

QUALITY MANUAL

G&G FABRICATING, INC.

1314 N. Wheeling Ave.

Tulsa, OK 74110



Distribution:

Position	Location	Copy #
President / CEO	Office	1
Operations Manager	Office	2
Quality Assurance	Office	3
Quality Inspector	Office	4

*The controlled version of the manual will be stored at This PC:\Documents\G&G Quality Manual

This quality manual has been approved by:

F. Carter Glidewell &
Douglass R. Garrett, Owners

Changes or revisions to the quality manual will be reviewed and authorized by either Owner who approves the quality manual.

Revision Date	Approved By	Brief Description of Change
10/24/18	F. Carter Glidewell & Douglass R. Garrett	Original issue

1. Purpose..... 3

2. Scope..... 3

3. References..... 3

4. Definitions..... 3

5. Management Responsibility..... 4

6. Contract and Project Specification Review and Communication..... 7

7. Detailing..... 8

8. Document and Data Control..... 10

9. Control of Quality Records..... 13

10. Purchasing..... 14

11. Material Identification..... 15

12. Fabrication Process Control..... 17

13. Inspection and Testing..... 18

14. Calibration of Inspection, Measuring and Test Equipment..... 20

15. Control of Nonconformances..... 21

16. Corrective Action..... 22

17. Handling, Storage and Delivery of Product and Materials..... .23

18. Training..... .24

Purpose

The purpose of this manual is to outline the criteria within G&G Fabricating (“G&G F”), Inc. to meet the American Institute of Steel Construction (AISC) certification.

Scope

It allows customers and outside functions a means to understand G&G Fabricating, Inc.’s Quality Management System, when such a system is required in full or in a segmented approach as required by the customer and project.

References

G&G Fabricating, Inc. has made every effort to have the applicable reference documents, standards, codes, or other applicable documents readily accessible to the individuals who need them. G&G Fabricating, Inc. has also made every effort to assure that these references are both current and meet the requirements of customer contracts. References utilized are in 7.2.1 of this manual.

Definitions

G&G Fabricating, Inc. has made every effort to emulate the definitions as outlined by AISC’s Building Certification Standard. Any definitions which are unique to the Corporation will be listed below as determined necessary.

Management Responsibility

G&G Fabricating, Inc.'s executive management is responsible for developing a commitment to quality, directing the corporation to achieve that quality, providing personnel and resources as applicable, and overseeing the Quality Management System to comply with its quality directives.

Commitment (Policy)

G&G Fabricating, Inc. has established and implemented a company policy with respect to quality.

Policy Statement – “G&G F’s” policy is to produce steel components in an effort to achieve customer contracts with the fewest possible errors, and to maintain a commitment to the satisfaction of customer requirements.

This policy statement is disseminated to personnel affecting quality by displaying it throughout the facility. The target is to ensure that personnel are aware of the company's commitment to quality.

Direction and Leadership

“G&G F” recognizes that effective leadership begins at the top with the executive management. Their commitment to the highest quality standards is made evident to the people who report directly to them. These people in turn carry on that leadership to the people reporting to them and so on all the way to the personnel on the shop floor. This commitment to quality applies equally to all personnel regardless of the position they hold within the company.

To demonstrate the effectiveness of the program, executive management evaluates the established goals as outlined in the quality policy. These goals will be evaluated according to a predetermined schedule, which will determine the current level versus the desired outcome. Based on the goal or the data utilized by executive management, the demonstrated plan can take any form, such as a trend chart, computer printouts, pictorial diagrams, or any means which executive management determines is best applicable.

The quality management system is reviewed annually by executive management to ensure its continuing adequacy and effectiveness. Changes or additions to the system are made in accordance with a perceived opportunity for improvement in attaining customer satisfaction. Records of management reviews are maintained in a Quality Management System Review Log (QForm 5.2), and include such information as: audit results, customer feedback, and information from previous management review (outputs) which include product conformity reports and improvement of product quality and resources needed.

Management Representative

The Quality Manager of G&G Fabricating, Inc. is responsible for ensuring that procedures are established, implemented and maintained for the quality management system. These procedures should be in accordance with the AISC Standards of Certification for Steel Building Structures.

