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QUALITY MANUAL for STRUCTURAL STEEL ERECTOR

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Abstract:

This document describes the Company's quality management system for structural steel erector.

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Paragraphs 5.7.1 through 5.7.3 are "value added" content.

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1.0 Purpose

The purpose of the Quality Management System is

2.0 Scope

The Company's quality management system applies to

This Quality Management System includes

2.1 Exclusions

The Company cites no exclusions to the AISC standard. (revise required)

3.0 References

The latest editions of the following documents and standards are required: (revise as required)



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3.1 Seismic Erection

For the erection of structures requiring the use of ANSI/AISC 341 Seismic Provisions for Structural Steel Buildings, the Company has

meet the requirements of:

•

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•

3.2 Metal Deck Installation

When work includes the installation of metal deck, the Company has

Instructions for

metal deck installation are provided in the Erection Plan and the Safety Plan.

(a)

3.3 Bridge Erection

For the erection of bridges, the Company meet the requirements of:

- •
- •

3.4 Safety

Employees and others that perform work for the Company are

which also includes

4.0 Definitions

See **QMS-16 Definitions, Abbreviations and Symbols Procedure** for more details. Subordinate or external documentation is referenced in **Bold Italics**.

5.0 Management Responsibility

The Company is committed to

To ensure this, management

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Policy for Quality and Quality Goals **5.1**

The Company's quality policy defines and pays particular attention to Left blank intentionally

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Quality Management System renumbered from paragraph 5.5

The Company's quality management system is designed to The Quality System ensures This assures Necessary records of activities are retained and maintained. The System is

Company maintains

All Managers are responsible for

The quality system

documentation is comprised of

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Management Review 5.3

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Management review meetings	s are	
	riews are reported and records are retained and review are defined in the QMS-04 Managemen	
Management review meeting		
	e QMS-12 Internal Auditing Procedure to en	Records of
management review meetings QMS-01 Control of Docume	s and internal audits are retained and maintained ac nted Information Procedure.	cording to the
Responsible Authorities also which includes:	J'	
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5.4 Responsible Quality Personnel

The individuals designated as Quality (QM) and/or Safety Manager (SM) understand

Each Responsible
Authority (RA) is

The RA's have primary responsibility for

The RA ensures

5.5 Resource Management

The Company has the resources
The responsibility, authority and the interrelation of personnel

that includes

5.5.1 Personnel

Personnel assigned to key positions and those performing field operations provide according to the *QMS-06***Training Procedure**. Unless otherwise noted personnel can

Specifically, individuals responsible for Quality and Safety management do not Qualified personnel are assigned to manage the following functions revise as required)

- •

5.5.2 Buildings, Workspace, Equipment and Associated Utilities

The facility consists of

The areas and buildings are

Adequate space is provided for are defined in the QMS-22

Application of Complex Protective Coatings Procedure.

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Ambient conditions are provides

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The facility also

5.5.3 Erection Tools and Equipment

The Company has under its control

5.6 Internal Communication

To ensure proper communication between and throughout all levels of employees within the Company, internal communication is

which is documented in the QMS-04 Management Procedure.

Management periodically communicates with employees to

Employees are encouraged to

This system requires management to

5.7 Quality Manual

The primary purpose of the Quality Manual and QMS Procedures is

The Quality Manual has been developed by

The quality manual is approved

The quality manual is

Additional procedures and work

instructions

For instance:

- •

5.7.1 Organization

Review meetings are

Reviews are

reported and records are retained and maintained. The controls for management review are defined in the **QMS-04 Management Procedure**.

The organizational chart

which are further defined in the QMS-05 Responsibilities and Authorities

Procedure.

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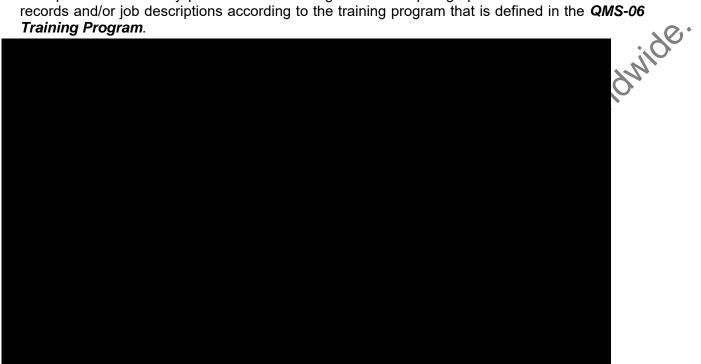
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The qualifications of key personnel and managers listed in paragraph 5.4.1 are maintained in records and/or job descriptions according to the training program that is defined in the QMS-06 Training Program.



