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Abstract: This document describes the software qualit procedures that achieve conformance with a <i>ISO 90003</i> .	

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Section 1: Scope

(Your Company's) quality management system (QMS) policies and procedures summarize top management's strategic view to improve the QMS, enhance Customer satisfaction and assure consistent delivery of products and services that achieve conformance with Customer and applicable statutory and regulatory requirements.

Section 2: Normative References

Documents that are referenced herein are indispensable and their title's are displayed in Bold Italics.

Section 3: Terms and Definitions

Unless otherwise noted, the Company applies the definitions of key terms according to **AS9100D** and the **QMS-16 Definitions and Abbreviations Procedure**.

Section 4: Context of the Organization

4.1 Understanding the organization and its context

The Company

according to the QMS-04 Management Process Procedure.

4.2 Understanding the needs and expectations of interested parties

The Company considers

according to the QMS-04 Management Process Procedure.

4.3 Determining the scope of the quality management system

The Company's quality management system applies to all employees within all functional areas of the business operation.

The Company provides the following products and/or services:

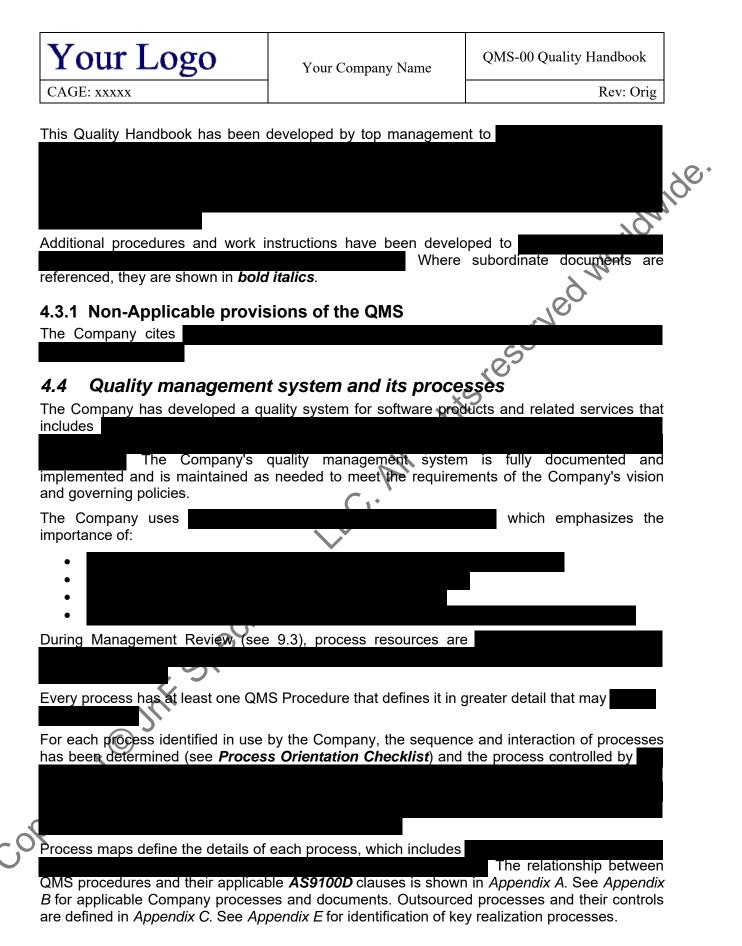
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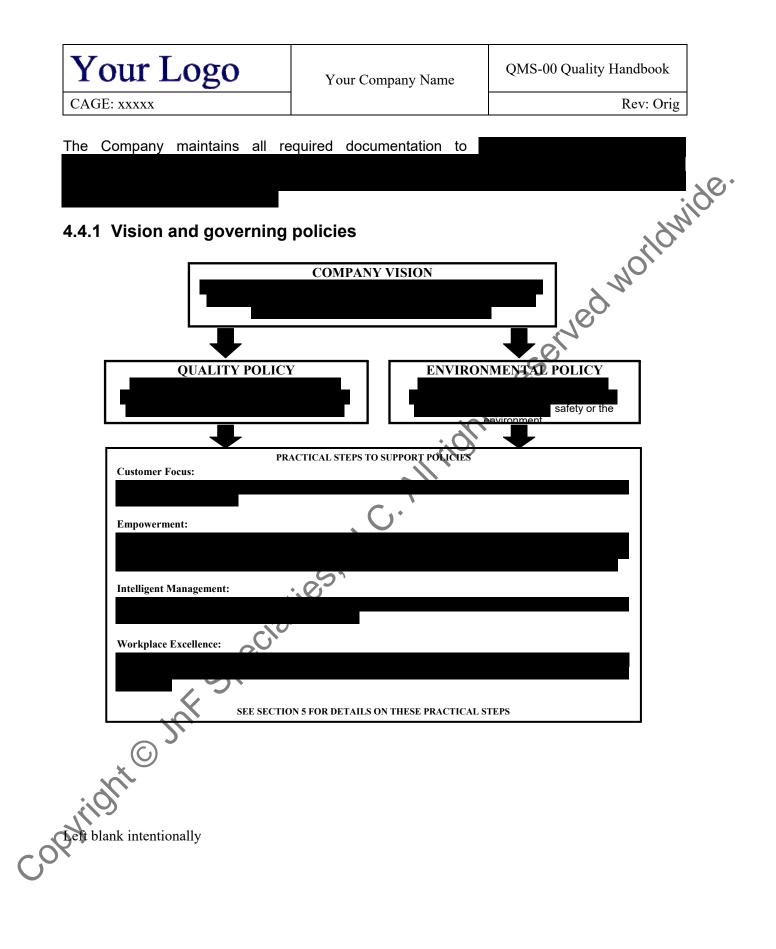
NAICS code: [Your code(s)] SIC code: [Your code(s)]

