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CONSTRUCTION PHASE COMMISSIONING PROCESS

ONLINE PROFESSIONAL COURSES LED BY THE
WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

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MODULE
9

Summary and Resources

KRISHNAJI PAWAR - CEO & FOUNDER

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CONSTRUCTION PHASE COMMISSIONING PROCESS OVERVIEW

Significant work has been completed by the commissioning team during the predesign and design phases of a major construction project. The success of the construction phase depends heavily on adherence to the commissioning process's disciplines, with standard activities continuing with a greater emphasis on particulars.

Learning Objectives

- Introduction and Construction Phase Overview
- Construction Phase CxA Objectives
- Construction Phase CxA Team
- Pre-construction Commissioning Conference
- Conference & Kickoff Meeting
- Site Observation
- Commissioning Progress Meetings
- Testing Contractor
- Commissioning Schedule
- Update CxA Plan , Schedule & Review Submittals
- Commissioning Test Procedures
- Construction Phase CxA Activities
- Resolution Tracking Forms (RTF's)



SUMMARY

- During the construction phase, the preceding work will be realized for its value.
- As with the preceding phases, the success of the construction phase is highly dependent on adherence to the commissioning process's disciplines.
- During the construction period, there are a number of activities that are fairly standard, and they will continue as usual, albeit with a greater emphasis on many of the details.
- in addition to compliance with the process reconstruction commissioning conference.
- The construction phase is the third of the four phases of the building systems commissioning process identified by us.
- The Commissioning Plan (Cx Plan), which was updated by the Commissioning Provider (CxP) during the Design Phase, is implemented during the Construction Phase.
- Consistent interaction between the CxP and the construction team and frequent communication between the CxP and the design team are critical to a successful construction phase.

Learning Objectives

- System Verification Checklists (SVC's)
- TAB HVAC Systems:
- Building Automation System (BAS):
- Lighting Controls:
- Emergency Power Systems:
- Developing Functional Performance Tests (FPT's)
- Training
- Performing Tests
- Integrated Systems Testing
- Operational Sustainability Reporting
- Commissioning Test Procedures

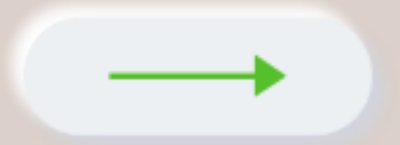
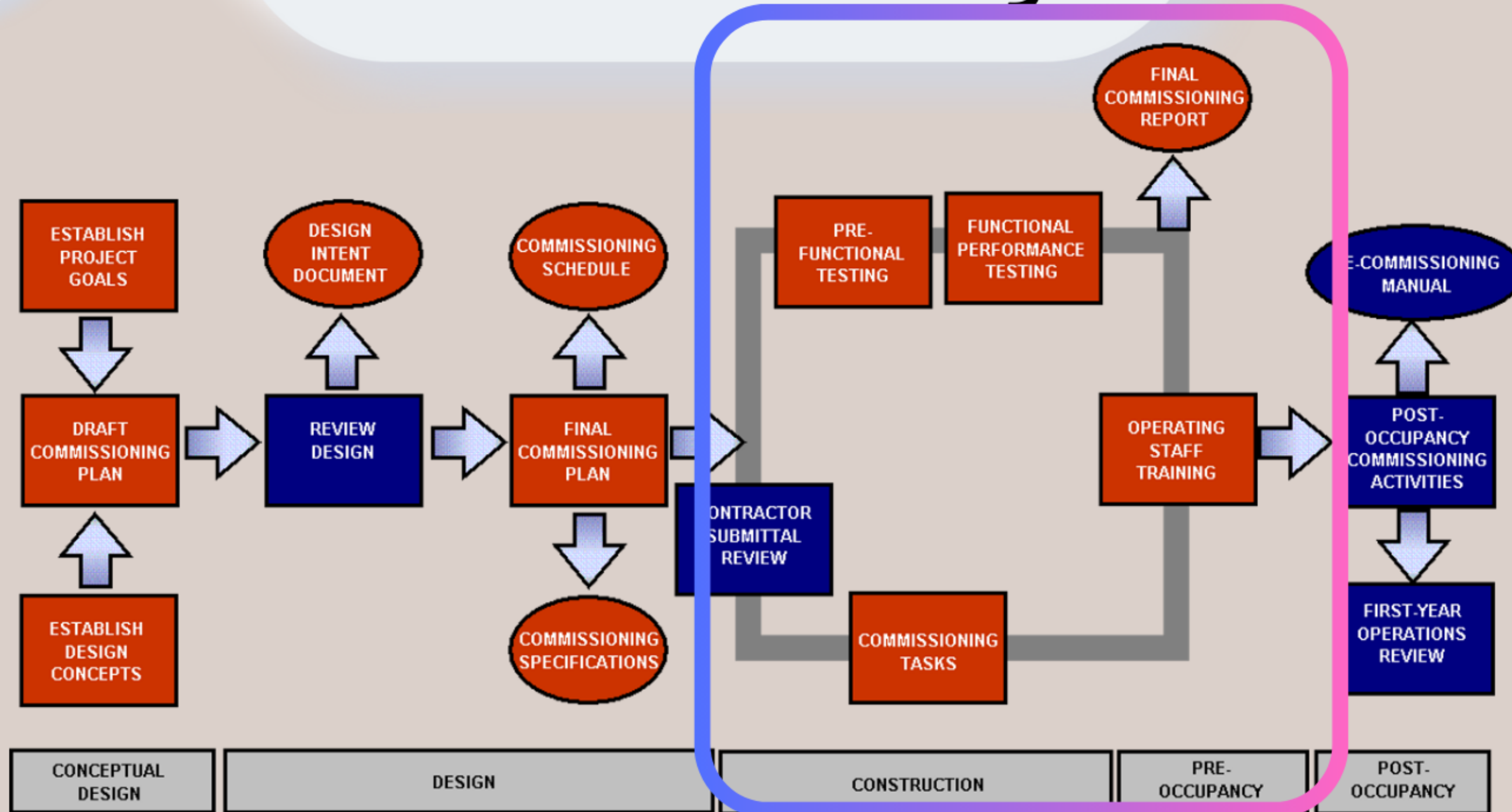


