Bumpers, Parking lot  
Bus Stop shelter, pre-engineered, no utilities  
Cabinets, Floor

Cabinets, Wall  
Cable TV receptacles  
Carpet, Floor  
Coolers, Water, replacement  
Countertop, Laminate  
Countertop, Solid Surface  
Disposer, Under Sink Waste  
Doors, Overhead Garage, <100 sf, replacement  
Doors, Personnel, replacement; applies to non-fire rated doors in non-fire rated walls  
Driveway, Asphalt, repair or replace  
Driveway, Concrete, repair or replace  
Enclosure, Dumpster  
Equipment, Playground  
Fans, Ceiling, replacement  
Fans, Exhaust, replacement  
Fence, Chain link, <8' high, requires site approval/fire  
Fence, Ornamental, < 6' high  
Fixtures, Lighting, replacement  
Fixtures, Plumbing, replacement  
Floor, Ceramic Tile  
Floor, Hardwood  
Floor, Vinyl  
Garage Door Electric Openers  
GFCI Electrical Receptacles  
Gutters and Downspouts  
Handicap Ramp at curbs  
Handrails/Guardrails, replacement  
Hardware, Doors  
Hardware, Windows  
Heater, Baseboard Electric, replacement  
Insulation, Duct  
Insulation, Pipe  
Insulation, Wall  
Landscape Sprinkler System  
Landscaping, <5,000 sf  
Mirrors, Wall  
Motion Detectors  
Painting, Exterior, no lead paint removal  
Painting, Interior, no lead paint removal  
Parking Bumpers, concrete, synthetic  
Parking Lot Line Striping  
Pavers, Landscaping  
Paving, Asphalt, Repair  
Paving, Concrete, Repair  
Roof, Built-Up, repairs with no structural  
Roof, Fiberglass Shingle, repair by replacement with no structural

Roof, Standing Seam Metal, repair, no structural  
Shelving, light duty  
Sidewalk, concrete  
Siding, Exterior Vinyl  
Signage, Architectural  
Site Preparation, clearing and grubbing, <1.0 ac  
Skylight, roof  
Solar Lighting  
Stairs, Wood exterior, replacement  
Ventilators, Roof, replacement  
Wainscot, interior wall  
Wall, Ceramic Tile  
Wall, Vinyl Base  
Wall, Vinyl Covering  
Windows, film tint  
Windows, replacement  
Windows, Storm