QMS policies and/or procedures outline

The primary purpose of the Quality Handbook and QMS Procedures is to

Copies of the handbook are controlled by





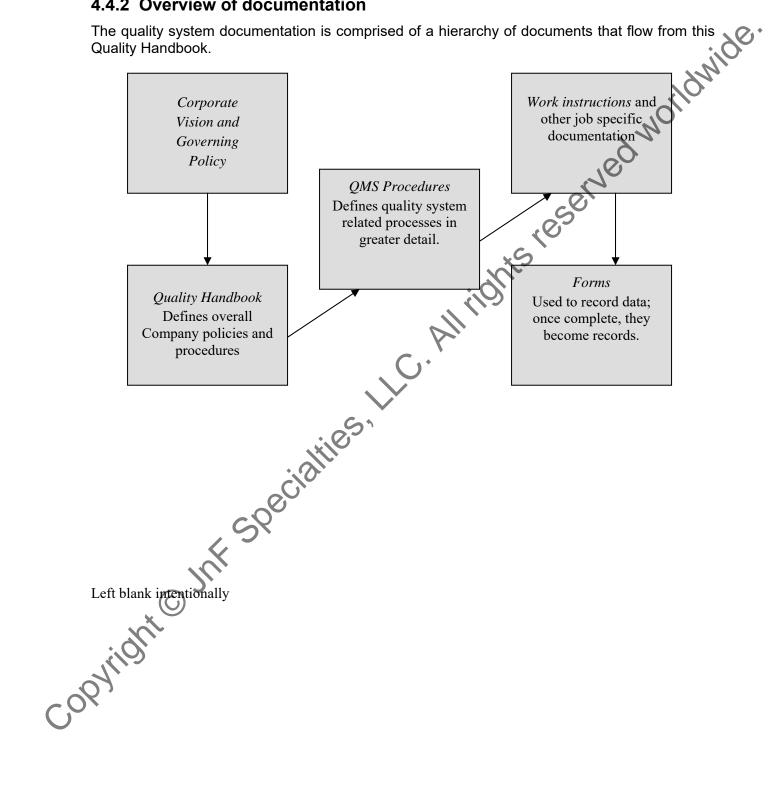


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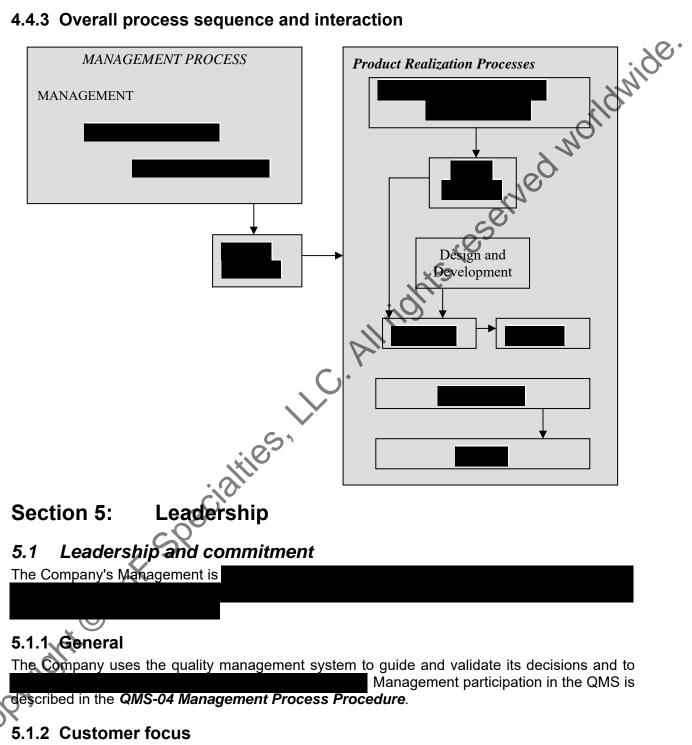
4.4.2 Overview of documentation

The quality system documentation is comprised of a hierarchy of documents that flow from this Quality Handbook.





4.4.3 Overall process sequence and interaction



The Company demonstrates leadership and commitment with respect to Customer focus by

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according to the QMS-04 Management Process Procedure.

5.2 Policy

5.2.1 Establishing the quality policy

The Company's quality policy defines

5.2.2 Communicating the quality policy

The Company's quality policy is available to interested parties and is maintained as documented information that is

5.3 Organizational roles, responsibilities and authorities

Assignment of responsibilities and authorities for relevant roles are communicated and understood throughout the organization according to the **QMS-05** Responsibilities and **Authorities Procedure** to ensure

The organization chart below describes the basic management structure of the Company. In all cases, the appropriate person has

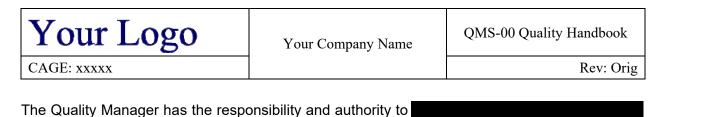
which is further defined in the QMS-05 Responsibilities and Authorities Procedure.

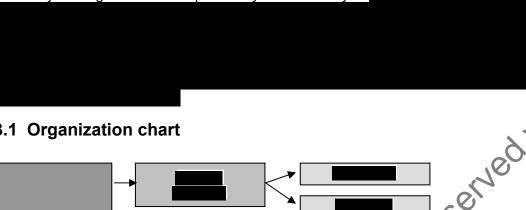
All employees are empowered to

All	employees	ale	empowered	10					

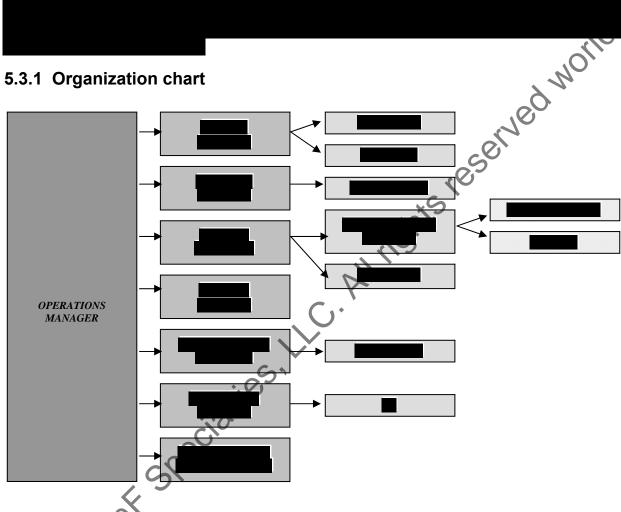
The Quality Manager has experience with software development and has been assigned the role of Responsible Quality Authority (RQA). As RQA, the Quality Manager is responsible for:







5.3.1 Organization chart



Section 6:

Planning

This qualities were was planned in advance and its documented policies and procedures were reviewed prior to implementation. Management affirms the QMS is

the QMS documentation acts as the overall quality plan for the Company. As required, specific quality processes

Quality system planning and control is treated as a process (called the Management Process) and is defined in the QMS-04 Management Process Procedure.

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The Company defines appropriate software life cycle models to determine the development of In addition, the Company defines the content of software management plans such as The Company defines how software engineering methods are tailored within the life cycle and identifies the tools and environment for The responsible authority for software development considers any change to a the cycle model that may affect the quality management system and ensures 6.1 Actions to address risks and opportunities 6.1.1 Planning for the QMS Planning for the quality management system includes

6.1.2 Planning requirements

The Company determines the effectivity of actions taken to establish process controls that

according to the QMS-

04 Management Process Procedure.

6.2 Quality objectives and planning to achieve them

6.2.1 Establishing quality objectives

The Company establishes and maintains documented information for quality objectives at relevant functions, levels and processes according to the *QMS-04 Management Process Procedure*. Quality objectives are measurable and consistent with the quality policy and take into account applicable requirements. Quality objectives are

6.2.2 Achieving quality objectives

The Company determines how to achieve its quality objectives according to



ilo

Planning of changes 6.3

196. Changes to the quality management system are performed according to the QMS-02 Configuration Management Procedure, which considers

The quality management system is maintained at its authorized revision level until planned changes are implemented. ts reserved

Section 7: Support

7.1 Resources

7.1.1 General

The Company determines and provides the resources needed for

7.1.2 People

The Company determines and provides the people necessary for

7.1.3 Infrastructure

The Company determines, provides and maintains the infrastructure necessary for

Hardware, software, tools and facilities for development, operation or maintenance of software and software tools that support the design and development process include:



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Tools and techniques that are purchased or developed internally are evaluated for fitness for their designated purpose. Prior to use, the Company evaluates, approves and places under configuration control the tools used for

									NO.
The	Company	has	determined	and	provides				
			and include	a rev	view of:				
•								N	
•									
•								100	
•							-	2	
The	Company (utilize	s maintenan	ce pr	actices ar	nd skilled mainte	enance perso	onnel to	
							S. S.		
The	Company i	utilize	s corrective i	maint	enance a	nd skilled mainte	enance pers	onnel to	

7.1.4 Environment for the operation of processes

The Company determines, provides and maintains the environment necessary for the operation of its processes to achieve conformity of products and service. The work environment is

7.1.5 Monitoring and measuring resources

7.1.5.1 General

When monitoring or measuring is used to verify the conformity of products and services, the Company determines

The Company considers the effect of tools, facilities and techniques on the quality of the software product when approving the conduct of any tests that verify the conformance of the



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software product to specified requirements; in addition, such equipment may be placed under configuration management prior to use. Software is verified periodically to confirm

The suitability of test tools, techniques and data is verified prior to use to determine if there is a need to improve and/or upgrade them. The Company has developed procedures for determining Measuring and monitoring devices used in software development, testing, maintenance and operation include:

7.1.5.2 Measurement traceability

All measuring and test equipment instruments and devices used to determine an item's conformance to specified requirements are

 according to the QMS-15 Calibration Procedure.

 Measuring equipment is

 Calibration Procedure.

7.1.6 Organizational knowledge

The Company determines,

The Company considers

according to the QMS-07 Proposal Development and Contract

Review Procedure.