The Quality Manager submits a written, annual report to executive management on the performance of the quality management system and any need for change or improvement. The report is reviewed by executive management who determine whether it is in the company's best interest to act on the Owners recommendations for improvement. All improvements are implemented to reduce the occurrence of nonconformities.

Resources

Executive management provides the resources necessary to achieve conformity to contract specifications. Such resources include personnel, work space equipped with appropriate utilities, and equipment.

Product evaluations and internal audits are conducted to ensure that resources remain adequate to produce quality product.

5.4.1. Personnel

Minimum qualifications exist for all personnel. The personnel responsible for the performance of work affecting quality, and their interrelationship with other employees within the corporation are defined.

Annual performance reviews are conducted by the shop foreman to ensure that the qualifications of the personnel performing specific duties are concurrent with changing job requirements. On-the-job training is employed for those individuals whose job functions are enhanced to ensure that all employees have a thorough understanding of and ability to perform their specific job requirements.

5.4.2. Buildings, Workspace and Associated Utilities

G&G Fabricating, Inc. has adequate workspace within their buildings to provide the amount of space necessary to produce quality product. There is ample space provided for administration, as well as shop functions such as fitting, bolting, welding, painting etc. Areas suitable for the storage and shipping of materials are also provided.

5.4.3. Process Equipment (both hardware and software)

G&G Fabricating, Inc. provides adequate equipment to produce quality product and the maintenance of corresponding records. Such equipment includes shop machinery, as well as computers with appropriate software to maintain adequate records of equipment, products, processes, production schedules and personnel.

Equipment is tested periodically and repaired or updated whenever the need arises. Equipment is maintained to ensure conformance to the manufacturer's standards.

Internal Communication

Executive management has established internal communications procedures to ensure that any and all information regarding the quality management system's standards and processes reach all individuals within the corporation whose job functions directly impact product quality. Such communication may take the form of written policies and procedures, postings in relevant areas of the shop floor, emails, and/or verbal instruction or commentary during department meetings.

Documentation Requirements

5.6.1. General Requirements

G&G Fabricating, Inc.'s Quality Management System consists of documentation conducive to the production of a quality product. Such documentation provides a written policy statement with stated goals and objectives, written procedures and corresponding quality records, and a written quality manual.

5.6.4. Approval

G&G Fabricating, Inc.'s Quality Manual is approved by the Chief Executive Officer of the Corporation. All changes to any of the documents contained in the manual are approved first by the Shop Foreman and then submitted to the Chief Executive Officer for his approval and signature.

Contract and Project Specification Review and Communication

G&G Fabricating, Inc. implements a system for contract and project specification review. All contracts and project specifications are reviewed when they are received to determine the resources necessary to fulfill the contract requirements. The specific project requirements are recorded and distributed to the appropriate personnel for planning and implementation. Once it is determined that the resources and technology exist to complete the order, the purchase order is signed by one of the Owners and forwarded

to the Shop Foreman for planning and implementation of the project. A schedule is then developed for the implementation and completion of the ordered project.

Any changes or modifications to the original contract are sent through the Shop Foreman where they are reviewed and signed by the Owner. Any considerations or changes to the contract specifications will take into consideration the functions of:

- ⑩ Quality review by the Shop Foreman
- ⑩ Bidding
- ⑩ Owners
- ⑩ Fabrication Process

All contracts that have been accepted for work, are maintained in the Company Files.

Detailing

Detailing Procedures

7.1.1. Preparation of Shop Drawings and Erection Drawings

When required, G&G Fabricating, Inc. implements a system which explains how shop and erection drawings are developed and produced. These drawings incorporate project specifications, codes and customer requirements, and ensure that they are following the relevant AISC Standards. The system also identifies how information is tracked and communication with the customer is maintained via RFI's (Requests for Information), as well as construction change documents.

7.1.2. Detailing Standards

G&G Fabricating, Inc. utilizes detailing standards which describe "G&G F"'s preferred methods for the selection of material and the means to identify how holes, fasteners, washers, cuts and copes, etc. are listed on the print. The Standards also include how mill order lists are prepared, which include sizes, appropriate ASTM specification references, special ordering information, whether there are any allowances or tolerances, and any special instructions necessary to fabricate and erect the project.

