



**US Army Corps
of Engineers®**

ENGINEERING AND CONSTRUCTION BULLETIN

No. 2013-18

Issuing Office: CECW-CE

Issued: 29 Jul 2013

Expires: 29 Jul 2015

Subject: Building Information Modeling (BIM) Requirements on USACE Projects

Applicability: Directive and Information. This Engineering and Construction Bulletin (ECB) applies to every USACE Command with a mission to support design and construction of either Military or Civil Works projects, or both. The requirements of this ECB apply to design and construction that is in-house or contracted, or both. This ECB is effective when issued.

1. **Purpose.** This ECB directs the use of BIM processes and related technologies in all Military and Civil Works projects, in accordance with the requirements identified herein.

2. **References.**

a. ECB 2012-22, Subject: Standardization of CAD, BIM and GIS Deliverables for Military Design and Construction Projects.

b. USACE Roadmap for Life-Cycle Building Information Modeling (BIM Roadmap), ERDC SR-12-2. November 2012. <https://cadbim.usace.army.mil/USACEBIMRoadmap2012>

3. **Background.**

BIM is a process that supports unprecedented collaboration among all project stakeholders. A model generated from BIM processes is a digital representation of physical and functional characteristics of the design and construction project. As such, BIM enables sharing of data and information to make more reliable decisions during the life-cycle of a project from inception through decommissioning. In USACE, and within the private sector, the use of BIM can improve design and construction processes, reduce errors and omissions, provide more information-rich deliverables, and enhance overall design and construction quality.

4. **Requirements.**

a. **BIM Implementation:** BIM projects shall comply with the requirements in ECB 2012-22 (reference 2a), and incorporate the goals and objectives established in the BIM Roadmap (reference 2b) which outlines the BIM Strategic Plans and Goals for the Military and Civil Works programs.

b. **BIM Applicability:** All Army vertical construction projects, regardless of funding source, shall utilize BIM in accomplishing their design and construction. All other vertical construction projects, regardless of funding source, shall utilize BIM unless directed by the customer with a

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valid justification. All Civil Works horizontal construction projects shall use BIM or related Civil Information Modeling (CIM) tools (such as Civil 3D, InRoads, or other appropriate civil design tools) in accomplishing design and construction.

5. Points of contact for this bulletin are Mr. Jason Fairchild, HQUSACE, 601-456-0769 or Mr. Edward Huell, Tri-Service CAD/BIM Technology Center, 601-634-4485.

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