7.2 Competence

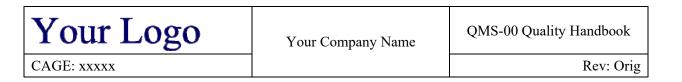
The Company determines and periodically reviews the necessary competence for Employees whose work affects the performance and effectiveness of the quality management system. The Company affirms

All Company personnel are

Software training needs consider

Technologies

employed in software development, operation and maintenance are continually monitored and evaluated to determine



The Company has implemented a training program that:

•					
					N
•				Ne	
Management	conducts				
			1/119		
7.3 Awa	reness		PII		
The Compan	y affirms				
	nmunication	Atto			
nternal and	external commun	cations that are	relevant to the	QMS are	
			according to	o the QMS-04	Management
Process Pro -		_			
lo ensure pi	oper communicati	on			
vhich is doct	mented in the QM	S-04 Managemer	nt Process Proc	edure.	
lanagement	periodically				

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according to the QMS-02 Configuration

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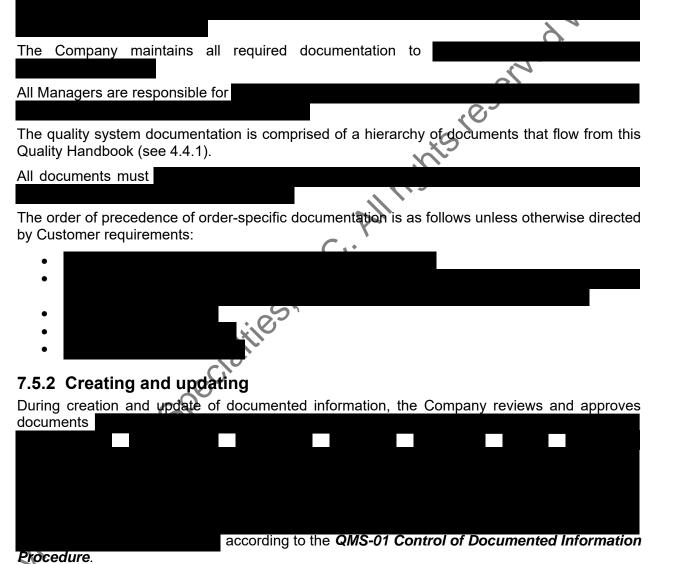
Documented information 7.5

Management Procedure.

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The Company's quality management system includes documented information required by **AS9100D** and records necessary for the effectiveness of the quality menagement. The Company has developed documents for the effective planning, operation, and control of processes for software that describe



The Company has developed a secure web-based document portal that enables

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7.5.3 Control of documented information

Nge. 7.5.3.1 Documents required by QMS and international standard Documents are controlled so that the information on them is For details, see QMS-01 Control of Documented Information Procedure and QMS-02 Configuration Management Procedure. Activities for control of documented information 7.5.3.2 The Company controls according to the QMS-01 Control of Documented Information Procedure. Superseded and/or obsolete documents may according to the QMS-02 Configuration Management Procedure. Management provides guidelines for managing according to the QMS-04 Management Process Procedure.

Records are controlled to provide evidence of conformity to requirements that include

Records are controlled to provide evidence of the effective operation of the quality management system that include

Where records are need on electronic media, consideration of the retention times and accessibility of the records takes into account

Records include information held in email

systems.

The Company assesses the method for erasure of electronic records at the end of their required retention period according to

The records subject to control are defined in the QMS-03 Control of Documented Information **Procedure**.

Section 8: Operation

8.1 Organizational planning and control

Processes that are used to achieve compliance with requirements for deliverable products and services are

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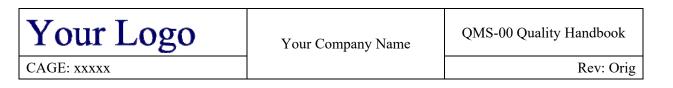


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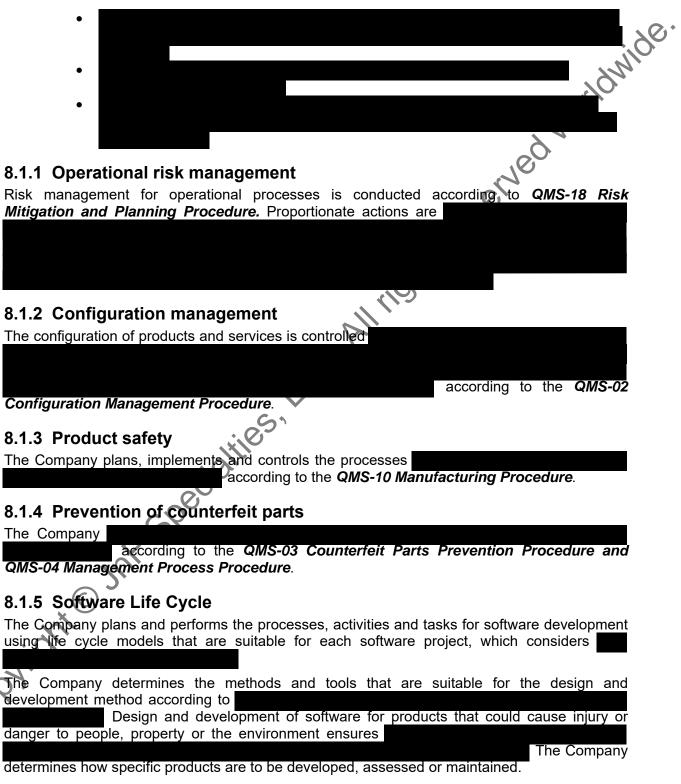
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The Company applies the QMS-07 Proposal Development and Contract Review Procedure to engage Responsible Authorities and The QMS-02 Configuration Management Procedure is used to approve processes and control changes. Consequences of unintended changes are S Inspection, testing and "on-time delivery" requirements are Project management is used to Key product realization processes include the following procedures: • Quality objectives have been established for each key process. At times, additional quality objectives and measurements may Suppliers used for outsourced processes are approved according to 8.4 herein and the QMS-08 **Purchasing Procedure.** When the Company provides supplies for outside processing, such as acceptance testing, the work is performed under the following conditions:



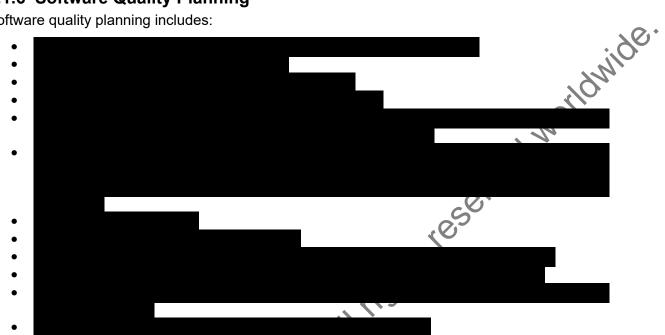
Build, release and replication processes for software include:





8.1.6 Software Quality Planning

Software quality planning includes:



The Company uses quality planning to clarify quality objectives for software being designed for a limited purpose such as

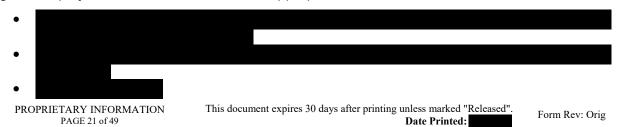
Requirements for products and services 8.2