7.1.3. Checking of Shop and Erection Drawings

All shop and erection drawings are checked by the Shop Foreman to ensure compliance with contract specifications. He then signs the drawing and releases the drawing for fabrication.

For computer-generated shop drawings, calculation formulas and other variables are checked to ensure the accuracy of the software. The software will be checked and documented (when required) by the Shop Foreman verifying that the check was made and what specific components were checked will be kept by the detailing manager.

Any subcontracted detailing packages that are received will be checked to ensure that:

- ⑩ Print layouts comply to GW&F's corporate requirements;
- ⑩ Bill of Materials are included;
- ⑩ Drawings have identification as to who drew the print and who checked it;
- ⑩ A sampling (based on project) will be taken of the prints and a cursory review of the dimensions and pictorial layout will be conducted for constructability.

7.1.4. Customer Approval of Shop Drawings

Shop drawings released for fabrication are first approved by the customer. All drawings contain the written signature of the customer or authorized representative approving the drawings before the drawing is logged into the Shop and Erection Drawing Log Book and released for fabrication. This is applicable whether the drawing is done in-house or by a subcontractor.

If the customer elects to waive approval of the drawings, a request to the customer will be made to document this waiver in writing.

Detailing Function Resources

7.2.1. References (required library)

G&G Fabricating, Inc. maintains the following references within their library to educate applicable company personnel as to the pertinent codes and specifications required for the work to be performed:

- ⑩ *Selected ASTM Standards for Structural Steel Fabrication*
- ⑩ *AISC Construction Manual* which include the following specifications and codes:

- ⑩ Specification for Structural Steel Buildings
- ⑩ Specification for Structural Joints Using ASTM A325 or A490 Bolts
- ⑩ AISC Code of Standard Practice for Steel Buildings and Bridges
- ⑩ *ANSI/AWS D1.1 Structural Welding Code – Steel*
- ⑩ *ANSI/AWS A2.4 Symbols*
- ⑩ *ANSI/AWS A3.0 Terms and Definitions*

7.2.2. Personnel

G&G Fabricating, Inc. employs an Shop Foreman who is responsible for ensuring that all detailing functions are carried out according to the specifications of the AISC Standard for Structural Steel Buildings and customer contract requirements.

1. 7.2.3. Detailing Management

The Shop Foreman oversees the production of shop and erection drawings. His responsibilities include coordinating with production schedules, transmitting contract requirements to designers, developing drafting standards and detailing procedures, coordinating and incorporating fabrication requirements, and the training of detailers and checkers.

To fulfill these job requirements, the Shop Foreman is required to have training and experience in the area of structural steel fabrication, including detailing and checking shop and erection drawings, steel design and connection design, and coordinating customer requirements for a variety of structures and services that the corporation provides.

G&G Fabricating, Inc. will verify the competence of the Shop Foreman through review of his resume, work history and/or experience documented in his personnel folder.

2. 7.2.4. Detailing Functions

Detailers and checkers responsible for the inspection of shop and erection drawings require experience and/or training in the corporation's typical project drawings. They report to the Shop Foreman. All shop drawings are checked for compliance to company and customer contract requirements.

Detailers and checkers in training work under the direct supervision of the Shop Foreman, to assure compliance to the strict quality standards and requirements of the corporation, or customer contract.

3. 7.2.5. Connection Consultation

Personnel who supervise detailers performing connection detailing are required to have one or more of the following qualification:

- ⑩ experienced in sizing connections and the detailing and checking of shop and erection drawings for steel structures;

G&G Fabricating, Inc. may utilize subcontract services for detailing, connection consultation, checking of shop and erection drawings, and the training of detailers and checkers. The Shop Foreman ensures that all subcontract services utilized by the Corporation are qualified according to AISC certification criteria and have knowledge of the Corporation's specifications for producing quality products.

The Shop Foreman also ensures that customer contract requirements are communicated to subcontract services to assure compliance to all contract specifications.

