

Welcome

Commissioning Fundamentals

Presented by:

Stephen Turner

Christopher Armstrong



STEPHEN TURNER INC.
Building Better Performance



Presenting today...

Stephen Turner

President, Stephen Turner Inc.

- Rhode Island
 - Vice-Chairman of RI Green Building Advisory Council
 - RI Building Codes & Standards Committee, Chairman of RI Energy Code Subcommittee, RI Rehabilitation Code Board, RI State Energy Plan Implementation Committee
- National
 - Professional engineer registered in NY state
 - Chairman for revisions of ASHRAE Standard 55 on thermal comfort
- International
 - Chairman of ISO Technical Committee 205, Building Environment Design, publishes international standards for building performance



Presenting today...

Christopher Armstrong, Assoc. AIA, LEED AP^{BD+C}

Lead Commissioning Agent, Stephen Turner Inc.

- Rhode Island
 - AIARI representative on the Rhode Island Green Building Advisory Council
 - Private Sector representative on the RI Public Energy Partnership School Energy Working Group
 - Member of AIARI Committee on the Environment (AIARI COTE)
 - Rhode Island representative on the USGBC's Upper Northeast Regionalization Committee for LEED-NC v3.0
 - Student of building science
- National
 - Member, Boston Society of Architects Building Enclosure Council
 - Member, AIA National IgCC Task Force



What is Commissioning?

“The Commissioning Process is a quality-oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria.”

“The Commissioning Process is a quality-based method that is adopted by an Owner to achieve successful construction projects.”

ASHRAE Guideline 0-2005, The Commissioning Process



What is Commissioning is Not?

Commissioning is NOT:

- An Energy Audit
- A Peer Review
- Special Inspections
- Construction Administration
- Just a bunch of tests at the end of construction
- An additional layer of project management



When is Commissioning Required?

Green Building Standards

- Leadership in Energy & Environmental Design (LEED)
- Northeast Collaborative for High Performance Schools (NECHPS)

Green Building Standards

- ASHRAE Standard 90.1-2010
- ASHRAE Standard 189.1-2011
- EPA Energy Star

Building Codes

- International Energy Conservation Code (IECC 2012)
- International Green Construction Code (IgCC 2012)

Local Laws

- Rhode Island Green Buildings Act (RIGL §37-24-5)
- Rhode Island School Construction Regulations (RIDE 1.00)



What is the Commissioning Process?

Existing Building Commissioning



What is the Commissioning Process?

New Building Commissioning – Design Phase



INTERESTED IN LEARNING MORE?

CONTACT OUR OFFICE FOR MORE INFORMATION AT
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