



ICC Evaluation Service, Inc.  
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April 30, 2009

**TO: PARTIES INTERESTED IN EVALUATION REPORTS ON SURFACE-APPLIED FIRE-RETARDANT COATINGS**

**SUBJECT: Proposed Revisions to the Acceptance Criteria for Surface-applied Fire-retardant Coatings, Subject AC363-0609-R1 (MB/MO)**

**Hearing Information:**

Tuesday, June 2, 2009  
8:00 a.m.

**DoubleTree Hotel**

808 South 20<sup>th</sup> Street  
Birmingham, Alabama 35205  
(800) 222-8733

Dear Madam or Sir:

An evaluation report applicant has proposed revisions to the subject acceptance criteria, which will be considered at the hearing noted above. AC363 is based on compliance with NFPA 703, which requires the durability of the coating to be established but does not identify the means to do so. The report applicant has proposed the following revisions to address this issue:

1. Clarify the scope of the criteria to include both conditioned and unconditioned spaces, which include attics and crawl spaces.
2. Clarify the intent of the criteria, in Section 1.2 (Scope), to note that the criteria does not cover the evaluation of the fire-retardant coatings for compliance with requirements of fire-retardant-treated wood as regulated by IBC Section 2303.2. A number of the AC363 provisions have been drawn from the proposed AC405 (proposed Acceptance Criteria for Wood Structural Panels with Factory-applied Fire-retardant Coatings), which is also on the agenda for the June 2009 Evaluation Committee meeting.
3. Add the 2009 International Codes. This requires no changes in the criteria.

Staff seeks comment on the following:

1. Staff has some concern over removing the words "interior finish" from Section 1.1. Additionally, in the first sentence of Section 1.2, it may be appropriate to add "(interior finish classification)" at the end of the first sentence. Staff's objective is to be clear as to what uses are permitted for products complying with this criteria. Products need not meet

certain flame-spread and smoke developed indices in general, but must show compliance with the interior finish classification of the code. The evaluation report must be clear as to the scope of the ICC-ES evaluation without excluding other uses that can be justified to the satisfaction of the code official. In other words, the evaluation report should not be used for specialty applications not explicitly covered by the report, but should not prohibit such use if it can be justified to the satisfaction of the code official.

2. Staff questions whether the 80 percent sustained relative humidity noted in Sections 1.2 and 5.5 should be revised downward. Although the value is taken from Section 5.3.2 of NFPA 703, the standard is not explicit as to how to determine the continued effectiveness of fire-retardant coatings. The intent of this acceptance criteria is to document that the coating is effective over time; thus, it would seem that the humidity limits in the acceptance criteria should be tied to the conditioning in the acceptance criteria. This appears to be the intent of the proposed change to Section 5.5, but perhaps the conditions could be better defined.

You are cordially invited to submit written comments on agenda items, or to attend the Evaluation Committee hearing and present verbal comments. If you wish to contribute to the hearing, please note the following:

1. Written comments that are received by the Los Angeles business/regional office by **May 19, 2009**, will be forwarded to the committee prior to the hearing, and will be posted on the ICC-ES web site shortly after the comment deadline.
2. Written comments received up to ten days before the meeting, and staff memos responding to comments, will be posted to the web site on **May 29, 2009**.
3. ICC-ES is no longer providing printed copies at the meeting of proposed acceptance criteria, staff memos or public comments. These documents will be available on a limited number of CDs at the meeting, for uploading to computers; and ICC-ES will make arrangements with the hotel business center to have hard copies available for photocopying.
4. Written comments that miss the deadline noted in item (1), above, will only be available at the meeting if you provide 35 copies, collated, stapled, and three-hole punched, either at the meeting itself or to the Los Angeles business/regional office by **May 29, 2009**.
5. If you plan to speak for more than 15 minutes, or offer a visual presentation lasting longer, you should notify ICC-ES staff as far as possible in advance. There will be a computer, projector, and screen available at the meeting for anyone wishing to make a visual presentation, and presentations in most cases will need to be in PowerPoint format. Also, ICC-ES will need to be provided with your presentation at least a half-hour before the start of the relevant meeting session (morning or afternoon) on either a CD or a flash card.
6. If you have any special needs related to a presentation, you should contact ICC-ES staff well in advance of the meeting.