4. 7.2.6. Customer Supplied Shop Drawings

G&G Fabricating, Inc. implements a system for documenting the receipt, revision and control of customer supplied shop drawings. Shop drawings received from the customer are maintained by the Shop Foreman. Such information includes the customer name, the date the drawing was received, along with the latest approval, revisions and dispositions.

Document and Data Control

G&G Fabricating, Inc. implements a system for the control of documents and data affecting quality. Such documents and data include the Quality Manual, contract documents, shop, and erection drawings, documented procedures required by the Standard, and all documents and data affecting quality.

Review and Approval

The Shop Foreman reviews and approves all documents affecting quality. Revisions to the Quality Manual and other quality management system documents are reviewed, approved and signed by the Chief Executive Officer of the corporation prior to implementation. All quality documents, including the Quality Manual are reviewed annually and updated as required.

Customer Requirements

The Shop Foreman receives and documents customer requirements and contract changes as they occur throughout the production process. This includes the receipt, approval, and distribution of original and revised shop and erections drawings to the appropriate departments and personnel within the corporation, as well as to all subcontractors and/or suppliers as required.

Revision Control

The Shop Foreman ensures that all implementing documents within the Quality Manual have a cover page which contains the document's date of origin, a current revision date, and an approval signature. The Shop Foreman maintains a master list of all changes and revisions, both electronically and in a hard copy format, to ensure that the most current revisions are utilized. This list is distributed to all quality personnel, as well as shop leads. This is also applicable for contract revisions and job specifications. All current documents are readily accessible and maintained within the QA department of the shop to avoid the use of obsolete procedures in the production process.

Access

The Shop Foreman ensures that the most current policies, procedures, and contract revisions are distributed to the appropriate personnel within each department. Welding Leads ensure that all documents relevant to specific areas of operation are accessible to applicable personnel within that area who are responsible for performing work affecting product quality.

Obsolescence and Transmittal

All controlled documents under the Shop Foreman's care and control that are obsolete are marked, segregated and removed from the work area to prevent their inadvertent use within the production process.

All projects have prints issued to the shop floor, the number of which varies according to the complexity of the project requirements. The number of sets issued to the shop for each project is recorded in a log within the Owner's office (QForm 8.5). Once a drawing is considered obsolete, all copies of that drawing are collected from the appropriate areas and compared to the number written in the log to ensure that all obsolete copies have been collected.

When transferring quality sensitive documents between "G&G F" and outside parties (i.e. the customer, contractors, coordination with other trades, subcontractors, etc.) a transmittal (QForm 8.5.1) will accompany the documents. A copy of the transmittal will be placed in the Project's Correspondence file.

Control of Quality Records

G&G Fabricating, Inc. implements a system for the identification, collection, storage, maintenance, retention and disposition of quality records.

Quality assurance records shall be generated and completed in accordance with the customer's contract, drawings and specifications. A quality control representative shall collect all job records, review the records for completeness, legibility and identification. Corrections to records shall be accomplished by line-through, initial and date of entry. Records shall not contain correction fluid. All quality records are stored at "G&G F" in a way that prevents damage, deterioration or loss. They are labeled for easy identification and retrievability. Retention times are established and recorded for records retained for any purpose. The retention periods will be at least long enough to permit evaluation of the records during the project. Records will be transmitted to the owner in accordance with the contract.

Logs of quality records are maintained by the Owners and includes the name of the document, the date of issuance, the retention period and the date of destruction (if applicable). These logs are reviewed and updated annually for accuracy.

Records that document quality typically include:

- ⑩ inspection records
- ⑩ NDT reports
- ⑩ drawing logs
- ⑩ MTR's (Material Test Reports)
- ⑩ CofC's (Certificates of Compliance/Conformance)
- ⑩ design changes
- ⑩ RFI's (Requests for Information)
- ⑩ mill and consumable purchase orders
- ⑩ records or summaries of nonconformance reports
- ⑩ corrective action reports
- ⑩ internal and external quality management system audits

Purchasing

G&G Fabricating, Inc. implements a system to ensure that purchased products, subcontractors, materials and services conform to project requirements. Purchase orders, records of the qualification

of subcontractors and suppliers, and records of the periodic evaluation of suppliers are maintained within the CEO's office.