5.7.2 Approval

This manual is issued under the authority of

Management ensures the QMS is

5.7.3 Order of Precedence Value-Added

The order of precedence of order-specific documentation is

- 1.

Safety Manual

The Company ensures Employees according to the QMS-03 Construction Safety Program, QMS-04 Management Process and QMS-06 Training Program.

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a material at the fall accions informations.	vhich
	dail
5.9 Policy for Safety Executive management is responsible for	
5.9 Policy for Safety	
Executive management is responsible for The policy for safety includes:	
Executive management according to the QMS-04 Management Process Procedure . Safety goals	are
5.10 Responsible Safety Personnel	
Executive management designates The designated management representative for sadoes	afety
The designated management representative(s) has the ability, responsi	ibility
8,	

6.0 Construction Document Review and Communication

The Company performs contract and project specification review according to the **QMS-07 Proposal Development and Contract Review Procedure**. The review as well as

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The review considers The procedure provides
to assure
The Company communicates according to <i>QMS-21 Approval of Approval Documents Procedure.</i>
Communications include:
according to QMS-21 Approval of Approval Documents Procedure. Communications include: Decisions made in the process of these communications are
Decisions made in the process of these communications are
Contract review records may
Contract review records may
Project requirements are distributed to production and performance records are retained and maintained according to contract requirements and <i>QMS-01 Control of Documented Information Procedure</i> . The controls for contract review are defined in the <i>QMS-07 Proposal Development and Contract Review Procedure</i> .
Communications with Authorities Having Jurisdiction (AHJ) are documented by using the
Request for Information (RFI) form (or your form). The RFI is
A number is assigned to the <i>RFI</i> and then recorded in the <i>RFI Log</i> . The <i>Log</i> documents the following:
6.1 Customer Requirements

The Company captures

Contract Review process.

as part of the **Proposal Development &**

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Documents are controlled to Documents are

The Company

determines

QMC#:

which is defined in the QMS-07 Proposal Development & Contract Review Procedure.

7.0 Reserved - N/A

8.0 Control of Management System Documents and Project Documents

8.1.1 Quality Management System Documents

The Quality System ensures

This assures

Necessary records of activities are retained and maintained. Quality improvements

structured

The System is

8.1.2 Review and Approval of Quality Management System Documents

Internal documents that affect quality are Revisions to the Quality Manual and other quality management system documents are

Revision controls are defined in the QMS-02 Configuration Management Procedure.

8.1.3 Revision Control of Quality Management System Documents

Controlled management system documents that are

The Quality Manual has a cover page showing the current revision date and the name and location of the Company. The revision is

The Company has established a method to ensure

Documents are controlled

The controls for document control and configuration management are defined in the QMS-01 Control of Documented Information Procedure and QMS-02 Configuration Management Procedure.

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8.1.4	Access	to	Quality	Manag	gement	Sys	stem	Docum	ents
-------	---------------	----	---------	-------	--------	-----	------	--------------	------

Relevant and current Company policies, procedures, safety requirements and project

8.1.5 Communication of Changes and Revisions to Quality Management System Documents Changes and revisions

are

QMC#:

according to the QMS-02

Configuration Management Procedure and applicable Change Order(s)

8.2 Project Documents

A method has been established and maintained

The controls are defined in the QMS-01 Control of Documented Information Procedure and QMS-02 Configuration Management Procedure.

8.2.1 Tracking Project Documents

have been established to

which indicate

8.2.2 Revision Control of Project Documents

Controlled project documents that are

The Company has established a

method to ensure

Documented procedures control

A process has been established to

The controls for document control and configuration management are defined in the QMS-01 Control of Documented Information Procedure and the QMS-02 Configuration Management Procedure.

8.2.3 Access to Project Documents

Relevant and current

The controls are defined in the QMS-10

Steel Work Procedure.

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9.0 Maintenance of Quality Records

All quality records and final inspections are

All quality records are

Records that document quality typically include:

9.1 Retention of Quality Records

The control of records is defined in the *QMS-01 Control of Documented Information Procedure*.