7. Any visual aids for viewing at committee meetings (charts, overhead transparencies, slides, videos, electronic presentations, etc.) will be permitted only if a copy is provided to ICC-ES, before the presentation, in a medium that can be retained with other records of the meeting.
8. Any materials submitted for committee consideration are considered nonconfidential and available for public discussion, as noted in Section 2.7 of the ICC-ES Rules of Procedure for the Evaluation Committee.
9. Prior to the meeting, you should refrain from trying to communicate directly with committee members about agenda items, either verbally or in writing. Committee members reserve the right to refuse such communications.

Your cooperation with these guidelines is much appreciated, as is your interest in the deliberations of the Evaluation Committee. If you have any question, please contact the undersigned at (800) 423-6587, extension 3289, or Michael O'Reardon, Regional Manager, at extension 5685. You may also reach us by e-mail at [es@icc-es.org](mailto:es@icc-es.org).

Yours very truly,

A handwritten signature in black ink that reads "Michael Beaton". The signature is written in a cursive style with a large initial "M".

Michael Beaton, P.E.  
Senior Vice President

MB/gh

Enclosures

cc: Evaluation Committee



## ICC EVALUATION SERVICE, INC., RULES OF PROCEDURE FOR THE EVALUATION COMMITTEE

### 1.0 PURPOSE

The purpose of the Evaluation Committee is to monitor the work of ICC-ES, in issuing evaluation reports; to evaluate and approve acceptance criteria on which evaluation reports may be based; and to sponsor related changes in the applicable codes.

### 2.0 MEETINGS

**2.1** The Evaluation Committee shall schedule meetings that are open to the public in discharging its duties under Section 1, subject to Section 3.

**2.2** All scheduled meetings shall be publicly announced.

**2.3** Two-thirds ( $\frac{2}{3}$ ) of the voting Evaluation Committee members shall constitute a quorum. A majority vote of members present is required on any action.

**2.4** In the absence of the nonvoting chairman-moderator, Evaluation Committee members present shall elect an alternate chairman from the committee for that meeting. The alternate chairman shall be counted as a voting committee member for purposes of maintaining a committee quorum and to cast a tie-breaking vote of the committee.

**2.5** Minutes of the meetings shall be kept.

**2.6** An electronic audio record of meetings shall be made by ICC-ES; no other audio, video, electronic or stenographic recordings of the meetings will be permitted. Visual aids (including, but not limited to, charts, overhead transparencies, slides, videos, or presentation software) viewed at meetings shall be permitted only if the presenter provides ICC-ES before presentation with a copy of the visual aid in a medium which can be retained by ICC-ES with its record of the meeting and which can also be provided to interested parties requesting a copy. A copy of the ICC-ES recording of the meeting and such visual aids, if any, will be available to interested parties upon written request made to ICC-ES together with a payment as required by ICC-ES to cover costs of preparation and duplication of the copy. These materials will be available beginning five days after the conclusion of the meeting but will no longer be available after one year from the conclusion of the meeting.

**2.7** Parties interested in the deliberations of the committee should refrain from communicating, whether in writing or verbally, with committee members regarding agenda items. All written communications and submissions regarding agenda items should be delivered to ICC-ES. All such written communications and submissions shall be considered nonconfidential and available for discussion in open session of an Evaluation Committee meeting, and shall be delivered at least ten days before the scheduled Evaluation Committee meeting if they are to be forwarded to the committee. Materials delivered to ICC-ES at least ten

days before the scheduled meeting will be posted on the ICC-ES web site ([www.icc-es.org](http://www.icc-es.org)) prior to the meeting. After this time, parties wishing to submit materials for consideration by the Evaluation Committee must deliver a sufficient number of copies as directed by ICC-ES. Consideration of materials not received by ICC-ES at least ten days before the meeting is at the discretion of the Evaluation Committee. Following the meeting, ICC-ES will make all materials considered by the Evaluation Committee available on the web site for a maximum period of one year following the meeting. The committee reserves the right to refuse recognition of communications which do not comply with the provisions of this section.

