DOE Zero Energy Ready Home Recommended Quality Management Provisions

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RECOMMENDED QUALITY MANAGEMENT PROVISIONS **Builder Documentation & Verification** Rater/Verifier **QM Provision** Requirements Requirements Develop and store construction documents QM #1: Project Documentation which, at a minimum, shall include all content Complete construction documents shall be qualified as required to consistently implement DOE Zero Review the construction Designed to Earn ENERGY STAR and document all **Energy Ready Home:** documentation and verify additional provisions and specifications required for DOE Zero compliance with **Designed** Specifications Energy Ready Home including Mandatory Requirements: 2012 to Earn ENERGY STAR Plans IECC envelope insulation levels, ENERGY STAR windows, including all additional Wall Sections duct work in conditioned space, requirements for hot water content for DOE Zero Details distribution, requirements for indoor fixtures. EPA Indoor Energy Ready Home. Contractor work scopes airPLUS checklist, and Renewable Energy Ready Home **ENERGY STAR Version 3 and DOE** Checklist. Zero Energy Ready Home criteria and checklists Develop and store key meeting outcomes which QM #2: Integrated Design Process at a minimum shall include: The third-party rater/verifier As early as practical in the design process, conduct a meeting shall review the Integrated a clear statement of the energy involving the HVAC, insulation, air sealing, and framing trades, performance target for the home; Design Process meeting along with the 3rd party verifier for the home. All meeting outcome documentation and implementation strategy for the key outcomes should be documented. Complying with the LEED verify it meets minimum thermal envelope, moisture for Homes Integrated Process Prerequisite meets this requirements. Where management, IAQ, HVAC, and provision. applicable, verify renewable-ready elements; compliance with LEED for specific methods for reaching these Note that the resulting thermal envelope, moisture Homes Integrated Process targets; and management, IAQ, HVAC, and renewable-ready provisions. Prerequisites. roles, and responsibilities should be integrated into project assigned party responsible for each specific measure/step. documentation and work scopes (see QM #1). QM #3: Establish a Formal Quality Management Program Builders who establish formal QM programs are more likely to Document and implement key quality achieve consistent success in meeting the DOE Challenge management tools which, at a minimum, shall Home program requirements, as well as reducing costly include: defects. Establish a formal QM program that includes at a written field procedures and minimum: checklists The third-party rater/verifier in-house inspections and field tests shall review all documented written procedures and field checklists protocols (excluding third-party quality management tools in-house inspections and field tests protocols requirements for ENERGY STAR and and verify they meet training requirements for staff and contractors. DOE Zero Energy Ready Home minimum requirements. already included in documentation -There are a number of formal quality programs that can be see QM #1) used to achieve these requirements including the National training requirements for staff and Housing Quality Program (www.nahbrc.org/quality), Quality contractors. Built (www.qualitybuilt.com), and First Time Quality Where applicable, this documentation can be (www.firsttimequality.com). These programs are based on part of documentation for a formal quality ISO 9001. program.

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