PANELMATIC

Designers & Manufacturers of Custom Built Electrical and Instrument Panels

QUALITY SYSTEM MANUAL

Effective for the Following Locations:

PANELMATIC CINCINNATI INC.

PANELMATIC EAST INC.

PANELMATIC GREENVILLE INC.

PANELMATIC ST. LOUIS INC.

PANELMATIC TEXAS INC.

PANELMATIC YOUNGSTOWN INC.

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SCOPE

This manual is Panelmatic Inc.'s description of our quality management system (QMS). It provides a description of the philosophy of quality and a structure from which all other actions will be accomplished in regard to the quality of our product offerings to the markets that we serve. This document alone does not guarantee an effective QMS. However, our people interacting with quality concepts and methods provide a dynamic system of quality, founded on striving to continually improve the way we do business.

The concepts herein are practical ideas and explanations of how Panelmatic Inc. manages quality. The practical implementation is contained in site-specific Tier II and III procedures, guidelines and/or work instructions. The Quality Procedures Manual (QPM) is our proprietary approach to implementing the concepts of this Quality Manual.

The President of Panelmatic Inc. approves all concepts and principles in this manual. Overall responsibility for effective implementation of the QMS is assigned to the Panelmatic Inc. Quality Assurance Manager.

While this manual is generally considered to be a "Corporate" document, references made to planning activities, objectives and management review are understood as pertaining to and are the responsibility of the individual subsidiary sites.

Our approach to quality is to continually make improvements so that we can fulfill and exceed our customers' expectations.

July 1, 2013

Richard P. Leach
President

Note: This Quality Manual contains provisions, which through reference in this text constitute compliance to the International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, Panelmatic management will investigate the possibility of applying the most recent edition of the International Standard.

Company Background

Panelmatic Inc. was founded in 1957 in Youngstown, OH to serve manufacturing industries with the design and build of custom electrical, instrument, and pneumatic control panels. The business grew sufficiently over the years to support expansion to other geographic areas including Cincinnati, OH (1966), Houston, TX (1985), New Castle, DE (1996), and St. Louis, MO (2007).

Since our beginning, we have produced control packages for many of America's top corporations in the chemical, environmental, food, pulp and paper, rubber, petroleum, pharmaceutical, glass, metals, and utilities industries.

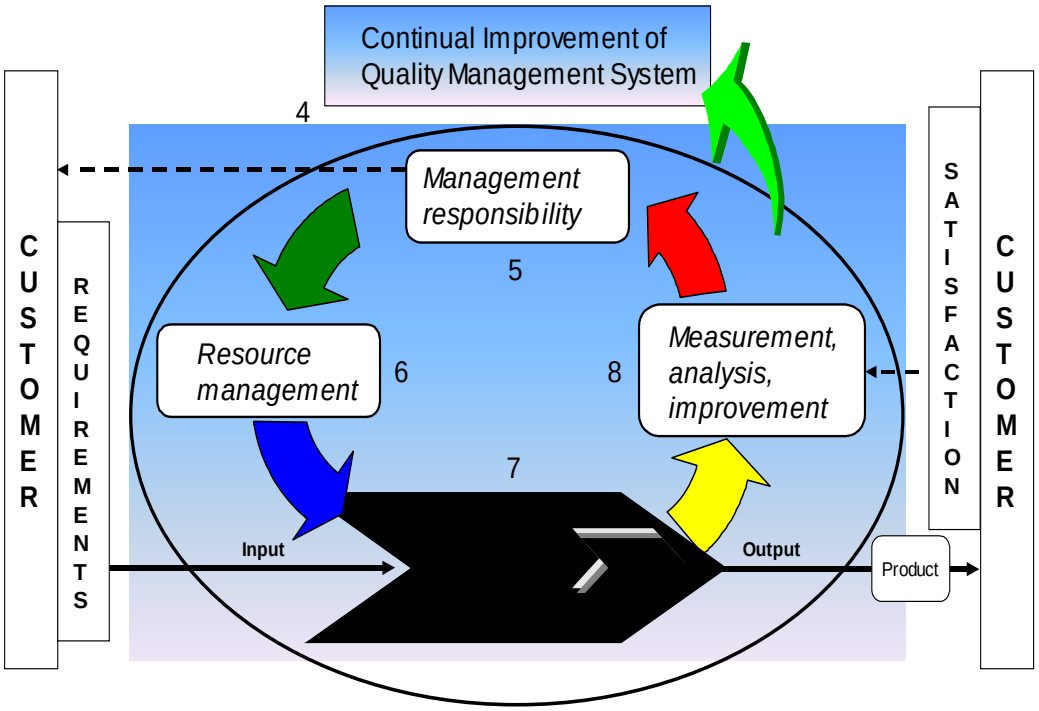
In 1990 the majority interest of the company was purchased by an Employee Stock Ownership Plan (ESOP). As employees/owners we have the greatest stake in the current and future success of Panelmatic. We seek to continually enhance this success through out corporate mission.