SUMMARY +

- The CxP leads the larger Commissioning Team (Cx Team) to complete commissioning activities correctly and efficiently as scheduled, and the smaller Commissioning Provider Group (CxP Group) to assist and prepare commissioning deliverables.
- During construction, the CxP updates the commissioning plan, assists with revising the owner's project requirements (OPR) or current facility requirements (CFR), reviews construction submittals for compliance, distributes checklists for contractors to complete, observes building equipment and system installations, and develops and manages various tests.
- After equipment and system start-up, including installation and acceptance tests and testing, adjusting, and balancing (TAB), the CxP coordinates and schedules FPT and IST with the Cx Team.
- The Issues and Resolution Log and Systems Manual, started during design, are maintained by the CxP during construction.
- Verifying building system compliance with the OPR or CFR is a top CxP priority during construction.
- The CxP and CxP Group draft many deliverables during this phase.
- Daily reports, occasional commissioning progress reports, and the preliminary commissioning report that forms the basis for the final commissioning report are CxP deliverables.



Phases of Commissioning



RESOURCES

- PECO: Portland Energy Conservation, Inc. What can commissioning do for your building? Portland, Oregon: PacifiCorp, no date.
- Piette, M., and B. Nordman "Energy and Cost Savings from Commissioning Efficiency Measures in 16 Buildings." Proceedings of the Third National Conference on Building Commissioning Milwaukee,
- Trueman, Commissioning: An Owner's Approach for Effective Operations." American Society of Heating, Refrigeration, and Air Conditioning Engineers Transactions, vol. 95, part 1, Atlanta, Georgia, 1989
- ASHRAE Standard 202-2018: Commissioning Process for Buildings and Systems
ASHRAE Guideline 0.2-2015:
- Commissioning Process for Existing Building Systems and Assemblies
- ASHRAE Guideline 1.2-2019: Technical Requirements for the Commissioning Process for Existing HVAC&R Systems
- and Assemblies
- ASHRAE/BCxA Commissioning Stakeholders Guide (including QBS section





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Beyond Smart Cities is the world's 1st Green Technology Marketplace, connecting millions of Sustainability Specialists, Green Building Specialists, Energy Specialists, Commissioning Specialists, Environment Specialists, Health & Safety Specialists, Fire Safety Specialists, Climate Change Specialists & Green Products/Technology Manufacturers with independent talent around the globe.

Our mission is to build and support a global community of experts with the highest professional standards in sustainability, green building, energy, commissioning, environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and GHG emissions management.



BRIEF ABOUT ME

Krishnaji PAWAR

CEO & FOUNDER

Krishnaji Pawar is founder and CEO of Beyond Smart Cities. Before being named CEO in January 2020, Krishnaji held leadership roles at Beyond Smart Cities in both Sustainability ,Energy & Environmental Consultancy.

Specialized in developing sustainable design strategies for Green Building Certification Systems (LEED, GSAS, etc.), Energy & Water Conservation, Commissioning, Environmental Impact Assessment & Environmental Management Systems.

Currently responsible for 3,787 million square feet Green Building /Energy modeling Consulting since January 2008 in UAE, India and Qatar.





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