

## **Manufactured Housing Consensus Committee**

NFPA 1 Batterymarch Park Quincy, MA 02269

Phone: + 1(617) 984-7404 Fax: +1 (617) 984-7110 [www.nfpa.org](http://www.nfpa.org)

**TO:** William Matchneer, DFO

**FROM:** Robert E. Solomon

**DATE:** 12 November 2003

**SUBJECT:** Final Letter Ballot Results for MHCC Proposed Model Installation Standards

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The final letter ballot results for the MHCC Proposed Model Installation Standards has yielded the following vote:

19 Members Eligible to Vote  
19 Ballots Received and  
0 Ballots Not Returned  
0 Abstentions

### Affirmative with Comments

Preamble	(Ms. Brenton)
Chapter 1	(Ms. Brenton and Mr. Vogt)
Chapter 3	(Mr. LaMont)
Chapter 5	(Mr. LaMont)
Chapter 6	(Ms. Brenton, Messrs. Ghorbani, LaMont, Tomasbi and Walter)
Chapter 7	(Ms. Brenton and Mr. LaMont)
Chapter 7 Item # 42	(Mr. Weinert)
Chapter 8	(Ms. Brenton)
Chapter 10	(Mr. Zieman)

### Negative

Chapter 3	(Mr. Weinert)
Chapter 7 Item # 40	(Mr. Weinert)

Copies of the Affirmative with comments, Negatives and Abstention votes are enclosed.

William Matchneer  
November 12, 2003  
Page 2

The MHCC require a letter ballot or an equivalent formal recorded vote with approval of two-thirds of the *MHCC*. This letter ballot achieves the required affirmative vote to be submitted to HUD as a formal recommendation. The 2/3 vote is based on the total number of eligible votes (19) minus the unreturned votes (0) minus the abstain votes (0). Thus 2/3<sup>rds</sup> of 19 votes was necessary to move forward.

Enclosures

RES/jtm

C: Manufactured Housing Consensus Committee

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REC'D OCT 20 2003

## LETTER BALLOT PROPOSED MODEL INSTALLATION STANDARDS

Complete the ballot as indicated. If you vote affirmative with comment, negative, or if you abstain on any section, please indicate the reason(s) for doing so. Once you have reviewed the material, and completed this ballot, return to:

Jill McGovern  
NFPA  
1 Batterymarch Park  
Quincy, MA 02269  
FAX: (617) 984-7110  
EMAIL: [jmcgovern@nfpa.org](mailto:jmcgovern@nfpa.org)

The due date for receipt of this ballot is: **24 October 2003**

NAME: Susan Brenton

DATE: 10-20-03

With respect to the proposed model installation standards, record my vote as:

AFFIRMATIVE ON ALL ITEMS

AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED  
BELOW

### MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE	X		
CHAPTER 1			
CHAPTER 2			
CHAPTER 3			

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
CHAPTER 4			
CHAPTER 5			
CHAPTER 6	X		
CHAPTER 7	X		
CHAPTER 8	X		
CHAPTER 9			
CHAPTER 10			

\* Requires supporting reason

*Attached*

(Continue with separate pages if necessary.)

## Comments on Proposed Model Installation Standards (Brenton)

### PREAMBLE:

Recommendation - Grammatical: The first word of the items marked 1, 2 and 3 in the Preamble should be changed from "Serves" to "Serve"

Recommendation - Grammatical: In the items with check marks in front of them, the fifth marked item should be changed as follows:

The model establishes the concept of "authority having jurisdiction" (AHJ) for HUD's responsibility in the model installation standard. The committee is recommending this concept due to the committee's belief that HUD needs the flexibility to designate different entities to act on their behalf in carrying out their new installation program responsibilities under the MHA of 2000. Who they it designates, if anyone for different elements of the model is best defined in the installation program's administrative requirements.