THE PANELMATIC MISSION

To achieve long term loyalty and trust through customer satisfaction by providing quality services.

Panelmatic Inc. QMS Model

The following model is a representation of the 'closed loop' concept of the Panelmatic Inc. Quality Management System (QMS). This model is part of the ANSI/ISO/ASQ Q9001-2000 Introduction and includes the concepts of Plan-Do-Check-Act. The Panelmatic Inc. QMS is designed to address all sections of ANSI/ISO/ASQ 9001-2000.



4.0 Quality Management System

4.1 General Requirements

Panelmatic has established, implemented, and maintains the documented quality management system (QMS) described in this manual; and endeavors to continually improve its effectiveness in accordance with the requirements of ANSI/ISO/ASQ Q9001-2000.

In the establishing of the QMS, necessary processes and their applications are identified throughout the organization (i.e., each subsidiary site). The sequence and interaction of these processes has been determined; as well as the criteria and methods needed to ensure that both the operation and control of these processes are effective. Panelmatic ensures the availability of resources and information necessary to support the operation and monitoring of these processes. Processes are monitored and action are implemented in order to achieve planned results and continual improvement.

The processes are managed in accordance with the ANSI/ISO/ASQ Q9001-2000 standard and where processes are outsourced, Panelmatic ensures control over such processes. Control of these outsourced processes is identified within the QMS.

4.2 Documentation Requirements

4.2.1 General

The QMS includes documentation to show the statement of the quality policy, quality objectives, a quality manual, procedures, documents needed to ensure the effective planning, operation and control of its processes, and records. The following diagram shows the tiers (or levels) of the documents in the QMS:

4.2.2 Quality Manual

For ease of reference this quality manual follows the numbering identification of the governing standard ANSI/ISO/ASQ Q9001-2000. A reference matrix (Appendix III) identifies the linkage from ANSI/ISO/ASQ Q9001-2000, through this manual and to Tier II documentation. Beyond this manual, procedures, guidelines, work instructions and other documents have a numbering identification that has been historically utilized.

All elements of the ANSI/ISO/ASQ Q9001-2000 apply to the QMS with no exclusions.

4.2.3 Control of Documents

The QMS describes how documents are controlled and when control is needed. The control of documents has been determined and control is maintained for the approval of documents prior to issuance; to review, update and re-approve documents; and to ensure that changes and the current revision status of documents are available at suitable points of use. Documents of external origin are properly identified and distributed to prevent the unintended use of obsolete documents and to apply suitable identification to them as they are retained.

4.2.4 Control of Quality Records

Records have been established and maintained to provide objective evidence of conformity to requirements and the effective operation of the QMS. Procedures are in place to define the controls needed for the identification, storage, protection, retrieval, retention time, and the disposition of records.

5.0 Management Responsibility

5.1 Management Commitment

Top management of Panelmatic has an established quality policy and objectives. Evidence of its commitment to the development and implementation of the QMS and continually improving its effectiveness is demonstrated through communicating the importance of meeting customer as well as statutory and regulatory requirements, conducting management reviews, and ensuring the availability of resources.

5.2 Customer Focus

Top management ensures that the customer requirements are understood and are met with the aim of enhancing customer satisfaction.

5.3 Quality Policy

Top management has developed a quality policy that is appropriate to the purpose of the organization, includes a commitment to comply with the requirements and continually improve the effectiveness of the system. The quality policy also provides a framework for establishing and reviewing quality objectives and is reviewed for continuing suitability. The following policy is communicated and understood within the organization:

> Panelmatic, Inc. is dedicated to providing its customers with high quality products and services in strict conformance to internal and customer requirements, in a cost effective and timely manner.
>
> At Panelmatic, Inc. we strive for continuous improvement in the quality of our products, services, and customer relations with the objective being ever improving customer satisfaction.

5.4 Planning

5.4.1 Quality Objectives

Top management has established quality objectives, including those needed to meet requirements for product, at relevant functions and levels within the organization.

5.4.2 Quality Management System Planning

The planning of the QMS is carried out at each subsidiary site in order to ensure that quality objectives are met and the integrity of the quality system is maintained when changes to the system are planned and implemented. This planning normally occurs at the QMS management review. Information presented at management review is intended to provide input for quality planning and continual improvement.

