

July 27, 2018

### TO: IAS-ACCREDITED INSPECTION PROGRAMS FOR MANUFACTURERS OF COLD-FORMED STEEL STRUCTURAL AND NONSTRUCTURAL COMPONENTS NOT REQUIRING WELDING, INSPECTION AGENCIES AND OTHER INTERESTED PARTIES

### SUBJECT: Proposed Revisions to the Accreditation Criteria for Inspection Programs for Manufacturers of Cold-formed Steel Structural and Nonstructural Components Not Requiring Welding, Subject AC473-0918-0918-R1 (DM/SM)

# Hearing Information:

IAS Accreditation Committee Thursday, September 27, 2018 8:00 a.m. Fullerton Marriott at California State University 2701 Nutwood Avenue Fullerton, CA 92831 (714) 738-7800

Dear Madam or Sir:

The proposed IAS Accreditation Criteria for Inspection Programs for Manufacturers of Cold-formed Steel Structural and Nonstructural Components Not Requiring Welding, AC473, has been placed on the agenda for committee consideration at the above-noted meeting. The changes are being requested to accommodate a recent request for changes and for changes to clarify specific areas of the criteria.

The changes proposed are summarized below:

- 1. A universal change throughout the criteria to change "quality system" to "management system."
- 2. Section 1.2 Overview, was revised to move the requirements of the inspection agency to the Rules of Procedure and Annex A of these criteria.
- 3. Add the following standards to Section 1.3 Normative and Reference Documents:

- a. The IAS Rules of Procedure for Accreditation of Inspection Programs for Manufacturers of Cold-formed Steel Structural and Nonstructural Components Not Requiring Welding.
- b. American Iron and Steel Institute: AISI S100: North American Specification for the Design of Cold-Formed Steel Structural Members.
- c. Research Council on Structural Connections: Specification for Structural Joints Using ASTM A325 or A490 Bolts.
- 4. Revise the name of the Rules of Procedure in Section 4.1.2.
- 5. Remove "prepared in concert with an IAS accredited inspection agency" in Section 4.2.1.2 and all of Section 4.2.1.4. The requirements of these sections are being redefined in the Rules of Procedure and Annex A of these criteria.
- 6. Add Section 4.3.3 for facilities that want High-strength Bolting.
- 7. Add "inspectors" in the list of items that need to be traced on the finished product in Section 4.6.3.
- 8. Add Annex A to define the requirements of the inspection agency.

You are cordially invited to submit written comments, or to attend the committee hearing and present verbal comments. Written comments will be forwarded to the committee, **prior to the hearing**, if received by **September 6, 2018**. Please use the comment form link found on the Accreditation Committee meeting page on the IAS website, www.iasonline.org. Comments may be postal mailed to the address above, or emailed to jasinfo@iasonline.org.

Any written material submitted for committee consideration will be available for public distribution as set forth in Section 4.0 of the Rules of Procedure for Accreditation Committee Meetings (copy enclosed).

Visual aids (including, but not limited to, charts, slides, videos, or presentation software) for viewing at meetings will be permitted only if the presenter provides to IAS, before the presentation, a copy of the visual aid(s) in a medium that can be retained by IAS with its record of the meeting, and that can also be provided to interested parties.

Your cooperation is requested in forwarding to the **<u>Brea</u>** office, as noted above, all material directed to the committee. Prior to the hearing, parties interested in the deliberations of the committee should refrain from communicating, whether in writing or verbally, with committee members regarding agenda items. The committee reserves the right to refuse communications that do not comply with this request.

Yours very truly,

Rej norther

Raj Nathan President

RN/nl

Enclosures

cc: Accreditation Committee



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# RULES OF PROCEDURE FOR ACCREDITATION COMMITTEE MEETINGS

#### 1 1.0 PURPOSE

2 The purpose of the Accreditation Committee and its meetings is to safeguard IAS' impartiality to monitor the work of and 3 to approve accreditation criteria for International Accreditation Service, Inc. (IAS).

4 The committee meetings, which are open public hearings, provide an opportunity for effective involvement by all 5 interested parties.

#### 6 2.0 MEETINGS

7 2.1 The Accreditation Committee shall schedule meetings that are open to the public in discharging its duties under
 8 Section 1, subject to Section 5.0 of these rules.

9 2.2 To properly discharge its responsibilities with respect to monitoring of IAS accreditation activities, the committee shall
 10 have a standing item on its meeting agenda for a presentation by staff on the status of its accredited programs and information
 11 on any pending appeals.

12 **2.3** All scheduled meetings shall be publicly announced.