### 3.0 CLOSED SESSIONS

Evaluation Committee meetings shall be open except that the chairman may call for a closed session to seek advice of counsel.

### 4.0 ACCEPTANCE CRITERIA

**4.1** Acceptance criteria are established by the committee to provide a basis for issuing ICC-ES evaluation reports on products and systems under codes referenced in Section 2.0 of the Rules of Procedure for Evaluation Reports. They also clarify conditions of acceptance for products and systems specifically regulated by the codes.

Acceptance criteria may involve a product, material, method of construction, or service. Consideration of any acceptance criteria must be in conjunction with a current and valid application for an ICC-ES evaluation report, an existing ICC-ES evaluation report, or as otherwise determined by the Evaluation Committee.

#### 4.2 Procedure:

**4.2.1** Proposed acceptance criteria shall be developed by the ICC-ES staff and discussed in open session with the Evaluation Committee during a scheduled meeting, except as permitted in Section 5.0 of these rules.

**4.2.2** Proposed acceptance criteria shall be available to interested parties at least 30 days before discussion at the committee meeting.

**4.2.3** The committee shall be informed of all pertinent written communications received by ICC-ES.

**4.2.4** Attendees at Evaluation Committee meetings shall have the opportunity to speak on acceptance criteria listed on the meeting agenda, to provide information to committee members.

**4.3** Approval of acceptance criteria shall be as specified in Section 2.3 of these rules.

**4.4** Actions of the Evaluation Committee may be

**ICC EVALUATION SERVICE, INC., RULES OF PROCEDURE FOR THE EVALUATION COMMITTEE**

appealed in accordance with the ICC-ES Rules of Procedure for Appeal of Acceptance Criteria or the ICC-ES Rules of Procedure for Appeals of Evaluation Committee Technical Decisions.

**5.0 COMMITTEE BALLOTING FOR ACCEPTANCE CRITERIA**

**5.1** Acceptance criteria may be issued without a public hearing following a 30-day public comment period and a majority vote for approval by the Evaluation Committee when, in the opinion of ICC-ES staff, one or more of the following conditions have been met:

1. The subject is nonstructural, does not involve life safety, and is addressed in nationally recognized standards or generally accepted industry standards.
2. The subject is a revision to an existing acceptance criteria that requires a formal action by the Evaluation Committee, and public comments raised were resolved by staff with commenters fully informed.
3. Other acceptance criteria and/or the code provide precedence for the revised criteria.

**5.2** Negative votes must be based upon one or more of the following, for the ballots to be considered valid and require resolution:

- a. *Lack of clarity:* There is insufficient explanation of the scope of the acceptance criteria or insufficient description of the intended use of the product or system; or the acceptance criteria is so unclear as to be unacceptable. (The areas where greater clarity is required must be specifically identified.)
- b. *Insufficiency:* The criteria is insufficient for proper evaluation of the product or system. (The provisions of the criteria that are in question must be specifically identified.)
- c. *The subject of the acceptance criteria is not within the scope of the applicable codes:* A report issued by ICC-ES is intended to provide a basis for approval under the codes. If the subject of the acceptance criteria is not regulated by the codes, there is no basis for issuing a report, or a criteria. (Specifics must be provided concerning the inapplicability of the code.)

d. *The subject of the acceptance criteria needs to be discussed in a public hearings.* The committee member requests additional input from other committee members, staff or industry.

**5.3** An Evaluation Committee member, in voting on an acceptance criteria, may only cast the following ballots:

- Approved
- Approved with Comments
- Negative: Do Not Proceed

**6.0 COMMITTEE COMMUNICATION**

Direct communication between committee members, and between committee members and an applicant or concerned party, with regard to the processing of a particular acceptance criteria or evaluation report shall take place only in a public hearing of the Evaluation Committee. Accordingly:

**6.1** Committee members receiving an electronic ballot should respond only to the sender (staff). Committee members who wish to discuss a particular matter with other committee members, before reaching a decision, should ballot accordingly and bring the matter to the attention of ICC-ES staff, so the issue can be placed on the agenda of a future committee meeting.

