



Application Document Submittal for the Hydraulic Fabricator Certification Program

Please submit the following through electronic media. Maximum file size shall not exceed 20 MB:

- A copy of your Quality Manual and the documented procedures as outlined in Sections 5 through 19 of the *Standard for Steel Bridges AISC 205-11 (the Standard)*.
- **A copy of this completed checklist. You must include the corresponding Procedure number, Quality Manual section number, or the Document name in the (✓) column.**

This document references the *Certification Program Requirements for Fabricators of Hydraulic Steel Structures (Program Requirements)*

Documents Required to be Submitted	✓
<p>Project Description and Example A description and example of the type of hydraulic structures fabricated at the facility to be certified, which includes:</p> <ul style="list-style-type: none"> • Identifying the type of structural materials used in fabrication. • A list of the ASTM specification for the structural materials used in fabrication. • Shop drawing examples for at least one fabricated hydraulic project completed within the last five years. The number of drawings should be adequate to represent the type of work for which you are seeking certification. Do not submit complete sets of drawings. 	
<p>Project Schedule A project schedule of upcoming hydraulic structure work for the next six months that will be fabricated at this facility. The schedule must include:</p> <ul style="list-style-type: none"> • The Owner's name • The project contract number and name • Approximate tonnage and person-hours, and • A brief description of the type of structure. 	
<p>Organizational Chart An organizational chart showing all key personnel positions that affect quality, including Quality Assurance and Quality Management positions. All supervisory position titles must be shown, and must match titles in the biographical information required below. The chart must show formal reporting relationships and informational (dotted line) relationships between positions pertaining to quality. Refer to Element 5.6.2.1 of the <i>Standard</i>.</p>	
<p>Job/Position Descriptions Descriptions must define reporting responsibilities, the position responsibilities and authorities related to the quality management system. <u>Include the qualifications required in Element 5.4.1 of the <i>Standard</i></u> and describe the abilities necessary to successfully perform the functions assigned to the description. Refer to Element 5.6.2.1 of the <i>Standard</i>.</p>	
<p>Biographical Information The biographical data must show title(s) of the position held. That title must match a title on the organization chart or facility organization description. Information must be included relating to the individual's qualifications for the responsibilities of the position(s) filled, which may be illustrated by education, training, certifications or experience in the specific project types typically fabricated at this facility. Refer to Element 5.4.1 of the <i>Standard</i>. Include the management of purchasing, detailing/engineering, fabrication processes, quality assurance, quality control and the key individual responsible for the quality management system (Management Representative for Quality).</p>	



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Internal Audit A record of an internal audit <u>that has been conducted</u> , showing that all elements of the Quality Management System have been evaluated. The format for this record is not restricted and can be any system or form that allows your facility an effective means to evaluate compliance and performance of your quality management system in accordance with Element 19 of the <i>Standard</i> .		
Record of a Management Review Meeting A record of a management review meeting <u>that has been conducted</u> , addressing at a minimum, the requirements of Element 5.2 of the <i>Standard</i> and RU19 of the <i>Program Requirements</i> .		
Quality Policy A written quality policy statement describing company policy, goals, and commitment to quality per Element 5.1 of the <i>Standard</i> .		
Quality Goals Written, measurable quality goals per Element 5.1 of the Standard.		
Quality System Procedures Required to be Submitted		
Refer to Section 4 of the <i>Standard</i> for the definition and requirements for a documented procedure. (Do not submit detailing standards required in element 7.1.2 of the <i>Standard</i> . Detailing standards will be evaluated during the onsite audit.)		
Standard Element No. or Program Requirement Rule No.	Title	
6	Contract and Project Specification Review and Communication	
7.1.1	Preparation of Shop Drawings and Erection Framing Drawings	
7.1.3.1	Checking of Shop and Erection Framing Drawings	
7.1.3.2	Approval of Shop Drawings and Release for Fabrication	
7.1.3.3	Externally Supplied Shop Drawings	
8	Document and Data Control	
8.1	Review and Approval	
8.2	Receipt and Documentation of Customer Requirements	
8.3	Revision Control	
8.5	Obsolescence and Transmittal	
9	Control of Quality Records	
10	Purchasing	
10.1	Purchasing Data	
10.2	Selection and Evaluation of Subcontractors and Suppliers	
10.4	Detailing Subcontractors	
10.5	Verification of Purchased Product, Materials and Services	
11.1	Material Identification	
11.2	Material Traceability	