Should a customer request different QMS requirements, those requirements will be written into the specific contract as "for this specific contract only" and communicated during contract review and project kickoff, and documented.

5.5 Responsibility, Authority and Communication

5.5.1 Responsibility and Authority

In order to implement and maintain the QMS effectively and efficiently top management ensures that appropriate functions and interrelations within Panelmatic are defined. The Panelmatic organization chart serves as the communication vehicle. (Reference Attachment I)

5.5.2 Management Representative

The Panelmatic Quality Assurance Manager has been designated as the QMS Management Representative with encompassing responsibilities as designated by governing standard ANSI/ISO/ASQ Q9001-2000. The Management Representative oversees the QMS established at each subsidiary.

5.5.3 Internal Communication

Top management ensures that communication processes are established within the organization and that communication takes place regarding the effectiveness of the QMS.

5.6 Management Review

5.6.1 General

Top management reviews the QMS, at least once per calendar year, to ensure its continuing suitability, adequacy and effectiveness in satisfying the requirements of the company and ANSI/ISO/ASQ Q9001-2000. This review includes assessing opportunities for improvement and an evaluation of the need for changes to the QMS including the Quality Policy and objectives. Attendance requirements for management review meetings are defined.

5.6.2 Review Input

Input to the management review process may include the following:

a. Results from audits (internal, customer and/or third party).
b. Customer feedback.
c. Process performance and product conformity.
d. Status of preventive and corrective actions.
e. Follow-up actions from previous management reviews.
f. Changes that could affect the quality management system.
g. Recommendations for improvement.
h. Results from metrics.

5.6.3 Review Output

The output from management review includes any decisions and actions related to improvement of the effectiveness of the QMS and its processes, improvement of product related to customer requirements, and resource needs. Corrective actions identified from these reviews are addressed by appropriate management. Minutes of these meetings are recorded and maintained.

6.0 Resource Management

6.1 Provision of Resources

Panelmatic has determined and provides resources at each subsidiary site to strive to improve the effectiveness and efficiency of the organization, including the QMS. Resource provisions may be addressed during the management review process or be part of the annual business (budget) plan of each subsidiary.

6.2 Human Resources

6.2.1 General

Company associates performing activities affecting product quality have been deemed competent to perform their tasks based on appropriate education, training, skills and experience.

6.2.2 Competence, Awareness, and Training

Panelmatic reserves the right and accepts the responsibility to

a. Determine the necessary competence for associates performing activities affecting product quality. Such requirements are defined in specific procedures, job postings and/or advertisements for such positions.

b. Provide training or take other actions appropriate to satisfy these needs, where such training has been deemed necessary and is available.
c. Evaluate the effectiveness of the actions taken. In many cases the measure of effectiveness is subjective and is left to the discretion of management.
d. Ensure that all associates are aware of the relevance and importance of their activities and how they contribute to the achievement of quality objectives.
e. Maintain appropriate records of education, training, skills and experience.

All new employees undergo an orientation process. The orientation process involves safety, employee benefits, and QMS training as well as an explanatory session during which the individual site's methods of operation, policies and procedures are explained. This orientation process is recorded.

6.3 Infrastructure

Panelmatic has determined and provides and maintains the infrastructure needed to achieve conformity to customer requirements. Infrastructure needs have been identified as

a. Buildings, workspace and associated utilities.
b. Process equipment (both hardware and software).
c. Support services (such as transport, communication or maintenance).
    - Maintenance of equipment to ensure continuing process capability.

6.4 Work Environment

Panelmatic has determined and manages the human and physical factors of the work environment needed to achieve conformity to product requirements.

1. Human

a. Through the QMS all employees may suggest amendments to quality policies, procedures and work instructions.
b. Health and safety issues are addressed to and by senior management.
c. Panelmatic and its subsidiaries comply with federal and local legislation regarding provision of services to people with disabilities.

2. Physical

    a. Examples of physical factors that affect the work environment may include but are not limited to indoor temperature, light, noise, fresh air circulation, standard of house keeping and sanitation.

7.0 Product Realization

7.1 Planning of Product Realization

Panelmatic plans and develops the processes needed for product realization. These processes are consistent with the requirements of other processes of the QMS.

In the planning for product realization, the following are determined:

a. quality objectives and requirements for the product.
b. the need to establish processes, documentation, and provision of resources and infrastructure specific to the product.
c. whether required verification, validation, and monitoring activities specific to the product and the criteria for product acceptance are appropriate.