9.2 Storage of Quality Records

Records are controlled according to the **QMS-01 Control of Documented Information Procedure.**

9.3 Retrieval of Quality Records

Proprietary records are

10.0 Purchasing

Purchasing is **08 Purchasing Procedure**. The Company

The Company does not

10.1 Purchasing Data

Purchase documents

Purchasing documents for includes

The purchasing process is fully defined in the QMS-08 Purchasing Procedure.

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10.2 Selection of Subcontractors and Suppliers

The purchasing process

QMC#:

The supplier evaluation process is fully defined in the Subcontractors

QMS-08 Purchasing Procedure.

10.2.1 Fabrication/Erection Subcontractors

When required by contract, the Company

10.3 Verification of Purchased Product, Materials and Services

The responsibility for quality of subcontracted products

Documented

procedures are

Purchased products are

The methods used for verification of purchased items are defined in the **QMS-09 Receiving Procedure**.

10.3.1 Material Receipt Inspection

Materials received are

The Receiver

Deliveries are

Defective supplies are

Nonconforming supplies are

Documented procedures are established and maintained for Deliverable items

When certification test reports are

The methods for performing receiving

inspections are defined in the QMS-09 Receiving Procedure.

10.4 Control of Customer-Furnished Material

A negotiated agreement

The QMS-10 Steel Work Procedure has been established and

maintained for

Verification includes

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The methods for the control of Customer-furnished materials are defined in the QMS-10 Steel Work Procedure.

10.5 Purchasing Records

Purchasing documents,

QMC#:

are retained and maintained according to

the QMS-01 Control of Documented Information Procedure.

10.6 Customer Verification of Product

the Customer or nominated representative is

The methods used for the control of Customer verification are defined in the QMS-08 Purchasing Procedure.

11.0 Material Identification

A documented procedure has been established and maintained for identifying

The procedure provides for

Purchasing documents

includes

The filing and retention

Records are retained according to the QMS-01 Control of Documented Information Procedure. The methods for the control of supplied materials and identification of deliverable items are defined in the QMS-10 Steel Work Procedure.

12.0 Erection Process Control

Processes may include Corrective action is Procedures and records are including The procedures include

Effective implementation of the following documented procedures is required as a minimum: evise as required)

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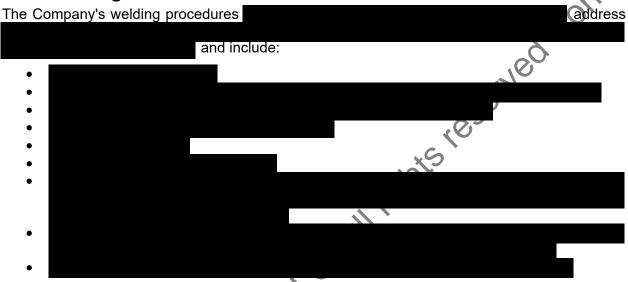
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The methods for the control of the erection process are defined in the **QMS-10 Steel Work Procedure**.

12.1 Welding

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The methods used to develop and manage welding operations are defined in the *QMS-10 Steel Work Procedure*.

12.2 Bolt Installation

The Company's bolting procedure QMS-25 Bolting Procedure is and includes:

The methods used to develop and manage bolt installation are defined in the **QMS-10 Steel Work Procedure**.

12.3 Material Preparation for Application of Coatings

The Company's prepares material for coating application according to the coating manufacturer's recommendations, product data sheets and project specifications.

12.4 Coating Application

The Company applies	according to	
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12.5 Equipment Maintenance

12.	o ⊑quipi	nent man	Renance				
A	documented	preventive	maintenance	program	QMS-24	Maintenance	Procedure is otherwise, the
Con	npany						
				Preve	entive main	itenance activiti	es are
				11010	THE THE		
						It is accept	able to
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12	6 Lovdo	wn/Accon	ablu			-, Je	9
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13	0 Insna	ction and	d Testing	<i>'</i> Ο.			
	•		_	of the and	olicable en	ection project,	
	ondaro dom	omiano to	roquirornonio	ar the app		ecks occur	
		nspection c	anaista of				
	1	rispection co		methods for	or the cont	rol of the inspec	tion and testing
							s are controlled
acco	ording to the	QIVIS-14 Co	ntrol of Nonco	ontormand	es Proced	iure.	
13.	1 Assign	nment of (QC Inspect	ions and	d Monito	oring	
	inspectors a					á	according to the
		og Procedur	e,		under t	ne following con	ditions:
OOH	struction per	30IIICI aic			under ti		ditions.
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13.2 Receipt Inspection

Materials received are
The Responsible Authority

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The Responsible Authority The methods for performing receiving inspections are defined in the **QMS**wide. 09 Receiving Procedure.

