

# The Air Preheater Company Quality System

The Quality System Manager is responsible for maintaining a documented quality system as a means of ensuring that our products and services meet specified requirements.

The Air Preheater Company, Wellsville NY location has been ISO9001 certified since December 1994.



## Quality System Activities

- Internal Audits for compliance to procedures and processes
- Document Control – issue and control quality system manuals
- Corrective Action
- Customer Complaints
- Problem Analysis

## Quality Assurance Activities

- Audit suppliers of production material
- Review contract requirements for special control resources and skills that may be needed to achieve the required quality
- Review drawings for compliance with contract specifications
- Review purchase requirements for contract compliance
- Review manufacturing plan to ensure contract and internal quality is achieved
- Welder qualifications and weld procedures for compliance to ASME Boiler & Pressure Vessel Code

## Quality Control Activities

- Source Inspection
- Receiving Inspection
- In-Process Inspection
- First Piece Inspection
- Hold Points
- Final Inspection
- Maintains Staff of Qualified Inspectors
  - ASNT – Structured Program
  - AWS – CWI
- NDT Capabilities
  - Radiography
  - Ultrasonic
  - Magnetic Particle
  - Liquid Penetrant
  - Leak Testing

## Weld Process Capabilities

SMAW Shield Metal Arc (Stick)  
SAW Submerged Arc (Subarc)  
GMAW Gas Metal Arc (Mig)  
GTAW Gas Tungsten Arc (Tig)  
FCAW Flux Cored Arc  
ALUM Aluminum (GMAW or GTAW)  
ESW Electroslag

## Common Abbreviations

AI	Authorized Inspector
CCRP	Customer Complaint Resolution Process
CWI	Certified Welding Inspector
DSM	Debit & Shipping Memo
EIC	Examination & Inspection Checklist
ITR	Inspection Test Report
MDR	Manufacturer's Data Report
MNR	Material Nonconformance Report
MPP	Manufacturing Process Procedure
MSDS	Material Safety Data Sheets
MT	Magnetic Particle Testing
MTR	Material Test Report
NDE/T	Non-Destructive Exam/Test
PQR	Procedure Qualification Record
PT	Liquid Penetrant Testing
PWHT	Post Weld Heat Treat
QA	Quality Assurance
QC	Quality Control
QCF	Quality Control Form
QCP	Quality Control Procedure
QCR	Quality Control Report
RMA	Returned Material Authorization
RT	Radiographic Testing (X-Ray)
UT	Ultrasonic Testing
WCP	Welding Control Procedure
WPQ	Welder Performance Qualification
WPS	Weld Procedure Specification

## Reference Standards

AISC	American Institute of Steel Construction
ASME	American Society of Mechanical Engineers
ASNT	American Society of Nondestructive Testing
ASTM	American Society for Testing & Materials
AWS	American Welding Society
NEC	national Electric Code
NIST	National Institute of Standards & Technology
SAE	Society of Automotive Engineers
SSPC	Steel Structures Painting Council
ISO9000	A Global Standard for Quality
ISO9001	A model for Quality Assurance in Design, Development, Production, Installation & Service

Quality is commitment to customer requirements...today and tomorrow.

# ALSTOM

**Power Environment**  
Air Preheater Company

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