A majority of the voting Accreditation Committee members shall constitute a quorum. A majority vote of members
 present is required on any action.

15 2.5 If a specific interest group is not represented, votes by the committee on subjects related to that interest group will be 16 held in abeyance. IAS staff shall make pertinent information available to absentee committee members, and ballot the 17 members at a later stage. Records of such ballots shall be made available upon request.

18 2.6 In the absence of the nonvoting Chair-Moderator, Accreditation Committee members present shall elect an alternate
 19 Chairman from the committee for that meeting. The alternate Chairman shall be counted as a voting committee member for
 20 purposes of maintaining a committee quorum and to cast a tie-breaking vote of the committee.

21 2.7 Minutes of the meetings shall be kept.

#### 22 3.0 MEMBER COMPETENCE CRITERIA

23 Members of the Accreditation Committee shall be familiar with conformity assessment and the implementation of 24 regulatory requirements within their industry sector. They shall possess:

A Baccalaureate degree from an accredited institution or a minimum of ten years equivalent experience as determined by
 IAS;

- Current employment within the conformity assessment, regulatory field, academia, industry, or IAS accredited CAB; and
- Demonstrated expertise in one or more accreditation programs offered by IAS.

#### 29 4.0 MEETING RECORDS

30 An electronic record of meetings shall be made by IAS; no other audio, video, electronic or stenographic recordings of the 31 meetings will be permitted. Visual aids (including, but not limited to, charts, slides, videos, or presentation software) viewed at 32 meetings shall be permitted only if the presenter provides IAS before presentation with a copy of the visual aid in a medium 33 which can be retained by IAS with its record of the meeting and which can also be provided to interested parties requesting a 34 copy. A copy of the IAS recording of the meeting and such visual aids, if any, will be available to interested parties upon 35 written request made to IAS together with a payment as required by IAS to cover costs of preparation and duplication of the 36 copy. These materials will be available shortly after the conclusion of the meeting but will no longer be available after 60 days 37 have elapsed from the conclusion of the meeting.

#### 38 5.0 WRITTEN COMMUNICATIONS AND SUBMISSIONS

39 Parties interested in the deliberations of the committee should refrain from communicating, whether in writing or verbally, 40 with committee members regarding agenda items. All written communications and submissions regarding agenda items 41 should be delivered to IAS. All such written communications and submissions shall be considered nonconfidential and 42 available for discussion in open session of an Accreditation Committee meeting, and shall be delivered at least twenty days 43 before the scheduled Accreditation Committee meeting if they are to be forwarded to the Committee. Correspondence 44 received by IAS will not be released to any party, except to the Accreditation Committee, prior to the meeting without 45 permission of the author. The committee reserves the right to refuse recognition of communications which do not comply with 46 the provisions of this section. All such communications and submissions will be available from IAS upon written request and 47 payment of costs associated with duplication. The materials will be available shortly after the conclusion of the meeting but will 48 no longer be available after 60 days have elapsed from the conclusion of the meeting.

#### 49 6.0 CLOSED SESSIONS

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

#### 51 7.0 ACCREDITATION CRITERIA

52 Criteria are established by the committee to provide a basis for International Accreditation Service, Inc., accreditations. 53 Consideration of accreditation criteria must be in conjunction with a current and valid application for an IAS accreditation listing 54 or as otherwise determined by the Accreditation Committee.

55 7.1 Procedure

#### 56 7.1.1 New Criteria

57 7.1.1.1 Proposed accreditation criteria may be submitted by interested parties to IAS, and/or shall be developed by the
 58 IAS staff and discussed in open session with the Accreditation Committee during a scheduled meeting

7.1.1.2 Proposed accreditation criteria shall be available to interested parties approximately 60 days before discussion
 at the committee meeting, unless determined by IAS management that extraordinary consideration and electronic balloting are
 needed.

62 7.1.1.3 The committee shall be informed of all pertinent written communications received by IAS. Parties interested in 63 proposed new criteria may deliver communications and submissions regarding such proposed criteria to IAS within 40 days of 64 the posting of the public notice on the IAS website. Such communications and submissions will otherwise be subject to the 65 provisions of Section 4.0 of these rules.

66 7.1.1.4 Attendees at Accreditation Committee meetings shall have the opportunity to speak on accreditation criteria67 listed on the meeting agenda, to provide information to committee members.

#### 68 7.1.2 Existing Criteria

7.1.2.1 Changes to existing accreditation criteria may be submitted by interested parties to IAS, and/or shall be
 changed by the IAS staff. Existing accreditation criteria may be revised by the committee either (i) at a public meeting pursuant
 to the procedures set forth herein, or (ii) by electronic ballot, provided public notice is provided as stipulated I Section 7.1.1.2.

