Oil & Gas QA/QC Manual Sample
Selected pages (not a complete plan)

- Quality Manual
- Reporting Forms
- Inspection Forms

Contact:
Ed Caldeira
410-451-8006
[CompanyName]

Oil & Gas

Quality Manual

Operating Policies of the [CompanyName] Quality System

Version: 20141228

<table>
<thead>
<tr>
<th>Version</th>
<th>Version notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>20141228</td>
<td>Initial issue</td>
</tr>
</tbody>
</table>

Approval Signature and Date: ___________________________________ _____________________

President/ Date

Questions? Call First Time Quality 410-451-8006

Documents provided by Superior Iron, Inc. disclose proprietary information as well as copyright information registered with the U.S. Patent and Trademark Office. Please hold these documents in confidence and do not share them with other organizations, even if you do not charge a fee. Submittal of documents does not transfer copyright ownership.
# QUALITY MANUAL

## TABLE OF CONTENTS

1. Quality System Management and Responsibilities .......................................................... 7  
   1.1. Overview ......................................................................................................................... 7  
   1.2. [Company Name] Quality Policy .................................................................................... 7  
   1.3. Quality Duties, Responsibilities, and Authority ............................................................ 7  
   1.4. Quality System Performance Measures ........................................................................ 10  
   1.5. Customer Satisfaction Performance Measures .............................................................. 10  
   1.6. Exceptions ..................................................................................................................... 10  

2. Project Quality Assurance/Quality Control Plan ............................................................... 11  
   2.1. Overview ......................................................................................................................... 11  
   2.2. [Company Name] Project License and Qualification Requirements ............................... 11  
   2.3. Project Personnel and Qualifications ............................................................................... 12  
   2.4. Project Quality Assurance/Quality Control Plan ............................................................ 14  
   2.5. Identification of Quality Controlled Work Tasks ............................................................ 15  
   2.6. Project Quality Inspection and Test Plan ....................................................................... 15  
   2.7. Project Quality Communications Plan .......................................................................... 15  
   2.8. Project Quality Training Plan ....................................................................................... 15  
   2.9. Customer Training On Operation and Maintenance ....................................................... 15  
   2.10. Project Records and Documentation Plan ................................................................... 15  
   2.11. Project Audit Plan ....................................................................................................... 16  

3. Contract Specifications ...................................................................................................... 17  
   3.1. Overview ......................................................................................................................... 17  
   3.2. Contract Technical Specifications .................................................................................. 17  
   3.3. Contract Drawings ......................................................................................................... 17  
   3.4. Contract Submittals ....................................................................................................... 17  
   3.5. Customer Submittal Approval ...................................................................................... 19  
   3.6. Contract Warranty ........................................................................................................ 20  
   3.7. Contract Review and Approval .................................................................................... 20  

4. Design Review and Control .............................................................................................. 21  
   4.1. Overview ......................................................................................................................... 21  
   4.2. Design Input Review ....................................................................................................... 21  
   4.3. Project Design Quality Assurance/Quality Control Plan ................................................ 21  
   4.4. Design Progress Reviews ............................................................................................... 22  
   4.5. Design Output Verification and Approval ....................................................................... 22  

5. Project-Specific Quality Standards .................................................................................... 23  
   5.1. Overview ......................................................................................................................... 23  
   5.2. Regulatory Codes .......................................................................................................... 23
5.3. Industry Quality Standards .................................................................................. 23
5.4. Material and Equipment Specifications ............................................................... 24
5.5. Work Process Specifications .................................................................................. 24
5.6. Controlled Material Identification and Traceability ............................................. 25
5.7. Measuring Device Control and Calibration ......................................................... 25
5.8. [Company Name] Quality Standards ................................................................ 25
5.9. Application of Multiple Sources of Specifications .............................................. 26

6. Project Purchasing ..................................................................................................... 27
   6.1. Overview ........................................................................................................... 27
   6.2. Qualification of Outside Organizations and Company Departments ............... 27
   6.3. Quality Responsibilities of Key Subcontractor and Supplier Personnel ............. 28
   6.4. Requirements for Subcontractor QC Plan ......................................................... 29
   6.5. Subcontractor and Supplier Quality Policy ....................................................... 29
   6.6. Project Subcontractor and Supplier List ........................................................... 30
   6.7. Purchase Order Requirements ......................................................................... 30
   6.8. Project Purchase Order Approvals ................................................................... 30