### CHAPTER 1

Typing Error: Section 1.1, the new item "3" (designated as Item 3 on the Ballot Changes form" should read: (3) Where the manufacturer's approved installation Instructions exceed this standard. (Add apostrophe to manufacturers)

### CHAPTER 6

Typing Error: Item 35 in the "Ballot Changes" document refers to "Figure 6.33" – should be Figure 6.3.3

### CHAPTER 7

Typing Error: Item 40 in the "Ballot Changes" document, new Section 7.6.4: change "manufactures" to "manufacturer's"

Typing Error: Item 41 in the "Ballot Changes" document, 7.7.1.3: change "manufacturers" to "manufacturer's"

Typing Error: Item 42 in the "Ballot Changes" document, 7.7.1.4: change "manufacturers" to "manufacturer's"

### CHAPTER 8

Typing Error: Item 46 in the "Ballot Changes" document, Figure 8.7(c): change "manufacturers" to "manufacturer's" in two locations

REC'D OCT 24 2003

FINAL REVISED VOTE

10/24/2003

## LETTER BALLOT

### PROPOSED MODEL INSTALLATION STANDARDS

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The due date for receipt of this ballot is: **24 October 2003**

NAME: DANNY D. GHORBANI

DATE: 10/22/2003 AS REVISED ON 10/24/2003

With respect to the proposed model installation standards, record my vote as:



AFFIRMATIVE ON ALL ITEMS



AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

#### MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1			
CHAPTER 2			
CHAPTER 3			
CHAPTER 4			
CHAPTER 5			
CHAPTER 6	* ✓		
CHAPTER 7			
CHAPTER 8			

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
CHAPTER 9			
CHAPTER 10			

\* Requires supporting reason

\* 6.2.4.1.5 I SUGGEST THAT DURING THE FUTURE STAGES OF THE RULEMAKING PROCESS AT HUD, THE WORD "NORMALLY" BE DELETED IN THIS SECTION BECAUSE MORTAR IS MANDATORY FOR PIERS THAT ARE LESS THAN 36" IN HEIGHT.

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 FM  
 JILL

\* 6.4 AND 6.4.1 I SUGGEST THAT DURING THE FUTURE STAGES OF THE RULEMAKING PROCESS AT HUD, THE WORD "PERMANENT" IN BOTH 6.4 AND 6.4.1 AND SUBSTITUTED INSTEAD WITH THE WORD "ALTERNATIVE". THIS CHANGE WOULD ALLOW FOR OTHER FOUNDATION SUPPORT SYSTEMS TO BE USED, INSTEAD OF CONVENTIONAL GROUND ANCHORS, SO LONG AS SUCH FOUNDATION SUPPORT SYSTEMS FULLY COMPLY WITH ALL OTHER REQUIREMENTS OF BOTH 6.4.1 AND 6.4.2.

(Continue with separate pages if necessary.)

**LETTER BALLOT  
PROPOSED MODEL INSTALLATION STANDARDS**

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**REC'D OCT 21 2003**

The due date for receipt of this ballot is: **24 October 2003**

NAME: Ronald Vincent La Mont

DATE: 10/20/2003

With respect to the proposed model installation standards, record my vote as:

AFFIRMATIVE ON ALL ITEMS

AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

**MODEL INSTALLATION STANDARDS**

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1			
CHAPTER 2			
CHAPTER 3	X		
CHAPTER 4			
CHAPTER 5	X		
CHAPTER 6	X		
CHAPTER 7	X		
CHAPTER 8			
CHAPTER 9			
CHAPTER 10			

**\* Requires supporting reason**

**Item 5, Page 5, 3.2.2 Query.** Should it read “the Secretary or the (delete his) Secretaries designee.” (use the title vs. the gender).

**Page 8, 5.8.1** Revise to read “where approved by the “local” authority having jurisdiction. (this requirement determined at the local level).

**Page 11, 6.2.4.6** Revise to read “designed by a (delete qualified) registered professional engineer. (Query. how do you define qualified or should this be a “Registered Structural Engineer.”)

**Page 18, 7.5.2.3.1** Revise to read --- “Registered professional engineer or “Registered” Architect” --- (consistent with other sections of the standard.)