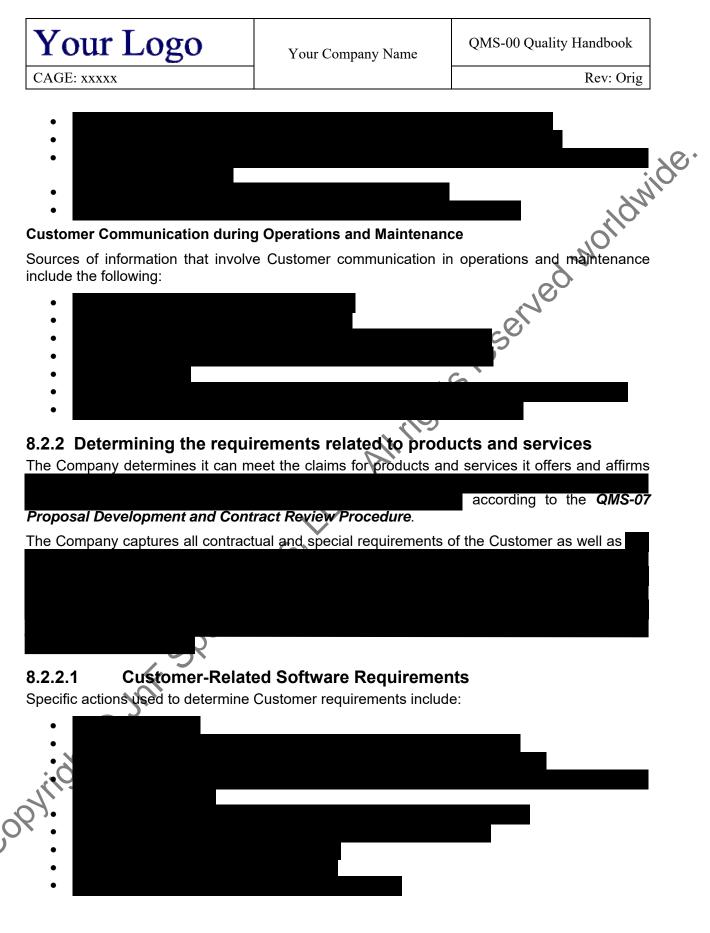
8.2.1 Customer communication

The Company communicates with its Customers by

Customer Communication during Development

Joint reviews involving the Company and Customer are scheduled on a regular basis or at significant project events, which include as appropriate:





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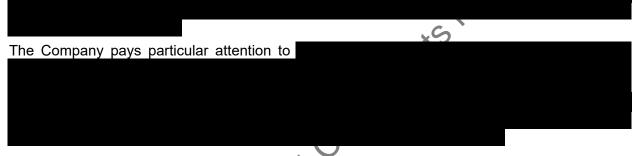
The Company expresses requirements in clear and unambiguous terms that facilitate validation throughout the development life cycle and during product acceptance.

When a system specification is applied, the Company applies methods to allocate requirements into hardware and software items with appropriate interface specifications. Configuration controls or contract amendments are used when changes are made to approved requirements. The Company specifies the interfaces between the software product to be developed and other software or system products. NO

8.2.3 Review of requirements related to products and services

8.2.3.1 Ability to meet requirements

Applicable functions within the Company review Customer requirements according to the QMS-07 Proposal Development and Contract Review Procedure



Retain documented information of review 8.2.3.2

The Company establishes and maintains a record for each contract review that includes



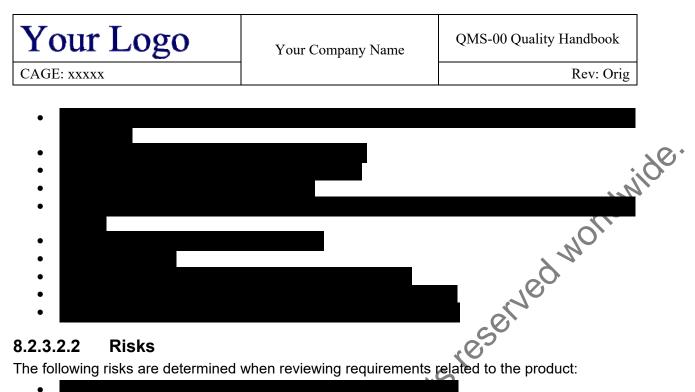
Organization Concerns 8.2.3.2.1

The Company determines issues that may be relevant during review of software tenders, contracts or orders, which includes:



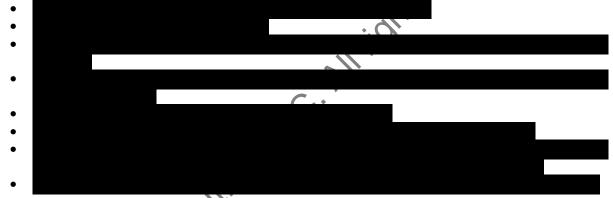
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8.2.3.2.2 **Risks**

The following risks are determined when reviewing requirements related to the product:



The Company evaluates the implications of any contract changes on resources, schedules and costs particularly for

05 Customer Representative 8.2.3.2.3

The Customer representative has the following authorities:



8.2.4 Changes to requirements for products and services

When the requirements for products and services are changed, the Company affirms

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8.3 Design and development of products and services

8.3.1 General through 8.3.6 design and development changes

The Company's design and development process is conducted in a controlled manner according to

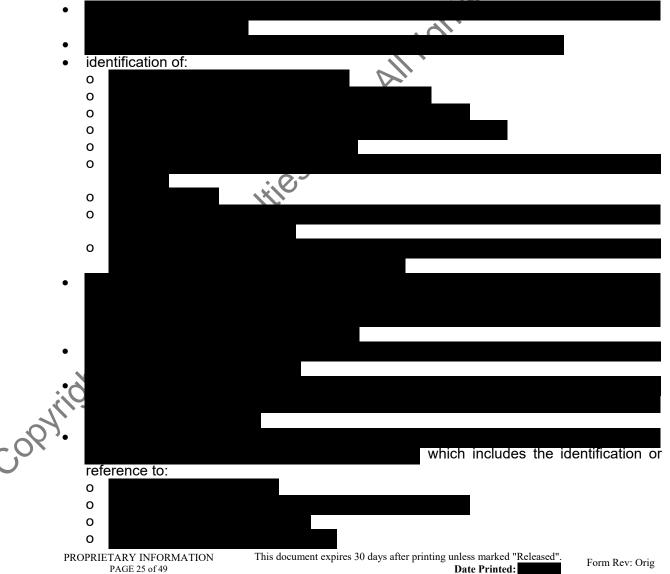
which are defined in the QMS-17 Design and Development Procedure.

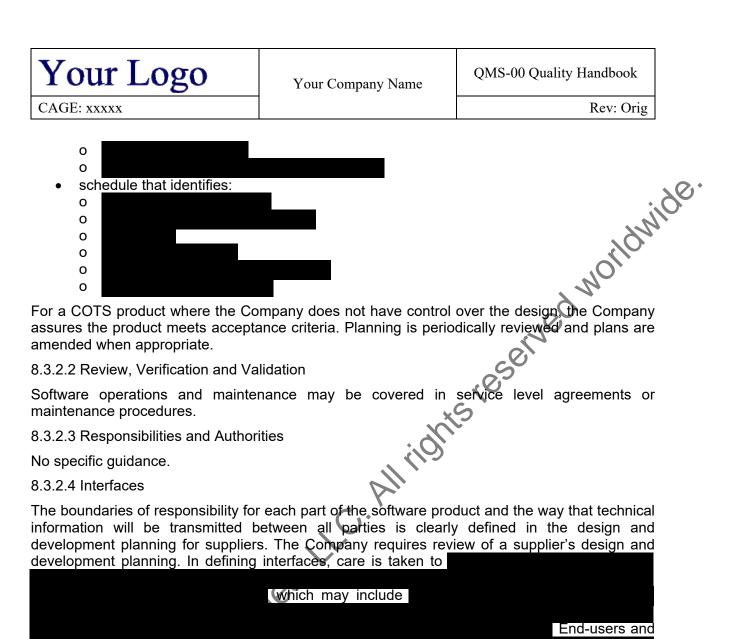
8.3.2 Design and development planning

The Company performs design and development planning to prevent or minimize the occurrence of problems to reduce dependence on verification and validation for identifying problems.