**6.2** Committee members who are contacted by an applicant or concerned party on a particular matter that will be brought to the committee will refrain from private communication and will encourage the applicant or concerned party to forward their concerns through the ICC-ES staff in writing, and/or make their concerns known by addressing the committee at a public hearing, so that their concerns can receive the attention of all committee members. ■

***Effective March 18, 2008***

## PROPOSED REVISIONS TO THE ACCEPTANCE CRITERIA FOR SURFACE-APPLIED FIRE-RETARDANT COATINGS

AC363

Proposed APRIL 2009

Previously approved February 2007

### PREFACE

Evaluation reports issued by ICC Evaluation Service, Inc. (ICC-ES), are based upon performance features of the International family of codes and other widely adopted code families, including the Uniform Codes, the BOCA National Codes, and the SBCCI Standard Codes. Section 104.11 of the International Building Code® reads as follows:

The provisions of this code are not intended to prevent the installation of any materials or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

Similar provisions are contained in the Uniform Codes, the National Codes, and the Standard Codes.

ICC-ES may consider alternate criteria, provided the report applicant submits valid data demonstrating that the alternate criteria are at least equivalent to the criteria proposed in this document, and otherwise meet the applicable performance requirements of the codes. Notwithstanding that a product, material, or type or method of construction meets the requirements of the criteria proposed in this document, or that it can be demonstrated that valid alternate criteria are equivalent to the criteria in this document and otherwise meet the applicable performance requirements of the codes, ICC-ES retains the right to refuse to issue or renew an evaluation report, if the product, material, or type or method of construction is such that either unusual care with its installation or use must be exercised for satisfactory performance, or malfunctioning is apt to cause unreasonable property damage or personal injury or sickness relative to the benefits to be achieved by the use of the product, material, or type or method of construction.

*Acceptance criteria are developed for use solely for purposes of issuing ICC-ES evaluation reports.*

# PROPOSED REVISION TO THE ACCEPTANCE CRITERIA FOR SURFACE-APPLIED FIRE-RETARDANT COATINGS

## 1 1.0 INTRODUCTION

2       **1.1 Purpose:** The purpose of this acceptance criteria is to establish requirements for  
3 field-applied, surface-applied fire-retardant coatings to be recognized in an ICC Evaluation  
4 Service, Inc. (ICC-ES), evaluation report under the 2009 International Building Code<sup>®</sup> (IBC),  
5 the 2009 International Residential Code<sup>®</sup> (IRC), the 2009 International Fire Code<sup>®</sup> (IFC), the  
6 2009 International Existing Building Code<sup>®</sup> (IEBC), the 2006 ~~International Building Code<sup>®</sup>~~  
7 (IBC) IBC, the 2006 ~~International Residential Code<sup>®</sup>~~ (IRC) IRC, the 2006 ~~International Fire~~  
8 ~~Code<sup>®</sup>~~ (IFC) IFC and the 2006 ~~International Existing Building Code<sup>®</sup>~~ (IEBC) IEBC. Bases of  
9 recognition are IBC and IRC Section 104.11, IFC Section 803.4, and IEBC Section 603.4.

10 This criteria was developed because fire-retardant coatings used to meet code interior finish  
11 requirements are not specifically addressed under the IBC and IRC. The criteria also  
12 clarifies the means to determine when maintenance or renewal is needed.