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REC'D OCT 23 2003

**LETTER BALLOT  
PROPOSED MODEL INSTALLATION  
STANDARDS**

Complete the ballot as indicated. If you vote affirmative with comment, negative, or if you abstain on any section, please indicate the reason(s) for doing so. Once you have reviewed the material, and completed this ballot, return to:

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The due date for receipt of this ballot is: **24 October 2003**

NAME: NADER TOMASBI

DATE: 10/21/2003

With respect to the proposed model installation standards, record my vote as:

AFFIRMATIVE ON ALL ITEMS

AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1			
CHAPTER 2			
CHAPTER 3			

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
CHAPTER 4			
CHAPTER 5			
CHAPTER 6	✓*		
CHAPTER 7			
CHAPTER 8			
CHAPTER 9			
CHAPTER 10			

\* Requires supporting reason

6.2.4.1.5 Delete "normally".  
 This creates confusion for dry saturated piers.

6.4 & 6.4.1  
 Replace the word "Permanent" with "Alternative".  
 This would allow other types of foundation without restricting the design to permanent.

(Continue with separate pages if necessary.)

**Manufactured Housing Consensus Committee**

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REC'D OCT 15 2003

**LETTER BALLOT  
PROPOSED MODEL INSTALLATION  
STANDARDS**

Complete the ballot as indicated. If you vote affirmative with comment, negative, or if you abstain on any section, please indicate the reason(s) for doing so. Once you have reviewed the material, and completed this ballot, return to:

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The due date for receipt of this ballot is: **24 October 2003**

NAME: *R. J. E. Vogt*

DATE: 10/15/03

With respect to the proposed model installation standards, record my vote as:

AFFIRMATIVE ON ALL ITEMS

AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1	<i>SEE COMMENT</i>		
CHAPTER 2			
CHAPTER 3			

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
CHAPTER 4			
CHAPTER 5			
CHAPTER 6			
CHAPTER 7			
CHAPTER 8			
CHAPTER 9			
CHAPTER 10			

\* Requires supporting reason

1.1 Scope - THESE MODEL STANDARDS SHALL COVER THE INITIAL INSTALLATION

REMOVE THE WORD INITIAL, ~~AND~~ ON A STATE THAT CHOOSES TO ADOPT THE STANDARDS ARE ALLOWED TO DETERMINE WHAT INSTALLATIONS THESE STANDARDS APPLY TO. THE WORD ~~BE~~ INITIAL ALSO IMPLIES THAT A HOME TWO YEARS OLD THAT IS RE-LOCATED DOES NOT NEED TO BE INSTALLED TO ANY STANDARD.

(Continue with separate pages if necessary.)

# LETTER BALLOT PROPOSED MODEL INSTALLATION STANDARDS

Complete the ballot as indicated. If you vote affirmative with comment, negative, or if you abstain on any section, please indicate the reason(s) for doing so. Once you have reviewed the material, and completed this ballot, return to:

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REC'D OCT 21 2003

The due date for receipt of this ballot is: 24 October 2003

NAME: FRANK WALTER *Frank Walter*

DATE: 10-21-03

With respect to the proposed model installation standards, record my vote as:

- AFFIRMATIVE ON ALL ITEMS
- AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

### MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1			
CHAPTER 2			
CHAPTER 3			
CHAPTER 4			
CHAPTER 5			
CHAPTER 6	✓		
CHAPTER 7			
CHAPTER 8			

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
CHAPTER 9			
CHAPTER 10			

\* Requires supporting reason

1. CHAPTER 6 --- Affirmative w/Comment Column

Revise section 6.2.4.1.5 to read as follows:

6.2.4.1.5 Mortar shall not normally be required.

REASON: This existing section provides only commentary to section 6.2.4.1 that deals with piers less than 36 inches in height, and has no enforceable requirements. The suggested change is to delete the word "normally". This will clearly state that mortar is not required for pier construction less than 36 in height.

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2. CHAPTER 6 -- Affirmative w/Comment Column

Revise section 6.4 to read as follows:

6.4 Permanent Alternative Foundations.

6.4.1 Designs for permanent alternative foundations (such as basements, crawl spaces, or load-bearing perimeter foundations) shall be permitted to be obtained from the home manufacturer, or designed by a registered professional engineer, and constructed in accordance with local codes.