The	Company	ensures	that	software	products	are	developed	d according	to
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Design and development planning addresses the following items, as appropriate:

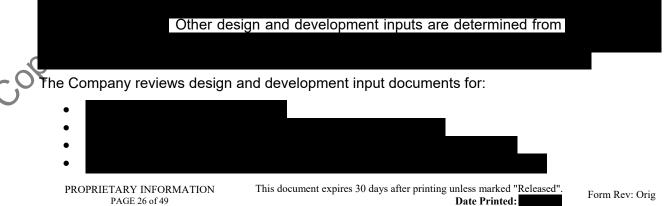


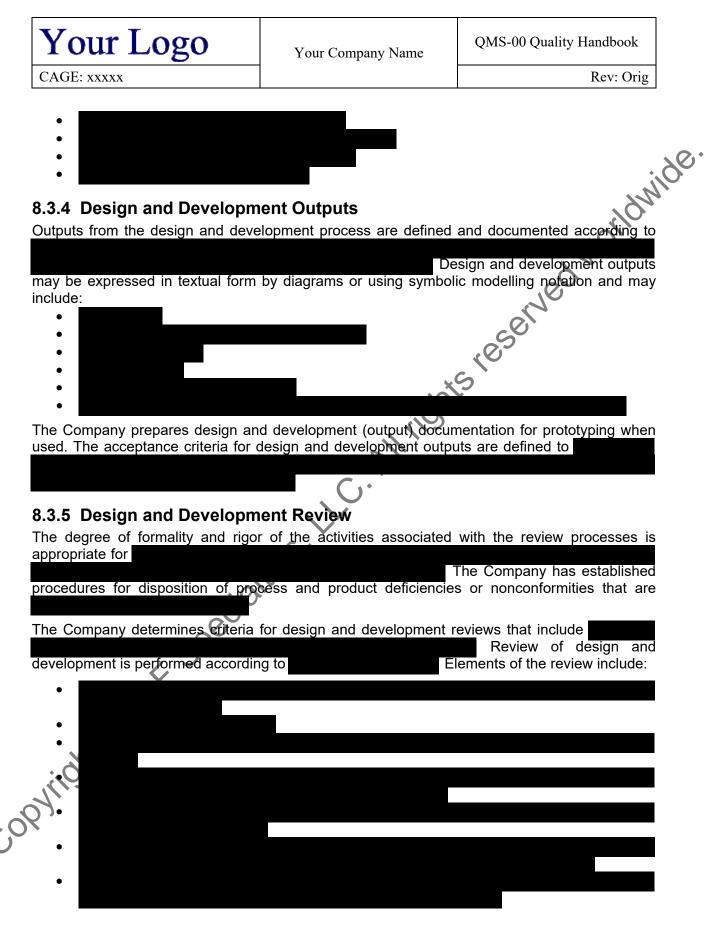


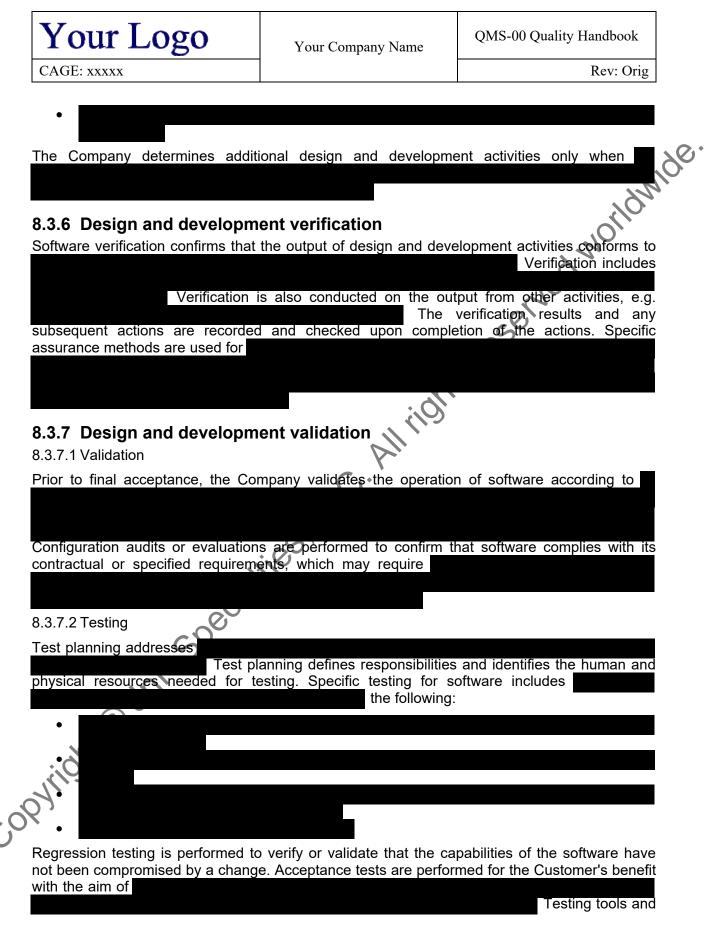
any intermediate operation function are involved to ensure

8.3.3 Design and Development Inputs

The Company allocates requirements for hardware, software components and manual operations to system architectural design. Inputs to software requirements analysis are the system requirements allocated to software and specifications of the interfaces between the system components. Design and development input is determined from







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the environment to be used are gualified and controlled and any limitations to testing recorded. Testing procedures provide wide.

8.3.8 Control of design and development changes

Changes to a software specification or component considers

Control of externally provided processes, products and services 8.4

The Company

8.4.1 General

The Company affirms externally provided processes, products and services conform to requirements according to the QMS-08 Purchasing Procedure and QMS-09 Receiving Procedure. The Company determines the controls to be applied to externally provided processes, products and services when



External provider abilities 8.4.1.1

The Company determines and applies criteria for the evaluation, selection, monitoring of performance and re-evaluation of external providers that is based upon processes or products and services according to requirements and QMS-08 Purchasing

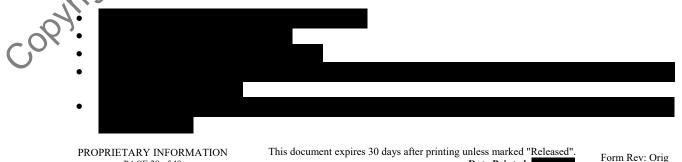
Procedure.

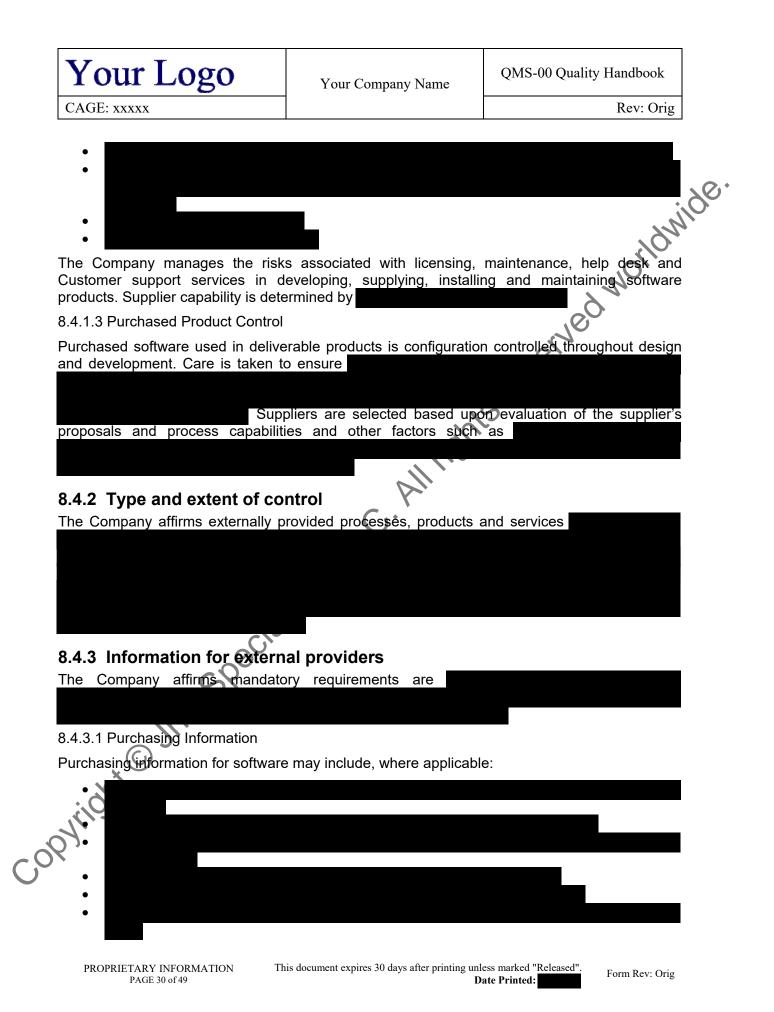
8.4.1.2 Purchased Products

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Free software is considered purchased product, e.g., open source development tools.