7. Process Controls ....................................................................................................... 31
   7.1. Overview ........................................................................................................... 31
   7.2. Project Startup and Quality Control Coordination Meeting............................. 31
   7.3. Preparatory Project Quality Assurance/Quality Control Plan Planning .......... 31
   7.4. Weekly Quality Planning and Coordination Meetings ...................................... 32
   7.5. Process Control Standards .............................................................................. 32
   7.6. Daily Quality Control Report ......................................................................... 34
   7.7. Monthly Quality Control Report ..................................................................... 34

8. Inspections and Tests ............................................................................................... 35
   8.1. Overview .......................................................................................................... 35
   8.2. Required Work Task Quality Inspections and Tests ......................................... 35
   8.3. Material Inspections and Tests ........................................................................ 35
   8.4. Work in Process Inspections .......................................................................... 36
   8.5. Work Task Completion Inspections ................................................................ 36
   8.6. Inspection of Special Processes ...................................................................... 37
   8.7. Independent Measurement and Tests ............................................................... 37
   8.8. Commissioning Functional Acceptance Tests ................................................... 37
   8.9. Hold Points for Customer Inspection ............................................................... 37
   8.10. Quality Inspection and Test Specifications .................................................... 37
   8.11. Inspection and Test Acceptance Criteria ....................................................... 38
   8.12. Inspection and Test Status ............................................................................. 38
   8.13. Independent Quality Assurance Inspections ............................................... 38
   8.15. Project Completion and Closeout Inspection ................................................ 39

9. Nonconformances and Corrective Actions .............................................................. 41
   9.1. Overview .......................................................................................................... 41
5. PROJECT-SPECIFIC QUALITY STANDARDS

APPLICABLE REGULATIONS, INDUSTRY, and COMPANY STANDARDS

5.1. OVERVIEW

[CompanyName] personnel and subcontractors and suppliers are accountable for compliance to standards-based written specifications.

To achieve expectations reliably and consistently, specifications are clearly spelled out, not only for results but also for processes. Specifications apply to materials, work steps, qualified personnel and subcontractors and suppliers, safe work rules, and environmental work conditions.

Standards ensure that results are specified rather than left to discretionary practices.

5.2. REGULATORY CODES

All [CompanyName] construction activities comply with the relevant regulations. The Quality Manager identifies regulatory requirements applicable to the jurisdictions served, including:

- Applicable Federal regulations
- Applicable State regulations
- Applicable building codes and local addenda to building codes
- Applicable Fire Code
- Applicable Fuel and Gas Code
- Applicable Mechanical Code
- Applicable Plumbing Code
- Additional regulations specified by the customer contract

The Quality Manager identifies regulatory requirements that apply to a specific project on the Project Quality Assurance/Quality Control Plan.

The Superintendent had jobsite access to relevant codes and government regulations.

5.3. INDUSTRY QUALITY STANDARDS

All [CompanyName] construction activities comply with generally accepted good workmanship practices and industry standards.

The Quality Manager identifies supplemental requirements for industry standards that apply to a specific project on the Project Quality Assurance/Quality Control Plan when it is not otherwise specified by the contract, contract technical specifications, or approved drawings.
5.4. MATERIAL AND EQUIPMENT SPECIFICATIONS

The Quality Manager ensures that all types of materials and equipment that affect quality are identified and controlled.

The Quality Manager evaluates the expected use of materials and equipment and identifies types of materials and equipment that may affect project quality. For each item, the Quality Manager sets specifications for their intended use, including:

- Compliance to contract requirements
- Compliance to code and industry standards and listing requirements
- Structural integrity
- Performance
- Durability
- Appearance
- Product identification for traceability.

The Quality Manager identifies controlled material and equipment that apply to the project.

The Quality Manager ensures that purchase orders for listed materials and equipment include the relevant specifications as specified in section 6.7 Purchase Order Requirements.

Only approved materials are used in the construction process.

5.5. WORK PROCESS SPECIFICATIONS

The Quality Manager ensures that work processes are controlled to ensure that the specified requirements are met. When appropriate, the Quality Manager will specify project quality standards for work processes that may include:

- References to documented procedures such as manufacturer’s installation instructions
- Procedures for carrying out process steps
• Methods to monitor and control processes and characteristics
• Acceptability criteria for workmanship
• Tools, techniques and methods to be used to achieve the specified requirements.