72 7.1.2.2 The committee shall be informed of all pertinent written communications received by IAS. Parties interested in
 73 the proposed revisions to accreditation criteria may deliver communications and submissions regarding such proposed
 74 revisions to IAS within the following timelines:

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Туре	Dates
Public Meeting	40 Days after posting of proposed criteria
Electronic Balloting Process	30 Days after posting of proposed criteria

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77 Such communications and submissions will otherwise be subject to the provisions of Section 4.0 of these rules.

#### 78 7.1.3 ELECTRONIC BALLOTING

79 7.1.3.1 IAS management shall provide written rationale and seek permission and documented approval from the IAS
 80 Accreditation Committee chair to propose new criteria or to revise existing criteria for extraordinary consideration and
 81 electronic balloting by the committee.

7.1.3.2 Proposed accreditation criteria shall be available to interested parties approximately 30 days before consideration by the committee. All pertinent written communications received by IAS relating to the proposed criteria shall be received no later than 30 days after the posting of the criteria. Ballots, along with comments received and staff recommendations, will be submitted to the committee for consideration. The committee shall return their ballots with their recommendations within 10 days from the date ballots are sent. The results of the balloting will be compiled and forwarded to the chair of the committee for validation and decision.

7.1.3.3 The electronically balloted criteria shall be brought back to the next regularly scheduled accreditation
 committee hearing as per Section 7.1.2 of these rules,

### 90 7.1.4 Effective Date of Published Criteria

91 7.1.4.1 The effective date of approved accreditation criteria or approved revisions to existing accreditation criteria shall
 92 be no earlier than 30 days following the public meeting.

93 7.1.4.2 Approved criteria using electronic balloting shall be effective the date of posting of the criteria on the IAS94 website.

#### 95 7.2 Approval

96 Approval of accreditation criteria shall be as specified in Section 2.4 of these rules.

## 97 8.0 ACCREDITATION COMMITTEE MEMBERS

98 8.1 The IAS Accreditation Committee members are appointed or reappointed annually by the IAS Board of Directors in99 consultation with the IAS President.

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8.2 Committee members are selected from senior management positions within accredited organizations, users of
 accreditation, industry groups and governmental or regulatory organizations. The individuals appointed to the committee shall
 have knowledge of regulatory codes within their industry sector and international conformity assessment process and
 practices. ■



#### PROPOSED REVISIONS TO THE ACCREDITATION CRITERIA FOR 1 2 **INSPECTION PROGRAMS FOR MANUFACTURERS OF COLD-FORMED STEEL** STRUCTURAL AND NONSTRUCTURAL COMPONENTS NOT REQUIRING 3 WELDING 4 5 6 AC473 7 8 9 **Proposed September 2018** 10 11 12 PREFACE 13 14 The attached accreditation criteria have been proposed to provide all interested parties with an opportunity to comment. These criteria may be further revised as needed. The 15 criteria are developed and adopted following public hearings conducted by the 16 International Accreditation Service, Inc. (IAS), Accreditation Committee and are 17 effective on the first of the month following approval by the Accreditation Committee, but 18 19 no earlier than 30 days following the approval. 20 21

22 PROPOSED REVISIONS TO THE ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR 23 MANUFACTURERS OF COLD-FORMED STEEL STRUCTURAL AND NONSTRUCTURAL 24 COMPONENTS NOT REQUIRING WELDING 25 26 1. INTRODUCTION 27 1.1. Scope: These criteria set forth the requirements for obtaining and maintaining International 28 Accreditation Service, Inc. (IAS), Inspection Programs for Manufacturers of Cold-formed Steel 29 Structural and Nonstructural Components Not Requiring Welding accreditation. These criteria 30 supplement the IAS Rules of Procedure for Inspection Programs for Manufacturers of Cold-31 formed Steel Structural and Nonstructural Components Not Requiring Welding.