In developing, supplying, installing and maintaining software products, types of purchased products may include:







Production and service provision 8.5

8.5.1 Control of production and service provision

The Company implements production and services under controlled conditions according to the QMS-04 Management Process Procedure and QMS-10 Manufacturing Procedure, which includes provisions for:

8.5.1.2 Validation and Control of Special Processes

The Company plans and carries out processes for product realization. In general, this includes assurances that: assurances that:



The Company does not perform work operations where the resulting quality of the work cannot be ascertained prior to delivery. When the Responsible Authority determines that a latent



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deficiency is discovered, suitable qualification and/or certification of the process and/or affected employee(s) is performed according to the QMS-06 Training Procedure. The controls for The Company considers processes that may be used to compensate for the inability to fully validate a software product, which include: validation activities are defined in the QMS-10 Manufacturing Procedure and QMS-02

 \mathbf{a}

Methods are commensurate with the risks and consequences of design and development failures.

8.5.1.1 Control of production equipment, tools and software programs

Software replication activities include:

. .

8.5.1.2 Validation and Control of Special Processes

8.5.1.3 Production and service provisions for software products includes:

• •

8.5.2 Identification and traceability

The Company uses suitable means to identify outputs when it is necessary to ensure the conformity of products and services, and identifies the status of outputs with respect to

C stamps or registered names and initials of inspectors may



8.5.2.1 Overview

orldwide. For software, identification and traceability is implemented through configuration management, which includes

8.5.2.2 Configuration management process

The scope of configuration management includes:

• 2 5 \sim

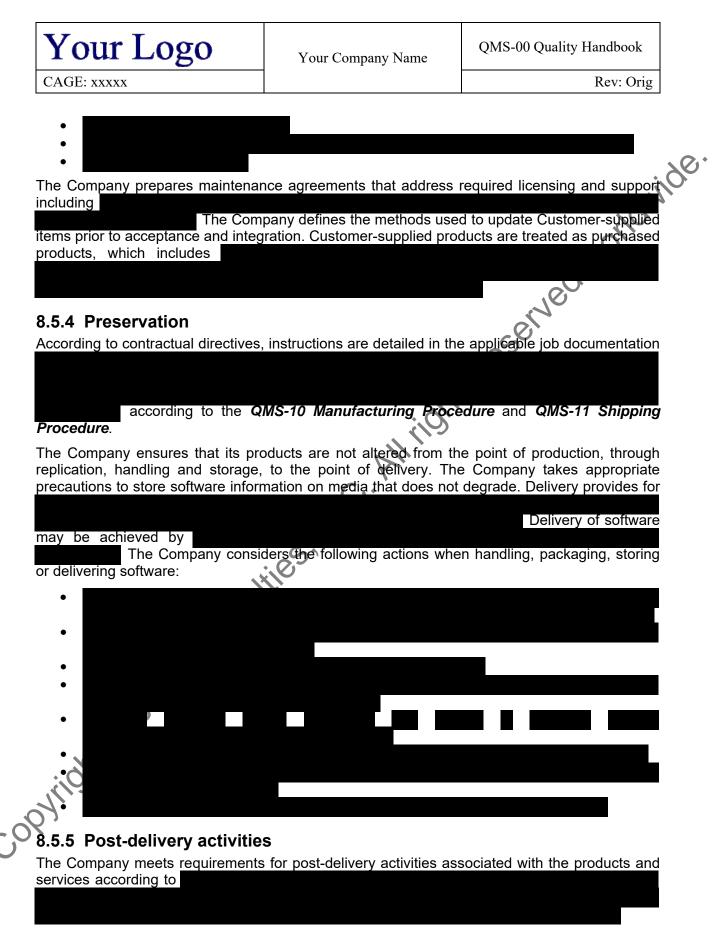
8.5.2.3 Traceability

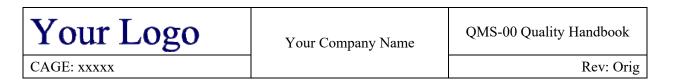
The Company maintains a process to trace the components of the software item or product throughout the life cycle.

8.5.3 Property belonging to Customers or external providers

When outside sources provide property for processing or use, it is suitably identified as such to

R	operty	is	controlled	according	to	the	QMS-10	Manufacturing	Procedure,	
Ci	ustomei •	r pro	operty may i	include:						
	•									
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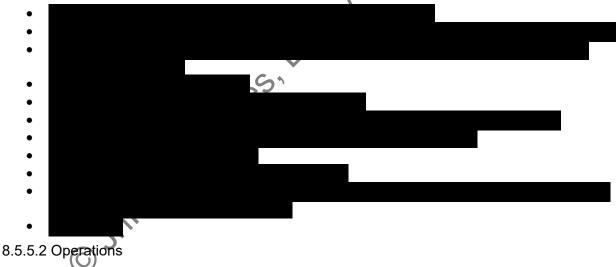
The Company provides as applicable:



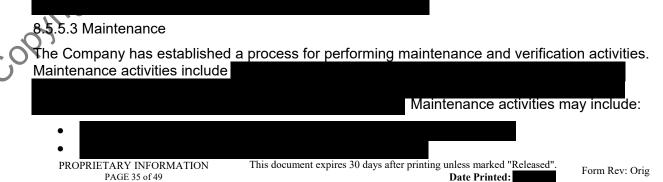
8.5.5.1 Control of Service Operations and Software Installation

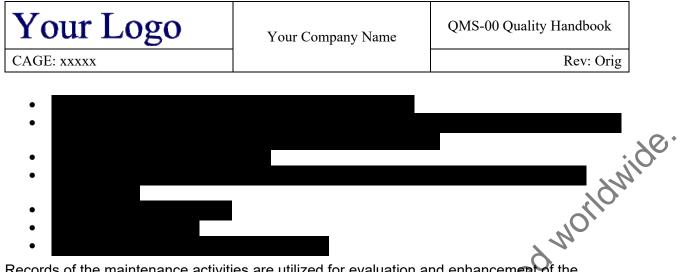
The Company services supplies returned to it for warranty work of repair - field servicing is(is not) performed. For such product work, all normal processes and procedures apply as if the supply were a new manufacture.

The following considerations are made when the Company is responsible for installation of software:



The Company plans and controls operations that include arrangements for ensuring continuity of support, such as





Records of the maintenance activities are utilized for evaluation and enhancement of the software product and for improvement of the quality management system. When resolving problems, temporary fixes may be used to

8.5.6 Control of changes

To ensure continuing conformity with requirements, the Company reviews and controls

8.6 Release of products and services

In-process inspections are conducted during production and service activities to ensure ongoing quality of work according to the *QMS-10 Manufacturing Procedure*. Products and services are released for delivery to Customers only



The Company determines the methods of verification, validation and acceptance of subcontracted work when software development is subcontracted or when purchasing associated hardware and software. The Company conducts acceptance testing and ensures the availability of adequate support when purchasing software for use in development. Careful consideration is given to

Consideration is also given to

The product is also validated against

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8.7 Control of nonconforming outputs

8.7.1 Identify and control nonconforming outputs

The Company affirms outputs that do not conform to requirements are

Nonconforming outputs may be identified by The Company takes appropriate actions based on

Nonconformances are corrected then reverified to confirm outputs are in compliance with requirements. When appropriate, the Company

The Company segregates nonconforming items by transferring them out of a production or testing environment into a separate environment or segregates the nonconforming item (hardware) that contains the nonconforming software.