5.6. CONTROLLED MATERIAL IDENTIFICATION AND TRACEABILITY

The Quality Manager determines types of project materials that require quality controls.

For each type of quality controlled material, the Quality Manager determines lot control traceability requirements, if any, and specifies the means of lot identification. Identification methods may include physical labels, tags, markings and/or attached certification documents.

When lot controlled materials are received, the Superintendent verifies that materials have the specified lot identifications.

The Superintendent maintains lot identification at all production phases from receipt, through production, installation, or assembly, to final completion. Acceptable methods for preserving lot identification include physically preserving observable lot identifications, recording the lot identification on a work task quality inspection form or other work record, or collecting the physical lot identifier as a record along with supplemented with location.

If lot controlled materials are without lot identification, the Superintendent deems the materials as nonconforming and segregates them and/or clearly marks them to prevent inadvertent use. The Superintendent treats the material according to the company policy for nonconformances. Only the Quality Manager can re-identify or re-certify the materials.

5.7. MEASURING DEVICE CONTROL AND CALIBRATION

The Quality Manager evaluates the project requirements and determines if there are measuring devices that require controls to assure quality results.

For each type of device the Quality Manager identifies:

• Restrictions for selection
• Limitations on use.
• Calibration requirements including the frequency of calibration. All calibrations must be traceable to national measurement standards.

When a measurement device is found not to conform to operating tolerances, the Quality Manager validates the accuracy of previous measurements.

5.8. [COMPANYNAME] QUALITY STANDARDS

[CompanyName] quality standards supplement contract requirements when they are necessary to ensure quality.

The Quality Manager identifies supplemental requirements for [CompanyName] Quality standards that apply to a specific project on the Project Quality Assurance/Quality Control Plan.

When [CompanyName] quality standards differ from industry standards or product manufacturer instructions, the Quality Manager justifies that the standard reliably achieves quality results and then documents the justification.

All [CompanyName] construction activities conform to the company quality standards.
5.9. **APPLICATION OF MULTIPLE SOURCES OF SPECIFICATIONS**

Should multiple sources of specifications apply to a work task, the higher level of specification applies. When there are equal levels of specifications that conflict, the specifications are applied in this order:

- Submittals approved by the customer
- Contract technical specifications
- Contract drawings
- Government regulations that exceed requirements of items below
- [CompanyName] quality specifications, including subcontract specifications
- [CompanyName] Quality Manual
- Product installation instructions
- Industry standards
- Generally accepted practices

Should multiple sources of conflicting specifications apply to a project, the Quality Manager defines the standards that apply to the specific project on the Project Quality Assurance/Quality Control Plan.
7. PROCESS CONTROLS
HOW WORK IS CARRIED OUT

7.1. OVERVIEW
The construction process plan defines how project work is to be done and approved for the overall project. The construction process plan is communicated to all key personnel, subcontractors and suppliers in a startup meeting. As the project proceeds, work task plans provide additional details of how each individual work task is carried out. Work tasks planning meetings are used to communicate expectations of the work task plan to key personnel responsible for carrying out the work task.

7.2. PROJECT STARTUP AND QUALITY CONTROL COORDINATION MEETING
Prior to the commencement of work, the Project Manager holds a meeting to discuss and coordinate how project work will be performed and controlled. Key personnel from [Company Name], subcontractors and suppliers meet to review expectations for project quality results as well as quality assurance and quality control policies and procedures including:

- Key requirements of the project
- The Project Quality Assurance/Quality Control Plan
- Required quality inspections and tests
- The project submittal schedule
- Quality policies and heightened awareness of critical quality requirements
- Project organization chart and job responsibilities
- Methods of communication and contact information
- Location of project documents and records

7.3. PREPARATORY PROJECT QUALITY ASSURANCE/QUALITY CONTROL PLAN PLANNING

7.3.1. WORK TASK REQUIREMENTS REVIEW
In preparation for the start of an upcoming work task, the Superintendent reviews an integrated and coordinated set of documents that collectively define quality requirements for the work task including:

- Objectives and acceptance criteria of the work task
- Quality standards that apply to the work task
- Work instructions, process steps, and product installation instructions that apply to the work task
- Shop drawings
- Submittals
- Tools and equipment necessary to perform the work
- License, certification, or other qualification requirements of personnel assigned to work
- Required records of the process and resulting product
- The subcontractor contracted to perform the work, if applicable
- Customer contract requirements
- Required quality inspections and tests
- Method for clearly marking nonconformances to prevent inadvertent use
- Location of quality system records and documents
- Personnel training
7.3.2. **Preparatory Site Inspection**

The Superintendent also performs a quality inspection of the work area and:

- Assesses completion of required prior work
- Verifies field measurements
- Assures availability and receiving quality inspection status of required materials
- Identifies any nonconformances to the requirements for the work task to begin
- Identifies potential problems

7.3.3. **Work Task Preparatory Quality Planning Meetings**

Prior to the start of a work task, the Superintendent conducts a meeting with key company, subcontractor personnel responsible for carrying out, supervising, or inspecting the work, and interested customer representatives.

During the meeting, the Superintendent communicates the work task quality requirements and reinforces heightened awareness for critical requirements. Topics for a work task quality plan meeting include:

- Conflicts that need resolution
- Required quality documents and a verification of availability to personnel carrying out, supervising, or inspecting the work task
- Record keeping requirements and the availability of necessary forms
- Review methods and sequences of installation
- Special details and conditions
- Standards of workmanship
- Heightened awareness of critical quality requirements
- Quality risks
- Work tasks quality inspection form

7.4. **Weekly Quality Planning and Coordination Meetings**

The Superintendent conducts a meeting with key company, subcontractor and supplier personnel responsible for carrying out, supervising, or inspecting the work, and interested customer representatives.

The meeting is held on a nominal weekly schedule. During the meeting, the Superintendent facilitates coordination among the participants, communication among the participants, and reinforces heightened awareness for critical requirements.

The Superintendent maintains a record of the meeting event on the Daily Quality Control Report.

7.5. **Process Control Standards**

7.5.1. **Job-ready Start Work Standards**

Work on a work task starts only when conditions do not adversely impact quality, comply with government regulations, contract technical specifications, industry standards, or product installation instructions.

The Quality Manager identifies supplemental start-work requirements that apply to a specific project when they are necessary to assure quality results.
7.5.2. **Work in Process Standards**

Work is conducted only when conditions do not adversely impact quality; comply with government regulations, contract technical specifications, industry standards, or product installation instructions.

The Quality Manager identifies supplemental work in process requirements that apply to a specific project when they are necessary to assure quality results.

7.5.3. **Protection of Completed Work Standards**

[CompanyName] will preserve and protect work in process, completed work, component parts, materials, and when applicable, delivery to the destination so as to maintain so that compliance with project requirements and standards. This includes handling, storage, protection from natural elements, and reducing risks of damage.

Completed work is protected from damage as specified by government regulations, contract technical specifications, industry standards, or product installation instructions.

The Quality Manager identifies supplemental protection requirements that apply to a specific project when they are necessary to assure quality results.

7.5.4. **Material Storage**

The Superintendent ensures all materials will be delivered, stored and handled in a manner that protects them from damage, moisture, dirt and intrusion of foreign materials.

Delivery of materials will be planned according to the work progress to minimize storage on site, where there are higher possibilities of damages and deterioration of materials.

Stored materials will be segregated to prevent cross contamination and limit losses should a delivery be rejected.

The Superintendent surveys stored materials during daily jobsite reviews and identifies any material that have incurred damage or otherwise become defective and therefore unfit for use.

7.5.5. **Controlled Use of Materials**

The Project Manager ensures that contracts and purchase orders are awarded only to outside organizations qualified to perform the work task and/or supply materials as required for the specific project.

Only approved materials are used in the construction process. Only approved materials are specified in purchase and/or subcontracts.

Materials that are defective, deteriorated, damaged, or not approved are not used. The Superintendent clearly marks such materials for non-use or otherwise holds them aside.

When customer-supplied materials are lost, damaged, or otherwise found unsuitable for use, the Superintendent reports such findings to the customer.

When subcontractor-supplied materials are damaged or otherwise found unsuitable for use, the Superintendent reports such findings to the subcontractor.
The Superintendent ensures that construction uses only materials specified in the contract technical specifications, contract drawings, and approved submittals. Substitutions are made only by agreement of the customer and documented by a change order (see section 2.1.3.6).

