



ASHRAE Guideline 0-2005 & Total Building Commissioning

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For More Information

- Would you like to know more about this session?
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Topics for this Presentation

- What is ASHRAE Guideline 0-2005?
- Where did it come from?
- What are its goals?
- What is its structure?
- How does it relate to other commissioning documents?



More Topics

- Implementation
- What is the future for Guideline 0?
- Where can I get more information?





What is Guideline 0-2005

- The full title is “The Commissioning Process.”
 - Its purpose is: “... to describe the commissioning Process capable of verifying that a facility and its systems meet the Owner’s Project Requirements.”
- The Cx process is a quality process for delivery of buildings/systems.



Where did it come from?

- ASHREA GPC-1 convened in 2000 to revise ASHRAE Guideline 1 “The Commissioning Process for HVAC”
- NIBS stepped in.
- Five years later...



What are its objectives?

- a) Document Owner's Project Requirements (OPR).
- b) Improve the quality of deliverables
- c) Verify and document that it meets the OPR
- d) Verify that useable systems manuals are provided to the owner



Objectives cont'd

- e) Verify Training
- f) Effective construction
- g) Project meets Owner's needs
- h) Verify results using sampling
- i) Proper coordination



What is its structure?

- Two major parts
 - Body
 - Annexes



Body of the guideline

- Nine Sections.
 1. Purpose.
 2. Scope
 3. Utilization
 4. Definitions
 5. Pre-design
 6. Design
 7. Construction
 8. Occupancy and Operations
 9. References



Annexes

- Lettered A thru P
 - A. Guide for developing other Cx guidelines
 - B. Cx process flow chart
 - C. Costs and Benefits
 - D. Documentation Matrix
 - E. Cx RFQ
 - F. Roles and Responsibilities
 - G. Cx Plan



Annex's cont'd

- H. Acceptance Plan
- I. OPR Workshop
- J. OPR
- K. BOD
- L. Specifications
- M. Checklists
- N. Sampling Examples
- O. Systems manual
- P. Training Manual



How does it relate to other doc's.

- Other ASHRAE Guidelines
 - Guideline 1-2007
- NIBS Guideline 3 - Envelopes
- NFPA
- NECA



How can I use Guideline 0-2005?

- Use in conjunction with other system specific Cx guidelines
- 0 provides procedures
- Others provide system specificity, *i.e.*, HVAC, Envelope, *etc.*



Implementation

- Begin the Cx process at project inception.
 - Much more cost effective
 - Higher success rate
- Commissioning Authority (CxA) should report directly to owner
- CxA is a design team member – to advise and assist



Follow through

- For best results
 - Don't skip steps
 - Include Cx in project schedules
 - Conduct “lessons learned” for improvements





What is the future?

- ASHRAE SPGC0
 - Continuous maintenance of GL0
 - Use proposed change form from ASHRAE Website “FORM FOR COMMENTING ON A PUBLIC REVIEW DRAFT ASHRAE STANDARD, GUIDELINE OR ADDENDUM”
- Application Guide
- Additional System specific guidelines



More information??

- ASHRAE Learning Institute
- Univ. of Wisconsin – Engineering & Professional Development
- Building Commissioning Association





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