Selection of Subcontractors and Suppliers

Subcontractors and suppliers are evaluated annually by conducting an audit or through documented experience of providing similar products or services (QForm 10.2).

The Owner's and Shop Foreman selects subcontractors and suppliers on the basis of their ability to meet subcontract requirements, the "G&G F"'s quality management system, the requirements of the AISC Standard, project requirements and any specific inspection requirements. The subcontractor shall have the required level of AISC Certification on projects that require such certification. Otherwise, use of a non-AISC certified subcontractor must be approved (in writing) from the Customer or Engineer of Record. At a minimum, subcontractors must deliver finished products of high quality in a timely and appropriate manner.

Verification of Purchased Product, Materials and Services

The Shop Foreman ensures inspection of all incoming product and material to ensure that it conforms to the purchase order, as well as to project requirements. When required by the project, test reports, certificates of compliance and other evidence of quality control are kept on file in the Owner's office.

Customer Verification of Fabricated Product

The customer sometimes requests the right to verify the conformance of the final product to the project requirements at the corporation. This is typically documented in the contract drawn up before the actual project work begins. This verification can include anything from hands-on involvement, observation or audit. G&G Fabricating, Inc. cooperates with the customer fully in this regard.

Control of Customer-Supplied Material

If materials are supplied by the customer, the Shop Foreman is responsible for ensuring that the material is stored and maintained properly to avoid loss, damage or misuse of the material. All customer-supplied material is inspected to ensure that the material is appropriate for the intended project and meets the quality requirements. Any material non-conformance or loss, damage or misuse of the material is recorded and reported to the customer.

Material Identification

G&G Fabricating, Inc. implements a system for identification of material. This system adheres to the guidelines stated in the AISC *Code of Standard Practice* and contract documents. This system also provides a method for material traceability when invoked by contract. At a minimum, material identification is maintained until the first fabrication operation when our project numbering system takes over. It is documented for materials furnished to ASTM specifications include the information required in the "Order Information" section of the ASTM Standard.

"G&G F" retains test reports, manufacturers' test reports, and certificates of conformance for base materials, bolts, welding consumables and coatings for one year past project completion. All materials used in the production process are identified with a "G&G F" project number. Our system provides the ability to associate a report provided by our supplier with our order using project numbers. Our system also describes a method to provide full, specific traceability when required by contract. The purchasing manager is responsible to invoke the appropriate level of control for each order and each contract.

11.1 Receiving Inspection

Upon receipt of purchased material, the Shop Foreman will:

Compare the material and documentation to the purchase order, ensuring that it is the proper material and that all required documentation is present.

Compare the certifications to the purchase order and applicable specifications. The receiving inspector will place a check mark beside each specification requirement on the certification as it is verified.

11.1.1. Release or Dis-positioning of Material

Conforming - When a lot of material is found to be totally conforming, the Shop Foreman will sign and date the receiving report, tag or segregate material, then send P.O. and accompanying documentation to QM for filing.

Nonconforming - When a lot of material is found to be nonconforming it will be identified, segregated and dis-positioned in accordance with Section #15

11.1.2. Material Storage

Upon release of material, all material will be identified and stored. The lot or batch number will be traceable to all material or parts. Lots of material will not be mixed in individual bins, boxes, or containers. Material will be stored in the environment required by the customer or specification.

11.2 Acquisition and Receiving Customer Furnished Material (CFM)

Upon receipt, we will review and examine the CFM for: transit damage, completeness and proper type to drawings, contract data, etc. for proper identification and quantity. The Shop Foreman will report any discrepancies, who will notify the appropriate customer authority.

Transit Damage - Any shipping damage will be noted and described in detail (including photographs and sketches). Any transit damage will be reported to the Shop Foreman.

Completeness and Proper Type - Visual inspection of any components and comparison of certifications to material and test specification will be performed to ensure that the CFM meets the requirements of the drawing or contract. Any non-conformance will be reported to the Shop Foreman.