### 7.5.6. **CONTROLLED PRODUCT USE AND INSTALLATION**

[Company Name] construction activities conform to manufacturers’ product use and installation instructions that apply to the construction process.

When installing a product, the Superintendent has access to all applicable product installation instructions.

### 7.6. **DAILY QUALITY CONTROL REPORT**

The Superintendent records a summary of daily work activities. The report will include:

- Schedule Activities Completed
- General description of work activities in progress.
- Problems encountered, actions taken, problems, and delays
- Meetings held, participants, and decisions made
- Subcontractor and Supplier and Company Crews on site
- Visitors and purpose
- General Remarks
- Improvement Ideas
- Weather conditions

### 7.7. **MONTHLY QUALITY CONTROL REPORT**

When a monthly quality control report is required by the Project Quality Plan, the Superintendent records a monthly status report. The report includes:

- A summary of work completed and work in progress
- Outstanding issues
- Issues resolved during the reporting period
- Outstanding potential change orders
- Project status with current project costs and estimated completion date
- A cost analysis summarizing actual costs to date and estimated future costs
- Project pictures as appropriate
14. FORMS

[CompanyName] Controlled Materials Form ................................................................. 54
[CompanyName] Material Inspection and Receiving Report ............................................. 55
[CompanyName] Daily Production Report ....................................................................... 56
[CompanyName] Work Task Inspection Form .................................................................. 57
[CompanyName] Nonconformance Report ...................................................................... 58
# Material Inspection and Receiving Report

## Version 20150128

<table>
<thead>
<tr>
<th>Contract ID</th>
<th>Contract Name</th>
<th>Purchase Order No.</th>
<th>Supplier</th>
<th>Bill of Lading No.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ProjectNumber]</td>
<td>[ProjectName]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Stock/Part No.</th>
<th>Description</th>
<th>Quantity Received</th>
<th>Condition</th>
<th>Marking</th>
<th>Accept</th>
<th>Conditional Use</th>
<th>Reject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Receiving Quality Control

**ACCEPTANCE**

- Listed items have been accepted by me or under my supervision

- Conform to contract specifications EXCEPT as noted herein or on supporting documents.

- Received in apparent good condition EXCEPT as noted

Signature of authorized person and date: _______________________________

### EXCEPTIONS:

---

Questions? Call First Time Quality 410-451-8006

Select Pages
# List of Included Inspection Forms

## Reporting Forms
- QW-484B Welding Operator Performance Qualifications
- QW-484A Welding Operator Performance Qualifications
- QW-483 Procedure Qualification Records
- QW-483 Procedure Qualification Records Back
- P-4B Installed Mechanically Assembled Piping
- P-4A Fabricated Piping
- P-4A Fabricated Piping (Cont.)

## Metals
- Metal Decking
- Metal Railings
- Metal Stairs
- Structural Steel Framing

## HVAC
- Air Outlets and Inlets
- Air Terminal Units
- Breechings// Chimneys// and Stacks
- Central Cooling Equipment
- Commissioning of HVAC
- Cooling Towers
- Facility Fuel-Oil Piping
- Facility Fuel-Storage Tanks
- Facility Natural-Gas Piping
- Furnaces
- Heating Boilers
- HVAC Air Cleaning Devices
- HVAC Ducts and Casings
- HVAC Fans
- HVAC Insulation
- HVAC Piping and Pumps
- HVAC Water Treatment
- Indoor Central-Station Air-Handling Units
- Instrumentation and Control for HVAC
- Refrigerant Piping
- Testing// Adjusting// and Balancing for HVAC
[CompanyName]