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12.1	<p>Welding: A documented procedure describing the plan for welding that includes:</p> <ul style="list-style-type: none"> • At least one current Welding Procedure Specification (WPS) for each process used in fabrication of hydraulic structures, in accordance with <i>AWS D1.5</i>, and • A corresponding Procedure Qualification Record (PQR). <p>One current Welder or Welding Operator Qualification Record (WQR) for each welding process used in fabrication of hydraulic structures.</p>	
12.2	Bolt Installation: A documented procedure, including reference to the latest version of the RCSC Specification, and bolt testing. (Pre-Installation Verification)	
12.3	Material Preparation for Application of Coatings	
12.4	Coating Application	
12.5	Equipment Maintenance	
13	Inspection and Testing	
13.1	Assignment of QC Inspections and Monitoring	
13.2	Inspection Procedure	
14	Control and Calibration of Inspection, Measuring and Test Equipment	
15	Control of Nonconformances – for Nonconforming Product and for Nonconformance with the Quality Management System	
16	Corrective Action	
18	Training	
Standard Element No. or Program Requirement Rule No.	Fracture Critical	
F5.6.2.1	<p>Organization The Quality Manual section which references a written Fracture Control Plan (FCP) meeting the requirements of the <i>AWS D1.5, Clause 12</i>.</p>	
F7.1.3	<p>Detailing Standards The detailing standards for preparation of:</p> <ul style="list-style-type: none"> • Bills of material that include provisions for the material used in fracture-critical applications, and • Shop and erection drawings defining the manner of identifying fracture-critical welds. 	
F10.1	<p>Purchasing Data Written purchasing documents describing the identification of materials to be used for fracture-critical applications. Base metal requirements shall include, in accordance with the <i>AWS D1.5, Clause 12</i>:</p> <ul style="list-style-type: none"> • Required toughness requirements • Fine-grain practice • Prohibition of mill repairs 	
F11.2	<p>Material Traceability A procedure for identification of material and material traceability that includes provisions for maintaining heat and MTR identity of fracture-critical material throughout the fabrication process.</p>	



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F12.1	<p>Welding A documented procedure describing the plan for Fracture Critical welding in accordance with <i>AWS D1.5, Clause 12</i>, that includes:</p> <ul style="list-style-type: none"> • A current Fracture Critical Welding Procedure Specification (WPS) and supporting Procedure Qualification Record (PQR). • A current Fracture Critical Repair Welding Procedure Specification (WPS) • A current Fracture Critical Welder or Welding Operator Qualification Record (WPQR) 	
F12.1	<p>Fracture Control Plan (FCP) FCP provisions that include:</p> <ul style="list-style-type: none"> • straightening, curving and cambering • tack welds and temporary welds • preheat and interpass control • fracture-critical consumable requirements • postweld thermal treatments 	
F13.2	<p>Inspection A documented procedure that includes provisions for:</p> <ul style="list-style-type: none"> • inspection of fracture-critical welds, including repair welds • Inspector qualification requirements, including Lead QC and QA Inspectors • NDT technicians • NDT requirements for various types of welds 	
F15.2	<p>Nonconforming Product A documented procedure that includes provisions for repair of critical and non-critical fracture-critical welds in accordance with the <i>AWS D1.5, Clause 12</i>.</p>	

Checklist to be completed by Management Representative / Certification Contact

_____ Date _____
 (Print name) (Signature)