11.2.1. Internal Control

Upon receipt of materials from receiving inspection, "G&G F" will identify and store all materials ensuring segregation from any and all like material. Customer furnished material will be identified and controlled through the process by use of standard travelers.

11.2.2. Utilization

CFM will be used only for the purpose authorized by the contract or purchase order. Any other usage will be with written authority from the customers contracting authority.

In the event of shortage, loss, damage, deterioration, or excess to requirements, the appropriate customer authorities will be notified as soon as the condition occurs or is discovered.

CFM will not be altered in any manner without prior written approval from the proper customer authority.

Upon completion of a contract all relative CFM will be inventoried, cleaned, and protected in accordance with contract documents.

At contract completion and when CFM is no longer required, the Shop Foreman will notify the appropriate customer authority and request disposition instructions.

Fabrication Process Control

G&G Fabricating, Inc. has established and implemented documented procedures (OP 12 rev 0) necessary to produce a finished product with a quality level that meets the requirements of the codes and specifications set forth in the *AISC Standard for Steel Building Structures*. This

includes any “special procedures” that might be performed during the production process. At a minimum, effective implementation of the following procedures is required.

Welding

When code welding is required, an evaluation of existing welding procedures will be performed by the Quality Manager or Shop Foreman to determine which procedure(s) will be applicable to the project. If it is determined that an additional procedure is required, it shall be developed and qualified in accordance with the applicable code/customer specification.

Material Preparation for Application of Coatings

“G&G F” subcontracts the services associated with coating preparation and application.

Equipment Maintenance

“G&G F” implements a documented preventative maintenance program for equipment critical to product quality (Qform 12.3). This includes maintenance of welding machines in accordance with manufacturer’s recommendations.

Inspection and Testing

G&G Fabricating, Inc. implements a program for inspection and testing of material and services to ensure that the product quality meets the project requirements. The Shop Foreman is responsible for inspections at various intervals during the production process, depending on the complexity of the project. When required, these inspections may be subcontracted to an outside agency. The level and frequency of inspections will be as directed by the contract documents but may be increased at any time if it is determined that the required level of quality is not being met. The inspection program includes incoming materials, in-process and final inspection of all product furnished to a project. Records of such inspections are compiled and maintained in the CEO's office.

Assignment of QC Inspections and Monitoring

Qualification Standards and Certifications granted by recognized industry organizations related to structural steel fabrication can be used to establish a basis for the assignment of Quality Control inspectors.

Quality Control inspectors are required to be trained in proper inspection methods and acceptance criteria specified for the material they are inspecting. They are aware of their responsibilities and are given time to perform their inspection responsibilities. Their inspections are monitored by qualified QC personnel. Quality Control inspectors do not inspect their own work.

Production personnel may be assigned to QC inspection duties under the following conditions:

*They shall be trained in both knowledge and practice in proper inspection methods and acceptance criteria specified for the material they are inspecting. *Their inspections are monitored by qualified QC personnel.

Inspection Program

The Inspection Program at G&G Fabricating, Inc. includes provisions for the following:

13.2.1 Material Receipt Inspection

Materials received are compared to the purchase order requirements. The person receiving the incoming product checks the material, required documentation, grade and quantity and looks for visible signs of shipping damage. Shapes and plates are also inspected for obvious deviations from the requirements of purchase order specifications.

13.2.2 In-Process Inspection

In-process inspections are conducted to ensure that project processes are compliant with specified requirements and inspection acceptance criteria. Materials are inspected for specification and grade, workmanship and tolerances using appropriate codes, standards, or a documented plan before production begins. Compliance with documented bolting procedures, WPS's, preheats and welder qualifications are monitored. Production personnel inspect each product or subassembly before sending it to the next level in the production process.

The Shop Foreman performs the final inspection of products after the fitting, welding and coating operations, but prior to delivery of the finished product. These inspectors are specifically trained to perform these inspections. Any nonconformity discovered during the final inspection process is documented and processed according to the non-conformance procedure (Ref. Section #15).

13.2.3. Inspection Records

All inspection records, whether incoming, in-process, or final, are maintained in a file in the CEO's office. Inspections by production personnel are verifiable until the final inspection of the product.

