TOOLS TO MANAGE THE COMMISSIONING PROCESS

Demonstration

-Glossary tools

-Standard Model Commissioning Plan (SMCxP)

Mireille JANDON

■ Organisation and dissemination of the Annex 40 Work
  • www.commissioning-hvac.org
  • www.commissionnement.org

■ Outline and demonstration of the:
  • Glossary tools
  • Standart Model Commissioning Plan
Objective and specifications:

- Customization of the Annex 40 glossary on Commissioning
- Link between the glossary and the technical papers and tools developed within the Annex
- Easy to update
- Easy to share, on line tool
- Multi-lingual (translation by several countries)
Customization of the glossary

Welcome to Annex 40 Glossary of terms

The development of a common vocabulary is necessary to reach a common understanding on commissioning. A glossary of terms has been developed, it concentrates on terms necessary for commissioning.

This includes:

- commissioning types;
- stages of a project;
- documents to be prepared;
- players involved;
- ...

The tool enables a direct access from any of the annex documents to the glossary. Clicking on a linked word directly access its definition. Access to the glossary will also be possible from documents produced outside of the Annex.

The data base enables multi-lingual operation. Each annex participating country have the opportunity to produce a glossary version in other languages.
Alphabetical search

Commissioning (Cx)

French: Commissioning

Commissioning is a process that clarifies Owner's Project Requirements (OPR) from viewpoints of environment, energy and facility usage, and auditing and verifying different judgments, actions and documentation in the Commissioning Process (CxP) in order to realize a performance of building system requested in the OPR through the life of the building.

See also
Owner's Project Requirements, Commissioning Process, Commissioning Authority, Commissioning Plan.

ENEA/AGE n° 97-0001RP - 6

Multi lingual data base

Commissioning (Cx)

Clarifying Owner Project Requirements, reviewing and testing energy and facility usage, and ensuring that all documentation is in the correct language. Commissioning improves building performance by ensuring that systems are designed, installed, functionally tested, and capable of being operated and maintained to perform in conformity with the design intent. This guideline, commissioning begins with planning and includes design, construction, start-up, acceptance and training, and can be applied throughout the life of the building.
Explanation on the Cx process
Glossary administration
Subtask D1: A Process for Developing Model-Based Functional Tests at the Component Level

Philip Haves  
Lawrence Berkeley National Laboratory, USA  
March 29, 2003

Summary

Model-based commissioning procedures use mathematical models of components and systems to link design, commissioning and operation. Within this context, Subtask D1 will focus on the development of automated functional test procedures for HVAC components. The key elements of an automated tool are:

- A set of suitable models  
- A set of test sequences  
- Supporting software to implement the test sequences and analyze the results using the models

Work in Subtask D1 will focus on identifying and refining suitable models and defining the test sequences required to verify acceptable performance and detect and diagnose selected faults. The definition of the test sequences will require interaction
The Standard Model Commissioning Plan is a list of tasks adapted to different type of projects from small to large buildings.
The first step to get a Commissioning Plan is to describe the project:

- **Type of building**
  A typology has been defined from T1 to T5
- **Type of Cx**
  3 main types of Commissioning have been defined
- **Risk Level**
SMCxP Approach

The tool helps the user to describe his project, the result will be a list of tasks adapted to this description:

- Type of building
- Type of Cx
- Risk Level
Project Phases

To commission a building and its HVAC system a series of activities have to be performed. These activities are sorted out following the different phases of a construction project.
This structure is clearly step and action oriented
Example: Process tools for T3

- Design tools:
Demonstrations
Thanks for your attention

Questions ???