

National BIM Standard - U.S., Version 4

BIM Execution Plan Template

National Institute of Building Sciences



INTRODUCTION

The **NBIMS BIM Execution Plan (BEP) Template** may be used to create project-specific BEPs adhering to the U.S. National BIM Standard. The content may be used to make an organization's BEP template or to review content from online commercially available BEP applications. A BEP has become a recognized contract deliverable. The BEP process and this documentation will help all project members achieve an efficient and effective BIM process for project delivery.

UPDATES to the BEP Process

The NBIMS BEP is aligned to ISO 19650 and US project delivery. Various groups develop the BEP information. The **Owner** provides information on BIM projects in the Request for Proposal (RFP) phase. Owners providing this information in an RFP will better understand a team's capability to perform on a BIM project.

Proposers respond with a **Proposal BEP**, and the selected **Project Team** develops the **Project BEP**. The **Project BEP** is updated as new team members begin work on the project. It is used throughout a project to review BIM performance.

Template Sections

Cover Page (Cover)	BIM Uses (Uses)
Project & BEP Summary (Summary)	Technological Infrastructure Needs (Software) (Info Sharing)
Reference Information (Ref Info)	Quality Management (Quality) (QM Strat)
BIM Contacts	IM Risk Register (Risk Reg)
Organizational Roles & Responsibilities (Roles)	Model Federation and Standards (Federation Strat)
Project Phases & Milestones (Schedule)	Information Exchanges (IE)
Project Goals (Goals)	
Team Collaboration (Collab)	

References

National BIM Standard - United States	https://www.nationalbimstandard.org
NBIMS-US BIM Use Definitions	
NBIMS-US BIM Execution Plan Standard	
BIMForum LOD Specification	https://bimforum.org/resource
Construction Specification Institute (CSI)	https://www.csiresources.org

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INSERT BEP COVER PAGE IMAGE HERE

BEP & PROJECT SUMMARY

Instructions: Include a a BEP Executive Summary explaining the process of how this document will be developed. It is a strategic summary of how the team will maximize BIM technology and information to meet the project goals and responsibilities of a project. Include a Project Summary of the project.

BEP Executive Summary

Project Description

BEP & PROJECT REFERENCE INFORMATION

Instructions: Provide project, contract, and BEP information that will be used in this BEP.

Project Reference Information

Project Name					
Project Owner Name					
Project Legal Address	City		State		Zip
Facility Type Classification					
Facility Type Name					
Project Delivery Method					
Project Information Req. Title					
Project Information Req. Location					
Owner Modeling Guide Title					
Owner Modeling Guide Location					
BEP Development Standard					
BEP Path					
BEP Data Format					
Acknowledgements					
Team Selection Procedure					
BIM Contracting Procedure					

BEP Version Log

Version Number	Date	Description	Creator Org.	Creator Contact	Approval Org.	Approval Contact	Approval Status

Add rows as needed.

Project Identification Table

Project Identification Description	Project Identification Value

Add rows as needed.

Project Certifications Information

Certification Information	Certification Value

Add rows as needed.

Project Metrics Value

Project Metric Name	Project Metric Value	Project Metric Unit

Add rows as needed.

BIM CONTACTS

Instructions: Organizations and persons with roles and responsibilities for project BIM activities should be documented in the BEP. Additional rows may be added as needed.

Project Organizations

Organization Name	Abbr.	Phone Number	Office Location	Org. Role

Add rows as needed.

Contacts

Org. Abbr.	Name	Contact Role	Email Address	Phone Number	Primary Location

Add rows as needed.

ORGANIZATIONAL ROLES & RESPONSIBILITIES

Instructions: Provide a clear description of the various BIM related roles on a project along with their responsibilities. Identify if they are required by contract, and provide a brief abbreviated code in the contacts table.

BIM Roles & Responsibilities				
Contact Role	Role Description	Role Responsibility	Req. Contract	Role Code

PROJECT PHASES & MILESTONES

Instructions: Define the various phases of the project, e.g., planning, design, construction, along with discrete milestones. A phase should have a start and finish date, while a milestone is on a specific date and resides within a phase.

Project Phases					
Phase Name	Phase Description	Est. Start Date	Est. Completion Date	Actual Start Date	Actual Completion Date

Add rows as needed.

Project Milestones				
Milestone Name	Milestone Description	Est. Date	Actual Date	Phase

Add rows as needed.