13       **1.2 Scope:** This criteria is limited to fire-retardant coatings complying with NFPA 703  
14 that are ~~field-applied~~ to the exposed surfaces of substrates in the conditioned or  
15 unconditioned interior spaces, including attics and crawl spaces, of new and existing  
16 construction to achieve ~~the~~ required flame-spread and smoke-developed indices.  
17 Application is limited to new or existing construction, the specific substrates tested, and to  
18 exposed interior conditioned and unconditioned locations with a sustained humidity of less  
19 than 80 percent. Coatings demonstrated under Section 3.2 of this criteria as not requiring  
20 maintenance or renewal may be recognized under the IBC and IRC. Coatings that require  
21 maintenance or renewal are limited to recognition under the IFC and IEBC. This criteria

22 does not cover the evaluation of the fire-retardant coatings for compliance with requirements  
23 of fire-retardant-treated wood as regulated by IBC Section 2303.2. ~~Recognition as an~~  
24 ~~alternative to fire-retardant-treated wood is outside the scope of this criteria.~~

25 **1.3 Codes and Referenced Standards:**

26 **1.3.1** ASTM E 84-04 -07, Test Methods for Surface Burning Characteristics of  
27 Building Materials, ASTM International.

28 **1.3.2** ASTM D 5516-03, Standard Test Method for Evaluating the Flexural  
29 Properties of Fire-Retardant Treated Softwood Plywood Exposed to Elevated  
30 Temperatures, ASTM International

31 **1.3.3** ASTM D 6305-02, Standard Practice for Calculating Bending Strength Design  
32 Adjustment, ASTM International.

33 **1.3.4** ASTM D 198-05, Static Tests of Lumber in Structural Sizes, ASTM  
34 International.

35 **1.3.5** ASTM D 5456-05, Evaluation of Structural Composite Lumber Products,  
36 ASTM International.

37 **1.3.6** NFPA 255-00, Standard Method of Test of Surface Burning Characteristics of  
38 Building Materials, National Fire Protection Association.

39 **1.3.7** NFPA 703-0006, Fire Retardant Impregnated Wood and Fire Retardant  
40 Coatings for Building Materials, National Fire Protection Association.

41 **1.3.8** UL 723-03, Test for Surface Burning Characteristics of Building Materials, with  
42 Revisions through May 2005, Underwriters Laboratories Inc.

43 **1.3.9** 2009 International Building Code®, International Code Council.

44 **1.3.10** 2009 International Residential

45 Code<sup>®</sup>, International Code Council.

46 **1.3.11** 2009 International Fire Code<sup>®</sup>, International Code Council.

47 **1.3.12** 2009 International Existing Building Code<sup>®</sup>, International Code Council.

48 **1.3.13** 2006 International Building Code<sup>®</sup>, International Code Council.

49 **1.3.14** 2006 International Residential Code<sup>®</sup>, International Code Council.

50 **1.3.15** 2006 International Fire Code<sup>®</sup>, International Code Council.

51 **1.3.16** 2006 International Existing Building Code<sup>®</sup>, International Code Council.

52 **1.4 Definitions:**

53 **1.4.1 Fire-retardant Coating:** As defined in NFPA 703, Section 1.2.2.

54 **1.4.2 Interior Wall and Ceiling Finish:** As defined in IBC Section 802.

55 **2.0 BASIC INFORMATION**

56 **2.1 General:** The following information shall be submitted:

57 **2.1.1 Product Description:** Complete information concerning material  
58 specifications and the manufacturing process.

59 **2.1.2 Installation Instructions:** Application details and limitations, including, but  
60 not limited to, minimum finished coating thickness and requirements for surface preparation.

61 When maintenance or renewal of the coating is needed, as determined in accordance with  
62 Section 3.2.1 of this criteria, the report holder's installation instructions shall include  
63 appropriate instructions. Installation of the coatings shall be in accordance with the  
64 manufacturer's label and instructions.

65 **2.1.3 Packaging and Identification:** A description of the method of packaging and  
66 field identification of the product. Labeling shall include the report holder's name and  
67 address, product name, date of manufacture, product shelf life, application instructions and

68 the evaluation report number.

69 **2.1.4 Field Preparation:** A description of the methods of field application.

70 **2.1.5 Field Tests:** The report holder shall identify a method to verify the presence of  
71 the fire-retardant coating after application.