- 33 1.2. **Overview**: Accredited entities complying with these criteria will have demonstrated that they 34 have the personnel, organization, experience, knowledge, guality procedures and commitment to 35 operate an inspection fabrication program in accordance with specified requirements. IAS-36 accredited inspection programs for manufacturers of cold-formed steel structural and 37 nonstructural components not requiring welding operate under a documented quality 38 management system developed in concert with an IAS-accredited inspection agency which 39 conducts unannounced inspections to verify continued compliance to comply with these criteria. 40 Responsibilities and requirements for inspection agencies are documented in Annex A. 41 Accredited entities are evaluated for their ability to consistently inspect fabrication that meets the 42 required quality mandated by specified requirements. These criteria do not cover the products or 43 the design or performance characteristics of the products. 44
- 45 1.3. Normative and Reference Documents: Publication(s) listed below refer to current editions
  46 (unless otherwise stated).
- 48 1.3.1. International Building Code<sup>®</sup>, published by the International Code Council.
  - **<u>1.3.2.</u>** ISO/IEC 17000, Conformity assessment Vocabulary and general principles.
  - 1.3.3.
     IAS Rules of Procedure for Accreditation of Inspection Programs for Manufacturers of

     cCold-formed sSteel sStructural and nNonstructural cComponents nNot rRequiring

     wWelding.
  - <u>1.3.4.</u> American Iron and Steel Institute: AISI S100: North American Specification for the Design of Cold-Formed Steel Structural Members.
    - <u>1.3.5. Research Council on Structural Connections: Specification for Structural Joints Using</u> <u>ASTM A325 or A490 Bolts.</u>
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58 2. DEFINITIONS

- 59 For the purposes of these accreditation criteria, the definitions given in ISO/IEC Standard 17000, and 60 the definitions that follow, apply.
- 61 2.1. Approved Fabricator: An established and qualified person, firm or corporation approved by
   62 the building official pursuant to the approved fabricator designation in Section 1702 of the
   63 International Building Code<sup>®</sup>.
- 64 2.2. Cold-formed Steel Products: Shapes manufactured by press-braking or press-forming blanks 65 sheared from steel sheets, cut lengths of steel coils or plates, or by roll forming cold- or hot-66 rolled steel coils or sheets; both forming operations being performed at ambient plant 67 temperature, without the addition of heat such as is required for hot forming. Products such as, 68 but not limited to, cold-formed Z- or C-shaped steel structural members or roll-formed sheeting 69 or deck designed to resist vertical and/or lateral loads as supplied to metal building 70 manufacturers whose inspection programs have been accredited by International Accreditation 71 Service, Inc. (IAS).
- Component Manufacturer: An entity that may be a company, division, subsidiary or similar
   organization that manufacturers cold-formed steel products.
- Contract Documents: Documents that describe the cold-formed steel structural and
   nonstructural components not requiring welding to be supplied in their entirety for a given
   project. These documents include work orders, drawings, specifications, and buyer sketches.
- 2.5. Corrective Action: Implemented action necessary to eliminate or reduce the root cause of an
  identified problem.
- General Manager: The person occupying the highest position of authority within a facility's
   organization.
- 81 2.7. Nonconformance: An action employed that renders a component unacceptable for the
   82 intended use as specified in contract documents or these criteria.
- 83 2.8. Nonstructural Component: Any cold-formed steel component, regardless of configuration,
  84 used in a nonstructural application so as to neither support nor transfer loads.
- 85 2.9. Procedure: An implemented and written document that describes who does what, when,
  86 where, why and how.
- 87 2.10. **Product**: Result of activities or processes.
- 88 2.11. Project: A process consisting of a set of coordinated and controlled activities undertaken to
   89 achieve customer requirements.
- 90 2.12. Project Documents: Documents produced for the buyer's use to support the implementation91 of the project.
- 92 2.13. Quality Assurance: Measurable systematic actions to assure confidence that the
   93 implementation of planned activities result in meeting objectives, goals and contract
   94 documents.