The outputs of the planning are in a form suitable for the organization's methods of operation; and records to provide evidence that the realization processes and resulting product meet requirements are maintained as appropriate.

7.2 Customer-Related Processes

7.2.1 Determination of Requirements Related to the Product

Panelmatic determines the requirements specified by the customer, including the requirements for delivery and post-delivery activities, and where known, requirements not stated by the customer but necessary for specified or intended use. Other requirements may include statutory and regulatory requirements related to the product and any additional requirements (e.g., QMS) determined by the organization.

7.2.2 Review of Requirements Related to the Product

Panelmatic reviews the requirements related to the product prior to the commitment to supply a product to the customer. It is the responsibility of top

management of each Panelmatic facility to ensure that all requirements pertaining to their scope of supply are clarified and understood.

Panelmatic sites also ensure that product requirements are defined, contract or order requirements differing from those previously expressed are resolved, and whether the site has the ability to meet the defined requirements. Results of the review and actions arising from the review are recorded and maintained as appropriate.

7.2.3 Customer Communication

Customer communication is recognized by Panelmatic as an important aspect to achieving product and service satisfaction. The organization determines and implements arrangements for communication with the customer with regard to information relating to the product, inquiries, contracts and amendments to them, and customer feedback.

If the communication is a customer complaint it is addressed in accordance with Section 8.3, Control of Nonconforming Product. Customer satisfaction andor/ dissatisfaction is monitored in accordance with Section 8.2.1.

7.3 Design and Development

7.3.1 Design and Development Planning

Panelmatic plans and manages the control of the design and development process of product offerings. The design and development stages, the review, verification and validation that are appropriate to each design and development stage, and the responsibilities and authorities for design and development are determined during this process.

Panelmatic also manages the interfaces between different groups involved in the design and development process to ensure effective communication and clear assignment of responsibility. The planning output is upgraded, as appropriate, as design and development progresses.

7.3.2 Design and Development Inputs

Design and development inputs relating to a product offering are determined and reviewed, and records are maintained as appropriate.

The functional and performance requirements, applicable statutory and regulatory requirements, company developed standards, information derived from previous similar designs (where applicable), and other requirements essential for design and development are included as part of these inputs.

These inputs are reviewed for adequacy to ensure they are complete and not conflicting with each other. Any input information that is incomplete, ambiguous or may provide conflicting requirements is addressed for resolution.

7.3.3 Design and Development Outputs

The outputs of design and development activities are provided in a format that enables verification against the design and development input requirements. Outputs are approved prior to release.

These outputs meet the input requirements, provide appropriate information for purchasing, production, and service provision; contain or reference product acceptance criteria; and specify the characteristics of the product offering that are essential for its safe and proper use.

7.3.4 Design and Development Review

Design and development reviews are performed in accordance with planned arrangements (see Section 7.3.1) at suitable stages as determined by appropriate project management.

These reviews are conducted to evaluate the capability of design and development results to meet requirements; to identify any problems; and propose necessary corrective actions. Participants in such reviews include the representatives of functions concerned with the design and development stages being reviewed. Records of these meetings are maintained as appropriate.

7.3.5 Design and Development Verification

Design and development verification is performed in accordance with planned arrangements to ensure that the outputs have met input requirements. Results of the verification activities and subsequent follow-up actions are recorded and those records maintained as appropriate.

7.3.6 Design and Development Validation

Design and development validation is performed in accordance with planned arrangements to ensure that the resulting product offering is capable of meeting the requirements for the specified application or intended use. Records of these results and any necessary actions are maintained as appropriate.

7.3.7 Control of Design and Development Changes

Design and development changes are identified, reviewed, verified and validated, and approved before implementation. The review(s) of any changes includes the evaluation of the effect of the changes on the constituent parts and product already delivered. Records of these results and any necessary actions are maintained as appropriate.

7.4 Purchasing

7.4.1 Purchasing Process

Each site ensures that items purchased for incorporation into our product offerings conform to specified purchasing requirements. The type and extent of control applied to a supplier and the purchased product is dependent on the effect of the purchased product with respect to the final product.

Suppliers are evaluated and selected based upon their ability to supply product in accordance with site-specific and/or order-based requirements, as applicable.

Criteria for the selection, evaluation, and re-evaluation of suppliers are established in site-specific procedures. Records of supplier evaluations and any actions arising from the results of the evaluation are maintained as appropriate.

7.4.2 Purchasing Information

Purchasing documentation contains information clearly describing the product ordered including where appropriate:

a. requirements for approval or qualification of product, procedures, processes, and equipment.
b. requirements for qualification of personnel.
c. appropriate quality management system requirements.