72 **2.2 Testing Laboratories:** Testing laboratories shall comply with the ICC-ES  
73 Acceptance Criteria for Test Reports (AC85) and Section 4.2 of the ICC-ES Rules of  
74 Procedure for Evaluation Reports.

75 **2.3 Test Reports:** Test reports shall comply with AC85.

76 **2.4 Product Sampling:** Sampling of the fire-retardant coating for tests under this  
77 criteria shall comply with Section 3.1 of AC85.

### 78 **3.0 TEST METHODS AND PERFORMANCE REQUIREMENTS**

79 **3.1 Surface-burning Characteristics:** Reports shall be submitted of fire testing  
80 performed in accordance with ASTM E 84, UL 723 or NFPA 255. The conditions of  
81 acceptance are as set forth in IFC Section 803.1.1 and NFPA 703, Section 3.3.1. The tests  
82 shall be conducted at the minimum application rate for which recognition is sought. Test  
83 reports shall specify the coating application rate, including the wet and dry film thickness,  
84 the cure time, the method of application, and the substrate (when of wood, the species and  
85 type of wood), to which the coating is applied. The flame-spread index of Douglas fir lumber  
86 shall be assumed to be 70.

87 **3.1.1 Overcoatings:** Recognition of overcoating with paint shall be based on tests  
88 conducted using the overcoat, coating and substrate for which recognition is sought.

89 **3.2 Coating Properties:** Data shall be submitted demonstrating compliance with NFPA  
90 703.

91 **3.3 Maintenance of Properties and Durability:** Data, as described in this section, from  
92 an independent, qualified party shall be submitted to show compliance with Sections ~~3-2.4~~  
93 ~~and 3-4~~ 5.2.1 and 5.4 of NFPA 703. The data shall determine if maintenance or renewal is  
94 needed and the frequency of maintenance or renewal.

95 The durability of the substrates with an applied coating and the coating itself shall be  
96 independently evaluated to determine any detrimental effects of the maximum anticipated  
97 exposure to temperature and/or relative humidity exposure conditions within the area of the  
98 building or structure where the coated substrate is located. The evaluation shall determine  
99 the potential for degradation of the coating based on the makeup of the coating and the  
100 maximum exposure conditions. The evaluation of the applied coating over the recognized  
101 substrates shall demonstrate that the following durability requirements have been met:

102 **3.3.1 Structural Flexural Performance of Coated Substrate When Exposed to**  
103 **Elevated Temperatures and Humidity:** Tests shall demonstrate that the coating does not  
104 have any detrimental effect on the structural flexural performance of the substrate to which  
105 the coating is applied, including any effect that may be the result of temperature exposure  
106 conditions within the area of the building or structure where the coated substrate is located.

107 For applications over wood structural panels (OSB and plywood), testing for  
108 exposure to elevated temperatures is conducted in accordance with ASTM D 5516, with  
109 design values determined in accordance with ASTM D 6305. Testing shall be performed on  
110 each type of wood structural panel (OSB and plywood) with the applied fire-retardant  
111 coating for which recognition is sought.

112 For applications over dimensional and structural composite lumber substrates,  
113 testing for exposure to elevated temperatures is conducted in accordance with ASTM D 198

114 for structural lumber and ASTM D 5456 for structural composite lumber, to determine  
115 flexural values. Testing shall be performed on each type of wood or structural composite  
116 lumber with the applied fire-retardant coating for which recognition is sought.

117 **Exception:** The results of tests conducted on southern pine, Douglas fir, and either  
118 white spruce or a spruce/fir mixture are permitted to be used together as being  
119 representative of all lumber species. A spruce/fir mixture can be obtained by obtaining  
120 Canadian spruce-pine-fir and removing the lodgepole and jack pine which can be visually  
121 segregated from the remaining spruces and firs.

122 **Conditions of Acceptance:** The samples exposed to elevated temperatures shall  
123 have design values equal to or better than those of the control samples. During the testing,  
124 the applied fire-retardant coatings shall not delaminate from the substrate for more than 10  
125 percent of the surface area of the substrate. An engineering analysis shall be submitted  
126 evaluating the test data.