95		2.14.	Quality Control: The act of examination, testing or measurement that verifies processes and
96			services, or that documents conform to specified criteria.
97		2.15.	Quality Plan: A written document that describes the procedures and policies implemented to
98			assure product quality meets requirements of specific contract documents. As a minimum,
99			quality plans must meet the requirements of Sections 8.2.13 and 8.2.14 of these criteria.
100		2.16.	Quality System Management: A management approach to quality improvement based on the
101			participation of corporate management in improving processes, products and services provided
102			to the customer.
103		2.17.	Repair: Action taken to render a member or component acceptable for the intended use.
104		2.18.	Shop Documents: Documents produced that describe the individual components to be
105			fabricated in the fabrication facility. These documents include shop details, bills of material,
106			manifests, bills of lading, etc.
107		2.19.	Specification: A document that states the obligatory requirements to which the product must
108			conform.
109		2.20.	Vendor: An entity that provides inventoriable, proprietary buy-out items that are available for
110			sale. These items are typically chosen from a catalogue or list and are finite in terms of
111			available options and quantity. Examples of vendors are bolt manufacturers and steel mills or
112			service centers.
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114	3.	ELIG	IBILITY
114 115	3.	ELIG Manu	<b>IBILITY</b> Ifacturers of cold-formed steel structural and nonstructural components not requiring welding.
114 115 116	3.	ELIG Manu	<b>IBILITY</b> Ifacturers of cold-formed steel structural and nonstructural components not requiring welding.
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<ol> <li>114</li> <li>115</li> <li>116</li> <li>117</li> <li>118</li> <li>119</li> </ol>	3. 4.	ELIG Manu REQ 4.1.	IBILITY Ifacturers of cold-formed steel structural and nonstructural components not requiring welding. UIRED BASIC INFORMATION Inspection programs for manufacturers of cold-formed steel structural and nonstructural components not requiring welding must demonstrate compliance with the following
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<ol> <li>114</li> <li>115</li> <li>116</li> <li>117</li> <li>118</li> <li>119</li> <li>120</li> <li>121</li> <li>122</li> <li>123</li> <li>124</li> <li>125</li> <li>126</li> <li>127</li> </ol>	3.	ELIG Manu REQ 4.1.	<ul> <li>IBILITY</li> <li>Ifacturers of cold-formed steel structural and nonstructural components not requiring welding.</li> <li>UIRED BASIC INFORMATION</li> <li>Inspection programs for manufacturers of cold-formed steel structural and nonstructural components not requiring welding must demonstrate compliance with the following requirements:</li> <li>4.1.1. The requirements of these accreditation criteria;</li> <li>4.1.2. IAS Rules of Procedure for Accreditation of Inspection Programs for Manufacturers of eCold-formed sSteel eStructural and nonstructural eComponents nNot rRequiring wWelding of Metal Building Systems.</li> <li>General Requirements</li> <li>4.2.1. Quality System</li> </ul>
114         115         116         117         118         119         120         121         122         123         124         125         126         127         128	3.	ELIG Manu REQ 4.1.	IBILITY Ifacturers of cold-formed steel structural and nonstructural components not requiring welding. UIRED BASIC INFORMATION Inspection programs for manufacturers of cold-formed steel structural and nonstructural components not requiring welding must demonstrate compliance with the following requirements: 4.1.1. The requirements of these accreditation criteria; 4.1.2. IAS Rules of Procedure for Accreditation of Inspection Programs for Manufacturers of <u>acCold-formed sSteel sStructural and #Nonstructural eComponents #Not rRequiring</u> <u>wWeldingof Metal Building Systems</u> . General Requirements 4.2.1. Quality System 4.2.1.1. Entities accredited under these criteria shall establish and implement a <del>quality</del>
114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129	3.	ELIG Manu REQ 4.1.	<ul> <li>IBILITY</li> <li>Ifacturers of cold-formed steel structural and nonstructural components not requiring welding.</li> <li>UIRED BASIC INFORMATION</li> <li>Inspection programs for manufacturers of cold-formed steel structural and nonstructural components not requiring welding must demonstrate compliance with the following requirements:</li> <li>4.1.1. The requirements of these accreditation criteria;</li> <li>4.1.2. IAS Rules of Procedure for Accreditation of Inspection Programs for Manufacturers of eCold-formed eSteel eStructural and eNonstructural eComponents eNot rRequiring wWeldingof Metal Building Systems.</li> <li>General Requirements</li> <li>4.2.1.1. Entities accredited under these criteria shall establish and implement a quality management system that is fully documented. This documented quality-management</li> </ul>
114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130	3.	ELIG Manu 4.1.	<ul> <li>IBILITY</li> <li>Ifacturers of cold-formed steel structural and nonstructural components not requiring welding.</li> <li>UIRED BASIC INFORMATION</li> <li>Inspection programs for manufacturers of cold-formed steel structural and nonstructural components not requiring welding must demonstrate compliance with the following requirements:</li> <li>4.1.1. The requirements of these accreditation criteria;</li> <li>4.1.2. IAS Rules of Procedure for Accreditation of Inspection Programs for Manufacturers of eCold-formed sSteel sStructural and #Nonstructural eComponents #Not #Requiring wWelding of Metal Building Systems.</li> <li>General Requirements</li> <li>4.2.1.1. Entities accredited under these criteria shall establish and implement a quality management system that is fully documented. This documented quality management system must describe the procedures and quality activities for ensuring that</li> </ul>