The Company identifies the investigation and resolution of defects and the control and recording of nonconforming product when

The Company considers the following during disposition of nonconformities:

•

The Company updates the software version when repair or rework is used to achieve fulfillment of specified requirements. Disposition of nonconforming software product may include:

- •
- •
- •
- •

8.7.2 Retain documented information for nonconformities

Records used to disposition nonconformities clearly describe each nonconformance and includes



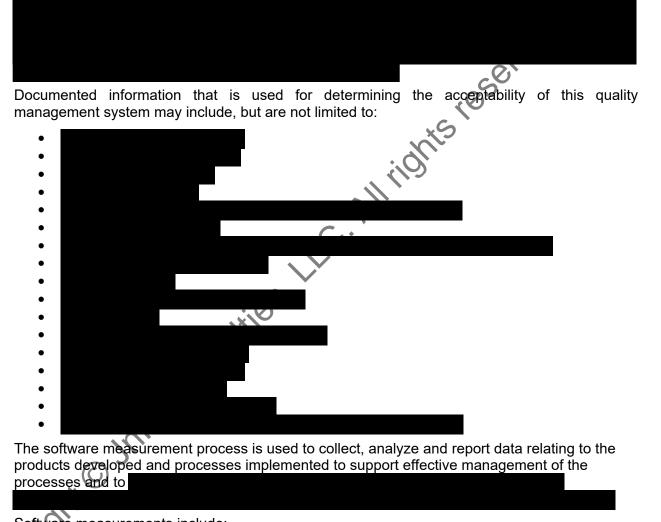
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Performance Evaluation Section 9:

Monitoring, measurement, analysis and evaluation 9.1

9.1.1 General

wide. The Company's determines methods for monitoring, measurement, analysis and evaluation to ensure valid results by



Software measurements include:





9.1.2 Customer satisfaction

To monitor and measure Customer satisfaction and the Company



The Company continuously improves Customer satisfaction according to the QMS-04 Management Process Procedure.

The Company's process for requesting, measuring and monitoring feedback of Customer satisfaction includes:

•	
•	
•	
•	
•	
•	
•	
•	

9.1.3 Analysis and evaluation

The Company evaluates

according to the QMS-04 Management

Process Procedure.

Analysis of data for software includes

Internal audit

Audit planning assesses both the compliance of project quality planning to the Company's quality management system and the compliance of the project to project quality planning to ensure coverage of all stages and all processes. Audit planning may include

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9.2.1 Conduct internal audits at planned intervals

The Company conducts internal audits at planned intervals to provide

9.2.2 Audit requirements The Company assigns Responsible Authorities to perform internal audits and report audit results to management according to the **QMS-12 Internal Auditing Procedure** eserv

9.3 Management review

9.3.1 General

Top management reviews the Company's quality management system at planned intervals to

5

9.3.2 Management review inputs

Management review is planned and carried out according to the QMS-04 Management Process Procedure, which takes into consideration

9.3.3 Management review outputs

Results from management reviews include

Section 10: Improvement

It is the goal of all employees to

 (\mathbf{C}) 10.1 General

0.2 Nonconformity and corrective action

Required actions for nonconformities 10.2.1

When nonconformity occurs in products and processes, including

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The Company affirms corrective actions are appropriate to the effects of nonconformities, and:

The Company may use configuration management to control corrective actions that directly affect software products. Management reviews corrective actions that involve changes to the software life cycle processes.

10.2.2 Required records for nonconformities

The Company retains and maintains records regarding the nature of nonconformances, subsequent actions and

10.3 Continual improvement

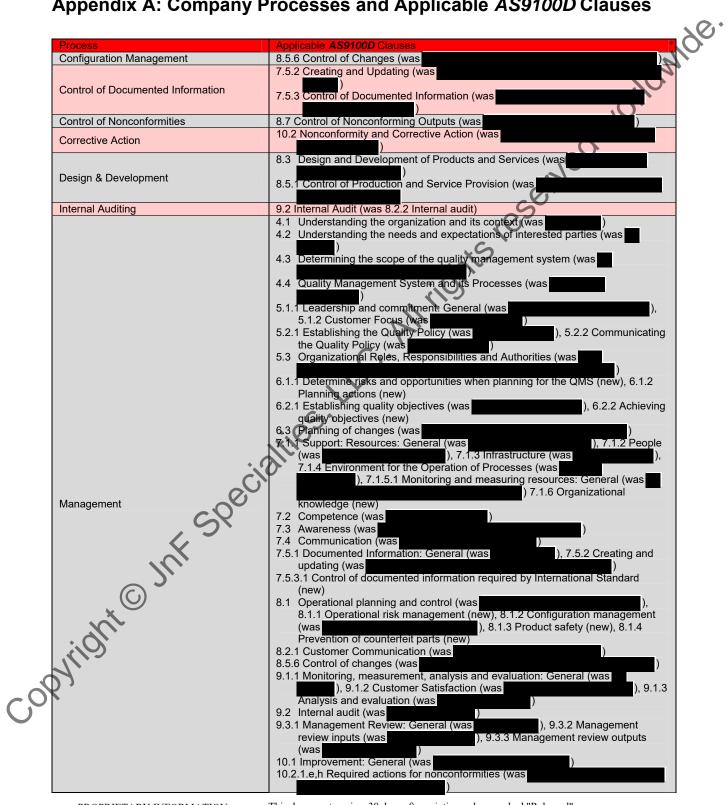
The Company continually improves

Process improvements for software may be applied to any or all of the software life cycle processes that include

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Appendix A: Company Processes and Applicable AS9100D Clauses



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Process	Applicable AS9100D Clauses 10.3 Continual Improvement (was)
	8.1 Operational Planning and Control (was 8.5.1.3 Production Process Verification (was
	8.1 Operational Planning and Control (was) 8.5.1.1 Control of Production Equipment, Tools and Software Programs (was
Manufacturing	8.5.5 Post-Delivery Activities (was)
	8.5.3 Property Belonging to Customers or External Providers (was 8.5.4 Preservation (was 8.6 Release of Products and Services (was
	8.7 Control of Nonconforming Outputs (was
	8.2.2 Requirements Related to Products and Services (was
Proposal Development & Contract Review	8.2.3 Review of Requirements Related to Products and Services (was) 8.2.4 Changes to Requirements for Products and Services (was
Purchasing	8.4.1 Control of Externally Provided Processes, Products and Services: General (was 8.4.3 Information for External Providers (was
	8.4.3 Information for External Providers (was
Description	8.5.2 Identification and Traceability (was 8.5.3 Property Belonging to Customers or External Providers (was
Receiving	8.5.4 Preservation (was 8.6 Release of Products and Services (was
	8.7 Control of Nonconforming Outputs (was) 8.2.2 Determining Requirements Related to Products and Services (was
Shipping), 8.5.1, 8.5.5 Control of Production & Service Provision, Post Delivery Support (was), 8.5.2 Identification and Traceability (was
C)	8.5.4 Preservation (was) 8.7 Control of Nonconforming Outputs (was)
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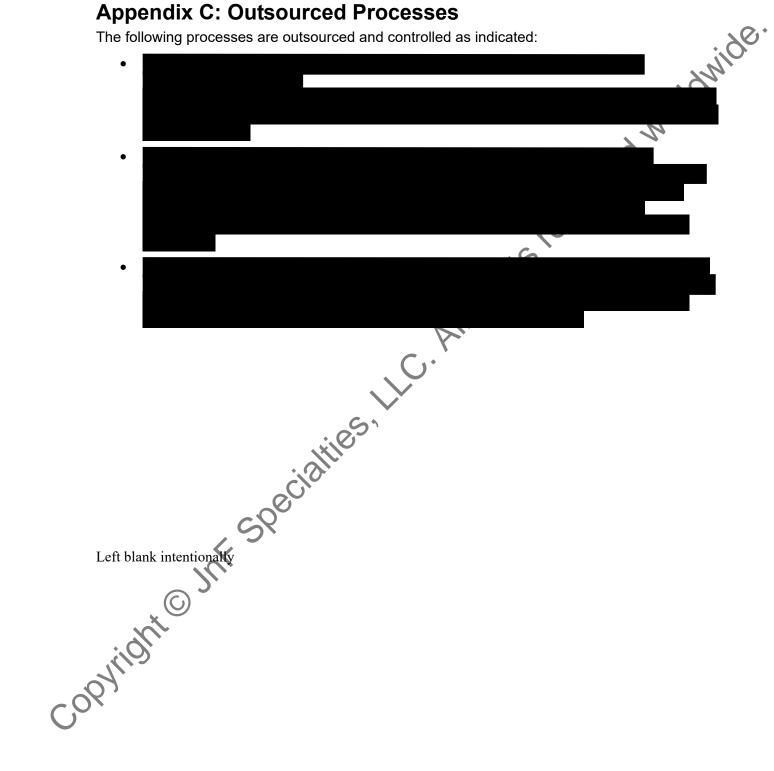
Appendix B: Company Processes and Applicable Documents