127 **3.3.2 Adhesion of Coating to Substrate:** Substrates with applied fire-retardant  
128 coating shall be tested in accordance with Method A of ASTM D 3359. Testing shall be  
129 conducted using fire-retardant coated substrate specimens.

130 **Conditions of Acceptance:** A classification of 3A or better shall be obtained where  
131 there may be jagged removal along incisions of up to  $\frac{1}{16}$  inch (1.6 mm) on either side of the  
132 incision.

133 **3.3.3 Degradation of Coating:** Tests shall demonstrate that the performance of  
134 the coating will not be adversely diminished when the coating is exposed to temperature  
135 and/or relative humidity exposure conditions within the area of the building or structure  
136 where the coated substrate is located.

137            **Conditions of Acceptance:** Independent qualified testing of the coating shall be  
138 performed to demonstrate the durability of the coating when exposed to elevated  
139 temperature and/or relative humidity anticipated in such attics and crawl spaces, including  
140 the maximum combination of temperature and relative humidity. The elevated temperature  
141 shall be 65°C ± 2°C (149°F ± 5°F) and the relative humidity shall be 35% ± 2%. The  
142 duration of such exposures shall be such that the maximum anticipated potential for  
143 degradation of the coating is determined based on the makeup of the coating and the  
144 maximum exposure time as established by independent authoritative field testing, research  
145 and analytical data. When the results of the testing determine that the chemical properties  
146 of the coating have been significantly altered, fire testing of samples shall be conducted to  
147 demonstrate that the fire performance of the exposed samples is equivalent to the fire  
148 performance of the unexposed samples.

#### 149 **4.0 QUALITY CONTROL**

150            **4.1** The products shall be manufactured under an approved quality control program with  
151 inspections by an inspection agency accredited by the International Accreditation Service  
152 (IAS) or as otherwise acceptable to ICC-ES.

153            **4.2** Quality documentation complying with the ICC-ES Acceptance Criteria for Quality  
154 Documentation (AC10) shall be submitted.

155            **4.3 Field Inspection and Report Requirements:** Field inspections and reporting shall  
156 include the following:

157            **4.3.1** Installation shall be by applicators approved by the report holder as being  
158 qualified to perform such installations. A list containing the names and addresses of  
159 applicators shall be maintained for projects qualified under the requirements of this report

160 and that list shall be made available to the code official for projects within their jurisdiction or  
161 ICC-ES upon request.

162 **4.3.2** An installation card or certificate provided by the report holder shall be  
163 completed by the applicator and available for review to the code official at the completion of  
164 each project.

## 165 **5.0 EVALUATION REPORT RECOGNITION**

166 **5.1** The evaluation report shall describe the field tests required in Section 2.1.5 of this  
167 criteria and shall include a condition of use that the field test will be performed by the  
168 applicator when requested by the code official.

169 **5.2** The evaluation report shall include a sample installation card or certificates as  
170 required in Section 4.3.2 of this criteria.

171 **5.3** For evaluations under the IFC and IEBC, the evaluation report shall specify if the  
172 coating is required to be maintained or renewed, the frequency of maintenance or renewal,  
173 and that the maintenance or renewal is subject to the approval of the fire official in  
174 accordance with IFC Section 803.4.

175 **5.4** The evaluation report shall specify the conditions under which the fire-retardant  
176 coating may be overcoated with paint.

177 **5.5** The evaluation report shall include a condition of use that use of the coating is  
178 limited to exposed conditioned and unconditioned interior locations having a sustained  
179 humidity of less than 80 percent. The evaluation report shall be limited to uses in interior  
180 conditioned locations unless testing and analysis are conducted to justify use in attics and  
181 crawl spaces under Section 3.3 of this criteria.

182 **5.6** The evaluation report shall specify the substrate, thickness of coating and cure time

183 for which performance has been established.

184       **5.7** Special inspection of coating applications may be required when determined to be

185 necessary by the code official in accordance with IBC Section 17041.13. ■