132	4.2.1.2. A documented quality-management system manual shall be prepared and submitted
133	to IAS. The documentation shall include a cross-reference matrix prepared in concert
134	with an IAS-accredited inspection agency ensuring that the general requirements in
135	Section 4.2, personnel requirements in Section 4.3, data in Section 4.4, the
136	statements in Section 4.5, and the written procedures noted in Section 4.6 of these
137	accreditation criteria have been included.
138	4.2.1.3. The submitted quality assurance documentmanagement system must be signed and
139	dated by the highest level of authority within the organization.
140	4.2.1.4. The submitted quality assurance document must be signed and dated by an
141	authorized representative of an IAS-accredited inspection agency, attesting that the
142	inspection agency has reviewed the documented quality system and that it is
143	sufficient to allow scheduling of an onsite joint assessment with IAS.
144	4.2.2. The submitted quality assurance document must be reviewed at least annually.
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146	4.3. Personnel
147	4.3.1. Quality Manager: Entities accredited under these criteria shall designate a quality
148	manager who has the necessary training and experience to complete the tasks listed in
149	Sections 4.3.1.1 through 4.3.1.5. The quality manager shall report directly to the
150	highest level of authority within the organization. The quality manager shall have the
151	following responsibilities:
152	4.3.1.1. Maintaining the documented quality management system in accordance with these
153	criteria.
154	4.3.1.2. Monitoring the effective implementation of the documented quality-management
155	system.
156	4.3.1.3. Assuring that periodic internal audits are conducted and documented, and that
157	corrective actions are implemented.
158	4.3.1.4. Assuring that annual management reviews are conducted and documented to assure
159	the adequacy and effectiveness of the quality management system. Annual
160	management reviews must produce a summary and a documented plan of action for
161	improvement. Documents to be considered during the annual management review
162	must include, but are not limited to, customer complaints, back charges, internal audit
163	results and corrective actions.
164	4.3.1.5. Developing quality plans that meet contract documents, and having knowledge of
165	and access to the appropriate documents to meet this requirement.
166	4.3.2. In-house Quality Control (QC) Inspector: Entities accredited under these criteria
167	shall designate an in-house quality control inspector who, as a minimum, must have

168		verifiable work related experience and documented training. In addition, the quality
169		control inspector must:
170	4.3.2	.1. Be familiar with and demonstrate knowledge of codes and specifications, as
171		appropriate, for the scope of work specified in the contract documents.
172	4.3.2	.2. Be responsible for ensuring that incoming raw materials are properly identified and
173		inspected for compliance with quality plans and specifications.
174	4.3.2	.3. Be responsible for ensuring and documenting that the final assembly can be traced
175		back to the incoming materials, the quality assurance records and the individual who
176		performed the work.
177	<u>4.3.2</u>	.4. Be responsible for ensuring that fabrication of cold-formed steel products meets the
178		fabrication tolerances outlined in the contract documents.
179	<u>4.3.3.</u>	Bolting: Procedures shall be developed as required in the project documents and
180		shall address the following: Fitting, snug-tight, pre-tensioning, and faying surfaces.
181		
182		If metal building manufacturers provide high-strength bolting that meets ASTM A325 or
183		ASTM A490, they will receive recognition on the certificate of accreditation. As a
184		minimum, there must be an ICC certified Structural Steel and Bolting Special Inspector
185		(S1) on staff.
186		
100		
187	4.4. Require	ed Data
187 188	4.4. <b>Require</b> The nar	ed Data ne of the facility, the physical street address, mailing address (if different), information on
187 188 189	4.4. <b>Require</b> The nan the pers	ed Data ne of the facility, the physical street address, mailing address (if different), information on son serving as the IAS contact (including the telephone number and e-mail address), and
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205	4.5.	Require	d Statements
206		The follo	wing statements shall be provided in the quality system submittal:
207		4.5.1.	A quality policy statement that includes the following elements:
208		4.5.1	1. All activities of the organization shall be directed in such a manner as to ensure that
209			the quality requirements of AC473 will be met.
210		4.5.1	2. The elements of the quality assurance program will be disseminated to all personnel
211			assigned activities that affect the quality of the product.
212		4.5.2.	IAS will be notified in writing prior to any cancellation of the inspection agreement with
213			the accredited inspection agency.
214		4.5.3.	Copies of reports of inspections conducted by the inspection agency, if they note major
215			quality control variations, will be forwarded to IAS within 10 days of the major deficiency
216			having been reported.
217		4.5.4.	Entities accredited under these criteria will notify the inspection agency when the facility
218			is to be closed for extended time periods other than for normally scheduled periods for
219			maintenance or vacations, or for two or more weeks regardless of the circumstances of
220			the closure. IAS and the inspection agency will be notified 10 days prior to resumption
221			of operations.
222		4.5.5.	IAS will be notified in writing by the accredited entity and the inspection agency if
223			unannounced, follow-up inspections have not been conducted by the inspection
224			agency.
225		4.5.6.	IAS and the accredited inspection agency must be notified within 30 days of any
226			changes in management personnel. As a minimum, this would include the president,
227			general manager, purchasing manager, production manager, or quality manager.
228			
229	4.6.	Require	d Written Procedures
230		Entities	accredited under these criteria shall submit written procedures for the following:
231		4.6.1.	Document Control: Control of documents and data relating to the quality functions
232			must be provided. This control shall include the following:
233		4.6.1	.1. A document approval procedure.
234		4.6.1	2. A procedure to ensure that only current, approved documents are used.
235		4.6.1	.3. A procedure to ensure that documents are available at all locations where necessary
236			for the proper functioning of the quality management system.
237	I	4.6.2.	Purchasing
238		4.6.2	1. Determining that purchased products will conform to specified requirements. The
239			procedure must include a requirement that the type and grade of material be
240			documented on the purchase order agreement.