PROJECT GOALS						
Instructions: Identify project goals that would add value to the project and how it can relate to BIM Uses. These should be documented as part of the BEP process. Once collected, the goals and BIM Uses are prioritized and the final list of requirements is documented in the BEP.						
Project Goals						
Goal Description	Priority	Potential BIM Uses	Customer	Responsible Party	Constraints	Phase

Add rows as needed.

TEAM COLLABORATION

Instructions: Teams must act collaboratively. Document the collaboration activities to be performed, including meetings, modeling coordination, and information-sharing schedules. Standards for data and other details are provided in other template tables.

Collaboration Strategy Description

Collaboration Activities

Activity Type	Resp. Party	Phase	Frequency	Participants	Location

Add rows as needed.

Instructions: Enter each potential BIM Use considered for the project along with the appropriate attribute. Reference the BIM Use Definition section of NBIMS-US to identify potential BIM Uses. Evaluate the value of the use for the project, competency levels, and experience for each use. Document the current decision to proceed or not proceed with the BIM use.

BIM Uses

[illegible]

Add rows as needed.

BIM USE PROCESS

Instructions: Include a path to the the Level 1 BIM Use process map showing the interaction of all BIM Uses. Include a list of the Level 2 BIM Uses and links to the Level 2 process maps for each BIM Use.

Level 1 BIM Use Process Map Path

Level 2 BIM Use Case Process Maps

[illegible]

TECHNOLOGICAL INFRASTRUCTURE NEEDS

Instructions: Provide required software and hardware to be used on the project. Include how it can relate to BIM Uses. The software documentation includes what software, versions, who uses the tool, how it is used in the BIM or project process, and additional information to manage the software during the project lifecycle. Include a table of the types of hardware that will be used for Building Information Management.

Software Table

[illegible]

Add rows as needed.

Hardware Table

[illegible]

Add rows as needed.

TECHNOLOGICAL INFRASTRUCTURE NEEDS

Instructions: Provide the methods of access to internet on the project. Include how and where the model can be accessed.

Internet Access			
Location Description	Access Method	Speed	Security Requirements

Add rows as needed.

Shared Model Development Resources				
Resource Name	Version	Owner	Description	BIM Use

Add rows as needed.

Information Sharing Platforms					
Platform Name	Version	Owner	Manager	Capability Breadth	Compliance w. CDE Req.

Add rows as needed.

QUALITY MANAGEMENT

Instructions: Provide a description of the overall strategy that will be used to manage quality of the model and derivative information. Include quality control activities that will be used on the project. Required tasks are defined in the BEP tables. Additional information should be documented in the QM strategy statement.

Quality Management Strategy

Quality Control Activity

Activity Type	Contract Req.	Description	Resp. Party	Software	Frequency	Location	Reference Doc.

QUALITY MANAGEMENT

Instructions: Provide information regarding the model data accuracy and how the software will be tested for compatibility.

Model Data Accuracy			
Discipline	Existing Conditions Data Source	Survey Data Type	Level of Accuracy

Add rows as needed.

Software Compatibility Testing			
Export Software Application	Import Software Application	Test Date	Notes

Add rows as needed.

INFORMATION MANAGEMENT (IM) RISK REGISTER

Instruction: Add all risk items associated with information management tasks. These risk register entries should also be placed within the overall project risk register.

Risk Register

Risk Title	Description	Probability	Consequence	Mitigation Methods	Category	Status	Resp. Party

Add rows as needed.

MODEL FEDERATION STANDARDS

Instructions: Multiple models (by discipline and use) are shared and integrated during the project. Provide the strategy and methods used for sharing models and data.

Model Federation Description

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Naming Conventions

Convention Type	Naming Convention Title Req.	Naming Convention Version	Description	Location of Naming Conv. Details

Add rows as needed.

Reference Coordinate System	
UTM Zone	
Horizontal Units of Measurement	
Vertical Units of Measurements	
Horizontal Datum	
Vertical Datum	
Project Origin Longitude	
Project Origin Latitude	
Project Origin Elevation	
Project Grid Offset from True N	
Reference Grid	
Reference Survey	

Building Information Management Standards

Standard Name	Standard Version	Standard Purpose

Add rows as needed.

INFORMATION EXCHANGES

Instructions: Information Exchanges document the technical information, the how, and when for sharing models and data during a project. This works with the model element tables showing the individual elements "what" is to be exchanged.

Information Exchange

[illegible]

Add rows as needed.