Calibration of Inspection, Measuring and Test Equipment

G&G Fabricating, Inc. implements a program to calibrate and maintain inspection, measuring and test equipment used to determine the conformance of product to the specified requirements of the quality system. Such calibration is a subcontracted service and is done using equipment certified to an

internationally or nationally recognized standard. Where such standards do not exist, the basis used for calibration is documented.

Calibration of inspection, measuring and test equipment is performed annually to ensure continuing conformance to the standards set within the Quality Management System. The Shop Foreman is responsible for maintaining all calibration records. Such records will include a description of the equipment, manufacturer, serial number, date of calibration, date when next calibration is due and the inspector's name (Qform 14.0).

Inspection, measuring and test equipment is stored in a locked room, free from dust, excessive temperature variations, or other environmental influences which may affect the accuracy or fitness for use.

Calibrated equipment is identified with a special tag which contains the date the last calibration was performed. This prevents the inadvertent use of equipment that is not calibrated, when such calibration is required. Any equipment that is out of balance, damaged, or is not functioning properly is immediately removed from service pending an investigation to determine its potential impact on the product. The investigation, results and corrective action are documented on a Non-conformance Report which is also maintained in the CEO's office. The malfunctioning equipment is tagged with an "Out of Service" sticker and/or segregated to prevent its accidental use.

Control of Nonconformance

G&G Fabricating, Inc. has a written procedure (OP 15.0) which prevents product that does not conform to the specified requirements of the quality management system from being used in the production process. When such nonconforming product is identified, it is immediately segregated, documented and tagged as nonconforming to prevent its accidental use in the production process. The product is then inspected to determine whether it should be reworked, repaired, or disposed of.

In some cases, after further inspection and testing, the product can be used as is, depending on the nature of the non-conformance. If the non-conformance directly impacts the customer, the customer is informed, and they can then determine whether or not to approve the product for use. If the nonconforming product is approved for use by the customer, such approval is documented, and a record retained in the NCR file.

Detailed records are kept of all non-conformance and stored in the CEO's office. Such records include the nature of the non-conformance, what, if any, follow-up inspection and testing is conducted, and the resulting disposition of the product.

Corrective Action

G&G Fabricating, Inc. has a written procedure (OP 16.0) for the initiation of a corrective action. A corrective action is defined as any action taken to eliminate the causes of non-conformance. The determination as to whether to issue a corrective action depends upon the degree to which a nonconformance jeopardizes the production of a quality product.

A corrective action is issued after periodic reviews of records or internal and external quality audit reports determine critical nonconformity to quality standards. Once a corrective action report is generated, quality management personnel determine and implement a course of action to take to correct the noted nonconformity. Periodic reviews are then conducted to ensure the corrective action is being performed and is effective.

Corrective Action Reports (CARs) are documented and maintained in a Corrective Action Report File located in the CEO's office.

Handling, Storage and Delivery of Product and Materials

G&G Fabricating, Inc. has developed a means of handling, storing and delivering products and materials. Material is stored, handled and shipped in such a way as to avoid damage and deterioration. Material is also labeled for easy identification on shipping documents and potential traceability.

If a shipping agreement exists between G&G Fabricating, Inc. and the customer or the subcontractor, material is packaged and shipped in compliance with the agreement. This may include delivery sequencing that complies with the customer's needs. When applicable, shipments by subcontractors are coordinated and monitored for compliance with shipping instructions.

Training

G&G Fabricating, Inc. has developed a means to ensure that personnel responsible for the quality of products and services receive initial and periodic training in their specific job functions. Periodic training may occur whenever there is a change in their specific duties or a procedural change in a job is implemented. Such personnel include operators (welders, machinists, etc.), inspection personnel, receiving personnel, dealers, purchasing agents, shop supervisors, and management personnel. This training ensures that the individual possesses the understanding necessary to perform the functions of their job in an efficient and productive manner. Training results for these personnel are documented and reviewed on a periodic basis to ensure compliance to job qualification specifications.

Personnel receive training whenever changes to the requirements of their assigned job function occur. Such training is documented and maintained in their individual personnel files located in the CEO's office.