241 4.6.2.2. Evaluation of subcontractors for their ability to meet subcontract requirements. 242 Evaluations may contain summaries or logs, but must include a means of quantifying 243 and measuring the ability of the subcontractor or supplier to provide quality products 244 or services consistent with the required shop documents. 245 4.6.3. **Product Traceability:** The traceability procedure must describe the method used to 246 ensure items are traceable as specified in the contract documents. Items that typically 247 require traceability are materials that are incorporated into the final product. The project 248 documents will determine if full materials traceability is required; however, the 249 accredited entity must have a procedure to meet the project needs for the type of 250 fabrication performed. In addition to project requirement needs, the accredited entity, 251 as a minimum, must have in their control traceability of the finished product to incoming 252 materials, inspectors, plans and specifications. The procedure must make provision for 253 documentation of this traceability on inspection forms or on a controlled copy of the 254 detail drawing. 255 256 As a minimum, all steel used and incorporated into the final cold-formed steel product 257 (ex.: secondary structural steel and panels) must be traceable to the type and grade of 258 material. 259 4.6.4. **Process Control**: There must be a procedure that identifies how process control is 260 communicated to appropriate personnel. Process control includes procedures such as 261 press-braking, press-forming, roll forming, cutting or saw operations, cambering and 262 coating. Examples of forms used in the process control procedure are cut lists, 263 standard drawings or detail drawings. The procedure must describe the accredited 264 entity's method of communicating and establishing priorities of such operations. 265 4.6.5. **Inspection and Testing**: The inspection procedure shall include provisions for receipt, 266 in-process and final inspections, as appropriate, to provide a level of assurance that 267 products are fabricated in accordance with contract documents by gualified personnel. 268 Final inspections shall include a record of the results and resolution of 269 nonconformances identified by subsequent inspections. As a minimum, inspection 270 procedures shall include the following: 271 4.6.5.1. Receiving inspection of incoming materials to the required specification, including 272 review of mill test reports and certificates of conformance to ensure compliance with 273 contract documents. 274 4.6.5.2. In-process inspection for workmanship that can affect subsequent operations. 275 (Examples of in-process inspections are areas requiring coatings that will not be 276 accessible during final inspection, monitoring of operations as appropriate, fabrication 277 tolerances and monitoring of roll-forming operations for shape tolerances). There

278		must be documentation ensuring personnel performing assigned inspections have
279		been trained on the specific tasks that are delegated.
280	4.6.5	3. There must be a record of the final inspection ensuring that receiving, in-process and
281		final inspections have been performed.
282	4.6.5	4. Entities accredited under these criteria shall provide a procedure to ensure
283		compliance with the following Metal Construction Association/Steel Coalition industry
284		commitment: Roofing products (and/or decking products) that are to be walked upon
285		shall be free of visible liquid lubricants when they are shipped from the plant. The coil
286		ordering and manufacturing processes shall not generate significant levels of dry
287		residue on walking surfaces at the time of shipment.
288	4.6.6.	Control of Inspection, Measuring and Test Equipment: There must be a
289		maintenance schedule, including calibration procedures, for testing equipment.
290		Wherever possible, calibration services shall be provided by a calibration laboratory
291		accredited by IAS or by an accreditation body that is a partner with IAS in a mutual
292		recognition arrangement.
293		
294		It is recognized there may not be nationally recognized standards available for unique
295		testing equipment. When such instances exist, calibration procedures must be in
296		compliance with manufacturer's recommendations to the extent that such testing
297		equipment is calibrated to ensure consistency with the required measuring capabilities.
298		It is the accredited entity's responsibility to ensure that such testing equipment is
299		approved prior to use.
300	4.6.7.	Control of Nonconforming Workmanship: Procedures shall be established for
301		identifying, documenting and assigning the disposition of nonconforming items.
302	4.6.8.	Corrective Action: The procedure for corrective action shall include investigating,
303		documenting and correcting nonconformances. The procedure must include a provision
304		to preclude repetition.
305	4.6.9.	Handling, storage and delivery procedures shall include identifying and storing of
306		incoming materials and finished products as appropriate to minimize damage and
307		deterioration.
308	4.6.10.	Internal Audits: Entities accredited under these criteria shall identify the frequency,
309		method of documentation and the content of internal audits to determine the
310		effectiveness of the quality system. Audits shall include a summary that compares the
311		most recent audit to the previous audit, and shall include the elements of AC473.
312		Internal audit frequency shall not be less than once per year.