13.3 In-Process Inspection

The Company retains and maintains in-process inspection plans

All materials used in the

work product are

QMC#:

Applicable inspection instructions indicate In-process inspections are

In-process inspections

are

In-process inspections

may

Records of in-process inspections are maintained and

retained according to the QMS-01 Control of Documented Information Procedure.

In-process inspections are

The following inspections are described in the QMS 10 Steel Work Procedure: (revise as Aties, L.C. required, here and in QMS-10)

13.4 Final Inspection

Qualified inspectors

Inspection

records identify

Records of fibal inspections are maintained and retained according to the QMS-01 Control of Documented Information Procedure.

13.5 Inspection Records

Inspection records provide

Inspection records are retained and maintained according to the

QMS-01 Control of Documented Information Procedure.

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14.0 Calibration of Inspection, Measuring and Test Equipment

Company owned, rented or borrowed measuring and test equipment instruments and devices

The controls for such equipment and calibration activities are defined in the **QMS-15 Calibration Procedure**.

15.0 Control of Nonconformances

Nonconformances are

QMC#:

Documented procedures are established and maintained for

The methods used to control nonconformances are defined in the *QMS-14*Control of Nonconformances Procedure.

15.1 Nonconforming Quality Management System

The Company conducts

according to the QMS-12 Internal Auditing Procedure. The Company assigns

according to the QMS-04 Management Procedure.

15.2 Nonconforming Work

When a nonconformance occurs,

the Company

according to the QMS-13 Corrective Action Procedure and QMS-14 Control of Nonconformances Procedure. The Company evaluates

The Company implements

The Company ensures

The Company retains and maintains records

according to the QMS-01 Control of

Documented Information Procedure.

16.0 Corrective Action

√the Company has implemented and maintains

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Corrective actions are applied

Adaptive action according to QMS-04

Management Process Procedure,

Corrective action is applied when:

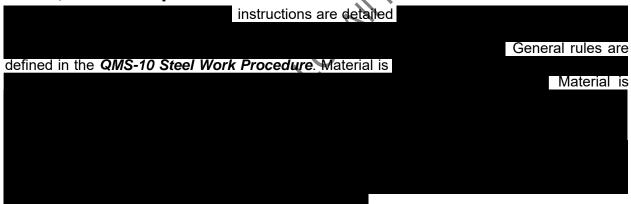
The Company determines

In addition to the preventive measures

The corrective action process is defined in the QMS-13 Corrective Action

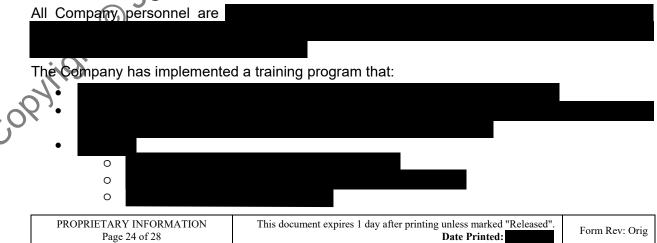
Procedure.

17.0 Handling, Storage and Delivery of Materials, Fabricated Work, and Components



The handling and shipping process is defined in the *QMS-11 Shipping Procedure*.

18.0 Training



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Management conducts . The training program is defined in the QMS-06 Training Program. 19.0 Internal Audit

Internal quality audits are which is accomplished by Audit requirements include The internal audit process is defined in the QMS-12 Internal Auditing Procedure.

20.0 Erection Plan

The Company prepares

The erection plan includes the following information as appropriate for the project:

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The erection plan is All io All revisions are 21.0 Safety Plan The Company prepares a safety plan The safety plan may A safety plan considers The safety plan includes The safety plan includes the following information as appropriate for the project: The safety plan is and is

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All revisions are

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Prior to the start of the erection project, the Company retains and maintains documentation other evidence)

Important:

23.0 Safety Management System

23.1 Documentation Requirements

The QMS-03 Safety Program contains the following information:

23.2 Safety Training

Safety training includes

Safety training includes

The safety plan described in 21.0 is

√he Company provides training according to

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