7.4.3 Verification of Purchased Product

Inspection or other relevant and necessary verification activities are established and implemented to ensure that purchased product meets the specified requirements.

When verification is performed at the supplier's premises, the intended verification arrangements and method of product release is stated in the purchasing documentation.

7.5 Production and Service Provision

7.5.1 Control of Production and Service Provision

Production and service provisions are planned and carried out under controlled conditions. These conditions include (as applicable):

a. availability of information that describes the characteristic(s) of the product offering.
b. availability of guidelines/work instructions (as necessary) for those activities for the achievement of conformity of the product offering
c. use of suitable equipment.
d. availability and use of monitoring and measuring devices.
e. implementation of suitable monitoring and measurement activities.
f. implementation of release, delivery, and post-delivery activities.

7.5.2 Validation of Processes for Production and Service Provision

Validation is performed for any process for production and service activities where the resulting output cannot be verified by subsequent monitoring or measurement, including any processes where deficiencies become apparent only after the product is in use or the service has been delivered.

Validation demonstrates the capability of these processes including defined criteria for review and approval, approval of equipment and qualification of personnel, use of specific methods and procedures, requirements for records, and revalidations.

7.5.3 Identification and Traceability

Identification (material, project, and/or document) is accomplished by suitable means throughout the respective realization processes. Status may be identified

with respect to monitoring and measurement requirements as necessary. Documented procedures define identification methods. Where traceability is a requirement, unique identification records are maintained.

7.5.4 Customer Property

Customer property is treated as any normally acquired item. While customer property is under our control, care is taken to identify, verify, and safeguard it. If property is lost, damaged or otherwise found to be unsuitable for use, the condition is reported to the customer and records maintained.

7.5.5 Preservation of Product

Product preservation is observed from internal processing through delivery to the intended destination. Preservation includes identification, handling, packaging, storage and protection and may also apply to the constituent parts of the product.

7.6 Control of Monitoring and Measuring Devices

The monitoring and measurement to be undertaken is determined as are the devices needed to provide evidence of conformity to product-determined requirements. This determination takes place during project planning.

Processes for monitoring and measurement are carried out in a manner that is consistent with applicable monitoring and measurement requirements. Where necessary to ensure valid results measuring equipment is

a. calibrated at specified intervals against standards traceable to international or national standards.
b. adjusted as necessary.
c. identified so calibration status can be determined.
d. safeguarded from invalid adjustments.
e. protected from damage.

The validity of previous measuring results is assessed when equipment is found not to conform to requirements, and appropriate action taken to remedy.

Calibration and verification results are recorded and maintained as appropriate. When used in the monitoring and measurement of specified requirements, the ability of computer software to satisfy the intended application is confirmed prior to initial use and reconfirmed as necessary.

8.0 Measurement, Analysis and Improvement

8.1 General

Monitoring, measurement, analysis and improvement processes are planned and implemented to demonstrate conformity of product offerings; to ensure conformity and the effectiveness of the QMS; and to work to continually improve the operation of the organization.

The determination of applicable methods, including statistical techniques, and the extent of their use is addressed, as appropriate.

8.2 Monitoring and Measurement

8.2.1 Customer Satisfaction

Panelmatic monitors information relating to customer perception as a measure of the performance of the QMS. This information relates to the customer's perception as to whether we have met their established requirements. Methods for obtaining, using and reporting this information may be implemented as necessary.

8.2.2 Internal Audit

Internal audits are performed at planned intervals to determine whether the QMS is effectively implemented and maintained; conforms to the requirements of ANSI/ISO/ASQ Q9001-2000, and conforms to the requirements set forth in this manual.

The audit program is planned taking into consideration the status of the processes and area(s) to be audited, as well as results of previous audits.

A Quality Assurance Procedure (QAP) is established that defines the audit criteria, scope, frequency, and methods on the individual site level.

The selection of the auditors and conduct of audits are done to ensure impartiality of the audit process. The responsibility and requirements for planning and conducting audits, and for reporting results and maintaining records is defined.

Management responsible for the area being audited ensures that actions are taken without undue delay to eliminate detected nonconformities and their causes.

Follow-up activities include the verification of the actions taken and the reporting of verification results.

8.2.3 Monitoring and Measurement of Processes

Panelmatic uses suitable methods for monitoring and measurement of the QMS processes, where applicable. These methods demonstrate the ability of a process to achieve planned results and when they are not achieved, correction and corrective action is taken to ensure conformity of the product offering.