Process	Applicable Company Procedures	Applicable Company Records
Corrective Action	QMS-13 Corrective Action	Nonconformity and Corrective Action 10.2 (was)
Design & Development	QMS-17 Design & Development	Operational Planning and Control 8.1.e.1 (was) Design and Development Inputs 8.3.3 (was) Design and Development Controls 8.3.4 (was) Design and Development Changes 8.3.6 (was)
Internal Auditing	QMS-12 Internal Auditing	Internal audit 9.2 (was a)
Management	QMS-00 Quality Handbook QMS-01 Control of Documented Information QMS-02 Configuration Management QMS-04 Management Process QMS-05 Responsibilities & Authorities QMS-06 Training QMS-15 Calibration QMS-16 Definitions and Abbreviation	Management Review: General 9.3.1 (was) Competence 7.2 (was Awareness 7.3 (was) Monitoring and Measuring Resources (1.5, 7.1.5.1, 7.1.5.2 (was))
Manufacturing	QMS-10 Manufacturing QMS-14 Control of Nonconformities Procedure	Identification and Traceability (if required) 8.5.2 (was) Property Belonging to Customers or External Providers 8.5.3 (was) Release of Products and Services 8.6 (was) Control of Nonconforming Outputs 8.7 (was
Proposal Development & Contract Review	QMS-07 Proposal Development & Contract Review	Review of Requirements Related to Products and Services 8.2.3 (was
Purchasing	QMS-08 Purchasing	Control of Externally Provided Processes, Products and Services: General 8.4.1 (was)
Receiving	OMS-09 Receiving OMS-14 Control of Nonconformities Procedure	Property Belonging to Customers or External Providers 8.5.3 (was Control of nonconforming product 8.7 (was
Shipping	QMS-11 Shipping QMS-14 Control of Nonconformities Procedure	Property Belonging to Customers or External Providers 8.5.3 (was 1997) 8.5.4 Preservation (was 1997) Control of Nonconforming Outputs 8.7 (was



Appendix C: Outsourced Processes

The following processes are outsourced and controlled as indicated:





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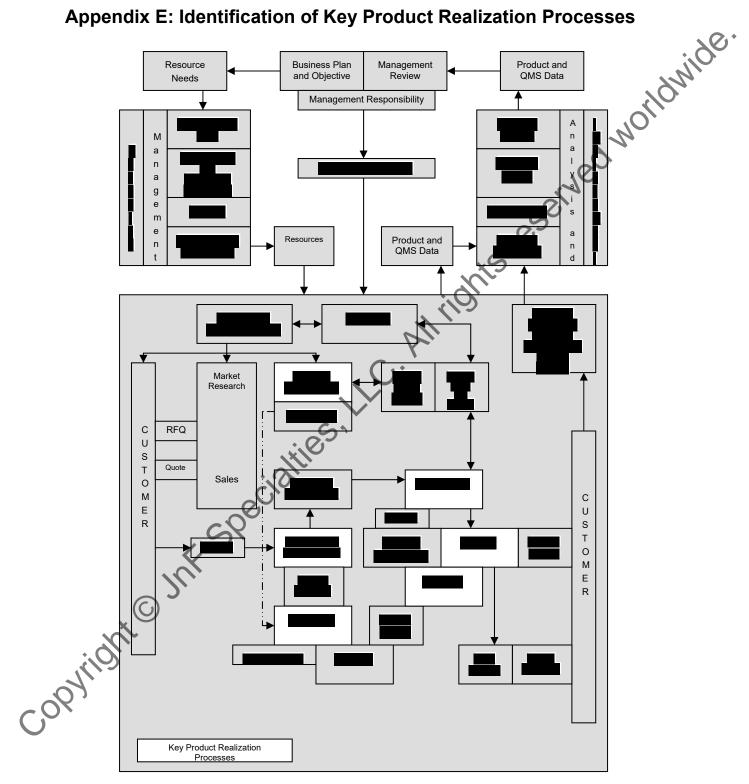
Appendix D: Quality Objectives

Process	Quality Objective Metric
Corrective Action	
Design & Development	
Internal Auditing	
Management	
Manufacturing	
Proposal Development & Contract Review	
Purchasing	
Receiving	
Shipping	
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COMMENT:

The quantity of quality objectives listed above should be evaluated and adjusted to meet actual value-added goals of the Company, and match the list of procedures displayed in paragraph 8.1 and highlighted in Appendix E. The objectives that are listed above are

Appendix E: Identification of Key Product Realization Processes





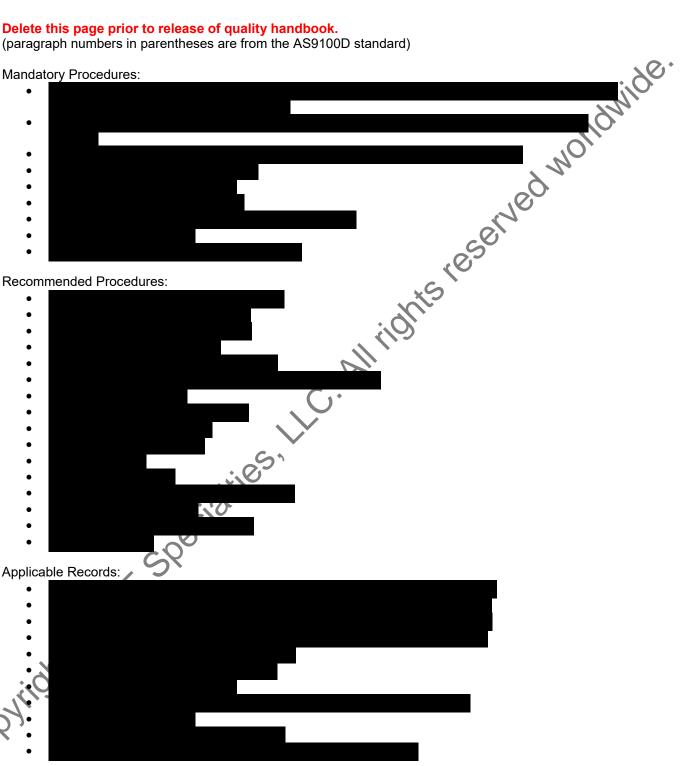
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(paragraph numbers in parentheses are from the AS9100D standard)

Mandatory Procedures:





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(paragraph numbers in parentheses are from the AS9100D standard)