Inspection Checklist Forms

Version: 20150128
## Inspection Checklist

### Table of Contents

- Heating//Ventilating// and Air Conditioning (HVAC) - Air Outlets and Inlets 23.37.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Air Terminal Units 23.36.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Breechings// Chimneys// and Stacks 23.51.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Central Cooling Equipment 23.60.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Commissioning of HVAC 23.08.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Cooling Towers 23.65.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Facility Fuel-Oil Piping 23.11.13
- Heating//Ventilating// and Air Conditioning (HVAC) - Facility Fuel-Storage Tanks 23.13.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Facility Natural-Gas Piping 23.11.23
- Heating//Ventilating// and Air Conditioning (HVAC) - Furnaces 23.54.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Heating Boilers 23.52.00
- Heating//Ventilating// and Air Conditioning (HVAC) - HVAC Air Cleaning Devices 23.40.00
- Heating//Ventilating// and Air Conditioning (HVAC) - HVAC Ducts and Casings 23.31.00
- Heating//Ventilating// and Air Conditioning (HVAC) - HVAC Fans 23.34.00
- Heating//Ventilating// and Air Conditioning (HVAC) - HVAC Insulation 23.07.00
- Heating//Ventilating// and Air Conditioning (HVAC) - HVAC Piping and Pumps 23.20.00
- Heating//Ventilating// and Air Conditioning (HVAC) - HVAC Water Treatment 23.25.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Indoor Central-Station Air-Handling Units 23.73.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Instrumentation and Control for HVAC 23.09.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Refrigerant Piping 23.23.00
- Heating//Ventilating// and Air Conditioning (HVAC) - Testing// Adjusting// and Balancing for HVAC 23.05.93

- Metals - Metal Decking 05.30.00
- Metals - Metal Railings 05.52.00
- Metals - Metal Stairs 05.51.00
- QW-484B Welding Operator Performance Qualifications
- QW-484A Welding Operator Performance Qualifications
- QW-483 Procedure Qualification Records
- QW-483 Procedure Qualification Records Back
- P-4B Installed Mechanically Assembled Piping
- P-4A Fabricated Piping
- P-4A Fabricated Piping (Cont.)
# Heating// Ventilating// and Air Conditioning (HVAC) - Air Outlets and Inlets

## 23.37.00

### Compliance Verification

- Compliance with initial job-ready requirements
- Compliance with material inspection and tests
- Compliance with work in process first article inspection requirements
- Compliance with work in process inspection requirements
- Compliance with Task completion inspection requirements
- Compliance with inspection and test plan
- Compliance with safety policies and procedures

Reported Nonconformances and incomplete items:

### FTQ  2TQ  Heightened Awareness Checkpoints

- Appearance of Air Outlets and Inlets approved by the ARCHITECT prior to ordering and installation
- Registers// grills// and diffusers are compatible with wall and ceiling systems
- Air Outlets and Inlets clean of dirt// dust// rubbish// and debris
- Air Outlet and Inlet connections to duct work is airtight
- Additional supports provided for registers// grills// and diffusers in drop-in ceiling tile systems
- Internal fans are mounted with vibration isolators
- Drive belts properly tensioned
- Ventilators installed with clearance for inspection and maintenance
- Gravity Ventilators installed level and plumb
- Ventilator mountings weatherproof

### FTQ Scores and Completion Sign-off

#### Field Mgmt.-91.45.01

<table>
<thead>
<tr>
<th>Quality</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>Notes:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>On-Time</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>Notes:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Safety</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>Notes:</th>
</tr>
</thead>
</table>

Sign and date*: Cell # / ID #: ____________________________  Signed: ____________________________  Date: ____________________________

Task has been verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.

### Quality Score

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>100% NO problems</td>
</tr>
<tr>
<td>4</td>
<td>1 minor problem</td>
</tr>
<tr>
<td>3</td>
<td>Hotspot or 2-3 minor</td>
</tr>
<tr>
<td>2</td>
<td>6+ or major problems</td>
</tr>
<tr>
<td>1</td>
<td>Excessive problems</td>
</tr>
</tbody>
</table>

### On-Time Score

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>On Time</td>
</tr>
<tr>
<td>4</td>
<td>Late</td>
</tr>
<tr>
<td>3</td>
<td>Late by 1 day</td>
</tr>
<tr>
<td>2</td>
<td>Late by 2 days</td>
</tr>
<tr>
<td>1</td>
<td>Late more than 2 days</td>
</tr>
</tbody>
</table>

### Safety Score

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>100% NO problems</td>
</tr>
<tr>
<td>4</td>
<td>1 minor problem</td>
</tr>
<tr>
<td>3</td>
<td>Hotspot or 2-3 minor</td>
</tr>
<tr>
<td>2</td>
<td>4+ or major problem</td>
</tr>
<tr>
<td>1</td>
<td>Injury</td>
</tr>
</tbody>
</table>