8.2.4 Monitoring and Measurement of Product

To verify that product requirements have been met, Panelmatic monitors and measures the characteristics of the product offering. These activities are performed at appropriate stages of the product realization process in accordance with planned arrangements.

Evidence of conformity with acceptance criteria is recorded and maintained as appropriate.

Records for these activities are kept to indicate the person authorizing the release of the product offering.

Release and delivery of the product offering does not proceed until planned arrangements have been completed, unless otherwise negotiated or approved.

8.3 Control of Nonconforming Product

Product not conforming to specified requirements are identified and controlled to prevent unintended use or delivery. The controls, related responsibility and authority for dealing with nonconformance are defined.

Nonconformities are dealt with by taking action to eliminate the detected nonconformity, authorizing its use, release or acceptance under concession, or by taking action to preclude its original intended use or application. Nonconformities and any subsequent actions taken, including concessions, are recorded and maintained as appropriate.

When a nonconformity is corrected it is subject to re-verification to demonstrate conformance to requirements. When a nonconformity is detected after delivery or

use, action appropriate to the effects or potential effects of the nonconformity is taken.

8.4 Analysis of Data

Data is collected and analyzed to demonstrate the suitability and effectiveness of the QMS and to evaluate efforts to continually improve the system. The data generated from monitoring and measurement activities, and from other relevant sources is included in the evaluation.

The analysis of data provides information relating but not limited to customer satisfaction, conformity to relevant requirements, characteristics and trends of realization processes and subsequent product offerings including opportunities for preventive action, and information relating to suppliers.

8.5 Improvement

8.5.1 Continual Improvement

Panelmatic plans and manages the processes necessary for the continual improvement of the QMS. The continual improvement of the QMS is facilitated through the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive actions, and management review.

8.5.2 Corrective Action

Action is taken to eliminate the cause of nonconformance in order to prevent recurrence. Corrective actions are addressed and facilitated as appropriate to the magnitude and effect of the nonconformance encountered. A documented procedure is established to define the requirements for the following:

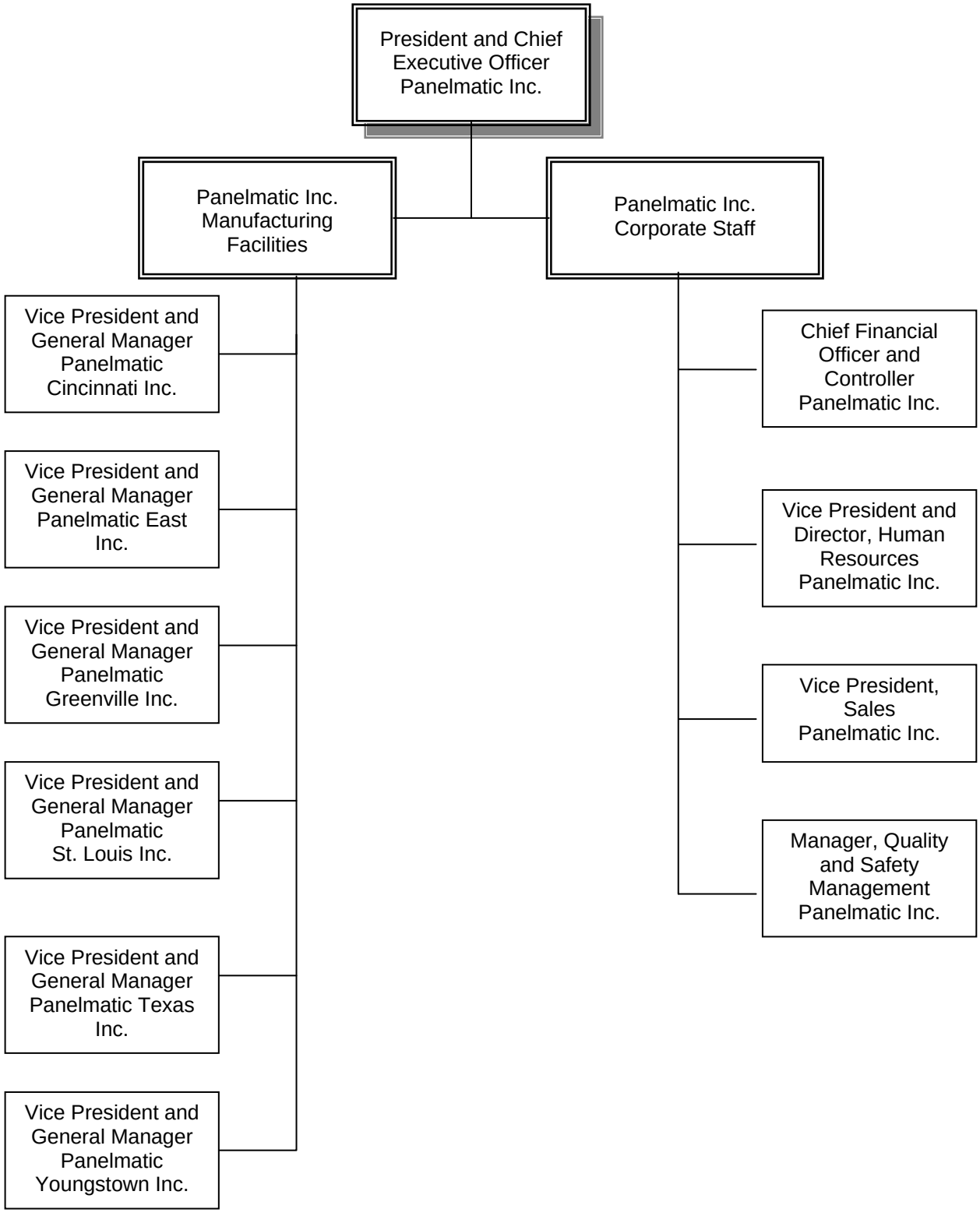
a. reviewing nonconformities.
b. determining the cause(s).
c. evaluating the need for action to ensure that nonconformities do not recur.
d. determining and implementing action(s) needed.
e. reviewing the corrective action(s) taken.
f. recording the results.