313	4.6.11. Control of Quality Records: Entities accredited under these criteria must determine
314	methods for storing, maintaining and accessing quality records for a minimum of two
315	years. Quality records must include at least the following:
316	4.6.11.1. Completed in-house quality inspection reports, forms, and checklists.
317	4.6.11.2. Manufacturer test reports and certificates of compliance from vendors, for
318	incoming materials and consumables.
319	4.6.11.3. Copies of inspection reports by the inspection agency.
320	4.6.11.4. Records of internal audits.
321	4.6.11.5. Training records.
322	4.6.11.6. Evaluations of vendors and subcontractors.
323	4.6.12. Training: There must be a procedure for the training of personnel who have an effect
324	on the quality of the finished product. The procedure must include provision for
325	maintaining current personnel qualifications. As a minimum, there must be training
326	requirements established for inspectors, assistant inspectors, and machine operators.
327	
328	4.7. Control of Required Procedures
329	Contract Review: The quality manager must ensure that contract quality requirements are met
330	The quality manager will be responsible for reviewing any instructions and/or procedures relative
331	to activities affecting quality to determine if they are properly understood and implemented.
332	
333	As a minimum, the following elements must be documented to ensure that contract reviews are
334	managed, controlled, and successfully implemented and communicated to appropriate
335	personnel:
336	4.7.1. Quality plans to ensure that fabrication conforms to the most recent project
337	specifications.
338	4.7.2. As a minimum, quality plans shall address the following:
339	4.7.2.1. Material: ASTM Grade and Type:
340	4.7.2.1.1. Origin of materials
341	4.7.2.1.2. Substitution requirements
342	4.7.2.1.3. Material test report requirements
343	4.7.2.2. Workmanship:
344	4.7.2.2.1. Cutting of components
345	4.7.2.2.2. Drilling or punching of holes
346	4.7.2.2.3. Edge distance
347	4.7.2.2.4. Cambering, bending, straightening
348	4.7.2.2.5. Dimensional tolerances

349		4.7.3. Required inspections and sequence of inspections to verify conformance of an item or
350		activity to specified requirements.
351		4.7.3.1. Receiving
352		4.7.3.2. In-process
353		4.7.3.3. Final
354		4.7.3.4. Records and reports
355		4.7.4. Acceptance criteria for inspections required in the contract documents for the scope of
356		the project.
357		4.7.5. Shipping, packaging and handling requirements.
358		
359	5.	ADDITIONAL INFORMATION (AS APPLICABLE)
360	ĺ	5.1. IAS Rules of Procedure for Inspection Programs for Manufacturers of Cold-formed Steel
361		Structural and Nonstructural Components Not Requiring Welding (under construction).
362		5.2. ANSI/AISI S100 North American Specification for the Design of Cold-Formed Steel Structural
363		Members.
364	I	Steel Coalition Lubricant Task Group Final Report, approved for distribution May 14, 2002.
365		
366	6.	LINKS TO ADDITIONAL REFERENCES
367		6.1. IAS – <u>www.iasonline.org</u>
368		6.2. International Code Council – <u>www.iccsafe.org</u>
369		6.3. MBMA – <u>www.mbma.com</u>
370		

371	ANNEX A
372	
373	The inspection agency is limited to the review and implementation of the following shop procedures:
374	1.0 Product traceability
375	2.0 Process <del>C</del> control
376	3.0 Inspection and <del>T</del> testing
377	4.0 Control of linspection, Mmeasuring and ∓test Eequipment
378	5.0 Control of Nnonconforming Wworkmanship
379	6.0 Corrective Aaction
380	7.0 Handling and Sstorage
381	8.0 Training of Sshop Ppersonnel and linspectors
382	9.0 Document Control of Sshop Pprocedures.
383	
384	These criteria were previously issued May 2010 <u>, and J</u> une 2013 <u>and April 2017.</u>