Copyright 2012 First Time Quality
## Metals - Metal Decking 05.30.00

### Compliance Verification

- Compliance with initial job-ready requirements
- Compliance with material inspection and tests
- Compliance with work in process first article inspection requirements
- Compliance with work in process inspection requirements
- Compliance with Task completion inspection requirements
- Compliance with inspection and test plan
- Compliance with safety policies and procedures

### Reported Nonconformances and incomplete items:

- Decking securely fastened to structural supports
- Deck units span 3 or more supports
- Shop applied primer and galvanizing intact and without blemishes
- Welded connections continuous, even, clean, and free of blow holes or other irregularities
- Ridge and valley plates provide tight fitting closures
- Spray-on fireproofing evenly applied and without gaps
- Sound absorbing filler material securely placed in webs/cells
- Concrete form decking free of deflection and movement
- Joints in raceway decking assemblies fully sealed
- Holes and openings for service and other projections are neatly fitted and free of rough edges

### FTQ Scores and Completion Sign-off

#### Field Mgmt.-91.45.01

<table>
<thead>
<tr>
<th></th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality</td>
<td>Notes:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On-Time</td>
<td>Notes:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>Notes:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sign and date*: Cell # / ID #: Signed: Date: 

Task has been verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.

---

**FTQ 2TQ Heightened Awareness Checkpoints**

- Decking securely fastened to structural supports
- Deck units span 3 or more supports
- Shop applied primer and galvanizing intact and without blemishes
- Welded connections continuous, even, clean, and free of blow holes or other irregularities
- Ridge and valley plates provide tight fitting closures
- Spray-on fireproofing evenly applied and without gaps
- Sound absorbing filler material securely placed in webs/cells
- Concrete form decking free of deflection and movement
- Joints in raceway decking assemblies fully sealed
- Holes and openings for service and other projections are neatly fitted and free of rough edges

---

**Quality Score**

- 5 = 100% NO problems
- 4 = 1 minor problem
- 3 = Hotspot or 2-3 minor
- 2 = 6+ or major problems
- 1 = Excessive problems

**On-Time Score**

- 5 = On Time
- 4 = Late
- 3 = Late by 1 day
- 2 = Late by 2 days
- 1 = Late more than 2 days

**Safety Score**

- 5 = 100% NO problems
- 4 = 1 minor problem
- 3 = Hotspot or 2-3 minor
- 2 = 4+ or major problem
- 1 = Injury

Copyright 2012 First Time Quality
# P-4A Fabricated Piping

**FORM P-4A MANUFACTURER’S DATA REPORT FOR FABRICATED PIPING**

As Required by the Provisions of the ASME Code Rules, Section I

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Manufactured by</td>
<td>Order No.</td>
<td>P-4A ID No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Name and address of manufacturer)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Manufactured for</td>
<td>Order No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Name and address of purchaser)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Location of installation</td>
<td>Boiler Registration No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Identification</td>
<td>Piping Registration No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Main steam, boiler feed, blow-off, or other service piping — state which)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Design Conditions of Piping</td>
<td>Specified by</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Pressure)</td>
<td>(Temperature)</td>
<td>(Name of Co.)</td>
<td></td>
</tr>
<tr>
<td>Code Design by</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. The chemical and physical properties of all piping meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The construction and workmanship conform to Section I of the ASME Boiler and Pressure Vessel Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Addenda to</td>
<td>if applicable, and Code Cases</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Date)</td>
<td>(Number)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Description of Piping (include material identifications by ASME specification or other recognized Code designation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Shop Hydrostatic Test</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Remarks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CERTIFICATE OF SHOP COMPLIANCE**

We certify the statement in this data report to be correct and that all details of design, material, construction, and workmanship of the described piping conform to Section I of the ASME Boiler and Pressure Vessel Code.

Our Certificate of Authorization No. to use the (SI) or (PP) Designator Expires .

Date (mm/dd/yyyy) Signed by (Manufacturer or Fabricator) (Authorized Representative)

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by have inspected the piping described in this Manufacturer’s Data Report and state that, to the best of my knowledge and belief the manufacturer has constructed this piping in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date (mm/dd/yyyy) Commission (National Board Commission Number and Endorsement)

(07/11)
For More Information:
Contact: Ed Caldeira
410-451-8006
www.firsttimequality.com
EdC@FirstTimeQuality.com