



Doug McCleery PE, CEM

possesses an extensive knowledge of building science, HVAC system design and installation, building codes, quality assurance and construction best practices. The focus of Doug's career has been on the support and delivery of high performance homes and buildings.

Since joining MaGrann Associates in 1988, he has been responsible for technical direction of consulting, analysis, diagnostic, engineering design and quality assurance activities at MaGrann.

Doug is a licensed professional engineer and a Certified Energy Manager (CEM). He is a certified HERS Rater and has been certified by ACCA as an instructor for residential load calculation, duct design, and equipment selection (Manuals J, D & S) and by IGSHPA as a geothermal heat pump trainer. He oversees all internal and external quality assurance work performed by MaGrann and provides technical support to our many builder and program clients around the country.

Professional Experience

Doug is the primary Professional Engineering license holder for MaGrann Associates and principal of McCleery Engineering, licensed in New York. He has overall responsibility for oversight and compliance of all engineering and technical consulting activities. He leads new service and process development for MaGrann.

Engineering Design

- ♦ Developed and has led an engineering consulting services group at MaGrann for 24 years, which specializes in providing MEP engineering design solutions for new high performing multifamily residential and multi-use buildings and energy retrofits for existing buildings.
- ♦ Provides engineering reports and has served as an expert for legal cases in New Jersey Superior Court and County Construction Board of Appeals relating to design and installation of heating and cooling systems and energy related specifications for residential construction.
- ♦ Develops quality control field inspection and modeling programs for energy code compliance, utility residential new construction programs, and HVAC design and construction.

Code Compliance and Development

- ♦ Leads the development of MaGrann's building system commissioning standards for energy and green code and program compliance.
- ♦ Participates in numerous code and standards development processes and serves on the Codes Committee of the New Jersey Builders Association.
- ♦ Provides technical consulting to the Redevelopment Authority of the City of Philadelphia, including plan review for compliance with their Multifamily Energy Specification

and periodic review and update of their specifications.

Technical Training

- ♦ Developed and delivers quality assurance and technical training programs in support of residential new construction programs, including ENERGY STAR New Homes in New Jersey, Kentucky and Ohio.
- ♦ Regularly provides building code training to builder and architect clients, construction trades and industry organizations during code revision cycles.
- ♦ Regularly presents at national and regional technical conferences, including ACI, Atlantic Builders Conference, ICAA, Midwest Energy Conference, EEBA, Multi-Family Building Conference, RESNET Conference.

Retrofit Support

- ♦ Has provided technical and program design consulting for development of MaGrann's existing multifamily building services, including Quality Assurance for PSE&G and AFC First (Keystone HELP) existing home programs, PSE&G and PHFA existing multifamily building programs, Levittown PA retrofit scoping studies for US DOE and evaluation support for NJ Comfort Partners.

Expertise

Building codes, Engineering (MEP) design, HVAC design and installation, building systems commissioning, energy efficient and sustainable construction, utility program design, building performance and diagnostics, home energy ratings, quality assurance, technical training

Certifications

- ♦ Licensed Professional Engineer (PE) – NJ, PA, NY, DE, VA, MD
- ♦ CEM (Certified Energy Manager)
- ♦ ACCA (Air Conditioning Contractors of America) certified trainer, residential
- ♦ IGSHPA accredited ground loop trainer

Years of Experience

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Education

B.S. Mechanical Engineering; Carnegie-Mellon University, Pittsburgh, PA

Professional Affiliations

ASHRAE (American Society of Heating, Refrigerating & Air Conditioning Engineers) Member (1998-); AEE (Association of Energy Engineers) Senior Member (2010-); Northeast HERS Alliance Secretary/VP and Chair of Technical Committee (2014-2018)