8.5.3 Preventive Action

Panelmatic determines, as necessary, action(s) to eliminate the cause(s) of potential nonconformance in order to prevent occurrence. Preventive action(s) are to be addressed and facilitated as appropriate to the magnitude and effect of the potential problem(s). Documented procedures exist for determining potential nonconformance and the cause(s); evaluating the need for action to prevent occurrence; determining and implementing needed action; reviewing preventive action taken; and recording the results.

Appendix I

PANELMATIC INCORPORATED



Appendix II

Quality Manual Revision History

Rev No.	Date	Nature of Revision
Issue I		
0	5/03/93	1. Original Issue to ISO 9001:1987 requirements
1	1/24/94	1. General Change in Header (all sections) to permit corporate-wide use. 2. Removal of distribution list. 3. Restructuring of Index. 4. Section i - Edited Quality Policy. 5. Section ii - Clarified ISO 9001:1987 reference. 6. Section iii - Removed Site reference from Para. 1.0. 7. Section 18 - Edited. 8. Section 19 - Edited, added paragraph. 9. Addendum A- Removed site reference from Para.2.0. 10. Appendix II - Added.
Issue II		
0	11/01/94	1. General change in Header (all sections). 2. Complete rewrite to ANSI/ASQC Q9001-1994.
1	11/01/97	1. Revised/edited the following sections to clarify activities in relation to ANSI/ASQ Q9001-1994 requirements: • Section i • Section ii • Section iii • Section 1 • Section 2 • Section 4 • Section 5 • Section 6
Issue II		
1	5/31/98	• Section 7 • Section 8 • Section 9 • Section 10 • Section 12 • Section 16 • Section 18 • Section 19

Rev No.	Date	Nature of Revision
		2. Removed Addendum A - not necessary for Panelmatic, Inc. scope of supply.
2	7/15/99	1. Revised/edited the following sections to more definitively describe activities/methods as a result of an independently contracted QMS document review: • Section 1 • Section 2 • Section 8 • Section 9 • Section 11 • Section 13 • Section 14 • Section 17 2. Revised Organizaton Chart, Appendix I 3. Revised Header to reflect corporate office address change 4. Revised Cross Reference Matrix, Appendix III 5. Section i (New President endorsement) 6. Section ii (New President endorsement)
Issue III		
0	3/01/04	1. Complete reformat and rewrite to the updated ANSI/ISO/ASQ Q9001-2000 Standard
1	4/01/05	1. Endorsement by new company president in Scope. 2. Deletion of all references to TransAmerican Automation, Inc. and control systems integration services throughout this document as this activity is no longer part of Panelmatic, Inc's core business scope and strategy. 3. Revised Organization Chart, Appendix I. 4. Revised Title Page. 5. Revised Company Background and Mission Statement
2	12/01/05	1. Revised Mission Statement.
3	12/01/07	1. Added references to New Facility, Panelmatic St. Louis Inc. 2. Revised Organization Chart, Appendix I.