REASON: Permanent foundations are not defined in the model installation standard being balloted. One person's definition of this term can be different from another person's definition as to what constitutes a "permanent foundation." In lieu of this term, the suggested revision puts forward the term "alternative foundation." Alternate as defined by Webster's dictionary means an opportunity for deciding between two or more courses or propositions. The current model installation standard offers only one form of home installation, i.e., ground anchors with stabilizer plates. There are many proprietary and non-proprietary systems available that can be used for HUD Code home set-ups. This is the only reference that permits the option to use other foundation support systems in lieu of the conventional ground anchors, as long as they are designed by the home manufacturer or a registered PE, and conform to local building code criteria.

Frank Walter  
10-21-03

REC'D OCT 20 2003

# LETTER BALLOT

## PROPOSED MODEL INSTALLATION STANDARDS

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The due date for receipt of this ballot is: **24 October 2003**

NAME: RICHARD KLEINERT

DATE: 10-20-03

With respect to the proposed model installation standards, record my vote as:

- AFFIRMATIVE ON ALL ITEMS
- AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

### MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1			
CHAPTER 2			
CHAPTER 3		✓	
CHAPTER 4			
CHAPTER 5			
CHAPTER 6			
CHAPTER 7	✓	✓	
CHAPTER 8			

SEE ATTACHED REASONS :



# PROPOSED MODEL INSTALLATION STANDARDS

## Richard Weinert -10/20/03

### **SUPPORTING REASONS:**

- **CHAPTER 3, ITEM #8:** NEGATIVE

New proposed definition "Stand, manufactured home" is confusing and not necessary. "Manufactured home site" definition should be revised to include the new definition, if deemed necessary.

- **CHAPTER 7, ITEM #40:** NEGATIVE

Manufactured home accessory structures are not part of the installation of a manufactured home, nor should be part of this proposed standard, except as a reference only. Accessory structures need to be under the jurisdiction of the LAHJ. I would accept proposal if the last part of sentence said "...~~and~~ or approved by the LAHJ."

- **CHAPTER 7, ITEM #42:** AFFIRMATIVE WITH COMMENT

For clarity, I suggest the following wording: *"For multi-section homes, interior and exterior walls ~~at the marriage lines shall be attached together~~ shall be attached at the marriage line in accordance with the manufacture's instructions that meet or exceed the design loads of this standard."*

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REC'D OCT 20 2003

**LETTER BALLOT  
 PROPOSED MODEL INSTALLATION  
 STANDARDS**

Complete the ballot as indicated. If you vote affirmative with comment, negative, or if you abstain on any section, please indicate the reason(s) for doing so. Once you have reviewed the material, and completed this ballot, return to:

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The due date for receipt of this ballot is: **24 October 2003**

NAME: MIKE ZIEMAN *[Signature]*  
 DATE: 10/20/03

With respect to the proposed model installation standards, record my vote as:

- AFFIRMATIVE ON ALL ITEMS
- AFFIRMATIVE ON ALL ITEMS EXCEPT AS NOTED BELOW

MODEL INSTALLATION STANDARDS

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
PREAMBLE			
CHAPTER 1			
CHAPTER 2			
CHAPTER 3			

SECTION	*AFFIRMATIVE WITH COMMENT	*NEGATIVE	*ABSTAIN
CHAPTER 4			
CHAPTER 5			
CHAPTER 6			
CHAPTER 7			
CHAPTER 8			
CHAPTER 9			
CHAPTER 10	X		

\* Requires supporting reason

By Mike Ziemann

**Comment on Affirmative Ballot on Chapter 10 of MHCC Proposed Model Installation Standards.**

In section 10.2.4.2 the test pressure of 100 psi (0.7 MPa) should be changed to 80 psi + 5 psi (552 Kpa + 35 Kpa). This change is needed to be consistent with section 9.12.1 of NFPA 501-2003 which is one of the 50+ changes to the HUD Standard which the MHCC approved for letter ballot at its August, 2003 meeting. Note: This change would also be consistent with section 10.2.1 in the proposed document.

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(Continue with separate pages if necessary.)