Rev No.	Date	Nature of Revision
4	2/01/09	1. Revised Organization Chart, Appendix I.
5	5/01/12	1. Revised cover sheet to include new site (Panelmatic Greenville Inc.) 2. Revised Organization Chart, Appendix I.
6	7/01/13	1. Revised Organization Chart, Appendix I.

Appendix III

Quality Management System/Quality Assurance Procedure Cross Reference Matrix

ANSI/ISO/ASQ Q9001-2000 Requirement	QAM Reference	QAP Ref.
4 QUALITY MANAGEMENT SYSTEM	**4.0**	
4.1 General Requirements	4.1	QAP 10.0
4.2 Documentation Requirements	4.2	QAP 10.1
4.2.1 General	4.2.1	
4.2.2 Quality Manual	4.2.2	
4.2.3 Control of Documents	4.2.3	QAP 10.1, 40.3
4.2.4 Control of Records	4.2.4	QAP 50.7
5 MANAGEMENT RESPONSIBILITY	**5.0**	QAP 30.1 series
5.1 Management Commitment	5.1	
5.2 Customer Focus	5.2	QAP 10.3
5.3 Quality Policy	5.3	
5.4 Planning	5.4	
5.4.1 Quality Objectives	5.4.1	
5.4.2 Quality Management System Planning	5.4.2	QAP 10.0
5.5 Responsibility, Authority and Communication	5.5	
5.5.1 Responsibility and authority	5.5.1	
5.5.2 Management representative	5.5.2	
5.5.3 Internal Communication	5.5.3	
5.6 Management Review	5.6	QAP 10.0.1
5.6.1 General	5.6.1	
5.6.2 Review Input	5.6.2	
5.6.3 Review Output	5.6.3	
6 RESOURCE MANAGEMENT	**6.0**	
6.1 Provision of Resources	6.1	
6.2 Human Resources	6.2	QAP 10.4
6.2.1 General	6.2.1	
6.2.2 Competence, Awareness and Training	6.2.2	
6.3 Infrastructure	6.3	
6.4 Work Environment	6.4	
7 PRODUCT REALIZATION	**7.0**	
7.1 Planning of Product Realization	7.1	QAP 10.0, 10.3

ANSI/ISO/ASQ Q9001-2000 Requirement	QAM Reference	QAP Ref.
7.2 Customer-related Processes	7.2	
7.2.1 Determination of Requirements Related to the Product	7.2.1	QAP 10.3
7.2.2 Review of Requirements Related to the Product	7.2.2	QAP 10.3
7.2.3 Customer Communication	7.2.3	QAP 10.3
7.3 Design and Development	7.3	QAP 40.1, 40.3
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7.3.2 Design and Development Inputs	7.3.2	
7.3.3 Design and Development Outputs	7.3.3	
7.3.4 Design and Development Review	7.3.4	
7.3.5 Design and Development Verification	7.3.5	
7.3.6 Design and Development Validation	7.3.6	
7.3.7 Control of Design and Development Changes	7.3.7	
7.4 Purchasing	7.4	QAP 20.1, 20.2
7.4.1 Purchasing Process	7.4.1	20.3, 20.4
7.4.2 Purchasing Information	7.4.2	
7.4.3 Verification of Purchased Product	7.4.3	QAP 50.4
7.5 Product and Service Provision	7.5	
7.5.1 Control of Production and Service Provision	7.5.1	QAP 30.1 series, 30.2
7.5.2 Validation of Processes for Production and Service Provision	7.5.2	
7.5.3 Identification and Traceability	7.5.3	QAP 30.3
7.5.4 Customer Property	7.5.4	QAP 20.5
7.5.5 Preservation of Product	7.5.5	QAP 20.7
7.6 Control of Monitoring and Measuring Devices	7.6	QAP 50.5
8 MEASUREMENT, ANALYSIS AND IMPROVEMENT	8.0	
8.1 General	8.1	
8.2 Monitoring and Measurement	8.2	
8.2.1 Customer Satisfaction	8.2.1	
8.2.2 Internal Audit	8.2.2	QAP 50.1
8.2.3 Monitoring and Measurement of Processes	8.2.3	
8.2.4 Monitoring and Measurement of Product	8.2.4	QAP 50.4
8.3 Control of Nonconforming Product	8.3	QAP 20.6
8.4 Analysis of Data	8.4	
8.5 Improvement	8.5	
8.5.1 Continual Improvement	8.5.1	
8.5.2 Corrective Action	8.5.2	QAP 10.2
8.5.3 Preventive Action	8.5.3	QAP 10.2